



OcNOS®
Open Compute
Network Operating System
for Routed Optical Networking
Version 6.4.2

NetConf Command Reference Guide

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Preface

This document describes the OcnOS commands for NetConf.

Audience

This guide is intended for network administrators and other engineering professionals who configure and manage NetConf for OcnOS.

Conventions

[Table 1](#) shows the conventions used in this guide.

Table 1: Conventions

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

Related Documentation

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

Feature Availability

The features described in this document are available depending upon the OcnOS SKU that you purchased. See the *Feature Matrix* for a description of the OcnOS SKUs.

Support

For support-related questions, contact support@ipinfusion.com.

Comments

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

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: empty

Netconf edit-config payload

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

Command Syntax

```
feature netconf callhome enable
```

Configure management port

Interface to be used to connect the callhome server

This command is supported when following feature are enabled NETCONF feature

Attribute Name: management-port

Attribute Type: string

Default Value: eth0

Attribute Range: 1-49

Netconf edit-config payload

```
<netconf-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-management-server">
  <callhome>
    <management-port>IFNAME</management-port> <!-- operation="delete"-->
  </callhome>
</netconf-server>
```

Command Syntax

```
management-port IFNAME
```

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">
  <callhome>
    <reconnect> <!-- operation="delete"-->
      </enable>
    </reconnect>
  </callhome>
</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">
  <callhome>
    <reconnect>
      <retry-max-attempts>0</retry-max-attempts> <!-- operation="delete"-->
    </reconnect>
  </callhome>
</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">
  <callhome>
  <reconnect>
    <retry-interval>1</retry-interval> <!-- operation="delete"-->
  </reconnect>
</callhome>
</netconf-server>
```

Command Syntax

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

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">
  <callhome>
  <netconf-client> <!-- operation="delete"-->
    <name>WORD</name>
    <address>A.B.C.D|X:X::X:X|HOSTNAME</address>
    <port>1</port>
  </netconf-client>
</callhome>
</netconf-server>
```

Command Syntax

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

Configure callhome debug

Enable debugging info for callhome

This command is supported when following feature are enabled NETCONF feature

Attribute Name: callhome-debug

Attribute Type: empty

Netconf edit-config payload

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

Command Syntax

```
debug callhome
```

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

Command Syntax

```

module
  (auth|bgp|cmm|hostp|hsl|lag|l2mrib|mstp|mrib|nsm|onm|oam|ospf|ospf6|ptp|rip|pim|
  rib|vrrp|sflow|pserv|cml|ndd|ripng|vlog|all) 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.

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>vrf</instance-type>
    <config>
      <instance-type>vrf</instance-type>
      <instance-name>WORD</instance-name>
    </config>
    <instance-name>WORD</instance-name>
  </network-instance>
</network-instances>

```

Command Syntax

```
ip 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 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 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: 1-33

Attribute Name: enable-switchport

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>
      </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 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>l</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-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 mac address

Use this attribute to set the mac address for an interface. If not specified, the corresponding operational state leaf is expected to show the system-assigned MAC address.

Attribute Name: mac-address

Attribute Type: string

Attribute Range: 1-20

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>
      <mac-address>MAC</mac-address> <!-- operation="delete"-->
    </config>
  </ethernet>
</interface>
</interfaces>
```

Command Syntax

```
mac-address (MAC|use-physical)
```

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.

Attribute Name: port-speed

Attribute Type: enum (10m|100m|1g|2.5g|10g|20g|25g|40g|50g|100g|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">
      <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|auto)
```

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 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>
</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 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>
        </config>
        <ip-label>LINE</ip-label> <!-- 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 label LINE
```

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>
```

```

    </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>
  </interface>
</interfaces>

```

```
<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 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

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-auto-config>true</enable-auto-config> <!-- operation="delete"-->
    </config>
  </ipv6>
</interface>
</interfaces>
```

Command Syntax

```
ipv6 address autoconfig
```

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

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>
    <vrfName>NAME</vrfName>
  <config>
    </disable-ip-vrf-forwarding><!-- operation="delete"-->
  </config>
</vrf>
</ip-global>
```

Command Syntax

```
no ip forwarding vrf NAME
```

Configure disable ipv6 vrf forwarding

Turn on IPv6 forwarding for the VRF instance

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>
    <vrfName>NAME</vrfName>
  <config>
    </disable-ipv6-vrf-forwarding><!-- operation="delete"-->
  </config>
</vrf>
</ip-global>
```

```

</config>
</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>
    <vrfName>NAME</vrfName>
  </vrf>
  <config>
    </enable-icmp-broadcast><!-- operation="delete"-->
  </config>
</ip-global>

```

Command Syntax

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

IPI-IF-EXTENDED

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 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 multicast

This attribute is used to set multicast flag for the interface. For a MAC layer protocol, this includes both Group and Functional addresses. Multicast is enabled by default for L3 interfaces. Setting multicast flag for loopback and L2 subinterface is not allowed

Attribute Name: disable-multicast

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

```

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

```

Command Syntax

```
no multicast
```

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>

```

Command Syntax

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

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: 250-5000

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>250</debounce-time> <!-- operation="delete"-->
    </config>
</extended>
</interface>
</interfaces>

```

Command Syntax

```

debounce-time <250-5000>

```

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> <!-- operation="delete"-->
    </config>
  </extended>
</interface>
</interfaces>
```

Command Syntax

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

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 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 linkup debounce time

Link debounce timer value for down-up transition

Attribute Name: linkup-debounce-time

Attribute Type: uint16

Attribute Range: 0-5000

Attribute Name: linkdown-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">
    <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 <0-5000> <0-5000>
```

Configure l2cp type

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

Attribute Name: l2cp-type

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

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>
      <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) (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)

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)
```

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>32</bcast-burst-value>
            <bcast-value>LEVEL</bcast-value>
          </config>
        </broadcast>
      </storm-control>
    </ethernet>
  </interface>
</interfaces>
```

Command Syntax

```
storm-control broadcast level LEVEL (burst-size <32-128000>|)
```

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>32</bcast-burst-value>
            <bcast-rate-limit-format>level</bcast-rate-limit-format>
          </config>
        </broadcast>
      </storm-control>
    </ethernet>
  </interface>
</interfaces>
```

Command Syntax

```
storm-control broadcast <0-1000000000> (kbps|mbps|gbps) (burst-size <32-128000>|)
```

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">
        <multicast>
          <config>
            <mcast-rate-limit-format>0</mcast-rate-limit-format>
            <mcast-burst-value>32</mcast-burst-value>
            <mcast-value>LEVEL</mcast-value>
          </config>
        </multicast>
      </storm-control>
    </ethernet>
  </interface>
</interfaces>
```

Command Syntax

```
storm-control multicast level LEVEL (burst-size <32-128000>|)
```

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>32</mcast-burst-value>
          <mcast-rate-limit-format>level</mcast-rate-limit-format>
        </config>
      </multicast>
    </storm-control>
  </ethernet>
</interface>
</interfaces>

```

Command Syntax

```
storm-control multicast <0-1000000000> (kbps|mbps|gbps) (burst-size <32-128000>|)
```

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>32</dlf-bcast-burst-value>
          <dlf-bcast-value>LEVEL</dlf-bcast-value>
        </config>
      </dlf-broadcast>
    </storm-control>
  </ethernet>
</interface>
</interfaces>

```

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

Command Syntax

```
storm-control dlf level LEVEL (burst-size <32-128000>|)
```

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>32</dlf-bcast-burst-value>  
          <dlf-bcast-rate-limit-format>level</dlf-bcast-rate-limit-format>  
        </config>  
      </dlf-broadcast>  
    </storm-control>  
  </ethernet>  
</interface>  
</interfaces>
```

Command Syntax

```
storm-control dlf <0-1000000000> (kbps|mbps|gbps) (burst-size <32-128000>|)
```

Configure port mode

This Object is to set port mode

This command is supported when following feature are enabled Flexport Feature

Attribute Name: port-mode

Attribute Type: enum (4X10g|4X25g|2X50g|40g|100g)

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">
    <hardware-profile-flexport>
      <config>
        <port-mode>4X10g</port-mode> <!-- operation="delete"-->
      </config>
    </hardware-profile-flexport>
  </global>
</interfaces>
```

Command Syntax

```
hardware-profile portmode (4X10g|4X25g|2X50g|40g|100g)
```

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)

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}
```

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 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)

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}
```

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

```
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>
```

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 I2protocol 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|)
```

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 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|events|hal events|hal ipc|linkmonitor|packet|packet detail|packet rcv|packet rcv detail|packet send|packet send detail|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|events|hal events|hal ipc|linkmonitor|packet|packet
detail|packet rcv|packet rcv detail|packet send|packet send detail|all)|)
```

Configure 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|lacp|qos|helper|rbridge|nvo|ofl|mlag|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 | lacp | qos | helper | rbr
  idge | nvo | ofl | mlag | srv6 | ptp | extphy)
  {all | default | info | debug | warn | error | fatal | admin | counter | pkt}
```

debug nsm ((addressmonitor|events|hal events|hal ipc|linkmonitor|packet|packet detail|packet recv|packet recv detail|packet send|packet send detail|all))

Attribute Name: terminal-debug-options

Attribute Type: bits (addressmonitor|events|hal events|hal ipc|linkmonitor|packet|packet detail|packet recv|packet recv detail|packet send|packet send detail|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|events|hal events|hal ipc|linkmonitor|packet|packet
detail|packet rcv|packet rcv detail|packet send|packet send detail|all|))
```

no debug nsm ((addressmonitor|events|hal events|hal ipc|linkmonitor|packet|packet detail|packet rcv|packet rcv detail|packet send|packet send detail|all|))

Attribute Name: terminal-debug-options

Attribute Type: bits (addressmonitor|events|hal events|hal ipc|linkmonitor|packet|packet detail|packet rcv|packet rcv detail|packet send|packet send detail|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|events|hal events|hal ipc|linkmonitor|packet|packet
detail|packet rcv|packet rcv detail|packet send|packet send detail|all|))
```

**debug hsl
(general|ifmgr|bridge|msg|fib|fdb|devdrv|pktdrv|platform|pbr|lacp|qos|helper|
bridge|nvo|ofl|mlag|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|lacp|qos|helper|rbridge|nvo|ofl|mlag|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|lacp|qos|helper|rbr
  idge|nvo|ofl|mlag|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|lacp|qos|helper|
bridge|nvo|ofl|mlag|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|lacp|qos|helper|bridge|nvo|ofl|mlag|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|lacp|qos|helper|rbr
  idge|nvo|ofl|mlag|srv6|ptp|extphy)
  {all|default|info|debug|warn|error|fatal|admin|counter|pkt}
```

debug pktmgr (I2 protocol cfm|I2 protocol eapol|I2 protocol efm|I2 protocol igmp-snoop|I2 protocol lacp|I2 protocol lldp|I2 protocol mldp-snoop|I2 protocol mstp|I2 protocol ptp|I2 protocol all)

Attribute Name: terminal-debug-options

Attribute Type: bits (I2 protocol cfm|I2 protocol eapol|I2 protocol efm|I2 protocol igmp-snoop|I2 protocol lacp|I2 protocol lldp|I2 protocol mldp-snoop|I2 protocol mstp|I2 protocol ptp|I2 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
```

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
```

IPI-BRIDGE

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.

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>
</network-instance>
</network-instances>

```

Command Syntax

```
no bridge <1-32> acquire
```

Configure protocol

Bridge protocol type

Attribute Name: protocol

Attribute Type: enum (ieee|ieee vlan-bridge|rstp|rstp vlan-bridge|mstp|provider-rstp|provider-mstp|rpvst+|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>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">
      <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|rpvst+|rstp ring|mstp ring|provider-rstp edge|provider-mstp
edge|rstp vlan-bridge ring)
```

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>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">
      <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 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>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>
          <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>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">
      <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>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">
      <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 allowed-ethertype statistics (IFNAME|)

Attribute Name: interface-name

Attribute Type: string

Attribute Range: 1-33

Netconf RPC payload

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

Command Syntax

```
clear allowed-ethertype statistics (IFNAME|)
```

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>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>
        </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>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">
  <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 vlan id

Vlan identifier

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 vlan id

Vlan identifier

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>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">
    <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 type

private vlan type

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>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>
    <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

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>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>
        <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-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>
</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-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>
</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-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>
</vlan-classifier>
```

Command Syntax

```
vlan classifier rule <1-256> proto
(ETHERTYPE|ip|x25|arp|g8bpqx25|ieeepup|ieeaddrtrans|dec|decndadumpload|decnare
moteconsole|decnarrouting|declat|decdiagnostics|rarp|atalkddp|atalkarp|ipx|ipv6
|atmmulti|pppdiscovery|pppsession|atmtransport)
```

Configure group id

VLAN classifier group ID

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-group>
```

```

    <rule-id>1</rule-id>
  <config>
    <rule-id>1</rule-id>
    <group-id>1</group-id>
  </config>
  <group-id>1</group-id>
</classifier-group>
</vlan-classifier>

```

Command Syntax

```
vlan classifier group <1-16> add rule <1-256>
```

Configure group id

VLAN classifier group ID

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">
  <port>
    <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>
</vlan-classifier>

```

Command Syntax

```
vlan classifier activate <1-16> vlan <2-4094>
```

Configure vlan id

Vlan identifier

Attribute Name: vlan-id

Attribute Type: string

Attribute Range: 2-4094

Netconf edit-config payload

```
<vlan-reservation xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vlan">
<reserve-vlan> <!-- operation="delete"-->
  <vlan-id>VLAN_RANGE</vlan-id>
  <config>
    <vlan-id>VLAN_RANGE</vlan-id>
  </config>
</reserve-vlan>
</vlan-reservation>
```

Command Syntax

```
vlan-reservation VLAN_RANGE
```

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 table name

Use this to configure the name of the CVLAN registration table.

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>
        <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 cvlan cfi

Canonical Format Indicator in the DEI field of the CTAG

This command is supported when following feature are enabled VLAN feature, Provider Bridging feature

Attribute Name: cvlan-cfi

Attribute Type: uint8

Attribute Range: 0-1

Attribute Name: translated-cvlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: svlan-cos

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: svlan-cfi

Attribute Type: uint8

Attribute Range: 0-1

Attribute Name: cvlan-cos

Attribute Type: uint8

Attribute Range: 0-7

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>
              <svlan-cos>0</svlan-cos>
              <svlan-cfi>0</svlan-cfi>
              <cvlan-cos>0</cvlan-cos>
            </config>
            <svlan-id>1</svlan-id>
            <cvlan-cfi>0</cvlan-cfi>
          </cvlan-mapping>
        </cvlan-mappings>
      </cvlan-registration-table>
    </cvlan-registration-tables>
  </bridge>
</network-instance>
</network-instances>

```

Command Syntax

```
cvlan VLAN_RANGE2 cvlan <1-4094> svlan <1-4094> ({ scos <0-7>| scfi <0-1>| ccos <0-7>| ccfi <0-1> }|)
```

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: svlan-cos

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: svlan-cfi

Attribute Type: uint8

Attribute Range: 0-1

Attribute Name: cvlan-cos

Attribute Type: uint8

Attribute Range: 0-7

Attribute Name: cvlan-cfi

Attribute Type: uint8

Attribute Range: 0-1

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>
  <svlan-cos>0</svlan-cos>
  <svlan-cfi>0</svlan-cfi>
  <cvlan-cos>0</cvlan-cos>
  <cvlan-cfi>0</cvlan-cfi>
</config>
  <svlan-id>1</svlan-id>
  <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 <1-4094> ({ scos <0-7>| scfi <0-1>| ccos <0-7>| ccfi <0-1>|
  untagged-pep|untagged-cep }|)
```

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: 1-4094

Attribute Name: translated-cvlan-id

Attribute Type: uint16

Attribute Range: 1-4094

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 <1-4094> svlan <1-4094>
```

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: 1-4094

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 <1-4094>
```

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|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-vlan> <!-- operation="delete"-->
        <interface-mode>access</interface-mode>
        <config>
          <interface-mode>access</interface-mode>
        </config>
      </switched-vlan>
```

```
</port-vlan>  
</interface>  
</interfaces>
```

Command Syntax

```
switchport mode (access|hybrid|trunk|provider-network|customer-edge  
access|customer-edge hybrid|customer-edge trunk)
```

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-vlan>  
  <interface-mode>access</interface-mode>  
  <config>  
    <interface-mode>access</interface-mode>  
  </config>  
  <acceptable-frame-type>all</acceptable-frame-type> <!--  
operation="delete"-->  
</switched-vlan>  
</port-vlan>  
</interface>  
</interfaces>
```

Command Syntax

```
switchport mode (hybrid) acceptable-frame-type (vlan-tagged|all)
```

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-vlan>
      <interface-mode>access</interface-mode>
      <config>
        <interface-mode>access</interface-mode>
      </config>
      <acceptable-frame-type>all</acceptable-frame-type> <!--
operation="delete"-->
    </switched-vlan>
  </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-vlan>
        <interface-mode>access</interface-mode>
        <config>
          <interface-mode>access</interface-mode>
        </config>
        </disable-native-vlan><!-- operation="delete"-->
      </switched-vlan>
    </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-vlan>
        <interface-mode>access</interface-mode>
        <config>
          <interface-mode>access</interface-mode>
        </config>
        </remove-default-vlan><!-- operation="delete"-->
      </switched-vlan>
    </port-vlan>
  </interface>
</interfaces>
```

Command Syntax

```
switchport mode (trunk) remove-default-vlan
```

Configure ingress filter

Use this attribute to set the switching characteristics of the interface as hybrid, and classify both tagged and untagged frames. Received frames are classified based on the VLAN characteristics, then accepted or discarded based on the specified filtering criteria.

Attribute Name: ingress-filter

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>
    <port-vlan xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-vlan">
      <switched-vlan>
        <interface-mode>access</interface-mode>
        <config>
          <interface-mode>access</interface-mode>
        </config>
        <ingress-filter>disable</ingress-filter> <!-- operation="delete"-->
      </switched-vlan>
    </port-vlan>
  </interface>
</interfaces>
```

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

Command Syntax

```
switchport mode (access|hybrid|trunk|provider-network|customer-edge
access|customer-edge hybrid|customer-edge trunk) ingress-filter (disable|enable)
```

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-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>
  </port-vlan>
</interface>
</interfaces>
```

Command Syntax

```
switchport (access|hybrid) vlan <2-4094>
```

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-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>
</port-vlan>
</interface>
</interfaces>

```

Command Syntax

```
switchport (customer-edge access) vlan <2-4094>
```

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-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>
</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-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>
  </port-vlan>
</interface>
</interfaces>
```

Command Syntax

```
switchport (trunk) native vlan <2-4094>
```

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 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-mapping> <!-- operation="delete"-->
      <mac-address>XXXX.XXXX.XXXX</mac-address>
      <config>
        <mac-address>XXXX.XXXX.XXXX</mac-address>
      </config>
    </default-vlan-mapping>
    </secure-mac>
    </port-security>
    </port-vlan>
  </interface>
</interfaces>
```

Command Syntax

```
switchport port-security mac-address XXXX.XXXX.XXXX
```

Configure 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-mapping>
      <mac-address>XXXX.XXXX.XXXX</mac-address>
      <config>
        <mac-address>XXXXX.XXXX.XXXX</mac-address>
      </config>
      <cvlan-id>2</cvlan-id> <!-- operation="delete"-->
    </vlan-mapping>
  </secure-mac>
</port-security>
</port-vlan>
</interface>
</interfaces>

```

Command Syntax

```
switchport port-security mac-address XXXX.XXXX.XXXX vlanId <2-4094>
```

Configure 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-mapping>
    <mac-address>XXXX.XXXX.XXXX</mac-address>
    <config>
      <mac-address>XXXXX.XXXX.XXXX</mac-address>
    </config>
    <svlan-id>2</svlan-id> <!-- operation="delete"-->
  </vlan-mapping>
  </secure-mac>
</port-security>
</port-vlan>
</interface>
</interfaces>

```

Command Syntax

```
switchport port-security mac-address XXXX.XXXX.XXXX svlanId <2-4094>
```

Configure 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-mapping> <!-- operation="delete"-->
    <svlan-id>2</svlan-id>
    <config>
      <svlan-id>2</svlan-id>
      <cvlan-id>2</cvlan-id>
      <mac-address>XXXX.XXXX.XXXX</mac-address>
    </config>
    <cvlan-id>2</cvlan-id>
    <mac-address>XXXX.XXXX.XXXX</mac-address>
  </cvlan-svlan-mapping>
  </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 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)

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)
```

Configure associate vlan id

Private VLAN Association

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>
  <association>
    <vlan-id>2</vlan-id>
    <config>
      <vlan-id>2</vlan-id>
    </config>
    <associate-vlan-id>2</associate-vlan-id>
  </association>
</private-vlan>
</port-vlan>
</interface>
</interfaces>

```

Command Syntax

```
switchport private-vlan host-association <2-4094> add <2-4094>
```

Configure vlan id

Primary vlan identifier

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>
        <association> <!-- operation="delete"-->
          <vlan-id>2</vlan-id>
          <config>
            <vlan-id>2</vlan-id>
            <mapping-vlan-id>VLAN_ID</mapping-vlan-id>
          </config>
        </association>
      </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

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>
<association>
  <vlan-id>2</vlan-id>
  <config>
    <vlan-id>2</vlan-id>
  </config>
  <association-trunk-vlan-id>2</association-trunk-vlan-id>
</association>
</private-vlan>
</port-vlan>
</interface>
</interfaces>

```

Command Syntax

```
switchport private-vlan association-trunk <2-4094> <2-4094>
```

Configure vlan id

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">
      <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>
      </entry>
    </vlan-static-fdb>
  </bridge>
</network-instance>
</network-instances>

```

```
        </config>
        <mac-address>XXXX.XXXX.XXXX</mac-address>
    </entry>
</vlan-static-fdb>
</bridge>
</network-instance>
</network-instances>
```

Command Syntax

```
bridge <1-32> address XXXX.XXXX.XXXX (discard|forward) IFNAME vlan <2-4094>
```

Configure vlan id

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">
      <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>
    </vlan-static-fdb>
  </bridge>
```

```
</network-instance>
</network-instances>
```

Command Syntax

```
bridge <1-32> address XXXX.XXXX.XXXX (discard|forward) IFNAME vlan <2-4094>
```

IPI-VLAN-XC

Configure xconnect name

This attribute uniquely identifies a cross connect on the device

This command is supported when following feature are enabled VLAN XC support enabled

Attribute Name: xconnect-name

Attribute Type: string

Attribute Range: 1-30

Netconf edit-config payload

```
<cross-connects xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vlan-xc">
<cross-connect> <!-- operation="delete"-->
  <xconnect-name>WORD</xconnect-name>
</cross-connect>
</cross-connects>
```

Command Syntax

```
cross-connect WORD
```

Configure disable

Disable this cross connect

This command is supported when following feature are enabled VLAN XC support enabled

Attribute Name: disable

Attribute Type: empty

Netconf edit-config payload

```
<cross-connects xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vlan-xc">
<cross-connect>
  <xconnect-name>WORD</xconnect-name>
  <disable><!-- operation="delete"-->
</cross-connect>
```

```
</cross-connects>
```

Command Syntax

```
disable
```

Configure backup endpoint 1

Configure backup endpoint-1

This command is supported when following feature are enabled VLAN XC support enabled

Attribute Name: backup-endpoint-1

Attribute Type: string

Netconf edit-config payload

```
<cross-connects xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vlan-xc">
<cross-connect>
  <xconnect-name>WORD</xconnect-name>
  <config>
    <xconnect-name>WORD</xconnect-name>
  </config>
  <backup-endpoint-1>IFNAME</backup-endpoint-1> <!-- operation="delete"-->
</cross-connect>
</cross-connects>
```

Command Syntax

```
backup ep1 IFNAME
```

Configure backup endpoint 2

Configure backup endpoint-2

This command is supported when following feature are enabled VLAN XC support enabled

Attribute Name: backup-endpoint-2

Attribute Type: string

Netconf edit-config payload

```
<cross-connects xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vlan-xc">
<cross-connect>
  <xconnect-name>WORD</xconnect-name>
  <config>
    <xconnect-name>WORD</xconnect-name>
  </config>
  <backup-endpoint-2>IFNAME</backup-endpoint-2> <!-- operation="delete"-->
</cross-connect>
</cross-connects>
```

Command Syntax

```
backup ep2 IFNAME
```

Configure revertive

Enable revertive operation for this XC

This command is supported when following feature are enabled VLAN XC support enabled

Attribute Name: revertive

Attribute Type: empty

Netconf edit-config payload

```
<cross-connects xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vlan-xc">
<cross-connect>
  <xconnect-name>WORD</xconnect-name>
  <config>
    <xconnect-name>WORD</xconnect-name>
  </config>
  </revertive><!-- operation="delete"-->
</cross-connect>
</cross-connects>
```

Command Syntax

```
cross-connect switchover type revertive
```

Configure link fault pass through enable

Configure link fault pass through

This command is supported when following feature are enabled VLAN XC support enabled

Attribute Name: link-fault-pass-through-enable

Attribute Type: empty

Netconf edit-config payload

```
<cross-connects xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vlan-xc">
<cross-connect>
  <xconnect-name>WORD</xconnect-name>
  <config>
    <xconnect-name>WORD</xconnect-name>
  </config>
  </link-fault-pass-through-enable><!-- operation="delete"-->
</cross-connect>
</cross-connects>
```

Command Syntax

```
link-fault-pass-through enable
```

Configure port endpoint 1

Configure port endpoint-1

This command is supported when following feature are enabled VLAN XC support enabled

Attribute Name: port-endpoint-1

Attribute Type: string

Attribute Name: port-endpoint-2

Attribute Type: string

Netconf edit-config payload

```
<cross-connects xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vlan-xc">
  <cross-connect>
    <xconnect-name>WORD</xconnect-name>
    <config>
      <xconnect-name>WORD</xconnect-name>
    </config>
  <cross-connect-port>
  <config>
    <port-endpoint-2>IFNAME</port-endpoint-2>
    <port-endpoint-1>IFNAME</port-endpoint-1>
  </config>
</cross-connect-port>
</cross-connect>
</cross-connects>
```

Command Syntax

```
ep1 IFNAME ep2 IFNAME
```

Configure vlan endpoint 1

Configure vlan endpoint-1

This command is supported when following feature are enabled VLAN XC support enabled

Attribute Name: vlan-endpoint-1

Attribute Type: string

Attribute Name: vlan-endpoint-2

Attribute Type: string

Netconf edit-config payload

```
<cross-connects xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vlan-xc">
  <cross-connect>
    <xconnect-name>WORD</xconnect-name>
    <config>
      <xconnect-name>WORD</xconnect-name>
    </config>
  <cross-connect-vlan>
  <config>
    <vlan-endpoint-2>IFNAME</vlan-endpoint-2>
    <vlan-endpoint-1>IFNAME</vlan-endpoint-1>
  </config>
</cross-connect-vlan>
</cross-connect>
```

```
</cross-connects>
```

Command Syntax

```
vlan ep1 IFNAME ep2 IFNAME
```

Configure outer vlan range

Use this attribute to set the outer vlan id for XC.

Attribute Name: outer-vlan-range

Attribute Type: string

Netconf edit-config payload

```
<cross-connects xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vlan-xc">
<cross-connect>
  <xconnect-name>WORD</xconnect-name>
  <config>
    <xconnect-name>WORD</xconnect-name>
  </config>
<cross-connect-vlan>
<vlan-xc-entries>
<vlan-xc-entry>
  <inner-vlan-range>WORD</inner-vlan-range>
  <config>
    <inner-vlan-range>WORD</inner-vlan-range>
    <outer-vlan-range>WORD</outer-vlan-range>
  </config>
  <outer-vlan-range>WORD</outer-vlan-range>
</vlan-xc-entry>
</vlan-xc-entries>
</cross-connect-vlan>
</cross-connect>
</cross-connects>
```

Command Syntax

```
outer-vlan WORD
```

Configure inner vlan range

Use this attribute to set the inner vlan id for XC.

This command is supported when following feature are enabled VLAN XC support enabled

Attribute Name: inner-vlan-range

Attribute Type: string

Netconf edit-config payload

```
<cross-connects xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vlan-xc">
<cross-connect>
  <xconnect-name>WORD</xconnect-name>
```

```
<config>
  <xconnect-name>WORD</xconnect-name>
</config>
<cross-connect-vlan>
<vlan-xc-entries>
<vlan-xc-entry>
  <inner-vlan-range>WORD</inner-vlan-range>
  <config>
    <inner-vlan-range>WORD</inner-vlan-range>
    <outer-vlan-range>WORD</outer-vlan-range>
  </config>
  <outer-vlan-range>WORD</outer-vlan-range>
</vlan-xc-entry>
</vlan-xc-entries>
</cross-connect-vlan>
</cross-connect>
</cross-connects>
```

Command Syntax

```
outer-vlan WORD inner-vlan WORD
```

clear cross-connect counters (NAME|)

Attribute Name: xc-name

Attribute Type: string

Netconf RPC payload

```
<clear-cross-connect-counters xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
vlan-xc">
  <xc-name>NAME</xc-name>
</clear-cross-connect-counters>
```

Command Syntax

```
clear cross-connect counters (NAME|)
```

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>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">
        <config>
          <ageing-time>300</ageing-time> <!-- operation="delete"-->
        </config>
      </stp>
    </bridge>
  </network-instance>
</network-instances>

```

Command Syntax

```
bridge <1-32> ageing disable
```

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>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>
          <ageing-time>300</ageing-time> <!-- operation="delete"-->
        </config>
      </stp>
    </bridge>
  </network-instance>

```

```
</network-instances>
```

Command Syntax

```
bridge <1-32> ageing-time (0|<10-1000000>)
```

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>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>
          </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>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>
          <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>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>
            </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>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>
        </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>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>
            </enable-error-disable-timeout><!-- operation="delete"-->
          </config>
        </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 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.

Attribute Name: instance-name

Attribute Type: string

Attribute Name: bridge-type

Attribute Type: enum (spanning-tree|rapid-spanning-tree|multiple-spanning-tree|rapid-pervlan-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>
  <stp>
  <global>
  <bridge-admin>
    <bridge-type>spanning-tree</bridge-type>
    </disable-spanning-tree>

```

```

    </bridge-admin>
  </global>
</stp>
</network-instance>
</network-instances>

```

Command Syntax

```

no bridge <1-32> (rapid-spanning-tree|multiple-spanning-tree|rapid-pervlan-
spanning-tree) enable

```

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.

Attribute Name: instance-name

Attribute Type: string

Attribute Name: bridge-type

Attribute Type: enum (spanning-tree|rapid-spanning-tree|multiple-spanning-tree|rapid-pervlan-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>

```

```
</network-instances>
```

Command Syntax

```
no bridge <1-32> (rapid-spanning-tree|multiple-spanning-tree|rapid-pervlan-  
spanning-tree) enable (bridge-blocked|bridge-forward)
```

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.

Attribute Name: instance-name

Attribute Type: string

Attribute Name: bridge-type

Attribute Type: enum (spanning-tree|rapid-spanning-tree|multiple-spanning-tree|rapid-pervlan-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>  
  <stp>  
  <global>  
  <bridge-admin>  
    <bridge-type>spanning-tree</bridge-type>  
    </disable-spanning-tree>  
  </bridge-admin>  
</global>  
</stp>  
</network-instance>  
</network-instances>
```

Command Syntax

```
no bridge <1-32> spanning-tree enable
```

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.

Attribute Name: instance-name

Attribute Type: string

Attribute Name: bridge-type

Attribute Type: enum (spanning-tree|rapid-spanning-tree|multiple-spanning-tree|rapid-pervlan-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-admin>
    <bridge-type>spanning-tree</bridge-type>
    </disable-spanning-tree>
    <config>
      <bridge-forwarding>bridge-blocked</bridge-forwarding>
    </config>
  </bridge-admin>
</global>
</stp>
</network-instance>
</network-instances>
```

Command Syntax

```
no bridge <1-32> spanning-tree enable (bridge-blocked|bridge-forward)
```

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.

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>
  <stp>
  <global>
  <bridge-shutdown>
    </enable-shutdown>
  </bridge-shutdown>
  </global>
  </stp>
  </network-instance>
</network-instances>
```

Command Syntax

```
bridge shutdown <1-32>
```

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.

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-shutdown>
  </enable-shutdown>
  <config>
    <bridge-forwarding>bridge-blocked</bridge-forwarding>
  </config>
</bridge-shutdown>
</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>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>
          <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: uint16

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>
            <vlan-id>VLANID</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 VLANID
```

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>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>
                </disable-spanning-tree><!-- operation="delete"-->
              </config>
            </te-mst-instance>
          </mst-instances>
        </mstp>
      </stp>
    </bridge>
  </network-instance>
</network-instances>

```

```
</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 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.

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>instance spbm</instance-id>
  </mst-instance>
</mst-instances>
</mstp>
</stp>
</network-instance>
</network-instances>
```

Command Syntax

```
bridge <1-32> (instance spbm|instance spbv|instance <1-63>)
```

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: uint16

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>instance spbm</instance-id>
          <config>
            <instance-id>instance spbm</instance-id>
          </config>
          <vlan-id>VLANID</vlan-id> <!-- operation="delete"-->
        </mst-instance>
      </mst-instances>
    </mstp>
  </stp>
</bridge>
</network-instance>
</network-instances>
```

Command Syntax

```
bridge <1-32> (instance spbm|instance spbv) vlan VLANID
```

Configure 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>instance spbm</instance-id>
    <config>
        <instance-id>instance spbm</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 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>instance spbm</instance-id>
            <config>
              <instance-id>instance spbm</instance-id>
            </config>
            <interfaces>
              <interface> <!-- operation="delete"-->
                <name>WORD</name>
                <config>
                  <name>WORD</name>
                </config>
              </interface>
            </interfaces>
          </mst-instance>
        </mst-instances>
      </stp>
    </bridge>
  </network-instance>
</network-instances>

```

```
    </mst-instance>
  </mst-instances>
</mstp>
</stp>
</bridge>
</network-instance>
</network-instances>
```

Command Syntax

```
bridge-group <1-32> instance <1-63> (instance spbm|instance spbv)
```

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>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>instance spbm</instance-id>
            <config>
              <instance-id>instance spbm</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 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>instance spbv</instance-id>
              <config>
                <instance-id>instance spbv</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>instance spbm</instance-id>
            <config>
              <instance-id>instance spbm</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 <1-63> (instance spbm|instance spbv) 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>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>instance spbm</instance-id>
              <config>
                <instance-id>instance spbm</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> (instance spbm|instance spbv) priority <0-240>
```

Configure vlan id

Vlan ID

This command is supported when following feature are enabled rpvst feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 2-4094

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">
      <rapid-pvst>
        <vlans>
          <vlan <!-- operation="delete"-->
            <vlan-id>2</vlan-id>
            <config>
              <vlan-id>2</vlan-id>
            </config>
          </vlan>
        </vlans>
      </rapid-pvst>
    </stp>
  </bridge>
</network-instance>
</network-instances>
```

Command Syntax

```
bridge <1-32> vlan <2-4094>
```

Configure bridge priority

Use this attribute to set the bridge instance priority.

This command is supported when following feature are enabled rpvst feature

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>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">
        <rapid-pvst>
          <vlans>
            <vlan>
              <vlan-id>2</vlan-id>
              <config>
                <vlan-id>2</vlan-id>
              </config>
              <bridge-priority>0</bridge-priority> <!-- operation="delete"-->
            </vlan>
          </vlans>
        </rapid-pvst>
      </stp>
    </bridge>
  </network-instance>
</network-instances>

```

Command Syntax

```
bridge <1-32> vlan <2-4094> priority <0-61440>
```

Configure 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 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 path cost

Use this attribute to set the bridge path cost.

This command is supported when following feature are enabled rpvst feature

Attribute Name: path-cost

Attribute Type: uint32

Default Value: 1

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>
      <vlan-port xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
        <vlans>
          <vlan>

```

```
        <vlan-id>2</vlan-id>
        <config>
            <vlan-id>2</vlan-id>
        </config>
        <path-cost>1</path-cost> <!-- operation="delete"-->
    </vlan>
</vlans>
</vlan-port>
</interface>
</bridge-ports>
</bridge>
</network-instance>
</network-instances>
```

Command Syntax

```
bridge-group <1-32> vlan <2-4094> path-cost <1-200000000>
```

Configure port priority

Use this attribute to set the port instance priority.

This command is supported when following feature are enabled rpvst feature

Attribute Name: port-priority

Attribute Type: uint8

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>
        <vlan-port xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
          <vlans>
            <vlan>
              <vlan-id>2</vlan-id>
              <config>
```

```

        <vlan-id>2</vlan-id>
    </config>
    <port-priority>0</port-priority> <!-- operation="delete"-->
</vlan>
</vlans>
</vlan-port>
</interface>
</bridge-ports>
</bridge>
</network-instance>
</network-instances>

```

Command Syntax

```
bridge-group <1-32> vlan <2-4094> priority <0-240>
```

Configure vlan id

Vlan ID

This command is supported when following feature are enabled rpvst feature

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 2-4094

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>
        <vlan-port xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-xstp">
          <vlans>
            <vlan>
              <vlan-id>2</vlan-id>
              <config>
                <vlan-id>2</vlan-id>
              </config>
            </vlan>
          </vlans>

```

```
    </vlan-port>
  </interface>
</bridge-ports>
</bridge>
</network-instance>
</network-instances>
```

Command Syntax

```
bridge-group <1-32> vlan <2-4094>
```

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 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>
```

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>
      <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>instance spbm</instance-id>
          <config>
            <instance-id>instance spbm</instance-id>
            </enable-instance-restricted-tcn><!-- operation="delete"-->
          </config>
        </mst-instance>
      </mst-instances>
    </mstp>
  </interface>
</interfaces>
</xstp>

```

Command Syntax

```
spanning-tree instance <1-63> 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>
<mstp>
<mst-instances>
<mst-instance>
  <instance-id>instance spbm</instance-id>
  <config>
    <instance-id>instance spbm</instance-id>
  </config>
  </enable-instance-restricted-role><!-- operation="delete"-->
</mst-instance>
</mst-instances>
</mstp>
</interface>
</interfaces>
</xstp>
```

Command Syntax

```
spanning-tree instance <1-63> (instance spbm|instance spbv) restricted-role
```

Configure enable restricted role

Use this attribute to set the restricted role value for the instance to TRUE

This command is supported when following feature are enabled rpvt feature

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>
<rapid-pvst>
<vlans>
<vlan>
  <vlan-id>2</vlan-id>
  <config>
    <vlan-id>2</vlan-id>
```

```

    </config>
      </enable-restricted-role><!-- operation="delete"-->
</vlan>
</vlans>
</rapid-pvst>
</interface>
</interfaces>
</xstp>

```

Command Syntax

```
spanning-tree vlan <2-4094> restricted-role
```

Configure enable restricted tcn

Use this attribute to set the restricted TCN value for the instance to TRUE

This command is supported when following feature are enabled rpvst feature

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>
</interface>
</interfaces>
</xstp>

```

Command Syntax

```
spanning-tree vlan <2-4094> restricted-tcn
```

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.

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 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 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 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 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>

```

Command Syntax

```
customer-spanning-tree customer-edge path-cost <1-200000000>
```

Configure 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 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>
<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 svlan <2-4094> path-cost <1-200000000>
```

Configure 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 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 all)
```

debug (mstp protocol|mstp protocol detail|mstp timer|mstp timer detail|mstp packet tx|mstp packet rx|mstp cli|mstp bpdu|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 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 all)
```

no debug (mstp protocol|mstp protocol detail|mstp timer|mstp timer detail|mstp packet tx|mstp packet rx|mstp cli|mstp bpdu|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 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 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: 1-65535

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 <1-65535>
```

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: 1-65535

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>

```

Command Syntax

```
channel-group <1-65535> mode (passive|active)
```

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

use this attribute to configure min-bandwidth

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 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>
      <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>
      <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>
      <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>
      <member-aggregation>
        <config>
          </force-up><!-- operation="delete"-->
        </config>
      </member-aggregation>
    </interface>
  </interfaces>
</lacp>
```

Command Syntax

```
lacp 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 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 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>
<agent> <!-- operation="delete"-->
  <agent-type>default</agent-type>
<config>
  <agent-type>default</agent-type>
</config>
</agent>
</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>
    <agent>
      <agent-type>default</agent-type>
      <config>
        <agent-type>default</agent-type>
      </config>
      <enable-tx-rx>rxonly</enable-tx-rx> <!-- operation="delete"-->
    </agent>
  </interface>
</interfaces>
</lldp>
```

Command Syntax

```
set lldp enable (rxonly|txonly|txrx)
```

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">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <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>
</interface>
</interfaces>
</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">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
<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>
</interface>
</interfaces>
</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">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <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>
  </interface>
</interfaces>
</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">
<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>
      <message-fast-tx>1</message-fast-tx> <!-- operation="delete"-->
    </config>
  </transmit>
</agent>
</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">
<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-credit-max>1</tx-credit-max> <!-- operation="delete"-->
    </config>
  </transmit>
</agent>
</interface>
</interfaces>
</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">
  <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>
  </agent>
  <transmit>
    <config>
      <tx-fast-init>1</tx-fast-init> <!-- operation="delete"-->
    </config>
  </transmit>
</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">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
    <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>
  </interface>
</interfaces>
</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">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
</interface>
<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>
</interface>
</interfaces>
</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-addresss or ip-address

Attribute Name: port-address

Attribute Type: enum (mac-address|ip-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>
<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>
</interface>
</interfaces>
</lldp>
```

Command Syntax

```
set lldp management-address-tlv (mac-address|ip-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 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)

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

Command Syntax

```
set lldp chassis-id-tlv (if-alias|ip-address|mac-address|if-name|locally-assigned)
```

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 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)

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

Command Syntax

```
set lldp port-id-tlv (if-alias|mac-address|ip-address|if-name|agt-circuit-
id|locally-assigned)
```

Configure 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>
<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>
</interface>
</interfaces>
</lldp>
```

Command Syntax

```
lldp tlv basic-mgmt port-description (select|unselect)
```

Configure 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>
<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>
</interface>
</interfaces>
</lldp>

```

Command Syntax

```
lldp tlv basic-mgmt system-description (select|unselect)
```

Configure 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>
  <agent>
    <agent-type>default</agent-type>
  </agent>
  <tlv-control>
    <basic-management>
      <config>
        <system-name>not-set</system-name> <!-- operation="delete"-->
      </config>
    </basic-management>
  </tlv-control>
</lldp>

```

Command Syntax

```
lldp tlv basic-mgmt system-name (select|unselect)
```

Configure 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>
  <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>
</lldp>
```

Command Syntax

```
lldp tlv basic-mgmt system-capabilities (select|unselect)
```

Configure 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>
<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>
</interface>
</interfaces>
</lldp>

```

Command Syntax

```
lldp tlv basic-mgmt management-address (select|unselect)
```

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: 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>
  <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>
</interface>
</interfaces>
</lldp>
```

Command Syntax

```
lldp tlv ieee-8021-org-specific port-vlanid (select|unselect)
```

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: 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>
  </agent>
  <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>
</lldp>
```

Command Syntax

```
lldp tlv ieee-8021-org-specific port-ptcl-vlanid (select|unselect)
```

Configure 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>
    <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>
  </interface>
</interfaces>
</lldp>
```

Command Syntax

```
lldp tlv ieee-8021-org-specific vlan-name (select|unselect)
```

Configure 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>
<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>
</interface>
</interfaces>
</lldp>
```

Command Syntax

```
lldp tlv ieee-8021-org-specific ptcl-identity (select|unselect)
```

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: 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>
      <ieee-8021-org-specific>
        <config>
          <vid-digest>not-set</vid-digest> <!-- operation="delete"-->
        </config>
      </ieee-8021-org-specific>
    </tlv-control>
  </agent>
</lldp>
```

```

</ieee-8021-org-specific>
</tlv-control>
</agent>
</interface>
</interfaces>
</lldp>

```

Command Syntax

```
lldp tlv ieee-8021-org-specific vid-digest (select|unselect)
```

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: 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>
<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>
</interface>
</interfaces>
</lldp>

```

Command Syntax

```
lldp tlv ieee-8021-org-specific mgmt-vid (select|unselect)
```

Configure 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>
<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>
</interface>
</interfaces>
</lldp>
```

Command Syntax

```
lldp tlv ieee-8021-org-specific link-agg (select|unselect)
```

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: 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>
<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>
</interface>
</interfaces>
</lldp>

```

Command Syntax

```
lldp tlv ieee-8023-org-specific mac-phy (select|unselect)
```

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: 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>
  <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>
</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>
    <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>
  </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>
<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>
</interface>
</interfaces>
</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>
<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>
</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-lldpv2">
<interfaces>
<interface>
  <name>WORD</name>
  <config>
    <name>WORD</name>
  </config>
</interface>
</interfaces>
<agent>
  <agent-type>default</agent-type>
</agent>
<tlv-control>
  <tlv-media-capabilities>
    <config>
      <media-capabilities>not-set</media-capabilities> <!-- operation="delete"-->
    </config>
  </tlv-media-capabilities>
</tlv-control>
</lldp>
```

Command Syntax

```
lldp tlv med media-capabilities (select|unselect)
```

debug lldp (event|rx|tx|message|ha)

Attribute Name: terminal-debug-options

Attribute Type: bits (event|rx|tx|message|ha)

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)
```

no debug lldp (event|rx|tx|message|ha)

Attribute Name: terminal-debug-options

Attribute Type: bits (event|rx|tx|message|ha)

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)
```

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|))
```

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 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 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|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 rcv|packet detail|packet send
  detail|packet rcv detail|nsm|monitor|hal events)
```

Configure ipv4 routing options

Use this attribute to debug ip route.

Attribute Name: ipv4-routing-options

Attribute Type: bits (routing|routing add-route|routing delete-route|routing mod-route)

Netconf edit-config payload

```
<routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
<debug>
<config>
  <ipv4-routing-options>routing</ipv4-routing-options> <!-- operation="delete"-->
</config>
</debug>
</routing>
```

Command Syntax

```
debug ip (routing|routing add-route|routing delete-route|routing mod-route)
```

Configure ipv6 routing options

Use this attribute to debug ipv6 route.

Attribute Name: ipv6-routing-options

Attribute Type: bits (routing|routing add-route|routing delete-route|routing mod-route)

Netconf edit-config payload

```
<routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
<debug>
<config>
  <ipv6-routing-options>routing</ipv6-routing-options> <!-- operation="delete"-->
</config>
</debug>
</routing>
```

Command Syntax

```
debug ipv6 (routing|routing add-route|routing delete-route|routing mod-route)
```

Configure interface name

Use this attribute to create an IPv4 static route where nexthop is interface name.

Attribute Name: interface-name

Attribute Type: string

Netconf edit-config payload

```
<routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
  <static-routes>
    <ipv4>
      <route-vrf> <!-- operation="delete"-->
        <interface-name>IFNAME</interface-name>
        <config>
          <interface-name>IFNAME</interface-name>
          <gateway-address>A.B.C.D</gateway-address>
          <destination-prefix>A.B.C.D/M|A.B.C.D A.B.C.D</destination-prefix>
        </config>
        <gateway-address>A.B.C.D</gateway-address>
        <destination-prefix>A.B.C.D/M|A.B.C.D A.B.C.D</destination-prefix>
      </route-vrf>
    </ipv4>
  </static-routes>
</routing>
```

Command Syntax

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

Configure description

Use this attribute to set description of the 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

Netconf edit-config payload

```
<routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
  <static-routes>
    <ipv4>
```

```
<route>
  <gateway-address>A.B.C.D</gateway-address>
  <config>
    <gateway-address>A.B.C.D</gateway-address>
    <destination-prefix>A.B.C.D/M|A.B.C.D A.B.C.D</destination-prefix>
    <distance>1</distance> <!-- operation="delete"-->
    <tag>0</tag> <!-- operation="delete"-->
  </config>
  <destination-prefix>A.B.C.D/M|A.B.C.D A.B.C.D</destination-prefix>
  <description>LINE</description> <!-- operation="delete"-->
</route>
</ipv4>
</static-routes>
</routing>
```

Command Syntax

```
ip route (A.B.C.D/M|A.B.C.D A.B.C.D) A.B.C.D (<1-255>|) (tag <0-4294967295>|)
(description LINE|)
```

Configure description

Use this attribute to set description of the 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

Netconf edit-config payload

```
<routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
  <static-routes>
    <ipv4>
      <interface-route>
        <interface-name>IFNAME</interface-name>
        <config>
          <interface-name>IFNAME</interface-name>
          <destination-prefix>A.B.C.D/M|A.B.C.D A.B.C.D</destination-prefix>
          <distance>1</distance> <!-- operation="delete"-->
          <tag>0</tag> <!-- operation="delete"-->
        </config>
        <destination-prefix>A.B.C.D/M|A.B.C.D A.B.C.D</destination-prefix>
```

```

    <description>LINE</description> <!-- operation="delete"-->
</interface-route>
</ipv4>
</static-routes>
</routing>

```

Command Syntax

```

ip route (A.B.C.D/M|A.B.C.D A.B.C.D) IFNAME (<1-255>|) (tag <0-4294967295>|)
(description LINE|)

```

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

```

<routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
<static-routes>
<ipv4>
<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>
</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 gateway address

Use this attribute to create an IPv6 static route for a subnet.

This command is supported when following feature are enabled ipv6 feature

Attribute Name: gateway-address

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
<routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
  <static-routes>
    <ipv6>
      <route> <!-- operation="delete"-->
        <gateway-address>X:X::X:X</gateway-address>
        <config>
          <gateway-address>X:X::X:X</gateway-address>
          <destination-prefix>X:X::X:X/M</destination-prefix>
        </config>
        <destination-prefix>X:X::X:X/M</destination-prefix>
      </route>
    </ipv6>
  </static-routes>
</routing>
```

Command Syntax

```
ipv6 route X:X::X:X/M X:X::X:X
```

Configure distance

Use this attribute to set distance value for the ipv6 route.

This command is supported when following feature are enabled ipv6 feature

Attribute Name: distance

Attribute Type: uint32

Default Value: 1

Attribute Range: 1-255

Netconf edit-config payload

```
<routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
  <static-routes>
    <ipv6>
      <route>
        <gateway-address>X:X::X:X</gateway-address>
        <config>
          <gateway-address>X:X::X:X</gateway-address>
          <destination-prefix>X:X::X:X/M</destination-prefix>
        </config>
        <destination-prefix>X:X::X:X/M</destination-prefix>
        <distance>1</distance> <!-- operation="delete"-->
      </route>
    </ipv6>
  </static-routes>
</routing>
```

Command Syntax

```
ipv6 route X:X::X:X/M X:X::X:X (<1-255>|)
```

Configure interface name

Use this attribute to create an IPv6 static route where nexthop is interface name.

This command is supported when following feature are enabled ipv6 feature

Attribute Name: interface-name

Attribute Type: string

Netconf edit-config payload

```
<routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
  <static-routes>
    <ipv6>
      <interface-route> <!-- operation="delete"-->
        <interface-name>IFNAME</interface-name>
        <config>
          <interface-name>IFNAME</interface-name>
          <destination-prefix>X:X::X:X/M</destination-prefix>
        </config>
        <destination-prefix>X:X::X:X/M</destination-prefix>
      </interface-route>
    </ipv6>
  </static-routes>
</routing>
```

Command Syntax

```
ipv6 route X:X::X:X/M IFNAME
```

Configure distance

Use this attribute to set distance value for the ipv6 route.

This command is supported when following feature are enabled ipv6 feature

Attribute Name: distance

Attribute Type: uint32

Default Value: 1

Attribute Range: 1-255

Netconf edit-config payload

```
<routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
  <static-routes>
    <ipv6>
      <interface-route>
        <interface-name>IFNAME</interface-name>
        <config>
          <interface-name>IFNAME</interface-name>
          <destination-prefix>X:X::X:X/M</destination-prefix>
        </config>
        <destination-prefix>X:X::X:X/M</destination-prefix>
      </interface-route>
    </ipv6>
  </static-routes>
</routing>
```

```
<distance>1</distance> <!-- operation="delete"-->
</interface-route>
</ipv6>
</static-routes>
</routing>
```

Command Syntax

```
ipv6 route X:X::X:X/M IFNAME (<1-255>|)
```

Configure interface name

Use this attribute to create an IPv6 static route where nexthop is interface name and ipv6 prefix.

This command is supported when following feature are enabled ipv6 feature

Attribute Name: interface-name

Attribute Type: string

Netconf edit-config payload

```
<routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
<static-routes>
<ipv6>
<gateway-interface-route> <!-- operation="delete"-->
  <interface-name>IFNAME</interface-name>
  <config>
    <interface-name>IFNAME</interface-name>
    <gateway-address>X:X::X:X</gateway-address>
    <destination-prefix>X:X::X:X/M</destination-prefix>
  </config>
  <gateway-address>X:X::X:X</gateway-address>
  <destination-prefix>X:X::X:X/M</destination-prefix>
</gateway-interface-route>
</ipv6>
</static-routes>
</routing>
```

Command Syntax

```
ipv6 route X:X::X:X/M X:X::X:X IFNAME
```

Configure distance

Use this attribute to set distance value for the ipv6 route with nexthop as interface name and ipv6 prefix.

This command is supported when following feature are enabled ipv6 feature

Attribute Name: distance

Attribute Type: uint32

Default Value: 1

Attribute Range: 1-255

Netconf edit-config payload

```

<routing xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
<static-routes>
<ipv6>
<gateway-interface-route>
  <interface-name>IFNAME</interface-name>
  <config>
    <interface-name>IFNAME</interface-name>
    <gateway-address>X:X::X:X</gateway-address>
    <destination-prefix>X:X::X:X/M</destination-prefix>
  </config>
  <gateway-address>X:X::X:X</gateway-address>
  <destination-prefix>X:X::X:X/M</destination-prefix>
  <distance>1</distance> <!-- operation="delete"-->
</gateway-interface-route>
</ipv6>
</static-routes>
</routing>

```

Command Syntax

```
ipv6 route X:X::X:X/M X:X::X:X IFNAME (<1-255>|)
```

Configure distance

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-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>
</ipv6>
</static-routes>
</routing>
```

Command Syntax

```
ipv6 mroute X:X::X:X/M ((static|rip|ospf|bgp|isis)|) X:X::X:X (<0-255>|)
```

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|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|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 rcv|packet detail|packet send
  detail|packet rcv detail|nsm|monitor|hal events|hal ipc)
```

no debug rib (all|events|packet|packet send|packet rcv|packet detail|packet send detail|packet rcv detail|nsm|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|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 rcv|packet detail|packet send
  detail|packet rcv detail|nsm|monitor|hal events|hal ipc)
```

debug ip (routing|routing add-route|routing delete-route|routing mod-route)

Attribute Name: terminal-debug-options

Attribute Type: bits (routing|routing add-route|routing delete-route|routing mod-route)

Netconf RPC payload

```
<rib-terminal-debug-ipv4-routing-on xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-rib">
  <terminal-debug-options>routing</terminal-debug-options>
</rib-terminal-debug-ipv4-routing-on>
```

Command Syntax

```
debug ip (routing|routing add-route|routing delete-route|routing mod-route)
```

no debug ip (routing|routing add-route|routing delete-route|routing mod-route)

Attribute Name: terminal-debug-options

Attribute Type: bits (routing|routing add-route|routing delete-route|routing mod-route)

Netconf RPC payload

```
<rib-terminal-debug-ipv4-routing-off xmlns="http://www.ipinfusion.com/yang/
ocnos/ipi-rib">
  <terminal-debug-options>routing</terminal-debug-options>
</rib-terminal-debug-ipv4-routing-off>
```

Command Syntax

```
no debug ip (routing|routing add-route|routing delete-route|routing mod-route)
```

debug ipv6 (routing|routing add-route|routing delete-route|routing mod-route)

Attribute Name: terminal-debug-options

Attribute Type: bits (routing|routing add-route|routing delete-route|routing mod-route)

Netconf RPC payload

```
<rib-terminal-debug-ipv6-routing-on xmlns="http://www.ipinfusion.com/yang/ocnos/
ipi-rib">
  <terminal-debug-options>routing</terminal-debug-options>
</rib-terminal-debug-ipv6-routing-on>
```

Command Syntax

```
debug ipv6 (routing|routing add-route|routing delete-route|routing mod-route)
```

no debug ipv6 (routing|routing add-route|routing delete-route|routing mod-route)

Attribute Name: terminal-debug-options

Attribute Type: bits (routing|routing add-route|routing delete-route|routing mod-route)

Netconf RPC payload

```
<rib-terminal-debug-ipv6-routing-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib">
  <terminal-debug-options>routing</terminal-debug-options>
</rib-terminal-debug-ipv6-routing-off>
```

Command Syntax

```
no debug ipv6 (routing|routing add-route|routing delete-route|routing mod-route)
```

IPI-RIB-VRF

Configure enable global table lookup

Use this attribute to create an IPv4 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>
    <vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrf">
      <static-routes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib-vrf">
        <ipv4>
          <gateway-interface-route-global> <!-- operation="delete"-->
            </enable-global-table-lookup>
            <config>
              </enable-global-table-lookup>
              <destination-prefix>A.B.C.D/M|A.B.C.D A.B.C.D</destination-prefix>
            </config>
            <interface-name>IFNAME</interface-name>
            <destination-prefix>A.B.C.D/M|A.B.C.D A.B.C.D</destination-prefix>
          </gateway-interface-route-global>
        </ipv4>
      </static-routes>
    </vrf>
  </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 interface name

Use this attribute to create an IPv4 static route where nexthop is interface name.

Attribute Name: interface-name

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>
    <vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrf">
      <static-routes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib-vrf">
        <ipv4>
          <route>
            <gateway-address>A.B.C.D</gateway-address>
            <config>
              <gateway-address>A.B.C.D</gateway-address>
              <destination-prefix>A.B.C.D/M|A.B.C.D A.B.C.D</destination-prefix>
            </config>
            <destination-prefix>A.B.C.D/M|A.B.C.D A.B.C.D</destination-prefix>
            <gateway-interface-route> <!-- operation="delete"-->
              <interface-name>IFNAME</interface-name>
              <config>
                <interface-name>IFNAME</interface-name>
              </config>
            </gateway-interface-route>
          </route>
        </ipv4>
      </static-routes>
    </vrf>
  </network-instance>
</network-instances>
```

Command Syntax

```
ip route vrf NAME A.B.C.D/M A.B.C.D IFNAME
```

Configure description

Use this attribute to set description of the 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

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>
        <route>
          <gateway-address>A.B.C.D</gateway-address>
          <config>
            <gateway-address>A.B.C.D</gateway-address>
            <destination-prefix>A.B.C.D/M|A.B.C.D A.B.C.D</destination-prefix>
          </config>
            <destination-prefix>A.B.C.D/M|A.B.C.D A.B.C.D</destination-prefix>
          <gateway-interface-route>
            <interface-name>IFNAME</interface-name>
            <config>
              <interface-name>IFNAME</interface-name>
              <distance>1</distance> <!-- operation="delete"-->
              <tag>0</tag> <!-- operation="delete"-->
            </config>
            <description>LINE</description> <!-- operation="delete"-->
          </gateway-interface-route>
        </route>
      </ipv4>
    </static-routes>
  </vrf>
</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>|) (description LINE|)
```

Configure enable global table lookup

Use this attribute to create an IPv4 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>
    <vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrf">
      <static-routes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib-vrf">
        <ipv4>
          <route>
            <gateway-address>A.B.C.D</gateway-address>
            <config>
              <gateway-address>A.B.C.D</gateway-address>
              <destination-prefix>A.B.C.D/M|A.B.C.D A.B.C.D</destination-prefix>
            </config>
            <destination-prefix>A.B.C.D/M|A.B.C.D A.B.C.D</destination-prefix>
            <interface-route-global> <!-- operation="delete"-->
              </enable-global-table-lookup>
            <config>
              </enable-global-table-lookup>
              <interface-name>IFNAME</interface-name>
            </config>
            <interface-name>IFNAME</interface-name>
          </interface-route-global>
        </route>
      </ipv4>
    </static-routes>
  </vrf>
</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
```

Configure description

Use this attribute to set description of the 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

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>
          <interface-route>
            <interface-name>IFNAME</interface-name>
            <config>
              <interface-name>IFNAME</interface-name>
              <destination-prefix>A.B.C.D/M|A.B.C.D A.B.C.D</destination-prefix>
              <distance>1</distance> <!-- operation="delete"-->
              <tag>0</tag> <!-- operation="delete"-->
            </config>
            <destination-prefix>A.B.C.D/M|A.B.C.D A.B.C.D</destination-prefix>
            <description>LINE</description> <!-- operation="delete"-->
          </interface-route>
        </ipv4>
      </static-routes>
    </vrf>
  </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>|) (description LINE|)
```

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-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>
        </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 type

Network Instance Type

Attribute Name: instance-type

Attribute Type: enum (vrf|mac-vrf|l2ni|vpls|vpws|evpn|cross-connect)

Attribute Name: destination-prefix

Attribute Type: string

Attribute Name: interface-name

Attribute Type: string

Attribute Name: enable-ipv6-global-table-lookup

Attribute Type: empty

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>
  <static-routes>
  <ipv6>
  <interface-route-global>
    <destination-prefix>X:X::X:X/M</destination-prefix>
    <interface-name>IFNAME</interface-name>
    </enable-ipv6-global-table-lookup>
    </interface-route-global>
  </ipv6>
</static-routes>
</network-instance>
</network-instances>
```

Command Syntax

```
ipv6 route vrf NAME X:X::X:X/M IFNAME global
```

Configure instance type

Network Instance Type

Attribute Name: instance-type

Attribute Type: enum (vrf|mac-vrf|l2ni|vpls|vpws|evpn|cross-connect)

Attribute Name: destination-prefix

Attribute Type: string

Attribute Name: gateway-address

Attribute Type: inet:ipv6-address

Attribute Name: interface-name

Attribute Type: string

Attribute Name: enable-ipv6-global-table-lookup

Attribute Type: empty

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>
</static-routes>
<ipv6>
  <gateway-interface-route-global>
    <destination-prefix>X:X::X:X/M</destination-prefix>
    <gateway-address>X:X::X:X</gateway-address>
    <interface-name>IFNAME</interface-name>
    </enable-ipv6-global-table-lookup>
  </gateway-interface-route-global>
</ipv6>
</static-routes>
</network-instance>
</network-instances>

```

Command Syntax

```
ipv6 route vrf NAME X:X::X:X/M X:X::X:X IFNAME global
```

Configure interface name

Use this attribute to create an IPv6 static route where nexthop is interface name.

Attribute Name: interface-name

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>
  <vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrf">
    <static-routes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib-vrf">
      <ipv6>
        <route>
          <gateway-address>X:X::X:X</gateway-address>
          <config>
            <gateway-address>X:X::X:X</gateway-address>
            <destination-prefix>X:X::X:X/M</destination-prefix>
          </config>
          <destination-prefix>X:X::X:X/M</destination-prefix>

```

```

        <out-interface> <!-- operation="delete"-->
            <interface-name>IFNAME</interface-name>
            <config>
                <interface-name>IFNAME</interface-name>
            </config>
        </out-interface>
    </route>
</ipv6>
</static-routes>
</vrf>
</network-instance>
</network-instances>

```

Command Syntax

```
ipv6 route vrf NAME X:X::X:X/M X:X::X:X IFNAME
```

Configure interface name

Use this attribute to create an IPv6 static route where nextthop is interface name.

This command is supported when following feature are enabled ipv6 feature

Attribute Name: interface-name

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>
  <vrf xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-vrf">
    <static-routes xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-rib-vrf">
      <ipv6>
        <interface-route> <!-- operation="delete"-->
          <interface-name>IFNAME</interface-name>
          <config>
            <interface-name>IFNAME</interface-name>
            <destination-prefix>X:X::X:X/M</destination-prefix>
          </config>
          <destination-prefix>X:X::X:X/M</destination-prefix>
        </interface-route>
      </ipv6>
    </static-routes>
  </vrf>
</network-instance>
</network-instances>

```


Command Syntax

```
ipv6 route vrf NAME X:X::X:X/M IFNAME
```

Configure distance

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-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>
        </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>|)
```

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-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 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>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-entries>
    <prefix-entry>
      <sequence-id>1</sequence-id>
      <config>
        <sequence-id>1</sequence-id>
      </config>
      <ipv4>
        <entry>
          <prefix-addr>any</prefix-addr>
        </entry>
      </ipv4>
    </prefix-entry>
  </prefix-entries>
</prefixes>
```

```
    <config>
      <prefix-addr>any</prefix-addr>
      <action>deny</action>
    </config>
    <action>deny</action>
  </entry>
</ipv4>
</prefix-entry>
</prefix-entries>
</prefix>
</prefixes>
```

Command Syntax

```
(seq <1-4294967295>|) (deny|permit) any
```

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: 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-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>
```

```
</prefix>
</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-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>
</prefix>
```

```
</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-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>
</prefix>
</prefixes>
```


Command Syntax

```
(seq <1-4294967295>|) (deny|permit) le <0-32> ge <0-32>
```

Configure minimum prefix length match

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 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>
  <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>
</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-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>
    <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>
</prefixes>

```

```
<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 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 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-entries>
  <prefix-entry>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
    </config>
  </prefix-entry>
  <entry>
    <ipv6-prefix-addr>any</ipv6-prefix-addr>
    <config>
      <ipv6-prefix-addr>any</ipv6-prefix-addr>
      <action>deny</action>
    </config>
  </entry>
</prefixes>

```

```

        <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>
</prefix>
</prefixes>

```

Command Syntax

```
(seq <1-4294967295>|) (deny|permit) ge <0-128> le <0-128>
```

Configure 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-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>
</prefix>
</prefixes>

```

Command Syntax

```
(seq <1-4294967295>|) (deny|permit) le <0-128> ge <0-128>
```

Configure 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-entries>
<prefix-entry>
  <sequence-id>1</sequence-id>
  <config>
    <sequence-id>1</sequence-id>
  </config>
</prefix-entry>
  <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>
</prefix>
</prefixes>
```

Command Syntax

```
(seq <1-4294967295>|) (deny|permit) ge <0-128>
```

Configure 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-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>
</prefix>
</prefixes>
```

Command Syntax

```
(seq <1-4294967295>|) (deny|permit) le <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|ipv6) prefix-list

Attribute Name: type

Attribute Type: enum (ip|ipv6)

Netconf RPC payload

```
<clear-prefix-list-all xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-prefix-list">
  <type>ip</type>
</clear-prefix-list-all>
```

Command Syntax

```
clear (ip|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-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: 18-162

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>
```

```

<key-list>
  <key-id>0</key-id>
  <config>
    <key-id>0</key-id>
  </config>
  <encrypted>WORD</encrypted> <!-- operation="delete"-->
</key-list>
</keys>
</key-chain>
</key-chains>

```

Command Syntax

```
key-string encrypted WORD
```

Configure start date time for accept

Configure the start date-time of the key for accept-lifetime

Attribute Name: start-date-time-for-accept

Attribute Type: string

Attribute Name: end-date-time-for-accept

Attribute Type: string

Attribute Name: infinite-for-accept

Attribute Type: empty

Attribute Name: duration-for-accept

Attribute Type: uint32

Attribute Range: 1-2147483646

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>
<keys>
  <key-list>
    <key-id>0</key-id>
    <config>
      <key-id>0</key-id>
    </config>
    <accept-lifetime>
      <config>
        <end-date-time-for-accept>KEYCHAIN_DATE_TIME_T</end-date-time-for-accept>
        </infinite-for-accept>
        <duration-for-accept>1</duration-for-accept>
        <start-date-time-for-accept>KEYCHAIN_DATE_TIME_T</start-date-time-for-accept>
      </config>
    </accept-lifetime>
  </key-list>
</keys>
accept>

```

```
    </config>
</accept-lifetime>
</key-list>
</keys>
</key-chain>
</key-chains>
```

Command Syntax

```
accept-lifetime HH:MM:SS MONTH <01-31> <1993-2035> HH:MM:SS MONTH <01-31> <1993-
2035> infinite duration <1-2147483646>
```

Configure start date time for send

Configure the start date-time of the key for send-lifetime

Attribute Name: start-date-time-for-send

Attribute Type: string

Attribute Name: end-date-time-for-send

Attribute Type: string

Attribute Name: infinite-for-send

Attribute Type: empty

Attribute Name: duration-for-send

Attribute Type: uint32

Attribute Range: 1-2147483646

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>
<key-list>
  <key-id>0</key-id>
  <config>
    <key-id>0</key-id>
  </config>
  <send-lifetime>
  <config>
    <end-date-time-for-send>KEYCHAIN_DATE_TIME_T</end-date-time-for-send>
    </infinite-for-send>
    <duration-for-send>1</duration-for-send>
    <start-date-time-for-send>KEYCHAIN_DATE_TIME_T</start-date-time-for-send>
  </config>
</send-lifetime>
</key-list>
```

```

</keys>
</key-chain>
</key-chains>

```

Command Syntax

```

send-lifetime HH:MM:SS MONTH <01-31> <1993-2035> HH:MM:SS MONTH <01-31> <1993-2035>
infinite duration <1-2147483646>

```

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">
<module-logging>
  <module-name>auth</module-name>
  <config>
    <module-name>auth</module-name>
  </config>
  <severity-level>2</severity-level>
</module-logging>
</logging>

```

Command Syntax

```

logging level
(auth|bgp|cmm|hostp|hsl|lag|l2mrib|mstp|mrib|nsm|onm|oam|ospf|ospf6|ptp|rip|pim|
rib|vrrp|sflow|pserv|cml|ndd|ripng|vlog|all) ((0|1|2|3|4|5|6|7)|)

```

Configure severity level

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)

Default Value: 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 (logging (disable)|) ((0|1|2|3|4|5|6|7)|)
```

Configure 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)

Default Value: 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>
  <severity-level>6</severity-level>
  <max-file-size>4096</max-file-size>
</config>
</logfile>
</logging>
```

Command Syntax

```
logging logfile LOGFILENAME (0|1|2|3|4|5|6|7) (size <4096-419430400>|)
```

Configure 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 enable syslog

Use this attribute to begin logging of information to the system log and set the level to debug.

This command is supported when following feature are enabled syslog feature

Attribute Name: enable-syslog

Attribute Type: empty

Netconf edit-config payload

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

```
<config>
  </enable-syslog><!-- operation="delete"-->
</config>
</syslog>
</logging>
```

Command Syntax

```
log syslog
```

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|)
```

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
```

IPI-LOGGING-REMOTE

Configure enable rsyslog

Enable/disable the rsyslog feature

Attribute Name: enable-rsyslog

Attribute Type: boolean

Netconf edit-config payload

```
<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
  <rsyslog>
    <vrf>management</vrf>
    <config>
      <vrf>management</vrf>
    </config>
    <enable-rsyslog>true</enable-rsyslog> <!-- operation="delete"-->
  </rsyslog>
</logging>
```

Command Syntax

```
feature rsyslog (vrf management|)
```

Configure enable rsyslog

Enable/disable the rsyslog feature

Attribute Name: enable-rsyslog

Attribute Type: boolean

Netconf edit-config payload

```
<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
  <rsyslog>
    <vrf>management</vrf>
    <config>
      <vrf>management</vrf>
    </config>
    <enable-rsyslog>true</enable-rsyslog> <!-- operation="delete"-->
  </rsyslog>
</logging>
```

Command Syntax

```
no feature rsyslog (vrf 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

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">
  <rsyslog>
    <vrf>management</vrf>
    <config>
      <vrf>management</vrf>
    </config>
    <remote-servers>
      <remote-server>
        <address>A.B.C.D</address>
        <config>
          <address>1</address>
          </config>
          <severity>7</severity>
        </remote-server>
      </remote-servers>
    </rsyslog>
  </logging>
```

Command Syntax

```
logging remote server (A.B.C.D|X:X::X:X|HOSTNAME) ((0|1|2|3|4|5|6|7)|) (vrf
management|)
```

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 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)
```

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: empty

Netconf edit-config payload

```
<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
  <cli-logging>
    <config>
      </enable-logging><!-- operation="delete"-->
    </config>
  </cli-logging>
</logging>
```

Command Syntax

```
logging 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

```
<logging xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-logging">
  <cli-logging>
  <max-session-limit>
  <config>
    <max-session-limit>1</max-session-limit> <!-- operation="delete"-->
  </config>
</max-session-limit>
</cli-logging>
</logging>
```

Command Syntax

```
max-session <1-40>
```

IPI-LOGGING-FAULT-MANAGEMENT

Configure enable fault management

Enable Fault Management System

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
```

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|)
```

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: timeout

Attribute Type: uint8

Attribute Range: 1-60

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>1</timeout> <!-- operation="delete"-->
      </config>
    </vrf>
  </vrfs>
</radius>
```

Command Syntax

```
radius-server login timeout <1-60> (vrf management|)
```

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>
        <sequence-number>1</sequence-number>
      </config>
    </server>
  </remote-servers>
</radius>
```

Command Syntax

```
radius-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf management|) 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>
</radius>
```

Command Syntax

```
radius-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf management|) 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>
    <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>
        <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|) seq-num <1-8> key (0|7) WORD acct-port <0-65535>
```

Configure 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: 1-60

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>
      <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"-->
            <accounting-port>0</accounting-port> <!-- operation="delete"-->
          </config>
          <timeout>1</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|) seq-num <1-8>
key (0|7) WORD acct-port <0-65535> timeout <1-60>
```

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>
</radius>
```

Command Syntax

```
radius-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf management|) seq-num <1-8> key (0|7) WORD auth-port <0-65535>
```

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

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>
      <accounting-port>0</accounting-port> <!-- operation="delete"-->
    </server>
  </remote-servers>
</radius>
```

Command Syntax

```
radius-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf management|) seq-num <1-8> key (0|7) WORD auth-port <0-65535> acct-port <0-65535>
```

Configure 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: 1-60

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>
    </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>
    </server>
  </remote-servers>
</radius>
```

```
    <accounting-port>0</accounting-port> <!-- operation="delete"-->
  </config>
    <timeout>1</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|) seq-num <1-8> key (0|7) WORD auth-port <0-65535> acct-port <0-65535> timeout <1-60>
```

Configure 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: 1-60

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>
    </server>
  </remote-servers>
</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>
  <timeout>1</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|) seq-num <1-8> key (0|7) WORD auth-port <0-65535> timeout <1-60>
```

Configure 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: 1-60

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>1</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|) seq-num <1-8> key (0|7) WORD timeout <1-60>
```

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

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>
      <authentication-port>0</authentication-port> <!-- operation="delete"-->
    </server>
  </remote-servers>
</radius>
```

```
</radius>
```

Command Syntax

```
radius-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf management|) seq-num <1-8> auth-port <0-65535>
```

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: 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>
      <accounting-port>0</accounting-port> <!-- operation="delete"-->
    </server>
  </remote-servers>
</radius>
```

Command Syntax

```
radius-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf management|) seq-num <1-8> auth-port <0-65535> acct-port <0-65535>
```

Configure 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: 1-60

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>
    <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>1</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|) seq-num <1-8> auth-port <0-65535> timeout <1-60>
```

Configure 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: 1-60

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>1</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|) seq-num <1-8>
auth-port <0-65535> acct-port <0-65535> timeout <1-60>
```

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

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>
</radius>
```

Command Syntax

```
radius-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf management|) seq-num <1-8> acct-port <0-65535>
```

Configure 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: 1-60

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>1</timeout> <!-- operation="delete"-->
    </server>
  </remote-servers>
</radius>
```

Command Syntax

```
radius-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf management|) seq-num <1-8>
acct-port <0-65535> timeout <1-60>
```

Configure 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: 1-60

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>1</timeout> <!-- operation="delete"-->
    </server>
  </remote-servers>
</radius>
```

Command Syntax

```
radius-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf management|) seq-num <1-8> timeout <1-60>
```

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>
```

Command Syntax

```
debug radius
```

clear radius-server counters (vrf management|)

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|)
```

clear radius-server host (A.B.C.D|X:X::X:X|HOSTNAME) counters (vrf (management|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|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 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: 2-15

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: 5-32

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 username

Use this attribute to set the login name of the user

Attribute Name: username

Attribute Type: string

Attribute Range: 2-15

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>
```

Command Syntax

```
username USERNAME
```

Configure password

Use this attribute to add a user or to change a user password.

Attribute Name: password

Attribute Type: string

Attribute Range: 5-32

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 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 password

Use this attribute to add a user or to change a user password.

Attribute Name: password

Attribute Type: string

Attribute Range: 5-32

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 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
```

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 enable

Use this attribute to enable the SSH server.

Attribute Name: enable

Attribute Type: boolean

Netconf edit-config payload

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

Command Syntax

```
feature ssh (vrf management|)
```

Configure enable

Use this attribute to enable the SSH server.

Attribute Name: enable

Attribute Type: boolean

Netconf edit-config payload

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

Command Syntax

```
no feature ssh (vrf management|)
```

Configure vrf name

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>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
        <port>1024</port> <!-- operation="delete"-->
      </config>
    </vrf>
  </vrfs>
</ssh-server>
```

Command Syntax

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

Configure vrf name

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>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
        <max-login-attempts>1</max-login-attempts> <!-- operation="delete"-->
      </config>
    </vrf>
  </vrfs>
</ssh-server>
```

Command Syntax

```
ssh login-attempts <1-3> (vrf management|)
```

Configure vrf name

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>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
        <session-limit>1</session-limit> <!-- operation="delete"-->
      </config>
    </vrf>
  </vrfs>
</ssh-server>
```

Command Syntax

```
ssh server session-limit <1-40> (vrf management|)
```

Configure triple des cbc

Use this attribute to set the 3DES-CBC Cipher

This command is supported when following feature are enabled ssh server feature

Attribute Name: triple-des-cbc

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

Netconf edit-config payload

```
<ssh-server xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ssh">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</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"-->
    </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 } (vrf management|)
```

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>
```

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 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>management</vrf-name>
  <force>true</force/>
</ssh-generate-server-dsa-key>
```

Command Syntax

```
ssh keygen host dsa (vrf management|) (force|)
```

ssh keygen host rsa (length <1024-4096>|) (vrf 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>1024</length>
```

```
<vrf-name>management</vrf-name>
<force>>true</force/>
</ssh-generate-server-rsa-key>
```

Command Syntax

```
ssh keygen host rsa (length <1024-4096>|) (vrf management|) (force|)
```

ssh keygen host ecdsa (length (256|384|521)|) (vrf 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">
  <ssh-generate-server-ecdsa-key xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
  <length>521</length>
  <vrf-name>management</vrf-name>
  <force>>true</force/>
  </ssh-generate-server-ecdsa-key>
```

Command Syntax

```
ssh keygen host ecdsa (length (256|384|521)|) (vrf management|) (force|)
```

ssh keygen host ed25519 (vrf 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>management</vrf-name>
  <force>>true</force/>
  </ssh-generate-server-ed25519-key>
```

Command Syntax

```
ssh keygen host ed25519 (vrf management|) (force|)
```

clear ssh host-key ((dsa|rsa|ecdsa|ed25519)|) (vrf 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>management</vrf-name>
</ssh-clear-server-keys>
```

Command Syntax

```
clear ssh host-key ((dsa|rsa|ecdsa|ed25519)|) (vrf 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>1024</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 enable

Use this attribute to enable the Telnet server.

Attribute Name: enable

Attribute Type: boolean

Netconf edit-config payload

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

Command Syntax

```
feature telnet (vrf management|)
```

Configure enable

Use this attribute to enable the Telnet server.

Attribute Name: enable

Attribute Type: boolean

Netconf edit-config payload

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

Command Syntax

```
no feature telnet (vrf management|)
```

Configure vrf name

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>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
        <port>1024</port> <!-- operation="delete"-->
      </config>
    </vrf>
  </vrfs>
</telnet-server>
```

Command Syntax

```
telnet server port <1024-65535> (vrf management|)
```

Configure vrf name

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>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
        <session-limit>1</session-limit> <!-- operation="delete"-->
      </config>
    </vrf>
  </vrfs>
</telnet-server>
```

Command Syntax

```
telnet server session-limit <1-40> (vrf 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 source interface

Use this attribute to specify the source interface for NTP packets

Attribute Name: source-interface

Attribute Type: string

Netconf edit-config payload

```
<ntp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
  <global>
    <config>
      <source-interface>IFNAME</source-interface> <!-- operation="delete"-->
    </config>
  </global>
</ntp>
```

Command Syntax

```
ntp source-interface IFNAME
```

Configure feature enable

Use this attribute to enable or disable NTP feature.

Attribute Name: feature-enable

Attribute Type: boolean

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>
      <feature-enable>true</feature-enable> <!-- operation="delete"-->
    </vrf>
  </vrfs>
</ntp>
```

Command Syntax

```
feature ntp (vrf management|)
```

Configure feature enable

Use this attribute to enable or disable NTP feature.

Attribute Name: feature-enable

Attribute Type: boolean

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>
      <feature-enable>true</feature-enable> <!-- operation="delete"-->
    </vrf>
  </vrfs>
</ntp>
```

Command Syntax

```
no feature ntp (vrf management|)
```

Configure enable ntp

Use this attribute to enable or disable NTP server

Attribute Name: enable-ntp

Attribute Type: boolean

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>
      <enable-ntp>true</enable-ntp> <!-- operation="delete"-->
    </vrf>
  </vrfs>
</ntp>
```

Command Syntax

```
ntp enable (vrf management|)
```

Configure enable ntp

Use this attribute to enable or disable NTP server

Attribute Name: enable-ntp

Attribute Type: boolean

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>
      <enable-ntp>true</enable-ntp> <!-- operation="delete"-->
    </vrf>
  </vrfs>
</ntp>
```

Command Syntax

```
no ntp enable (vrf management|)
```

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: 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|)
```

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|)
```

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|)
```

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|)
```

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|)
```

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>
```



```

</authentication>
</vrf>
</vrfs>
</ntp>

```

Command Syntax

```
ntp request-key <1-65534> (vrf management|)
```

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>
    </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>1</key-type>
        </config>
      </ntp-key>
    </ntp-keys>
  </authentication>
</ntp>

```

Command Syntax

```
ntp authentication-key <1-65535> md5 WORD 7 (vrf management|)
```

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>
    </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|)
```

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|)
```

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>
</ntp>
```

Command Syntax

```
ntp server (A.B.C.D|X:X::X:X|HOSTNAME) (vrf management|)
```

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>
</peers>
<peer>
  <peer-address>A.B.C.D</peer-address>
  <config>
    <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>
</vrf>
</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|)

```

Configure 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">
  <vrf>
    <vrf-name>management</vrf-name>
    <config>
      <vrf-name>management</vrf-name>
    </config>
  </peers>
  <peer>
    <peer-address>A.B.C.D</peer-address>
    <config>
      <peer-address>A.B.C.D</peer-address>
    </config>
  </peer>
</peers>
</vrf>

```

```
</vrfs>  
</ntp>
```

Command Syntax

```
ntp peer (A.B.C.D|X:X::X:X|HOSTNAME) (vrf management|)
```

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|)
```

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>

```

Command Syntax

```
ntp allow (A.B.C.D|X:X::X:X) mask (A.B.C.D|<1-128>) (vrf management|)
```

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>
<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>
    <access-options>kod</access-options> <!-- operation="delete"-->
  </config>
</access-control-entry>
</access-control-entries>
</vrf>
</vrfs>
</ntp>

```

Command Syntax

```
ntp allow {kod|nopeer|noserve|noquery|nomodify|notrap|limited} (vrf management|)
```

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)

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|)
```

Configure 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|)
```

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
```

clear ntp statistics (all-peers|io|local|memory)

Attribute Name: statistics-type

Attribute Type: enum (all-peers|io|local|memory)

Netconf RPC payload

```
<ntp-clear-statistics xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
  <statistics-type>all-peers</statistics-type>
</ntp-clear-statistics>
```

Command Syntax

```
clear ntp statistics (all-peers|io|local|memory)
```

ntp sync-retry (vrf management|)

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|)
```

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>WORD</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|) group LINE
```

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>WORD</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|) local
```

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>WORD</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|) none
```

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>WORD</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|) 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>WORD</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|) group LINE
```

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>WORD</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|) 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>WORD</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|) group LINE
```

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>WORD</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|) 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>WORD</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|)
```

Configure vrf name

VRF Name associated with this instance

Attribute Name: vrf-name

Attribute Type: string

Attribute Name: enable-fallback

Attribute Type: empty

Netconf edit-config payload

```
<aaa xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-aaa">
  <vrfs>
    <vrf>
      <vrf-name>WORD</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
        </enable-fallback><!-- operation="delete"-->
      </config>
    </vrf>
  </vrfs>
</aaa>
```

Command Syntax

```
aaa authentication login default fallback error local (vrf management|)
```

Configure group type

This is use to specify server type either tacacs+ or radius

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>WORD</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    <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-group>
    </server-groups>
  </vrf>
</vrfs>
</aaa>
```

Command Syntax

```
aaa group server (tacacs+|radius) WORD (vrf management|)
```

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>WORD</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>
          <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 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

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: 2-15

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 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>
<relay-agent>
  <vrf-name>WORD</vrf-name>
  <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>
</relay-agent>
</relay>
</dhcp>

```

Command Syntax

```
ip dhcp relay (uplink|downlink) (l3vpn|evpn)
```

Configure interface type v6

DHCPv6 relay vpn interface type

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>
<relay-agent>
  <vrf-name>WORD</vrf-name>
  <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>
</relay-agent>
</relay>
</dhcp>

```

Command Syntax

```
ipv6 dhcp relay (uplink|downlink) (l3vpn|evpn)
```

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>
    <relay-agent>
      <vrf-name>WORD</vrf-name>
      <config>
        <link-selection-source-ip>A.B.C.D</link-selection-source-ip> <!--
operation="delete"-->
      </config>
    </relay-agent>
  </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>
    <relay-agent>
      <vrf-name>WORD</vrf-name>
      <config>
        </enable-option82><!-- operation="delete"-->
      </config>
    </relay-agent>
  </relay>
</dhcp>
```

Command Syntax

```
ip dhcp relay information option
```

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>
    <relay-agent>
      <vrf-name>WORD</vrf-name>
      <ipv4-dhcp-servers>
        <ipv4-dhcp-server>
          <ip-address>A.B.C.D</ip-address>
          <config>
            <ip-address>A.B.C.D</ip-address>
          </config>
        </ipv4-dhcp-server>
      </ipv4-dhcp-servers>
    </relay-agent>
  </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>
    <relay-agent>
      <vrf-name>WORD</vrf-name>
      <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>
    </relay-agent>
  </relay>
</dhcp>
```

Command Syntax

```
ip dhcp relay address A.B.C.D global (VRF-NAME|)
```

Configure dhcpv4 server global vrf

This attribute 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>
    <relay-agent>
      <vrf-name>WORD</vrf-name>
      <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>
    </relay-agent>
  </relay>
</dhcp>
```

Command Syntax

```
ip dhcp relay address A.B.C.D global (VRF-NAME|)
```

Configure ipv6 address

IPv6 address of the DHCP server

Attribute Name: ipv6-address

Attribute Type: inet:ipv6-address

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
    <relay-agent>
      <vrf-name>WORD</vrf-name>
      <ipv6-dhcp-servers>
        <ipv6-dhcp-server>
          <ipv6-address>X:X::X:X</ipv6-address>
          <config>
            <ipv6-address>X:X::X:X</ipv6-address>
          </config>
        </ipv6-dhcp-server>
      </ipv6-dhcp-servers>
    </relay-agent>
```

```
</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

Attribute Name: dhcpv6-server-global-vrf

Attribute Type: string

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
    <relay-agent>
      <vrf-name>WORD</vrf-name>
      <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>
    </relay-agent>
  </relay>
</dhcp>
```

Command Syntax

```
ipv6 dhcp relay address X:X::X:X global (VRF-NAME|)
```

Configure dhcpv6 server global vrf

This attributes defines the VRF in which the DHCPv6 relay server is present

Attribute Name: dhcpv6-server-global-vrf

Attribute Type: string

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
    <relay-agent>
      <vrf-name>WORD</vrf-name>
      <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>
</relay-agent>
</relay>
</dhcp>
```

Command Syntax

```
ipv6 dhcp relay address X:X::X:X global (VRF-NAME|)
```

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>
    <relay-agent>
      <vrf-name>WORD</vrf-name>
      <config>
        </enable-dhcpv6-pd-route-injection><!-- operation="delete"-->
      </config>
    </relay-agent>
  </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>
    <relay-agent>
```



```

    <vrf-name>WORD</vrf-name>
    <config>
        </enable-option82><!-- operation="delete"-->
        <remote-id>WORD</remote-id> <!-- operation="delete"-->
    </config>
</relay-agent>
</relay>
</dhcp>

```

Command Syntax

```
ip dhcp relay information option remote-id WORD
```

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>
    <relay-agent>
      <vrf-name>WORD</vrf-name>
      <config>
        </enable-option82><!-- operation="delete"-->
        <remote-id>0</remote-id> <!-- operation="delete"-->
      </config>
    </relay-agent>
  </relay>
</dhcp>

```

Command Syntax

```
ip dhcp relay information option remote-id hostname
```

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>
<relay-agent>
  <vrf-name>WORD</vrf-name>
  <config>
    </enable-option82><!-- operation="delete"-->
    <remote-id>WORD</remote-id> <!-- operation="delete"-->
  </config>
</relay-agent>
</relay>
</dhcp>
```

Command Syntax

```
ip dhcp relay information option remote-id WORD
```

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>
<relay-agent>
  <vrf-name>WORD</vrf-name>
  <config>
    </enable-option82><!-- operation="delete"-->
    <remote-id>0</remote-id> <!-- operation="delete"-->
  </config>
</relay-agent>
</relay>
</dhcp>
```

Command Syntax

```
ip dhcp relay information option remote-id hostname
```

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>
```

```

<relay-agent>
  <vrf-name>WORD</vrf-name>
  <config>
    <subscriber-id>WORD</subscriber-id> <!-- operation="delete"-->
  </config>
</relay-agent>
</relay>
</dhcp>

```

Command Syntax

```
ipv6 dhcp relay information option subscriber-id WORD
```

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>
    <relay-agent>
      <vrf-name>WORD</vrf-name>
      <config>
        <link-selection-source-ip>A.B.C.D</link-selection-source-ip> <!--
operation="delete"-->
      </config>
    </relay-agent>
  </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: empty

Netconf edit-config payload

```

<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <relay>
    <relay-agent>
      <vrf-name>WORD</vrf-name>
      <config>
        </enable-option82><!-- operation="delete"-->
      </config>
    </relay-agent>
  </relay>
</dhcp>

```

```
</relay-agent>  
</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: empty

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">  
<relay>  
<relay-agent>  
  <vrf-name>WORD</vrf-name>  
  <config>  
    </enable-dhcpv6-pd-route-injection><!-- operation="delete"-->  
  </config>  
</relay-agent>  
</relay>  
</dhcp>
```

Command Syntax

```
ipv6 dhcp relay pd-route-injection
```

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>  
<relay-agent>  
  <vrf-name>WORD</vrf-name>  
  <config>  
    <subscriber-id>WORD</subscriber-id> <!-- operation="delete"-->  
  </config>  
</relay-agent>  
</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>
    <relay-agent>
      <vrf-name>WORD</vrf-name>
      <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>
    </relay-agent>
  </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>
    <relay-agent>
      <vrf-name>WORD</vrf-name>
      <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>
</relay-agent>
</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>
    <relay-agent>
      <vrf-name>WORD</vrf-name>
      <ipv4-dhcp-servers>
        <ipv4-dhcp-server>
          <ip-address>A.B.C.D</ip-address>
          <config>
            <ip-address>A.B.C.D</ip-address>
          </config>
        </ipv4-dhcp-server>
      </ipv4-dhcp-servers>
    </relay-agent>
  </relay>
</dhcp>
```

Command Syntax

```
ip dhcp relay address A.B.C.D
```

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>
    <relay-agent>
      <vrf-name>WORD</vrf-name>
      <ipv6-dhcp-servers>
        <ipv6-dhcp-server>
          <ipv6-address>X:X::X:X</ipv6-address>
          <config>
            <ipv6-address>X:X::X:X</ipv6-address>
          </config>
        </ipv6-dhcp-server>
      </ipv6-dhcp-servers>
    </relay-agent>
  </relay>
</dhcp>

```

Command Syntax

```
ipv6 dhcp relay address X:X::X:X
```

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 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>
    </ipv4-relay-interface><!-- operation="delete"-->
  </config>
</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>
```



```

        </ipv4-uplink-interface><!-- operation="delete"-->
    </config>
</interface>
</interfaces>
</relay>
</dhcp>

```

Command Syntax

```
ip dhcp relay uplink
```

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>
          </ipv6-relay-interface><!-- operation="delete"-->
        </config>
      </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>
          </ipv6-uplink-interface><!-- operation="delete"-->
        </config>
      </interface>
    </interfaces>
  </relay>
</dhcp>

```

```
</interface>
</interfaces>
</relay>
</dhcp>
```

Command Syntax

```
ipv6 dhcp relay uplink
```

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: empty

Netconf edit-config payload

```
<dns-relay xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-relay">
<config>
  </enable-dns-feature><!-- operation="delete"-->
</config>
</dns-relay>
```

Command Syntax

```
feature dns relay
```

Configure enable dnsv4 relay

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">
<config>
  </enable-dnsv4-relay><!-- operation="delete"-->
</config>
</dns-relay>
```

Command Syntax

```
ip dns relay
```

Configure 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">
<config>
  </enable-dnsv6-relay><!-- operation="delete"-->
</config>
</dns-relay>
```

Command Syntax

```
ipv6 dns relay
```

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 enable dnsv4 relay

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"-->
  </interfaces>
</dns-relay>
```

```
</interface>
</interfaces>
</dns-relay>
```

Command Syntax

```
ip dns relay
```

Configure 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 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>
  <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 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>
    </vrf>
  </vrfs>
  <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
```

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>management</vrf-name>
    </vrf>
  </vrfs>
  <config>
    <vrf-name>management</vrf-name>
  </config>
  <default-domain-name>DOMAIN-NAME</default-domain-name> <!-- operation="delete"-->
</dns>
```

Command Syntax

```
ip domain-name (vrf management|) DOMAIN-NAME
```

Configure lookup enabled

Enable DNS translation.

Attribute Name: lookup-enabled

Attribute Type: boolean

Netconf edit-config payload

```
<dns xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-client">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
      <lookup-enabled>true</lookup-enabled> <!-- operation="delete"-->
    </vrf>
  </vrfs>
</dns>
```

Command Syntax

```
ip domain-lookup (vrf management|)
```

Configure lookup enabled

Enable DNS translation.

Attribute Name: lookup-enabled

Attribute Type: boolean

Netconf edit-config payload

```
<dns xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dns-client">
  <vrfs>
    <vrf>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
      <lookup-enabled>true</lookup-enabled> <!-- operation="delete"-->
    </vrf>
  </vrfs>
</dns>
```

Command Syntax

```
no ip domain-lookup (vrf 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>management</vrf-name>
      <config>
        <vrf-name>management</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>
</dns>
```

Command Syntax

```
ip name-server (vrf 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>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    </vrf>
  </vrfs>
  <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>
</dns>
```

```
</config>
</search-domain>
</search-domains>
</vrf>
</vrfs>
</dns>
```

Command Syntax

```
ip domain-list (vrf 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>management</vrf-name>
      <config>
        <vrf-name>management</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>
        <ipv6-address>X:X::X:X</ipv6-address> <!-- operation="delete"-->
      </host-entry>
    </host-entries>
  </dns>
```

Command Syntax

```
ip host (vrf 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>management</vrf-name>
      <config>
        <vrf-name>management</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>
  </dns>
```

Command Syntax

```
ip host (vrf management|) HOSTNAME X:X::X:X A.B.C.D
```

Configure ipv4 address

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>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    </vrf>
  </vrfs>
  <host-entries>
    <host-entry>
      <hostname>HOSTNAME</hostname>
      <config>
        <hostname>1</hostname>
      </config>
    </host-entry>
  </host-entries>
</dns>
```

```
    </config>
      <ipv4-address>A.B.C.D</ipv4-address> <!-- operation="delete"-->
</host-entry>
</host-entries>
</vrf>
</vrfs>
</dns>
```

Command Syntax

```
ip host (vrf management|) HOSTNAME A.B.C.D
```

Configure 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>management</vrf-name>
  <config>
    <vrf-name>management</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>
</vrf>
</vrfs>
</dns>
```

Command Syntax

```
ip host (vrf 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
```

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>
  </interface>
  </interfaces>
</client>
</dhcp>
```

```
        </request-ipv4-dns><!-- operation="delete"-->
    </config>
</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>
          </request-log-server><!-- operation="delete"-->
        </config>
      </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>
          </request-host-name><!-- operation="delete"-->
        </config>
      </interface>
    </interfaces>
  </client>
</dhcp>
```

```
</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>
          </request-ntp-server><!-- operation="delete"-->
        </config>
      </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>
          </request-ipv6-dns><!-- operation="delete"-->
        </config>
      </interface>
    </interfaces>
  </client>
</dhcp>
```

```
</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>
          </request-ipv6-domain-list><!-- operation="delete"-->
        </config>
      </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>
          </request-ipv6-ntp-server><!-- operation="delete"-->
        </config>
      </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>
          </request-ipv6-rapid-commit><!-- operation="delete"-->
        </config>
      </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>
          </request-ipv6-vendor-opts><!-- operation="delete"-->
        </config>
      </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>
          </ipv6-information-request><!-- operation="delete"-->
        </config>
      </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>
          <ipv6-dad-wait-time>1</ipv6-dad-wait-time> <!-- operation="delete"-->
        </config>
      </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(ll or llt).

Attribute Name: ipv6-client-duid-type

Attribute Type: enum (ll|llt)

Netconf edit-config payload

```
<dhcp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-dhcp">
  <client>
    <interfaces>
      <interface>
        <name>WORD</name>
        <config>
          <ipv6-client-duid-type>ll</ipv6-client-duid-type> <!--
operation="delete"-->
        </config>
      </interface>
    </interfaces>
  </client>
</dhcp>
```

Command Syntax

```
ipv6 dhcp client duid (ll|llt)
```

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>
          <request-ipv6-prefix>PREFIX-NAME</request-ipv6-prefix> <!--
operation="delete"-->
        </config>
      </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>
        <prefix-ipv6-addresses>
          <prefix-ipv6-address-entry> <!-- 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-entry>
        </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 pool6 name

IPv6 DHCP Server address pool name

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>NAME</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 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>NAME</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>
```

```
</dhcp-pools>
</vrf>
</vrfs>
</server>
</dhcp>
```

Command Syntax

```
ip dhcp server pool NAME
```

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: uint32

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>NAME</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 43200

Attribute Name: default-lease-time

Attribute Type: uint32

Default Value: 43200

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>NAME</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>NAME</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>NAME</vrf-name>
  </config>
  </preference><!-- operation="delete"-->
</vrf>
</vrfs>
</server>
</dhcp>

```

Command Syntax

```
ipv6 dhcp server preference
```

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>NAME</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>NAME</vrf-name>
  </config>
  </preference><!-- operation="delete"-->
</vrf>
</vrfs>
</server>
</dhcp>
```

Command Syntax

```
ipv6 dhcp server preference
```

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: uint32

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>NAME</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 43200

Attribute Name: default-lease-time

Attribute Type: uint32

Default Value: 43200

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>NAME</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>NAME</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 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>NAME</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 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>NAME</vrf-name>
  </config>
  <dhcp-pools>
  <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>NAME</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>NAME</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>NAME</vrf-name>
  </config>
  <dhcp-pools>
  <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>NAME</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>NAME</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>NAME</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>NAME</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>NAME</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>NAME</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 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>NAME</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 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>NAME</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>NAME</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 high 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>NAME</vrf-name>
        </config>
        <dhcp6-pools>
          <dhcp6-pool>
            <pool6-name>NAME</pool6-name>
            <config>
              <pool6-name>WORD</pool6-name>
              <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>NAME</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>NAME</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>
        </dhcp6-pool>
      </dhcp6-pools>
    </vrf>
  </server>
</dhcp>

```

```
    </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 cpu rate limit

CPU rate in packets per second

Attribute Name: cpu-rate-limit

Attribute Type: uint32

Attribute Range: 2000-100000

Netconf edit-config payload

```

<sampling xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow">
  <sflow>
    <config>
      <cpu-rate-limit>2000</cpu-rate-limit> <!-- operation="delete"-->
    </config>
  </sflow>
</sampling>

```

Command Syntax

```
sflow rate-limit <2000-100000>
```

Configure max datagram size

The maximum number of data bytes that can be sent in a single sample datagram. The manager should set this value to avoid fragmentation of the sFlow datagrams.

Attribute Name: max-datagram-size

Attribute Type: uint16

Attribute Range: 200-9000

Attribute Name: receiver-timeout

Attribute Type: uint32

Attribute Range: 0-2147483647

Netconf edit-config payload

```

<sampling xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow">
  <sflow>
    <collectors>
      <collector>
        <port>1024</port>
      </collector>
    </collectors>
  </sflow>
</sampling>

```

```

    <address>A.B.C.D</address>
    <receiver-timeout>0</receiver-timeout> <!-- operation="delete"-->
</config>
<address>A.B.C.D</address>
    <max-datagram-size>200</max-datagram-size> <!-- operation="delete"-->
</collector>
</collectors>
</sflow>
</sampling>

```

Command Syntax

```
sflow collector A.B.C.D port <1024-65535> receiver-time-out <0-2147483647> max-
datagram-size <200-9000>
```

Configure max entries

Specifies the maximum number of log entries that are cached, default is 1000 entries

This command is supported when following feature are enabled custom1 access-list options

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 rate limit

Configures rate limits in packets per second, Default is 200 packets/sec

This command is supported when following feature are enabled custom1 access-list options

Attribute Name: rate-limit

Attribute Type: uint16

Default Value: 200

Attribute Range: 0-1000

Netconf edit-config payload

```
<sampling xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-sflow">
  <sflow>
    <logging>
    <config>
      <rate-limit>0</rate-limit> <!-- operation="delete"-->
    </config>
  </logging>
</sflow>
</sampling>
```

Command Syntax

```
access-list logging rate-limit <0-1000>
```

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)
```

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 enabled

To enable or disable sampling on an interface after giving the sflow sampling-rate command on the same 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 sample size

The maximum number of bytes that should be copied from a sampled packet. The agent may have an internal maximum and minimum permissible sizes. If an attempt is made to set this value outside the permissible range then the agent should adjust the value to the closest permissible value.

Attribute Name: sample-size

Attribute Type: uint16

Attribute Range: 16-256

Attribute Name: sampling-rate

Attribute Type: uint32

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>
      <ingress>
        <config>
          <sampling-rate>1024</sampling-rate>
          <sample-size>16</sample-size>
        </config>
      </ingress>
    </interface>
  </interfaces>
</sflow>
</sampling>
```

Command Syntax

```
sflow sampling-rate <1024-16777215> direction ingress max-header-size <16-256>
```

Configure sample size

The maximum number of bytes that should be copied from a sampled packet. The agent may have an internal maximum and minimum permissible sizes. If an attempt is made to set this value outside the permissible range then the agent should adjust the value to the closest permissible value.

Attribute Name: sample-size

Attribute Type: uint16

Attribute Range: 16-256

Attribute Name: sampling-rate

Attribute Type: uint32

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>
      <egress>
        <config>
```

```

        <sampling-rate>1024</sampling-rate>
        <sample-size>16</sample-size>
    </config>
</egress>
</interface>
</interfaces>
</sflow>
</sampling>

```

Command Syntax

```
sflow sampling-rate <1024-16777215> direction egress max-header-size <16-256>
```

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|)
```

IPI-WATCHDOG

Configure watchdog disabled

Disable software watchdog functionality for all modules. This feature is enabled by default.

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.

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|hostpd|authd|mstpd|imi|onmd|hsl|oamd|vlogd|ptpd|ndd|ribd|l2mribd|lagd|sflow
  |cmlld|cmmd)
```

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-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>
</interface>
```

```

    </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 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

```
igmp snooping (disable|enable)
```

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: 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 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 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>
    </interface>
  </interfaces>
</igmp-snooping>

```

```
    <mrouter-interface-name>IFNAME</mrouter-interface-name> <!-- operation="delete"-->
->
  </interface>
</interfaces>
</igmp-snooping>
```

Command Syntax

```
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: 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>
  <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>
  </interface>
  </interfaces>
  <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>
</igmp-snooping>

```

```
</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-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>

```

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>
```



```
</config>
</match-condition>
</routemap>
</routemaps>
```

Command Syntax

```
match metric <1-4294967295>
```

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>
    <routemap-name>WORD</routemap-name>
  </config>
  <routemap-name>WORD</routemap-name>
<match-condition>
<config>
  <as-path-name>WORD</as-path-name> <!-- operation="delete"-->
</config>
</match-condition>
</routemap>
</routemaps>
```

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

```
<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-origin>egp</route-origin> <!-- operation="delete"-->
    </config>
  </match-condition>
</routemap>
</routemaps>
```

Command Syntax

```
match origin (egp|igp|incomplete)
```

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>
```

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_COMMUNITY_STRING_T</extended-community-
identifier>
  <config>
    <extended-community-identifier>RMAP_COMMUNITY_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 communities

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_COMMUNITY_STRING_T</extended-community-
identifier>
  <config>
    <extended-community-identifier>RMAP_COMMUNITY_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 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-name>WORD</routemap-name>
<match-condition>
<ipv6>
<config>
    <ipv6-address-access-list-name>WORD</ipv6-address-access-list-name> <!--
operation="delete"-->
</config>
</ipv6>
</match-condition>
</routemap>
</routemaps>

```

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

```
<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>
        <ipv6-prefix-list-name>WORD</ipv6-prefix-list-name> <!-- operation="delete"-->
      </config>
    </ipv6>
  </match-condition>
</routemap>
</routemaps>
```

Command Syntax

```
match ipv6 address prefix-list WORD
```

Configure peer access list 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>
  </routemap>
</routemaps>
```

```

<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 next hop 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: 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>
<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 large community number match

Use this attributes to set the communities attribute. and group destinations in a certain community, as well as apply routing decisions according to those communities.

Attribute Name: large-community-number-match

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>
<large-match-community>
<config>
  <large-community-number-match>XXX:YYYY:ZZZ</large-community-number-match> <!--
- operation="delete"-->
</config>
</large-match-community>
</match-condition>
</routemap>
</routemaps>

```

Command Syntax

```
match large-community [XXX:YYYY:ZZZ]
```

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: 0-4294967295

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>
    <weight>0</weight> <!-- operation="delete"-->
</config>
</set-action>
</routemap>
</routemaps>

```

Command Syntax

```
set weight <0-4294967295>
```

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-name>WORD</routemap-name>
<set-action>
<config>
  <route-origin-type>egp</route-origin-type> <!-- operation="delete"-->
</config>
</set-action>
</routemap>
</routemaps>
```


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

```
<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-type>type-1</metric-type> <!-- operation="delete"-->
    </config>
  </set-action>
</routemap>
</routemaps>
```

Command Syntax

```
set metric-type (type-1|type-2|internal|external)
```

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>
```

```
</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>
  </enable-as-path-tag><!-- operation="delete"-->
</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>
  </atomic-aggregate><!-- operation="delete"-->
</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 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

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>
```

```

</config>
</set-action>
</routemap>
</routemaps>

```

Command Syntax

```
set as-path prepend .<1-65535>
```

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

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</ext-community-site-of-origin> <!--
operation="delete"-->
</config>
</set-action>
</routemap>
</routemaps>

```

Command Syntax

```
set extcommunity soo .AA:NN
```

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>
  <routermap-name>WORD</routermap-name>
<set-action>
<ipv4>
<config>
  <ip-nexthop-address>A.B.C.D</ip-nexthop-address> <!-- operation="delete"-->
</config>
</ipv4>
</set-action>
</routermap>
</routermaps>
```

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

```
<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>
  <set-action>
  <ipv4>
  <config>
    </use-peer-address><!-- operation="delete"-->
  </config>
  </ipv4>
  </set-action>
</routermap>
</routermaps>
```

Command Syntax

```
set ip next-hop peer-address
```

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: vpv4-next-hop-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-next-hop-address>A.B.C.D</vpnv4-next-hop-address> <!--
operation="delete"-->
</config>
</ipv4>
</set-action>
</routemap>
</routemaps>
```

Command Syntax

```
set vpv4 next-hop A.B.C.D
```

Configure ipv6 next-hop address

Use this attribute to set a next hop-address.

Attribute Name: ipv6-next-hop-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-next-hop-address>X:X::X:X</ipv6-next-hop-address> <!--
operation="delete"-->
</config>
```

```
</ipv6>  
</set-action>  
</routemap>  
</routemaps>
```

Command Syntax

```
set ipv6 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-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>
</set-action>
</routemap>
</routemaps>

```

Command Syntax

```
set aggregator as <1-65535> 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 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-target> <!-- operation="delete"-->
  <ext-community-rt>AA:NN</ext-community-rt>
  <config>
    <ext-community-rt>AA:NN</ext-community-rt>
    <additive-type>no-additive</additive-type>
  </config>
</route-target>
</extended-community>
</set-action>

```

```
</routemap>  
</routemaps>
```

Command Syntax

```
set extcommunity rt .AA: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>  
<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>  
</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>
      <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"-
->
      </config>
    </dampening>
  </set-action>
</routemap>
</routemaps>
```

Command Syntax

```
set dampening <1-45> <1-20000> <1-20000> <1-255>
```

Configure unreachability half life time

Un-reachability half-life time for the penalty in minutes.

Attribute Name: unreachability-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"-->
      </config>
    </dampening>
  </set-action>
</routemap>
</routemaps>
```

```

        <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 attributes to set the communities attribute. and group destinations in a certain community, as well as apply routing decisions according to those communities.

Attribute Name: large-community-number-set

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>
  <large-community>
  <config>
    <large-community-number-set>XXX:YYYY:ZZZ</large-community-number-set> <!--
operation="delete"-->
  </config>
  </large-community>
  </set-action>
</routemap>
</routemaps>

```

Command Syntax

```
set large-community [XXX:YYYY:ZZZ]
```

IPI-SNMP

Configure enable link down trap

Use this attribute to enable or disable SNMP linkdown traps.

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 down trap

Use this attribute to enable or disable SNMP linkdown traps.

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 enable link down trap

Use this attribute to enable or disable SNMP linkdown traps.

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 enable link down trap

Use this attribute to enable or disable SNMP linkdown traps.

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 enable link up trap

Use this attribute to enable or disable SNMP linkup traps.

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 enable link up trap

Use this attribute to enable or disable SNMP linkup traps.

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|mpls|3vpn|rib|pim)

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)
```

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 enabled

Use this attribute to enable SNMP server

Attribute Name: enabled

Attribute Type: uint8

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>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
      </enabled><!-- operation="delete"-->
    </server>
  </servers>
</snmp>
```

Command Syntax

```
snmp-server enable snmp (vrf management|)
```

Configure enabled

Use this attribute to enable SNMP server

Attribute Name: enabled

Attribute Type: uint8

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>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
      </enabled><!-- operation="delete"-->
    </server>
  </servers>
</snmp>
```

Command Syntax

```
no snmp-server enable snmp (vrf management|)
```

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>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
        </enabled>
      </config>
    </server>
  </servers>
</snmp>
```

Command Syntax

```
snmp-server enable snmp (vrf 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>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
      <global>
        <config>
          <system-contact>LINE</system-contact> <!-- operation="delete"-->
        </config>
      </global>
    </server>
  </servers>
</snmp>
```

Command Syntax

```
snmp-server contact (vrf 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>management</vrf-name>
  <config>
    <vrf-name>management</vrf-name>
  </config>
  <global>
  <config>
    <system-location>LINE</system-location> <!-- operation="delete"-->
  </config>
</global>
</server>
</servers>
</snmp>
```

Command Syntax

```
snmp-server location (vrf 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>management</vrf-name>
  <config>
    <vrf-name>management</vrf-name>
  </config>
  <global>
  <config>
    </tcp-session-enabled><!-- operation="delete"-->
  </config>
</global>
```

```
</server>
</servers>
</snmp>
```

Command Syntax

```
snmp-server tcp-session (vrf 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
```

IPI-SNMP-SERVER-EXTENDED

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>management</vrf-name>
      <config>
        <vrf-name>management</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 management|)
```

Configure smux port disable

Use this attribute to disable smux-port.

Attribute Name: smux-port-disable

Attribute Type: empty

Netconf edit-config payload

```
<snmp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp">
  <smux-port xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
    <config>
      </smux-port-disable><!-- operation="delete"-->
    </config>
  </smux-port>
</snmp>
```

Command Syntax

```
snmp-server smux-port-disable
```

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.

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>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
      <hosts xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmp-server-extended">
        <host>
          <host-name>A.B.C.D</host-name>
        </host>
      </hosts>
    </server>
  </servers>
</snmp>
```



```

>         <notification-type>traps</notification-type> <!-- operation="delete"-->
<
         <snmp-version>1</snmp-version> <!-- operation="delete"-->
         <community>WORD</community> <!-- operation="delete"-->
         <udp-port>1</udp-port> <!-- operation="delete"-->
         </config>
       </host>
     </hosts>
  </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 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.

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-snm">
<servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snm-server">
  <server>
    <vrf-name>management</vrf-name>
    <config>
      <vrf-name>management</vrf-name>
    </config>
    <hosts xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snm-server-extended">
      <host>

```

```

    <host-name>A.B.C.D</host-name>
    <config>
      <host-name>A.B.C.D</host-name>
      <notification-type>traps</notification-type> <!-- operation="delete"-->
>
      <snmp-version>1</snmp-version> <!-- operation="delete"-->
      <snmpv3-auth-type>noauth</snmpv3-auth-type> <!-- operation="delete"-->
      <snmpv3-user>WORD</snmpv3-user> <!-- operation="delete"-->
      <udp-port>1</udp-port> <!-- operation="delete"-->
    </config>
  </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 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.

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>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    </server>
  </servers>
</snmp>

```

```

    <host>
      <host-name>A.B.C.D</host-name>
      <config>
        <host-name>A.B.C.D</host-name>
        <notification-type>traps</notification-type> <!-- operation="delete"-->
>
        <snmp-version>1</snmp-version> <!-- operation="delete"-->
        <community>WORD</community> <!-- operation="delete"-->
        <udp-port>1</udp-port> <!-- operation="delete"-->
      </config>
    </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 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.

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>management</vrf-name>
      <config>

```

```

        <vrf-name>management</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>
            <notification-type>traps</notification-type> <!-- operation="delete"-->
>
            <snmp-version>1</snmp-version> <!-- operation="delete"-->
            <snmpv3-auth-type>noauth</snmpv3-auth-type> <!-- operation="delete"-->
            <snmpv3-user>WORD</snmpv3-user> <!-- operation="delete"-->
            <udp-port>1</udp-port> <!-- operation="delete"-->
        </config>
    </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 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.

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>management</vrf-name>
            <config>
                <vrf-name>management</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>
      <snmp-version>1</snmp-version> <!-- operation="delete"-->
      <community>WORD</community> <!-- operation="delete"-->
      <udp-port>1</udp-port> <!-- operation="delete"-->
    </config>
  </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 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.

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>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
    </server>
  </servers>
</snmp>

```

```

<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>
    <snmp-version>1</snmp-version> <!-- operation="delete"-->
    <snmpv3-auth-type>noauth</snmpv3-auth-type> <!-- operation="delete"-->
    <snmpv3-user>WORD</snmpv3-user> <!-- operation="delete"-->
    <udp-port>1</udp-port> <!-- operation="delete"-->
  </config>
</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 management|)

```

Configure udp port

Use this attribute to specify the port to be used when SNMP sends packets to host. The default is 162.

This command is supported when following feature are enabled SNMP-AGENT feature

Attribute Name: udp-port

Attribute Type: uint32

Attribute Range: 1-65535

Attribute Name: host-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>management</vrf-name>
    <config>
      <vrf-name>management</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-user>WORD</host-user> <!-- operation="delete"-->
    </config>
    <udp-port>1</udp-port> <!-- operation="delete"-->
  </host>
</hosts>
</servers>

```

```

</server>
</servers>
</snmp>

```

Command Syntax

```
snmp-server host (A.B.C.D|X:X::X:X|HOSTNAME) WORD (udp-port <1-65535>|) (vrf
management|)
```

Configure user name

Use this attribute to create an SNMP server user.

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>management</vrf-name>
    <config>
      <vrf-name>management</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>
      </config>
    </user>
  </users>
</server>
</servers>
</snmp>

```

Command Syntax

```
snmp-server user WORD auth (md5|sha) encrypt AUTH-PASSWORD (vrf management|)
```

Configure user name

Use this attribute to create an SNMP server user.

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>management</vrf-name>
      <config>
        <vrf-name>management</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>
```

Command Syntax

```
snmp-server user WORD auth (md5|sha) AUTH-PASSWORD (vrf management|)
```

Configure user name

Use this attribute to create an SNMP server user.

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>management</vrf-name>
      <config>
        <vrf-name>management</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>
</snmp>
```

Command Syntax

```
snmp-server user WORD (network-operator|network-admin|WORD) auth (md5|sha) encrypt
AUTH-PASSWORD (vrf management|)
```

Configure user name

Use this attribute to create an SNMP server user.

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>management</vrf-name>
      <config>
        <vrf-name>management</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 management|)
```

Configure user name

Use this attribute to create an SNMP server user.

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-snmplib">
  <servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmplib-server">
    <server>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
      <users xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmplib-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 management|)
```

Configure user name

Use this attribute to create an SNMP server user.

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>management</vrf-name>
      <config>
        <vrf-name>management</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>
            <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) AUTH-PASSWORD priv (des|aes) PRIV-PASSWORD
(vrf management|)
```

Configure user name

Use this attribute to create an SNMP server user.

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>management</vrf-name>
      <config>
        <vrf-name>management</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 management|)
```

Configure user name

Use this attribute to create an SNMP server user.

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>management</vrf-name>
      <config>
        <vrf-name>management</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>
            <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 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

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>management</vrf-name>
      <config>
        <vrf-name>management</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>
```

Command Syntax

```
snmp-server user WORD (vrf management|)
```

Configure 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>management</vrf-name>
      <config>
        <vrf-name>management</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 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>management</vrf-name>
      <config>
        <vrf-name>management</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 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>management</vrf-name>
      <config>
        <vrf-name>management</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 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>management</vrf-name>
      <config>
        <vrf-name>management</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 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>management</vrf-name>
      <config>
        <vrf-name>management</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>
```

Command Syntax

```
snmp-server community WORD (ro) (vrf 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>management</vrf-name>
      <config>
        <vrf-name>management</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>
          <acl-name>WORD</acl-name> <!-- operation="delete"-->
        </community>
      </communities>
    </server>
  </servers>
</snmp>
```

Command Syntax

```
snmp-server community WORD use-acl WORD (vrf 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>management</vrf-name>
      <config>
        <vrf-name>management</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 management|)
```

Configure community name

Use this attribute to create an SNMP community string and access privileges.

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>management</vrf-name>
        <config>
            <vrf-name>management</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-context>WORD</community-context> <!-- operation="delete"-->
    <community-user>WORD</community-user> <!-- operation="delete"-->
  </community>
</communities>
</server>
</servers>
</snmp>

```

Command Syntax

```
snmp-server community-map WORD context WORD user WORD (vrf management|)
```

Configure group name

Use this attribute to create an SNMP group string.

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>management</vrf-name>
    <config>
      <vrf-name>management</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> <!-- operation="delete"-->
        </config>
      </server-group>
    </server-groups>
  </server>
</servers>
</snmp>

```

Command Syntax

```
snmp-server group WORD version (1|2c) (vrf management|)
```

Configure group name

Use this attribute to create an SNMP group string.

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>management</vrf-name>
      <config>
        <vrf-name>management</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> <!-- operation="delete"-->
            <snmpv3-group-auth-type>auth</snmpv3-group-auth-type> <!-- operation="delete"-->
          </config>
        </server-group>
      </server-groups>
    </server>
  </servers>
</snmp>
```

Command Syntax

```
snmp-server group WORD version (3) (auth|priv|noauth) (vrf management|)
```

Configure group name

Use this attribute to create an SNMP group string.

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>management</vrf-name>
      <config>
        <vrf-name>management</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> <!-- operation="delete"-->
            <context>1</context> <!-- operation="delete"-->
          </config>
        </server-group>
      </server-groups>
    </server>
  </servers>
</snmp>
```

Command Syntax

```
snmp-server group WORD version (1|2c) context (all|WORD) (vrf management|)
```

Configure group name

Use this attribute to create an SNMP group string.

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-snmplib">
  <servers xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmplib-server">
    <server>
      <vrf-name>management</vrf-name>
      <config>
        <vrf-name>management</vrf-name>
      </config>
      <server-groups xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-snmplib-server-extended">
        <server-group>
          <group-name>WORD</group-name>
          <config>
            <group-name>WORD</group-name>
            <group-version>1</group-version> <!-- operation="delete"-->
            <snmpv3-group-auth-type>auth</snmpv3-group-auth-type> <!--
operation="delete"-->
            <context>1</context> <!-- operation="delete"-->
          </config>
        </server-group>
      </server-groups>
    </server>
  </servers>
</snmp>
```

Command Syntax

```
snmp-server group WORD version (3) (auth|priv|noauth) context <1-32> (all) (vrf
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-QOS

Configure enable qos

Use this attribute to globally enable or disable QoS

Attribute Name: enable-qos

Attribute Type: empty

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <config>
      </enable-qos><!-- operation="delete"-->
    </config>
  </global>
</qos>
```

Command Syntax

```
qos enable
```

Configure statistics enabled

Use this attribute to enable QoS statistics

Attribute Name: statistics-enabled

Attribute Type: empty

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <config>
      </statistics-enabled><!-- operation="delete"-->
    </config>
  </global>
</qos>
```

Command Syntax

```
qos statistics
```

Configure block size

Use this attribute to configure block-size for vlan-queuing

Attribute Name: block-size

Attribute Type: uint8

Default Value: 1

Attribute Range: 1-8

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <config>
      <block-size>1</block-size> <!-- operation="delete"-->
    </config>
  </global>
</qos>
```

Command Syntax

```
qos vlan-queuing block-size <1-8>
```

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 color

Use this attribute to select the color CoS DEI is mapped to.

This command is supported when following feature are enabled QoS Mapping Profile feature and following feature are disabled QoS custom options2

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>
      <cos-to-queue-profiles>
        <cos-to-queue-profile>
          <name>NAME</name>
          <config>
            <name>WORD</name>
          </config>
        <cos-dei-to-queues>
          <cos-dei-to-queue>
            <dei-value>all</dei-value>
            <config>
              <dei-value>all</dei-value>
              <cos-value>0</cos-value>
              <queue-id>0</queue-id> <!-- operation="delete"-->
            </config>
            <cos-value>0</cos-value>
            <color>green</color> <!-- operation="delete"-->
          </cos-dei-to-queue>
        </cos-dei-to-queues>
      </cos-to-queue-profile>
    </cos-to-queue-profiles>
  </map-profile>
</global>
</qos>
```

Command Syntax

```
cos <0-7> (dei (0|1|all)) queue <0-7> (color (green|yellow|red))
```

Configure 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 color

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 color

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 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 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-queue-profile>
</dscp-to-queue-profiles>
</map-profile>
</global>
</qos>

```

Command Syntax

```
dscp <0-63> queue <0-7>
```

Configure 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 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 name

Use this attribute to select the Traffic-Class to Precedence 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-to-precedence-profiles>
        <queue-to-precedence-profile> <!-- operation="delete"-->
          <name>NAME</name>
          <config>
            <name>WORD</name>
          </config>
        </queue-to-precedence-profile>
      </queue-to-precedence-profiles>
    </map-profile>
  </global>
</qos>
```

Command Syntax

```
qos profile queue-to-precedence NAME
```

Configure queue id

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: 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>
      <queue-to-precedence-profiles>
        <queue-to-precedence-profile>
          <name>NAME</name>
        </queue-to-precedence-profile>
      </queue-to-precedence-profiles>
    </map-profile>
  </global>
</qos>
```

```
<config>
  <name>WORD</name>
</config>
<queue-to-precedences>
<queue-to-precedence> <!-- operation="delete"-->
  <queue-id>0</queue-id>
  <config>
    <queue-id>0</queue-id>
    <precedence-value>0</precedence-value>
  </config>
</queue-to-precedence>
</queue-to-precedences>
</queue-to-precedence-profile>
</queue-to-precedence-profiles>
</map-profile>
</global>
</qos>
```

Command Syntax

```
queue <0-7> precedence <0-7>
```

Configure 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 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-queues>
          <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-queues>
      </precedence-to-queue-profile>
    </precedence-to-queue-profiles>
  </map-profile>
</global>
</qos>
```

Command Syntax

```
precedence <0-7> queue <0-7>
```

Configure 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-profiles>
<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-profiles>
</precedence-to-queue-profile>
</map-profile>
</global>
</qos>
```

Command Syntax

```
precedence <0-7> queue <0-7>
```

Configure 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 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-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 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>
```

Command Syntax

```
qos remark dscp
```

Configure name

Use this attribute to set the class-map name

Attribute Name: name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: type

Attribute Type: enum (qos|queuing|queuing-default|vlan-queuing)

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>
  <name>NAME</name>
  <config>
    <name>NAME</name>
    <type>1</type>
    <match-criteria>1</match-criteria>
  </config>
</class-map>
</class-maps>
</global>
</qos>
```

Command Syntax

```
class-map NAME
```

Configure name

Use this attribute to set the class-map name

Attribute Name: name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: type

Attribute Type: enum (qos|queuing|queuing-default|vlan-queuing)

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>
        <name>NAME</name>
        <config>
          <name>NAME</name>
          <type>qos</type>
          <match-criteria>1</match-criteria>
        </config>
      </class-map>
    </class-maps>
  </global>
</qos>
```

Command Syntax

```
class-map type (qos) NAME
```

Configure name

Use this attribute to set the class-map name

Attribute Name: name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: type

Attribute Type: enum (qos|queuing|queuing-default|vlan-queuing)

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>
        <name>NAME</name>
        <config>
```



```

    <name>NAME</name>
    <type>qos</type>
    <match-criteria>match-all</match-criteria>
  </config>
</class-map>
</class-maps>
</global>
</qos>

```

Command Syntax

```
class-map type (qos) (match-all) NAME
```

Configure name

Use this attribute to set the class-map name

Attribute Name: name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: type

Attribute Type: enum (qos|queuing|queuing-default|vlan-queuing)

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>
        <name>NAME</name>
        <config>
          <name>NAME</name>
          <type>qos</type>
          <match-criteria>match-all</match-criteria>
        </config>
      </class-map>
    </class-maps>
  </global>
</qos>

```

Command Syntax

```
class-map type (qos) (match-any) NAME
```

Configure name

Use this attribute to set the class-map name

Attribute Name: name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: type

Attribute Type: enum (qos|queuing|queuing-default|vlan-queuing)

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>
        <name>NAME</name>
        <config>
          <name>NAME</name>
          <type>1</type>
          <match-criteria>match-all</match-criteria>
        </config>
      </class-map>
    </class-maps>
  </global>
</qos>
```

Command Syntax

```
class-map (match-any) NAME
```

Configure name

Use this attribute to set the class-map name

Attribute Name: name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: type

Attribute Type: enum (qos|queuing|queuing-default|vlan-queuing)

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>
        <name>NAME</name>
        <config>
          <name>NAME</name>
        </config>
      </class-map>
    </class-maps>
  </global>
</qos>
```

```

        <type>1</type>
        <match-criteria>match-all</match-criteria>
    </config>
</class-map>
</class-maps>
</global>
</qos>

```

Command Syntax

```
class-map (match-all) 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>
    <name>NAME</name>
    <config>
        <name>NAME</name>
    </config>
    <reference-description>LINE</reference-description> <!-- operation="delete"-->
</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>
  <name>NAME</name>
  <config>
    <name>NAME</name>
  </config>
<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 traffic type

Use this attribute to classify traffic based on the traffic type value

Attribute Name: traffic-type

Attribute Type: enum (l2-uc|l2-uc-unknown|default)

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps>
<class-map>
  <name>NAME</name>
  <config>
    <name>NAME</name>
  </config>
<match-any-conditions>
<config>
  <traffic-type>l2-uc</traffic-type> <!-- operation="delete"-->
</config>
</match-any-conditions>
</class-map>
</class-maps>
</global>
</qos>

```

Command Syntax

```
match traffic-type (l2-uc|l2-uc-unknown|default)
```

Configure 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>
        <name>NAME</name>
        <config>
          <name>NAME</name>
        </config>
      <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>
        <name>NAME</name>
        <config>
          <name>NAME</name>
        </config>
      <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>
  <name>NAME</name>
  <config>
    <name>NAME</name>
  </config>
</match-any-conditions>
<config>
  <vlan>WORD</vlan> <!-- operation="delete"-->
</config>
</match-any-conditions>
</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>
    <name>NAME</name>
    <config>
      <name>NAME</name>
    </config>
  <match-any-conditions>
  <config>
    <inner-vlan>WORD</inner-vlan> <!-- operation="delete"-->
  </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>
    <name>NAME</name>
    <config>
      <name>NAME</name>
    </config>
  <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 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>
        <name>NAME</name>
        <config>
          <name>NAME</name>
        </config>
      <match-any-conditions>
        <config>
          <dscp>WORD</dscp> <!-- operation="delete" -->
        </config>
      </match-any-conditions>
    </class-map>
  </class-maps>
</global>
</qos>
```

Command Syntax

```
match 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>
  <name>NAME</name>
  <config>
    <name>NAME</name>
  </config>
<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 packet protocol

Use this attribute to classify traffic based on the protocol

Attribute Name: packet-protocol

Attribute Type: enum (arp|bridging|cdp|clns|clns-es|clns-is|dhcp|isis|ldp|netbios)

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps>
<class-map>
  <name>NAME</name>
  <config>
    <name>NAME</name>
  </config>
<match-any-conditions>
<config>
  <packet-protocol>arp</packet-protocol> <!-- operation="delete"-->
</config>
</match-any-conditions>
</class-map>
</class-maps>
</global>
</qos>

```

Command Syntax

```
match protocol (arp|bridging|cdp|clns|clns-es|clns-is|dhcp|isis|ldp|netbios)
```

Configure source mac

Use this attribute to classify traffic based on the source MAC address. The MAC address value allow up to 17 characters.

Attribute Name: source-mac

Attribute Type: string

Attribute Range: 1-17

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <class-maps>
      <class-map>
        <name>NAME</name>
        <config>
          <name>NAME</name>
        </config>
      <match-any-conditions>
        <config>
          <source-mac>MAC_ADDR</source-mac> <!-- operation="delete"-->
        </config>
      </match-any-conditions>
    </class-map>
  </class-maps>
</global>
</qos>
```

Command Syntax

```
match mac src MAC_ADDR
```

Configure destination mac

Use this attribute to classify traffic based on the destination MAC address. The MAC address value allow up to 17 characters.

Attribute Name: destination-mac

Attribute Type: string

Attribute Range: 1-17

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <class-maps>
      <class-map>
        <name>NAME</name>
        <config>
          <name>NAME</name>
        </config>
      </class-map>
    </class-maps>
  </global>
</qos>
```

```

<match-any-conditions>
<config>
    <destination-mac>MAC_ADDR</destination-mac> <!-- operation="delete"-->
</config>
</match-any-conditions>
</class-map>
</class-maps>
</global>
</qos>

```

Command Syntax

```
match mac dest MAC_ADDR
```

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>
    <name>NAME</name>
    <config>
        <name>NAME</name>
    </config>
<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 traffic type all

Use this attribute to classify traffic based on the traffic type

Attribute Name: traffic-type-all

Attribute Type: enum (l2-uc|l2-uc-unknown|default)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <class-maps>
      <class-map>
        <name>NAME</name>
        <config>
          <name>NAME</name>
        </config>
      <match-all-conditions>
        <config>
          <traffic-type-all>l2-uc</traffic-type-all> <!-- operation="delete"-->
        </config>
      </match-all-conditions>
    </class-map>
  </class-maps>
</global>
</qos>
```

Command Syntax

```
match traffic-type (l2-uc|l2-uc-unknown|default)
```

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>
        <name>NAME</name>
        <config>
          <name>NAME</name>
        </config>
      </class-map>
    </class-maps>
  </global>
</qos>
```

```

<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>
    <name>NAME</name>
    <config>
        <name>NAME</name>
    </config>
<match-all-conditions>
<config>
    <inner-cos-all>0</inner-cos-all> <!-- operation="delete"-->
</config>
</match-all-conditions>
</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>
        <name>NAME</name>
        <config>
          <name>NAME</name>
        </config>
      <match-all-conditions>
      <config>
        <vlan-all>1</vlan-all> <!-- operation="delete"-->
      </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>
        <name>NAME</name>
        <config>
          <name>NAME</name>
        </config>
      <match-all-conditions>
      <config>
        <inner-vlan-all>1</inner-vlan-all> <!-- operation="delete"-->
      </config>
    </match-all-conditions>
  </class-map>
</class-maps>
</global>
</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: uint32

Attribute Range: 2000-65535

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <class-maps>
      <class-map>
        <name>NAME</name>
        <config>
          <name>NAME</name>
        </config>
      <match-all-conditions>
        <config>
          <rtp-all>2000</rtp-all> <!-- operation="delete"-->
        </config>
      </match-all-conditions>
    </class-map>
  </class-maps>
</global>
</qos>
```

Command Syntax

```
match ip rtp <2000-65535>
```

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: string

Attribute Range: 1-8

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <class-maps>
      <class-map>
```

```
<name>NAME</name>
<config>
  <name>NAME</name>
</config>
<match-all-conditions>
<config>
  <dscp-all>WORD</dscp-all> <!-- operation="delete"-->
</config>
</match-all-conditions>
</class-map>
</class-maps>
</global>
</qos>
```

Command Syntax

```
match dscp WORD
```

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>
  <name>NAME</name>
  <config>
    <name>NAME</name>
  </config>
<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 packet protocol all

Use this attribute to classify traffic based on the protocol

Attribute Name: packet-protocol-all

Attribute Type: enum (arp|bridging|cdp|clns|clns-es|clns-is|dhcp|isis|ldp|netbios)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <class-maps>
      <class-map>
        <name>NAME</name>
        <config>
          <name>NAME</name>
        </config>
      <match-all-conditions>
      <config>
        <packet-protocol-all>arp</packet-protocol-all> <!-- operation="delete"-->
      </config>
    </match-all-conditions>
  </class-map>
</class-maps>
</global>
</qos>
```

Command Syntax

```
match protocol (arp|bridging|cdp|clns|clns-es|clns-is|dhcp|isis|ldp|netbios)
```

Configure source mac all

Use this attribute to classify traffic based on the source MAC address. The MAC address value allow up to 17 characters.

Attribute Name: source-mac-all

Attribute Type: string

Attribute Range: 1-17

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <class-maps>
      <class-map>
        <name>NAME</name>
        <config>
          <name>NAME</name>
        </config>
      <match-all-conditions>
      <config>
        <source-mac-all>MAC_ADDR</source-mac-all> <!-- operation="delete"-->
      </config>
    </match-all-conditions>
  </class-map>
</class-maps>
</global>
</qos>
```

```
</config>
</match-all-conditions>
</class-map>
</class-maps>
</global>
</qos>
```

Command Syntax

```
match mac src MAC_ADDR
```

Configure destination mac all

Use this attribute to classify traffic based on the destination MAC address. The MAC address value allow up to 17 characters.

Attribute Name: destination-mac-all

Attribute Type: string

Attribute Range: 1-17

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <class-maps>
      <class-map>
        <name>NAME</name>
        <config>
          <name>NAME</name>
        </config>
      <match-all-conditions>
        <config>
          <destination-mac-all>MAC_ADDR</destination-mac-all> <!-- operation="delete"-->
        </config>
      </match-all-conditions>
    </class-map>
  </class-maps>
</global>
</qos>
```

Command Syntax

```
match mac dest MAC_ADDR
```

Configure port all

Use this attribute to classify traffic based on the port

Attribute Name: port-all

Attribute Type: uint16

Attribute Range: 1-65535

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps>
<class-map>
  <name>NAME</name>
  <config>
    <name>NAME</name>
  </config>
<match-all-conditions>
<layer4-match-ipv4> <!-- operation="delete"-->
  <port-all>1</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>
</match-all-conditions>
</class-map>
</class-maps>
</global>
</qos>

```

Command Syntax

```
match layer4 (any|tcp|udp) (source-port|destination-port) <1-65535>
```

Configure name

Use this attribute to set the class-map name

Attribute Name: name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: type

Attribute Type: enum (qos|queuing|queuing-default|vlan-queuing)

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<class-maps>
<class-map>
  <name>NAME</name>
  <config>
    <name>NAME</name>
    <type>qos</type>
  </config>

```

```
</class-map>  
</class-maps>  
</global>  
</qos>
```

Command Syntax

```
class-map type (queuing|vlan-queuing) NAME
```

Configure 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 qos group

Use this attribute to classify traffic QoS group

Attribute Name: qos-group

Attribute Type: uint32

Attribute Range: 1-2000

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>
  <qos-group>1</qos-group>
</config>
</match-conditions>
</class-map-queuing>
</class-maps-queuing>
</global>
</qos>

```

Command Syntax

```
match qos-group <1-2000>
```

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>
      </class-map-queuing>
    </class-maps-queuing>
  </global>
  <vlan-queue>1</vlan-queue> <!-- operation="delete"-->
</qos>

```

Command Syntax

```
match vlan <1-4094>
```

Configure 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-queuing>
      <class-map-queuing>
        <name>WORD</name>
        <config>
          <name>NAME</name>
        </config>
      </class-map-queuing>
    </class-maps-queuing>
  </global>
  <match-conditions>
    <config>
      <cos>WORD</cos> <!-- operation="delete"-->
    </config>
  </match-conditions>
</qos>
```

Command Syntax

```
match cos WORD
```

Configure policy map name

Use this attribute to set the policy-map name

Attribute Name: policy-map-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: type

Attribute Type: enum (qos|queuing|queuing default|vlan-queuing|hybrid-queuing)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <policy-map-name>NAME</policy-map-name>
        <config>
          <policy-map-name>NAME</policy-map-name>
          <type>1</type>
        </config>
      </policy-map>
    </policy-maps>
  </global>
```

```
</qos>
```

Command Syntax

```
policy-map NAME
```

Configure policy map name

Use this attribute to set the policy-map name

Attribute Name: policy-map-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: type

Attribute Type: enum (qos|queuing|queuing default|vlan-queuing|hybrid-queuing)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <policy-map-name>NAME</policy-map-name>
        <config>
          <policy-map-name>NAME</policy-map-name>
          <type>qos</type>
        </config>
      </policy-map>
    </policy-maps>
  </global>
</qos>
```

Command Syntax

```
policy-map type (qos) NAME
```

Configure policy map name

Use this attribute to set the policy-map name

Attribute Name: policy-map-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: type

Attribute Type: enum (qos|queuing|queuing default|vlan-queuing|hybrid-queuing)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
```

```
<policy-map-name>NAME</policy-map-name>
<config>
  <policy-map-name>NAME</policy-map-name>
  <type>qos</type>
</config>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
policy-map type (queuing) NAME
```

Configure policy map name

Use this attribute to set the policy-map name

Attribute Name: policy-map-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: type

Attribute Type: enum (qos|queuing|queuing default|vlan-queuing|hybrid-queuing)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
  <policy-map-name>NAME</policy-map-name>
  <config>
    <policy-map-name>NAME</policy-map-name>
    <type>qos</type>
  </config>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
policy-map type (queuing default) NAME
```

Configure policy map name

Use this attribute to set the policy-map name

Attribute Name: policy-map-name

Attribute Type: string

Attribute Range: 1-32

Attribute Name: type

Attribute Type: enum (qos|queuing|queuing default|vlan-queuing|hybrid-queuing)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <policy-map-name>NAME</policy-map-name>
        <config>
          <policy-map-name>NAME</policy-map-name>
          <type>qos</type>
        </config>
      </policy-map>
    </policy-maps>
  </global>
</qos>
```

Command Syntax

```
policy-map type (vlan-queuing|hybrid-queuing) 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

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <policy-map-name>NAME</policy-map-name>
        <config>
          <policy-map-name>NAME</policy-map-name>
          <reference-description>LINE</reference-description> <!-- operation="delete"-->
        </config>
      </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: type

Attribute Type: enum (qos|queuing|queuing default|vlan-queuing|hybrid-queuing)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <policy-map-name>NAME</policy-map-name>
        <config>
          <policy-map-name>NAME</policy-map-name>
        </config>
      </policy-map>
    </policy-maps>
  </global>
  <classes>
    <class>
      <class-map-name>NAME</class-map-name>
      <config>
        <class-map-name>NAME</class-map-name>
        <type>qos</type>
      </config>
    </class>
  </classes>
</qos>
```

Command Syntax

```
class (type (qos)|) NAME
```

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: type

Attribute Type: enum (qos|queuing|queuing default|vlan-queuing|hybrid-queuing)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
```

```

<policy-map>
  <policy-map-name>NAME</policy-map-name>
  <config>
    <policy-map-name>NAME</policy-map-name>
  </config>
<classes>
<class>
  <class-map-name>NAME</class-map-name>
  <config>
    <class-map-name>NAME</class-map-name>
    <type>qos</type>
  </config>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>

```

Command Syntax

```
class (type (qos)|) class-default
```

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: type

Attribute Type: enum (qos|queuing|queuing default|vlan-queuing|hybrid-queuing)

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
  <policy-map-name>NAME</policy-map-name>
  <config>
    <policy-map-name>NAME</policy-map-name>
  </config>
<classes>
<class>
  <class-map-name>NAME</class-map-name>
  <config>
    <class-map-name>NAME</class-map-name>
    <type>queuing</type>
  </config>
</class>
</classes>

```

```
</policy-map>  
</policy-maps>  
</global>  
</qos>
```

Command Syntax

```
class (type (queuing)|) class-default-q
```

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: string

Attribute Name: type

Attribute Type: enum (qos|queuing|queuing default|vlan-queuing|hybrid-queuing)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">  
<global>  
<policy-maps>  
<policy-map>  
  <policy-map-name>NAME</policy-map-name>  
  <config>  
    <policy-map-name>NAME</policy-map-name>  
  </config>  
<classes>  
<class>  
  <class-map-name>NAME</class-map-name>  
  <config>  
    <class-map-name>NAME</class-map-name>  
    <type>queuing</type>  
  </config>  
</class>  
</classes>  
</policy-map>  
</policy-maps>  
</global>  
</qos>
```

Command Syntax

```
class (type (queuing)|) NAME
```

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: string

Attribute Name: type

Attribute Type: enum (qos|queuing|queuing default|vlan-queuing|hybrid-queuing)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
  <policy-maps>
  <policy-map>
    <policy-map-name>NAME</policy-map-name>
    <config>
      <policy-map-name>NAME</policy-map-name>
    </config>
  <classes>
  <class>
    <class-map-name>NAME</class-map-name>
    <config>
      <class-map-name>NAME</class-map-name>
      <type>queuing</type>
    </config>
  </class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
class (type (queuing|vlan-queuing) |) NAME
```

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: type

Attribute Type: enum (qos|queuing|queuing default|vlan-queuing|hybrid-queuing)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
  <policy-maps>
  <policy-map>
    <policy-map-name>NAME</policy-map-name>
    <config>
      <policy-map-name>NAME</policy-map-name>
    </config>
  <classes>
  <class>
```

```

    <class-map-name>NAME</class-map-name>
  <config>
    <class-map-name>NAME</class-map-name>
    <type>qos</type>
  </config>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>

```

Command Syntax

```
class type (queuing default) (q0|q1|q2|q3|q4|q5|q6|q7)
```

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>
        <policy-map-name>NAME</policy-map-name>
        <config>
          <policy-map-name>NAME</policy-map-name>
        </config>
      </policy-map>
    </policy-maps>
  </global>
  <class>
    <class-map-name>NAME</class-map-name>
    <config>
      <class-map-name>NAME</class-map-name>
      <child-service-policy-name>NAME</child-service-policy-name> <!--
operation="delete"-->
    </config>
  </class>
</class>
</qos>

```

Command Syntax

```
service-policy NAME
```

Configure 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>
        <policy-map-name>NAME</policy-map-name>
        <config>
          <policy-map-name>NAME</policy-map-name>
        </config>
      </policy-map>
    </policy-maps>
    <classes>
      <class>
        <class-map-name>NAME</class-map-name>
        <config>
          <class-map-name>NAME</class-map-name>
          <reference-description>LINE</reference-description> <!-- operation="delete"-->
        </config>
      </class>
    </classes>
  </global>
</qos>
```

Command Syntax

```
reference-description LINE
```

Configure weighted round robin queue weight

Use this attribute to set the weight for Weighted Round Robin queue scheduling algorithm

Attribute Name: weighted-round-robin-queue-weight

Attribute Type: uint8

Attribute Range: 1-127

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <policy-map-name>NAME</policy-map-name>
```

```

    <config>
      <policy-map-name>NAME</policy-map-name>
    </config>
  </classes>
  <class>
    <class-map-name>NAME</class-map-name>
    <config>
      <class-map-name>NAME</class-map-name>
    </config>
    <queue-mode>
    <config>
      <weighted-round-robin-queue-weight>1</weighted-round-robin-queue-weight>
<!-- operation="delete"-->
    </config>
  </queue-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>

```

Command Syntax

```
wrr-queue weight <1-127>
```

Configure strict priority enabled

Use this attribute to set Strict Priority as queue scheduling algorithm

Attribute Name: strict-priority-enabled

Attribute Type: empty

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
  <policy-maps>
  <policy-map>
    <policy-map-name>NAME</policy-map-name>
    <config>
      <policy-map-name>NAME</policy-map-name>
    </config>
  </classes>
  <class>
    <class-map-name>NAME</class-map-name>
    <config>
      <class-map-name>NAME</class-map-name>
    </config>
    <queue-mode>
    <config>
      </strict-priority-enabled><!-- operation="delete"-->

```



```

    </config>
  </queue-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>

```

Command Syntax

```
priority
```

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>
    <policy-map-name>NAME</policy-map-name>
    <config>
      <policy-map-name>NAME</policy-map-name>
    </config>
  </policy-map>
  </policy-maps>
  <classes>
  <class>
    <class-map-name>NAME</class-map-name>
    <config>
      <class-map-name>NAME</class-map-name>
      <queue-mode>
      <red>
      <config>
        <weight>0</weight> <!-- operation="delete"-->
      </config>
      </red>
    </config>
  </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 minimum threshold

Attribute Name: min-threshold

Attribute Type: uint32

Attribute Range: 1-524288

Attribute Name: max-threshold

Attribute Type: uint32

Attribute Range: 1-524288

Attribute Name: threshold-unit

Attribute Type: enum (packets|bytes|kbytes)

Attribute Name: drop-probability

Attribute Type: uint8

Attribute Range: 1-100

Attribute Name: explicit-congestion-notification

Attribute Type: empty

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <policy-map-name>NAME</policy-map-name>
        <config>
          <policy-map-name>NAME</policy-map-name>
        </config>
      </policy-map>
    </policy-maps>
  </global>
  <classes>
    <class>
      <class-map-name>NAME</class-map-name>
      <config>
        <class-map-name>NAME</class-map-name>
      </config>
      <queue-mode>
        <red>
          <wred>
            <config>
              <max-threshold>1</max-threshold> <!-- operation="delete"-->
              <threshold-unit>packets</threshold-unit> <!-- operation="delete"-->
              <drop-probability>1</drop-probability> <!-- operation="delete"-->
              </explicit-congestion-notification><!-- operation="delete"-->
              <min-threshold>1</min-threshold> <!-- operation="delete"-->
            </config>
          </wred>
        </red>
      </queue-mode>
    </class>
  </classes>
</qos>
```

```
</wred>  
</red>  
</queue-mode>  
</class>  
</classes>  
</policy-map>  
</policy-maps>  
</global>  
</qos>
```

Command Syntax

```
random-detect <1-524288> <1-524288> (packets|bytes|kbytes) (drop-probability <1-100>|) (ecn|)
```

Configure min threshold

Use this attribute to set Weighted Random Early Detection minimum threshold

Attribute Name: min-threshold

Attribute Type: uint32

Attribute Range: 1-524288

Attribute Name: max-threshold

Attribute Type: uint32

Attribute Range: 1-524288

Attribute Name: drop-probability

Attribute Type: uint8

Attribute Range: 1-100

Attribute Name: min-threshold-yellow

Attribute Type: uint32

Attribute Range: 1-524288

Attribute Name: max-threshold-yellow

Attribute Type: uint32

Attribute Range: 1-524288

Attribute Name: drop-probability-yellow

Attribute Type: uint8

Attribute Range: 1-100

Attribute Name: min-threshold-red

Attribute Type: uint32

Attribute Range: 1-524288

Attribute Name: max-threshold-red

Attribute Type: uint32

Attribute Range: 1-524288

Attribute Name: drop-probability-red

Attribute Type: uint8

Attribute Range: 1-100

Attribute Name: threshold-unit

Attribute Type: enum (packets|bytes|kbytes)

Attribute Name: explicit-congestion-notification

Attribute Type: empty

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <policy-map-name>NAME</policy-map-name>
        <config>
          <policy-map-name>NAME</policy-map-name>
        </config>
      </policy-map>
    </policy-maps>
    <classes>
      <class>
        <class-map-name>NAME</class-map-name>
        <config>
          <class-map-name>NAME</class-map-name>
          <queue-mode>
            <red>
              <wred>
                <config>
                  <max-threshold>1</max-threshold> <!-- operation="delete"-->
                  <drop-probability>1</drop-probability> <!-- operation="delete"-->
                  <min-threshold-yellow>1</min-threshold-yellow> <!-- operation="delete"-->
                  <max-threshold-yellow>1</max-threshold-yellow> <!-- operation="delete"-->
                  <drop-probability-yellow>1</drop-probability-yellow> <!--
operation="delete"-->
                  <min-threshold-red>1</min-threshold-red> <!-- operation="delete"-->
                  <max-threshold-red>1</max-threshold-red> <!-- operation="delete"-->
                  <drop-probability-red>1</drop-probability-red> <!-- operation="delete"-->
                  <threshold-unit>packets</threshold-unit> <!-- operation="delete"-->
                  </explicit-congestion-notification><!-- operation="delete"-->
                  <min-threshold>1</min-threshold> <!-- operation="delete"-->
                </config>
              </wred>
            </red>
          </queue-mode>
        </class>
      </classes>
    </class>
  </policy-map>
</policy-maps>
</global>
```

```
</qos>
```

Command Syntax

```
random-detect green <1-524288> <1-524288> (drop-probability <1-100>|) yellow <1-524288> <1-524288> (drop-probability <1-100>|) red <1-524288> <1-524288> (drop-probability <1-100>|) (packets|bytes|kbytes) (ecn|)
```

Configure min threshold

Use this attribute to set Weighted Random Early Detection minimum threshold

Attribute Name: min-threshold

Attribute Type: uint32

Attribute Range: 1-524288

Attribute Name: max-threshold

Attribute Type: uint32

Attribute Range: 1-524288

Attribute Name: threshold-unit

Attribute Type: enum (packets|bytes|kbytes)

Attribute Name: drop-probability

Attribute Type: uint8

Attribute Range: 1-100

Attribute Name: explicit-congestion-notification

Attribute Type: empty

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <policy-map-name>NAME</policy-map-name>
        <config>
          <policy-map-name>NAME</policy-map-name>
        </config>
      </policy-map>
    </policy-maps>
    <classes>
      <class>
        <class-map-name>NAME</class-map-name>
        <config>
          <class-map-name>NAME</class-map-name>
        </config>
        <queue-mode>
          <red>
          <wred>
        </config>
        <max-threshold>1</max-threshold> <!-- operation="delete"-->
        <threshold-unit>packets</threshold-unit> <!-- operation="delete"-->
      </class>
    </classes>
  </global>
</qos>
```

```
        <drop-probability>1</drop-probability> <!-- operation="delete"-->
        </explicit-congestion-notification><!-- operation="delete"-->
        <min-threshold>1</min-threshold> <!-- operation="delete"-->
    </config>
</wred>
</red>
</queue-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
random-detect min-threshold <1-524288> max-threshold <1-524288>
    (packets|bytes|kbytes) (drop-probability <1-100>|) (ecn|)
```

Configure min threshold

Use this attribute to set Weighted Random Early Detection minimum threshold

Attribute Name: min-threshold

Attribute Type: uint32

Attribute Range: 1-524288

Attribute Name: max-threshold

Attribute Type: uint32

Attribute Range: 1-524288

Attribute Name: drop-probability

Attribute Type: uint8

Attribute Range: 1-100

Attribute Name: min-threshold-yellow

Attribute Type: uint32

Attribute Range: 1-524288

Attribute Name: max-threshold-yellow

Attribute Type: uint32

Attribute Range: 1-524288

Attribute Name: drop-probability-yellow

Attribute Type: uint8

Attribute Range: 1-100

Attribute Name: min-threshold-red

Attribute Type: uint32

Attribute Range: 1-524288

Attribute Name: max-threshold-red

Attribute Type: uint32

Attribute Range: 1-524288

Attribute Name: drop-probability-red

Attribute Type: uint8

Attribute Range: 1-100

Attribute Name: threshold-unit

Attribute Type: enum (packets|bytes|kbytes)

Attribute Name: explicit-congestion-notification

Attribute Type: empty

Netconf edit-config payload

```

<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <policy-maps>
      <policy-map>
        <policy-map-name>NAME</policy-map-name>
        <config>
          <policy-map-name>NAME</policy-map-name>
        </config>
      <classes>
        <class>
          <class-map-name>NAME</class-map-name>
          <config>
            <class-map-name>NAME</class-map-name>
          </config>
          <queue-mode>
            <red>
              <wred>
                <config>
                  <max-threshold>1</max-threshold> <!-- operation="delete"-->
                  <drop-probability>1</drop-probability> <!-- operation="delete"-->
                  <min-threshold-yellow>1</min-threshold-yellow> <!-- operation="delete"-->
                  <max-threshold-yellow>1</max-threshold-yellow> <!-- operation="delete"-->
                  <drop-probability-yellow>1</drop-probability-yellow> <!--
operation="delete"-->
                  <min-threshold-red>1</min-threshold-red> <!-- operation="delete"-->
                  <max-threshold-red>1</max-threshold-red> <!-- operation="delete"-->
                  <drop-probability-red>1</drop-probability-red> <!-- operation="delete"-->
                  <threshold-unit>packets</threshold-unit> <!-- operation="delete"-->
                  </explicit-congestion-notification><!-- operation="delete"-->
                  <min-threshold>1</min-threshold> <!-- operation="delete"-->
                </config>
              </wred>
            </red>
          </queue-mode>
        </class>

```

```
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
random-detect green min-threshold <1-524288> max-threshold <1-524288> (drop-
probability <1-100>|) yellow min-threshold <1-524288> max-threshold <1-524288>
(drop-probability <1-100>|) red min-threshold <1-524288> max-threshold <1-524288>
(drop-probability <1-100>|) (packets|bytes|kbytes) (ecn|)
```

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)

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
<global>
<policy-maps>
<policy-map>
  <policy-map-name>NAME</policy-map-name>
  <config>
    <policy-map-name>NAME</policy-map-name>
  </config>
</classes>
<class>
  <class-map-name>NAME</class-map-name>
  <config>
    <class-map-name>NAME</class-map-name>
  </config>
  <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>
</class>
</classes>
</policy-map>
</policy-maps>
```



```
</global>
</qos>
```

Command Syntax

```
queue-limit <1-524288> (packets|bytes|kbytes)
```

Configure rate value

Use this attribute to set a minimum bandwidth 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>
  <policy-map-name>NAME</policy-map-name>
  <config>
    <policy-map-name>NAME</policy-map-name>
  </config>
<classes>
<class>
  <class-map-name>NAME</class-map-name>
  <config>
    <class-map-name>NAME</class-map-name>
  </config>
  <queue-mode>
  <bandwidths>
  <bandwidth>
    <rate-type>kbps</rate-type>
    <config>
      <rate-type>kbps</rate-type>
      <rate-value>0</rate-value>
    </config>
    <rate-value>0</rate-value>
  </bandwidth>
</bandwidths>
</queue-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

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

Configure rate value

Use this attribute to set a minimum bandwidth 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>
        <policy-map-name>NAME</policy-map-name>
        <config>
          <policy-map-name>NAME</policy-map-name>
        </config>
      </policy-map>
    </policy-maps>
    <classes>
      <class>
        <class-map-name>NAME</class-map-name>
        <config>
          <class-map-name>NAME</class-map-name>
          <queue-mode>
            <bandwidths>
              <bandwidth>
                <rate-type>kbps</rate-type>
                <config>
                  <rate-type>kbps</rate-type>
                  <rate-value>0</rate-value>
                </config>
                <rate-value>0</rate-value>
              </bandwidth>
            </bandwidths>
          </queue-mode>
        </config>
      </class>
    </classes>
  </global>
</qos>
```

Command Syntax

```
bandwidth (percent) <1-100>
```

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>
  <policy-map-name>NAME</policy-map-name>
  <config>
    <policy-map-name>NAME</policy-map-name>
  </config>
</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>
    <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 <1-1000000000> (kbps|mbps|gbps)
```

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>
  <policy-map-name>NAME</policy-map-name>

```

```

    <config>
      <policy-map-name>NAME</policy-map-name>
    </config>
  </classes>
</class>
  <class-map-name>NAME</class-map-name>
  <config>
    <class-map-name>NAME</class-map-name>
  </config>
  <queue-mode>
  <shapes>
  <shape>
    <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 (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>
    <policy-map-name>NAME</policy-map-name>
    <config>
      <policy-map-name>NAME</policy-map-name>
    </config>
  </classes>
  </class>

```

```

    <class-map-name>NAME</class-map-name>
  <config>
    <class-map-name>NAME</class-map-name>
  </config>
  <qos-mode>
  <config>
    <priority>1</priority> <!-- operation="delete"-->
  </config>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>

```

Command Syntax

```
priority <1-1000>
```

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>
    <policy-map-name>NAME</policy-map-name>
    <config>
      <policy-map-name>NAME</policy-map-name>
    </config>
  </policy-map>
  </policy-maps>
  </global>
  <class>
    <class-map-name>NAME</class-map-name>
    <config>
      <class-map-name>NAME</class-map-name>
    </config>
  </class>
  <precedence-remark>WORD</precedence-remark> <!-- operation="delete"-->
</qos>

```

```
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
set precedence WORD
```

Configure 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>
        <policy-map-name>NAME</policy-map-name>
        <config>
          <policy-map-name>NAME</policy-map-name>
        </config>
      </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>
        <config>
          <cos-value>0</cos-value> <!-- operation="delete"-->
        </config>
      </qos-mode>
    </class>
  </classes>
</qos>
```

Command Syntax

```
set cos <0-7>
```

Configure cos remark only bridged

Use this attribute to enable remarking only bridged packets

Attribute Name: cos-remark-only-bridged

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>
        <policy-map-name>NAME</policy-map-name>
        <config>
          <policy-map-name>NAME</policy-map-name>
        </config>
      </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-remark-only-bridged>0</cos-remark-only-bridged> <!--
operation="delete"-->
          </config>
        </qos-mode>
      </class>
    </classes>
  </policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
set bridge 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>
  <policy-map-name>NAME</policy-map-name>
  <config>
    <policy-map-name>NAME</policy-map-name>
  </config>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
set dscp WORD
```

Configure dscp remark only bridged

Use this attribute to enable remarking only bridged packets. 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-remark-only-bridged

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>
  <policy-map-name>NAME</policy-map-name>
  <config>
    <policy-map-name>NAME</policy-map-name>
  </config>
</policy-map>
</policy-maps>
</global>
</qos>
```



```

<class>
  <class-map-name>NAME</class-map-name>
  <config>
    <class-map-name>NAME</class-map-name>
  </config>
  <qos-mode>
  <config>
    <dscp-remark-only-bridged>WORD</dscp-remark-only-bridged> <!--
operation="delete"-->
  </config>
</qos-mode>
</class>
</classes>
</policy-map>
</policy-maps>
</global>
</qos>

```

Command Syntax

```
set bridge dscp WORD
```

Configure 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>
    <policy-map-name>NAME</policy-map-name>
    <config>
      <policy-map-name>NAME</policy-map-name>
    </config>
  </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>
      <queue-id>0</queue-id> <!-- operation="delete"-->
    </config>
  </qos-mode>
  </class>
  </classes>
  </global>
</qos>

```

```
</classes>
</policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
set queue <0-7>
```

Configure queue remark only bridged

Use this attribute to enable remarking only bridged packets

Attribute Name: queue-remark-only-bridged

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>
        <policy-map-name>NAME</policy-map-name>
        <config>
          <policy-map-name>NAME</policy-map-name>
        </config>
      </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>
            <queue-remark-only-bridged>0</queue-remark-only-bridged> <!--
operation="delete"-->
          </config>
        </qos-mode>
      </class>
    </classes>
  </policy-map>
</policy-maps>
</global>
</qos>
```

Command Syntax

```
set bridge queue <0-7>
```

Configure qos group

Use this attribute to set action as change QoS group in the egress packet to the defined value

Attribute Name: qos-group

Attribute Type: uint16

Attribute Range: 1-2000

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
  <policy-maps>
  <policy-map>
    <policy-map-name>NAME</policy-map-name>
    <config>
      <policy-map-name>NAME</policy-map-name>
    </config>
  </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>
      <qos-group>1</qos-group> <!-- operation="delete"-->
    </config>
    </qos-mode>
  </class>
  </classes>
  </policy-map>
  </policy-maps>
  </global>
</qos>
```

Command Syntax

```
set qos-group <1-2000>
```

Configure non unicast queue weight

Use this attribute to set action as change qos wrr weight for non-uc queue in the egress to the defined value for matched packets

This command is supported when following feature are enabled QoS custom options1

Attribute Name: non-unicast-queue-weight

Attribute Type: uint8

Attribute Range: 1-127

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <scheduler-mode>
      <weighted-round-robins>
        <weighted-round-robin> <!-- operation="delete"-->
          <non-unicast-queue-weight>1</non-unicast-queue-weight>
          <config>
            <non-unicast-queue-weight>1</non-unicast-queue-weight>
            <unicast-queue-weight>1</unicast-queue-weight>
          </config>
          <unicast-queue-weight>1</unicast-queue-weight>
        </weighted-round-robin>
      </weighted-round-robins>
    </scheduler-mode>
  </global>
</qos>
```

Command Syntax

```
set qos wrr uc <1-127> non-uc <1-127>
```

Configure enabled

Use this attribute to set strict-priority for scheduler mode of L1 node to WRR

This command is supported when following feature are enabled QoS custom options1

Attribute Name: enabled

Attribute Type: empty

Netconf edit-config payload

```
<qos xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-qos">
  <global>
    <scheduler-mode>
      <strict-priority>
        <config>
          </enabled><!-- operation="delete"-->
        </config>
      </strict-priority>
    </scheduler-mode>
  </global>
</qos>
```

Command Syntax

```
set qos sp
```

clear qos statistics (interface IFNAME|) ((type qos|type qos input|type qos output|type queuing|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 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 all)|)
```

IPI-QOS-IF

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 dei

Use this command to enable/disable remarking of DEI set by the egress map

Attribute Name: dei

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>
    <dei>disable</dei> <!-- operation="delete"-->
  </config>
</remark>
</interface>
</interfaces>
</qos>
```

Command Syntax

```
qos remark dei (disable|enable)
```

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)

Attribute Name: burst-rate

Attribute Type: uint64

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>
          <burst-rate>1</burst-rate>
        </config>
      </traffic-shape>
    </interface>
  </interfaces>
</qos>
```

Command Syntax

```
shape rate <1-1000000000> (kbps|mbps|gbps) burst <2-1000000>
```

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)

Attribute Name: burst-rate

Attribute Type: uint64

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>
    <burst-rate>1</burst-rate>
  </config>
  </traffic-shape>
</interface>
</interfaces>
</qos>
```

Command Syntax

```
shape rate <1-1000000000> (kbps|mbps|gbps) burst <2-1000000>
```

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 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 color to dscp

Use this attribute to attach a Traffic-Class color to DSCP profile to the interface

This command is supported when following feature are enabled QoS Mapping profile

Attribute Name: queue-color-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>
    <queue-color-to-dscp>NAME</queue-color-to-dscp> <!-- operation="delete"-->
  >
    </config>
  </map-profile>
</interface>
</interfaces>
</qos>
```

Command Syntax

```
qos map-profile queue-color-to-dscp NAME
```

Configure queue to precedence

Use this attribute to attach a queue color to Precedence profile to the interface

This command is supported when following feature are enabled QoS Mapping profile

Attribute Name: queue-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>
    <queue-to-precedence>NAME</queue-to-precedence> <!-- operation="delete"-->
  >
    </config>
  </map-profile>
</interface>
</interfaces>
</qos>
```

Command Syntax

```
qos map-profile queue-to-precedence 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: 1-32

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 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: 1-32

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: 1-32

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-PLATFORM-TERMINAL-DEVICE

Configure slot index

Index to select a optical module slot.

This command is supported when following feature are enabled Coherent Optics

Attribute Name: slot-index

Attribute Type: uint8

Attribute Range: 1-255

Netconf edit-config payload

```
<terminal-device xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform-terminal-
device">
  <coherent-module> <!-- operation="delete"-->
    <slot-index>1</slot-index>
    <config>
      <slot-index>1</slot-index>
    </config>
  </coherent-module>
</terminal-device>
```

Command Syntax

```
coherent-module <1-255>
```

Configure service enable

Use this attribute to enable or disable service for controller optical module

This command is supported when following feature are enabled Coherent Optics

Attribute Name: service-enable

Attribute Type: empty

Netconf edit-config payload

```
<terminal-device xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform-terminal-
device">
  <coherent-module>
    <slot-index>1</slot-index>
    <config>
      <slot-index>1</slot-index>
    </config>
    </service-enable><!-- operation="delete"-->
  </coherent-module>
</terminal-device>
```

Command Syntax

```
enable
```

Configure description

Use this attribute to describe a coherent optical slot.

This command is supported when following feature are enabled Coherent Optics

Attribute Name: description

Attribute Type: string

Netconf edit-config payload

```
<terminal-device xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform-terminal-device">
  <coherent-module>
    <slot-index>1</slot-index>
    <config>
      <slot-index>1</slot-index>
    </config>
    <description>LINE</description> <!-- operation="delete"-->
  </coherent-module>
</terminal-device>
```

Command Syntax

```
description LINE
```

Configure network interface loopback type

Use this attribute to set all the network interfaces loopback type.

This command is supported when following feature are enabled Coherent Optics

Attribute Name: network-interface-loopback-type

Attribute Type: enum (none|shallow|deep)

Default Value: none

Netconf edit-config payload

```
<terminal-device xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform-terminal-device">
  <coherent-module>
    <slot-index>1</slot-index>
    <config>
      <slot-index>1</slot-index>
    </config>
    <network-interface-loopback-type>none</network-interface-loopback-type> <!--
operation="delete"-->
  </coherent-module>
</terminal-device>
```

Command Syntax

```
loopback-type network (shallow|deep)
```

Configure host interface loopback type

Use this attribute to set all the host interfaces loopback type.

This command is supported when following feature are enabled Coherent Optics

Attribute Name: host-interface-loopback-type

Attribute Type: enum (none|shallow|deep)

Default Value: none

Netconf edit-config payload

```
<terminal-device xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform-terminal-
device">
  <coherent-module>
    <slot-index>1</slot-index>
    <config>
      <slot-index>1</slot-index>
    </config>
    <host-interface-loopback-type>none</host-interface-loopback-type> <!--
operation="delete"-->
  </coherent-module>
</terminal-device>
```

Command Syntax

```
loopback-type host (shallow|deep)
```

Configure shutdown

Indicates if coherent optical module is shutdown or not.

This command is supported when following feature are enabled Coherent Optics

Attribute Name: shutdown

Attribute Type: empty

Netconf edit-config payload

```
<terminal-device xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform-terminal-
device">
  <coherent-module>
    <slot-index>1</slot-index>
    <config>
      <slot-index>1</slot-index>
    </config>
  <optical-port>
  <config>
    </shutdown><!-- operation="delete"-->
  </config>
</optical-port>
</coherent-module>
</terminal-device>
```

Command Syntax

```
shutdown
```

Configure net index

Index of network interface in a coherent optical module.

This command is supported when following feature are enabled Coherent Optics

Attribute Name: net-index

Attribute Type: uint8

Attribute Range: 0-15

Netconf edit-config payload

```
<terminal-device xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform-terminal-
device">
  <coherent-module>
    <slot-index>1</slot-index>
    <config>
      <slot-index>1</slot-index>
    </config>
  <network-interfaces>
  <interface> <!-- operation="delete"-->
    <net-index>0</net-index>
    <config>
      <net-index>0</net-index>
    </config>
  </interface>
</network-interfaces>
</coherent-module>
</terminal-device>
```

Command Syntax

```
network-interface <0-15>
```

Configure link down

Configure the link to go down when it exceeds threshold values.

Attribute Name: link-down

Attribute Type: bits (pre-fec-ber|q-margin|snr|chromatic-dispersion|rx-power)

Netconf edit-config payload

```
<terminal-device xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform-terminal-
device">
  <coherent-module>
    <slot-index>1</slot-index>
    <config>
      <slot-index>1</slot-index>
    </config>
```

```

<network-interfaces>
<interface>
  <net-index>0</net-index>
  <config>
    <net-index>0</net-index>
  </config>
  <link-down>31</link-down> <!-- operation="delete"-->
</interface>
</network-interfaces>
</coherent-module>
</terminal-device>

```

Command Syntax

```
link-down-policy all
```

Configure differential encoding

Enable differential encoding on a optical network interface.

This command is supported when following feature are enabled Coherent Optics

Attribute Name: differential-encoding

Attribute Type: empty

Netconf edit-config payload

```

<terminal-device xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform-terminal-
device">
  <coherent-module>
    <slot-index>1</slot-index>
    <config>
      <slot-index>1</slot-index>
    </config>
  <network-interfaces>
  <interface>
    <net-index>0</net-index>
    <config>
      <net-index>0</net-index>
    </config>
    </differential-encoding><!-- operation="delete"-->
  </interface>
  </network-interfaces>
</coherent-module>
</terminal-device>

```

Command Syntax

```
differential-encoding
```

Configure fec mode

FEC mode for network interface. Default is 15per-denali.

This command is supported when following feature are enabled Coherent Optics

Attribute Name: fec-mode

Attribute Type: enum (15per-everest|15per-denali|otu4-g709|otu4-7per-staircase|25per-hc-sd2)

Default Value: 15per-denali

Netconf edit-config payload

```
<terminal-device xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform-terminal-device">
  <coherent-module>
    <slot-index>1</slot-index>
    <config>
      <slot-index>1</slot-index>
    </config>
  <network-interfaces>
  <interface>
    <net-index>0</net-index>
    <config>
      <net-index>0</net-index>
      <fec-mode>15per-denali</fec-mode> <!-- operation="delete"-->
    </config>
  </interface>
</network-interfaces>
</coherent-module>
</terminal-device>
```

Command Syntax

```
fec-mode (15per-everest|15per-denali|otu4-g709|otu4-7per-staircase|25per-hc-sd2)
```

Configure frequency

Specifies the output laser frequency for the optical network interface in terms of Hz, MHz, GHz or THz.

This command is supported when following feature are enabled Coherent Optics

Attribute Name: frequency

Attribute Type: string

Netconf edit-config payload

```
<terminal-device xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform-terminal-device">
  <coherent-module>
    <slot-index>1</slot-index>
    <config>
      <slot-index>1</slot-index>
    </config>
  <network-interfaces>
  <interface>
    <net-index>0</net-index>
    <config>
      <net-index>0</net-index>
    </config>
  </interface>
</network-interfaces>
</coherent-module>
</terminal-device>
```

```

    </config>
      <frequency>FREQUENCY</frequency> <!-- operation="delete"-->
</interface>
</network-interfaces>
</coherent-module>
</terminal-device>

```

Command Syntax

```
tx-laser-freq FREQUENCY
```

Configure loopback type

Specifies the loopback type of the optical network interface. Default is none.

This command is supported when following feature are enabled Coherent Optics

Attribute Name: loopback-type

Attribute Type: enum (none|shallow|deep)

Default Value: none

Netconf edit-config payload

```

<terminal-device xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform-terminal-
device">
  <coherent-module>
    <slot-index>1</slot-index>
    <config>
      <slot-index>1</slot-index>
    </config>
  <network-interfaces>
    <interface>
      <net-index>0</net-index>
      <config>
        <net-index>0</net-index>
        <loopback-type>none</loopback-type> <!-- operation="delete"-->
      </config>
    </interface>
  </network-interfaces>
</coherent-module>
</terminal-device>

```

Command Syntax

```
loopback-type (shallow|deep)
```

Configure losi enabled

Enable loss of signal alarm on a network interface.

This command is supported when following feature are enabled Coherent Optics

Attribute Name: losi-enabled

Attribute Type: empty

Netconf edit-config payload

```
<terminal-device xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform-terminal-device">
  <coherent-module>
    <slot-index>1</slot-index>
    <config>
      <slot-index>1</slot-index>
    </config>
  </coherent-module>
  <network-interfaces>
  <interface>
    <net-index>0</net-index>
    <config>
      <net-index>0</net-index>
    </config>
    </losi-enabled><!-- operation="delete"-->
  </interface>
</network-interfaces>
</terminal-device>
```

Command Syntax

```
losi-enable
```

Configure modulation format

Specifies the modulation format of the optical signal. Default is dp-16-qam.

This command is supported when following feature are enabled Coherent Optics

Attribute Name: modulation-format

Attribute Type: enum (bpsk|dp-bpsk|qpsk|dp-qpsk|8-qam|dp-8-qam|16-qam|dp-16-qam|32-qam|dp-32-qam|64-qam|dp-64-qam)

Default Value: dp-16-qam

Netconf edit-config payload

```
<terminal-device xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform-terminal-device">
  <coherent-module>
    <slot-index>1</slot-index>
    <config>
      <slot-index>1</slot-index>
    </config>
  </coherent-module>
  <network-interfaces>
  <interface>
    <net-index>0</net-index>
    <config>
      <net-index>0</net-index>
      <modulation-format>dp-16-qam</modulation-format> <!-- operation="delete"-->
    </config>
  </interface>
</network-interfaces>
```

```
</coherent-module>
</terminal-device>
```

Command Syntax

```
modulation-format (bpsk|dp-bpsk|qpsk|dp-qpsk|8-qam|dp-8-qam|16-qam|dp-16-qam|32-
qam|dp-32-qam|64-qam|dp-64-qam)
```

Configure operational mode

Specifies the operational mode. The specified operational mode must exist in the list of supported operational modes supplied by the device

This command is supported when following feature are enabled Coherent Optics

Attribute Name: operational-mode

Attribute Type: uint16

Attribute Range: 1-6

Netconf edit-config payload

```
<terminal-device xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform-terminal-
device">
  <coherent-module>
    <slot-index>1</slot-index>
    <config>
      <slot-index>1</slot-index>
    </config>
  <network-interfaces>
    <interface>
      <net-index>0</net-index>
      <config>
        <net-index>0</net-index>
      </config>
      <operational-mode>1</operational-mode> <!-- operation="delete"-->
    </interface>
  </network-interfaces>
</coherent-module>
</terminal-device>
```

Command Syntax

```
operational-mode <1-6>
```

Configure prbs type

Simulate random data for transmission across the network interface if set. Default is none.

This command is supported when following feature are enabled Coherent Optics

Attribute Name: prbs-type

Attribute Type: enum (none|prbs7|prbs9|prbs11|prbs15|prbs20|prbs23|prbs31)

Default Value: none

Netconf edit-config payload

```
<terminal-device xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform-terminal-device">
  <coherent-module>
    <slot-index>1</slot-index>
    <config>
      <slot-index>1</slot-index>
    </config>
  </coherent-module>
  <network-interfaces>
  <interface>
    <net-index>0</net-index>
    <config>
      <net-index>0</net-index>
      <prbs-type>none</prbs-type> <!-- operation="delete"-->
    </config>
  </interface>
</network-interfaces>
</terminal-device>
```

Command Syntax

```
prbs-type (prbs7|prbs9|prbs11|prbs15|prbs20|prbs23|prbs31)
```

Configure pulse shaping rx

Enable or disable rx pulse shaping of the signal.

This command is supported when following feature are enabled Coherent Optics

Attribute Name: pulse-shaping-rx

Attribute Type: empty

Netconf edit-config payload

```
<terminal-device xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform-terminal-device">
  <coherent-module>
    <slot-index>1</slot-index>
    <config>
      <slot-index>1</slot-index>
    </config>
  </coherent-module>
  <network-interfaces>
  <interface>
    <net-index>0</net-index>
    <config>
      <net-index>0</net-index>
      <pulse-shaping-rx><!-- operation="delete"-->
    </config>
  </interface>
</network-interfaces>
</terminal-device>
```


Command Syntax

```
pulse-shaping rx
```

Configure pulse shaping tx

Use this attribute to to enable or disable pulse shaping

This command is supported when following feature are enabled Coherent Optics

Attribute Name: pulse-shaping-tx

Attribute Type: empty

Netconf edit-config payload

```

<terminal-device xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform-terminal-
device">
  <coherent-module>
    <slot-index>1</slot-index>
    <config>
      <slot-index>1</slot-index>
    </config>
  <network-interfaces>
  <interface>
    <net-index>0</net-index>
    <config>
      <net-index>0</net-index>
      </pulse-shaping-tx><!-- operation="delete"-->
    </config>
  </interface>
</network-interfaces>
</coherent-module>
</terminal-device>

```

Command Syntax

```
pulse-shaping tx
```

Configure soft tx disable

Disable transmission of data on a network interface.

This command is supported when following feature are enabled Coherent Optics

Attribute Name: soft-tx-disable

Attribute Type: empty

Netconf edit-config payload

```

<terminal-device xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform-terminal-
device">
  <coherent-module>
    <slot-index>1</slot-index>
    <config>
      <slot-index>1</slot-index>

```

```
</config>
<network-interfaces>
<interface>
  <net-index>0</net-index>
  <config>
    <net-index>0</net-index>
  </config>
  </soft-tx-disable><!-- operation="delete"-->
</interface>
</network-interfaces>
</coherent-module>
</terminal-device>
```

Command Syntax

```
soft-tx-disable
```

Configure target output power

Specifies the output power of the optical network interface.

This command is supported when following feature are enabled Coherent Optics

Attribute Name: target-output-power

Attribute Type: decimal64

Netconf edit-config payload

```
<terminal-device xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform-terminal-
device">
<coherent-module>
  <slot-index>1</slot-index>
  <config>
    <slot-index>1</slot-index>
  </config>
<network-interfaces>
<interface>
  <net-index>0</net-index>
  <config>
    <net-index>0</net-index>
    <target-output-power>POWER</target-output-power> <!-- operation="delete"-->
  </config>
</interface>
</network-interfaces>
</coherent-module>
</terminal-device>
```

Command Syntax

```
tx-output-power POWER
```

Configure link down

Configure the link to go down when it exceeds threshold values.

This command is supported when following feature are enabled Coherent Optics

Attribute Name: link-down

Attribute Type: bits (pre-fec-ber|q-margin|snr|chromatic-dispersion|rx-power)

Netconf edit-config payload

```
<terminal-device xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform-terminal-device">
  <coherent-module>
    <slot-index>1</slot-index>
    <config>
      <slot-index>1</slot-index>
    </config>
  <network-interfaces>
    <interface>
      <net-index>0</net-index>
      <config>
        <net-index>0</net-index>
        <link-down>pre-fec-ber</link-down> <!-- operation="delete"-->
      </config>
    </interface>
  </network-interfaces>
</coherent-module>
</terminal-device>
```

Command Syntax

```
link-down-policy {pre-fec-ber|q-margin|snr|chromatic-dispersion|rx-power}
```

Configure rx chromatic dispersion

Set rx chromatic-dispersion threshold.

This command is supported when following feature are enabled Coherent Optics

Attribute Name: rx-chromatic-dispersion

Attribute Type: string

Netconf edit-config payload

```
<terminal-device xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform-terminal-device">
  <coherent-module>
    <slot-index>1</slot-index>
    <config>
      <slot-index>1</slot-index>
    </config>
  <network-interfaces>
    <interface>
      <net-index>0</net-index>
      <config>
        <net-index>0</net-index>
      </config>
    </interface>
  </network-interfaces>
</coherent-module>
</terminal-device>
```

```
    <monitor-thresholds>
    <config>
        <rx-chromatic-dispersion>VALUE</rx-chromatic-dispersion> <!--
operation="delete"-->
    </config>
</monitor-thresholds>
</interface>
</network-interfaces>
</coherent-module>
</terminal-device>
```

Command Syntax

```
threshold chromatic-dispersion VALUE
```

Configure rx q margin

Set rx q-margin threshold.

This command is supported when following feature are enabled Coherent Optics

Attribute Name: rx-q-margin

Attribute Type: decimal64

Netconf edit-config payload

```
<terminal-device xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform-terminal-
device">
  <coherent-module>
    <slot-index>1</slot-index>
    <config>
      <slot-index>1</slot-index>
    </config>
  <network-interfaces>
  <interface>
    <net-index>0</net-index>
    <config>
      <net-index>0</net-index>
    </config>
    <monitor-thresholds>
    <config>
      <rx-q-margin>VALUE</rx-q-margin> <!-- operation="delete"-->
    </config>
  </monitor-thresholds>
</interface>
</network-interfaces>
</coherent-module>
</terminal-device>
```

Command Syntax

```
threshold q-margin VALUE
```

Configure rx snr

Set rx snr threshold.

This command is supported when following feature are enabled Coherent Optics

Attribute Name: rx-snr

Attribute Type: decimal64

Netconf edit-config payload

```
<terminal-device xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform-terminal-device">
  <coherent-module>
    <slot-index>1</slot-index>
    <config>
      <slot-index>1</slot-index>
    </config>
  <network-interfaces>
  <interface>
    <net-index>0</net-index>
    <config>
      <net-index>0</net-index>
    </config>
    <monitor-thresholds>
    <config>
      <rx-snr>VALUE</rx-snr> <!-- operation="delete"-->
    </config>
  </monitor-thresholds>
</interface>
</network-interfaces>
</coherent-module>
</terminal-device>
```

Command Syntax

```
threshold snr VALUE
```

Configure clear

Set pre fec ber threshold value for clear.

This command is supported when following feature are enabled Coherent Optics

Attribute Name: clear

Attribute Type: string

Netconf edit-config payload

```
<terminal-device xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform-terminal-device">
  <coherent-module>
    <slot-index>1</slot-index>
    <config>
      <slot-index>1</slot-index>
```

```

    </config>
<network-interfaces>
<interface>
    <net-index>0</net-index>
    <config>
        <net-index>0</net-index>
    </config>
    <monitor-thresholds>
    <pre-fec-ber-thresholds>
    <pre-fec-ber-threshold> <!-- operation="delete"-->
        <clear>VALUE</clear>
        <config>
            <clear>TERMINAL_DEVICE_SCIENTIFIC_NOTATION_STRING</clear>
            <signal-degrade>TERMINAL_DEVICE_SCIENTIFIC_NOTATION_STRING</signal-
degrade>
            <signal-failure>TERMINAL_DEVICE_SCIENTIFIC_NOTATION_STRING</signal-
failure>
        </config>
        <signal-degrade>VALUE</signal-degrade>
        <signal-failure>VALUE</signal-failure>
    </pre-fec-ber-threshold>
</pre-fec-ber-thresholds>
</monitor-thresholds>
</interface>
</network-interfaces>
</coherent-module>
</terminal-device>

```

Command Syntax

```
threshold pre-fec-ber signal-failure VALUE signal-degrade VALUE clear VALUE
```

Configure low alarm

Set input power threshold value for low alarm.

This command is supported when following feature are enabled Coherent Optics

Attribute Name: low-alarm

Attribute Type: decimal64

Netconf edit-config payload

```

<terminal-device xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform-terminal-
device">
    <coherent-module>
        <slot-index>1</slot-index>
        <config>
            <slot-index>1</slot-index>
        </config>
    <network-interfaces>
    <interface>
        <net-index>0</net-index>

```

```

<config>
  <net-index>0</net-index>
</config>
<monitor-thresholds>
<rx-power-thresholds>
<rx-power-threshold> <!-- operation="delete"-->
  <low-alarm>VALUE</low-alarm>
  <config>
    <low-alarm>CML_FLOAT_PRECISION_2_T</low-alarm>
    <low-warning>CML_FLOAT_PRECISION_2_T</low-warning>
    <high-warning>CML_FLOAT_PRECISION_2_T</high-warning>
    <high-alarm>CML_FLOAT_PRECISION_2_T</high-alarm>
  </config>
  <low-warning>VALUE</low-warning>
  <high-warning>VALUE</high-warning>
  <high-alarm>VALUE</high-alarm>
</rx-power-threshold>
</rx-power-thresholds>
</monitor-thresholds>
</interface>
</network-interfaces>
</coherent-module>
</terminal-device>

```

Command Syntax

```

threshold rx-power high-alarm VALUE high-warning VALUE low-warning VALUE low-alarm
VALUE

```

Configure host index

Index of host interface in a coherent optical module.

This command is supported when following feature are enabled Coherent Optics

Attribute Name: host-index

Attribute Type: uint8

Attribute Range: 0-15

Netconf edit-config payload

```

<terminal-device xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform-terminal-
device">
  <coherent-module>
    <slot-index>1</slot-index>
    <config>
      <slot-index>1</slot-index>
    </config>
  <host-interfaces>
  <interface> <!-- operation="delete"-->
    <host-index>0</host-index>
    <config>
      <host-index>0</host-index>

```

```
</config>
</interface>
</host-interfaces>
</coherent-module>
</terminal-device>
```

Command Syntax

```
host-interface <0-15>
```

Configure fec type

Fec type for host-interface. The default value is none.

This command is supported when following feature are enabled Coherent Optics

Attribute Name: fec-type

Attribute Type: enum (none|rs|fc)

Default Value: none

Netconf edit-config payload

```
<terminal-device xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform-terminal-
device">
  <coherent-module>
    <slot-index>1</slot-index>
    <config>
      <slot-index>1</slot-index>
    </config>
  </coherent-module>
  <host-interfaces>
    <interface>
      <host-index>0</host-index>
      <config>
        <host-index>0</host-index>
        <fec-type>none</fec-type> <!-- operation="delete"-->
      </config>
    </interface>
  </host-interfaces>
</terminal-device>
```

Command Syntax

```
fec-type (rs|fc)
```

Configure loopback type

Loopback type for host-interface. The default value is none.

This command is supported when following feature are enabled Coherent Optics

Attribute Name: loopback-type

Attribute Type: enum (none|shallow|deep)

Default Value: none

Netconf edit-config payload

```

<terminal-device xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform-terminal-
device">
  <coherent-module>
    <slot-index>1</slot-index>
    <config>
      <slot-index>1</slot-index>
    </config>
  <host-interfaces>
  <interface>
    <host-index>0</host-index>
    <config>
      <host-index>0</host-index>
      <loopback-type>none</loopback-type> <!-- operation="delete"-->
    </config>
  </interface>
</host-interfaces>
</coherent-module>
</terminal-device>

```

Command Syntax

```
loopback-type (shallow|deep)
```

Configure options

Set TAI debug for Module/Netif/Hostif in config mode.

This command is supported when following feature are enabled Coherent Optics

Attribute Name: options

Attribute Type: bits (module|netif|hostif|all)

Netconf edit-config payload

```

<terminal-device xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform-terminal-
device">
  <debug>
    <config>
      <options>module</options> <!-- operation="delete"-->
    </config>
  </debug>
</terminal-device>

```

Command Syntax

```
debug tai (module|netif|hostif|all)
```

debug tai (module|netif|hostif|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (module|netif|hostif|all)

Netconf RPC payload

```
<tai-terminal-debug-on xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform-terminal-device">
  <terminal-debug-options>module</terminal-debug-options>
</tai-terminal-debug-on>
```

Command Syntax

```
debug tai (module|netif|hostif|all)
```

no debug tai (module|netif|hostif|all)

Attribute Name: terminal-debug-options

Attribute Type: bits (module|netif|hostif|all)

Netconf RPC payload

```
<tai-terminal-debug-off xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform-terminal-device">
  <terminal-debug-options>module</terminal-debug-options>
</tai-terminal-debug-off>
```

Command Syntax

```
no debug tai (module|netif|hostif|all)
```

clear coherent-module (<1-255>|) event-counters

Attribute Name: slot-index

Attribute Type: uint8

Attribute Range: 1-255

Netconf RPC payload

```
<clear-coherent-module-event-counters xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform-terminal-device">
  <slot-index>1</slot-index>
</clear-coherent-module-event-counters>
```

Command Syntax

```
clear coherent-module (<1-255>|) event-counters
```

clear coherent-module (<1-255>|) error-counters

Attribute Name: slot-index

Attribute Type: uint8

Attribute Range: 1-255

Netconf RPC payload

```
<clear-coherent-module-error-counters xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform-terminal-device">
  <slot-index>1</slot-index>
```

```
</clear-coherent-module-error-counters>
```

Command Syntax

```
clear coherent-module (<1-255>|) error-counters
```

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>
```

```
</global>  
</components>
```

Command Syntax

```
ddm monitor interval <60-3600>
```

Configure vpiu control vlan

To set Video PIU Command VLAN.

Attribute Name: vpiu-control-vlan

Attribute Type: uint16

Attribute Range: 2-4094

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">  
<global>  
<config>  
  <vpiu-control-vlan>2</vpiu-control-vlan> <!-- operation="delete"-->  
</config>  
</global>  
</components>
```

Command Syntax

```
video-piu control-vlan <2-4094>
```

Configure service unsupported transceiver

To enable DDM Monitor for unsupported transceivers at user risk.

Attribute Name: service-unsupported-transceiver

Attribute Type: empty

Netconf edit-config payload

```
<components xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">  
<global>  
<config>  
  </service-unsupported-transceiver><!-- operation="delete"-->  
</config>  
</global>  
</components>
```

Command Syntax

```
service unsupported-transceiver
```

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 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-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>
</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-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>
  </global>
</components>
```

Command Syntax

```
cpu-core-usage warning <51-100> alarm <91-100>
```

Configure gps position disable

gps position 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>
```


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>
      <monitor-port>disable</monitor-port> <!-- operation="delete"-->
    </config>
  </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>
      </poe-enable><!-- operation="delete"-->
    </config>
  </interface>
</interfaces>
</components>
```

Command Syntax

```
poe-enable
```

Configure videopiu port

To enable VIDEO PIU for current transceiver.

This command is supported when following feature are disabled Tibit MicroPlug OLT feature

Attribute Name: videopiu-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>
      <videopiu-port>disable</videopiu-port> <!-- operation="delete"-->
    </config>
  </interface>
</interfaces>
</components>
```

Command Syntax

```
video-piu (disable|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>
      <transceiver-code>1000base-sx</transceiver-code> <!-- operation="delete"-->
    </config>
  </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>
      <wavelength>CML_WAVELENGTH_T</wavelength>
    </config>
  </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>
      </tx-disable><!-- operation="delete"-->
    </config>
  </interface>
</interfaces>
</components>
```

Command Syntax

```
tx-disable
```

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>
```

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
```

IPI-PLATFORM-PROFILE

Configure egress ipv6

Use this attribute to enable or disable Egress IPv6 filter groups. Disabling filter groups increases the configurable filter entries.

Attribute Name: egress-ipv6

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">  
<hardware-profile>  
<filters>  
<config>  
  <egress-ipv6>disable</egress-ipv6> <!-- operation="delete"-->  
</config>  
</filters>  
</hardware-profile>  
</profiles>
```

Command Syntax

```
hardware-profile filter egress-ipv6 (disable|enable)
```

Configure ingress ipv6 acl

Use this attribute to enable or disable Ingress IPv6 filter groups. Disabling filter groups increases the configurable filter entries.

Attribute Name: ingress-ipv6-acl

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <filters>
      <config>
        <ingress-ipv6-acl>disable</ingress-ipv6-acl> <!-- operation="delete"-->
      </config>
    </filters>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter ingress-ipv6 (disable|enable)
```

Configure ingress ipv4

Use this attribute to enable or disable Ingress IPv4 filter groups. Disabling filter groups increases the configurable filter entries.

Attribute Name: ingress-ipv4

Attribute Type: enum (disable|enable)

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <hardware-profile>
    <filters>
      <config>
        <ingress-ipv4>disable</ingress-ipv4> <!-- operation="delete"-->
      </config>
    </filters>
  </hardware-profile>
</profiles>
```

Command Syntax

```
hardware-profile filter ingress-ipv4 (disable|enable)
```

Configure ingress arp

Use this attribute to enable or disable Ingress ARP filter groups.

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 profile

This Object is to check forwarding profile limit

This command is supported when following feature are enabled bcm uft feature and following feature are disabled dune feature

Attribute Name: profile

Attribute Type: enum (l2-profile-one|l2-profile-two|l2-profile-three|l3-profile|l3-128bit-profile|lpm-profile|lpm-128bit-profile|custom-profile)

Default Value: l2-profile-three

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
<forwarding-profiles>
<config>
  <profile>l2-profile-three</profile> <!-- operation="delete"-->
</config>
</forwarding-profiles>
</profiles>
```

Command Syntax

```
forwarding profile (l2-profile-one|l2-profile-two|l2-profile-three|l3-profile|l3-
128bit-profile|lpm-profile)
```

Configure profile

This Object is to check forwarding profile limit

This command is supported when following feature are enabled bcm uft feature and following feature are disabled dune feature

Attribute Name: profile

Attribute Type: enum (l2-profile-one|l2-profile-two|l2-profile-three|l3-profile|l3-128bit-profile|lpm-profile|lpm-128bit-profile|custom-profile)

Default Value: l2-profile-three

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <forwarding-profiles>
    <config>
      <profile>l2-profile-three</profile> <!-- operation="delete"-->
    </config>
  </forwarding-profiles>
</profiles>
```

Command Syntax

```
forwarding profile (l2-profile-one|l2-profile-two|l2-profile-three|l3-profile|l3-
  128bit-profile|lpm-profile|lpm-128bit-profile|custom-profile)
```

Configure profile

This Object is to check forwarding profile limit

This command is supported when following feature are enabled bcm uft feature and following feature are disabled dune feature

Attribute Name: profile

Attribute Type: enum (l2-profile-one|l2-profile-two|l2-profile-three|l3-profile|l3-128bit-profile|lpm-profile|lpm-128bit-profile|custom-profile)

Default Value: l2-profile-three

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <forwarding-profiles>
    <config>
      <profile>l2-profile-three</profile> <!-- operation="delete"-->
    </config>
  </forwarding-profiles>
</profiles>
```

Command Syntax

```
forwarding profile (l2-profile-one|l2-profile-two|l2-profile-three|l3-profile|l3-
  128bit-profile|custom-profile)
```

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 rtag7
```

Configure hash

This Object is used to set (hash values)CRC

This command is supported when following feature are enabled broadcom feature

Attribute Name: hash

Attribute Type: enum (crc16-bisync|crc16-ccitt|crc32-lo|crc32-hi)

Netconf edit-config payload

```
<hardware xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <load-balance>
    <config>
      <hash>crc16-bisync</hash> <!-- operation="delete"-->
    </config>
  </load-balance>
</hardware>
```

Command Syntax

```
load-balance rtag7 hash (crc16-bisync|crc16-ccitt|crc32-lo|crc32-hi)
```

Configure macro flow based

macro-flow based dynamic hash selection

This command is supported when following feature are enabled broadcom feature

Attribute Name: macro-flow-based

Attribute Type: empty

Netconf edit-config payload

```
<hardware xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <load-balance>
    <config>
      </macro-flow-based><!-- operation="delete"-->
    </config>
  </load-balance>
</hardware>
```

Command Syntax

```
load-balance rtag7 macro-flow
```

Configure vlan based

This Object is set for Vlan based load balancing

This command is supported when following feature are enabled L2 feature,broadcom feature

Attribute Name: vlan-based

Attribute Type: empty

Attribute Name: dest-mac-based

Attribute Type: empty

Attribute Name: src-mac-based

Attribute Type: empty

Attribute Name: ether-type-based

Attribute Type: empty

Netconf edit-config payload

```
<hardware xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <load-balance>
    <l2>
      <config>
        </dest-mac-based><!-- operation="delete"-->
        </src-mac-based><!-- operation="delete"-->
        </ether-type-based><!-- operation="delete"-->
        </vlan-based><!-- operation="delete"-->
      </config>
    </l2>
  </load-balance>
</hardware>
```

Command Syntax

```
load-balance rtag7 l2 { dest-mac| src-mac| ether-type| vlan }
```

Configure symmetric

Symmetric load balancing

This command is supported when following feature are enabled L3 feature,broadcom feature

Attribute Name: symmetric

Attribute Type: empty

Attribute Name: src-ipv4-address-based

Attribute Type: empty

Attribute Name: dest-ipv4-address-based

Attribute Type: empty

Attribute Name: src-l4-port-based

Attribute Type: empty

Attribute Name: dest-l4-port-based

Attribute Type: empty

Attribute Name: protocol-id-based

Attribute Type: empty

Netconf edit-config payload

```
<hardware xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <load-balance>
    <ipv4>
      <config>
        </src-ipv4-address-based><!-- operation="delete"-->
        </dest-ipv4-address-based><!-- operation="delete"-->
        </src-l4-port-based><!-- operation="delete"-->
        </dest-l4-port-based><!-- operation="delete"-->
        </protocol-id-based><!-- operation="delete"-->
        </symmetric><!-- operation="delete"-->
      </config>
    </ipv4>
  </load-balance>
</hardware>
```

Command Syntax

```
load-balance rtag7 ipv4 { src-ipv4| dest-ipv4| srcl4-port| destl4-port| protocol-
  id| symmetric }
```

Configure symmetric

Symmetric load balancing

This command is supported when following feature are enabled L3 feature,broadcom feature

Attribute Name: symmetric

Attribute Type: empty

Attribute Name: src-ipv6-address-based

Attribute Type: empty

Attribute Name: dest-ipv6-address-based

Attribute Type: empty

Attribute Name: src-l4-port-based

Attribute Type: empty

Attribute Name: dest-l4-port-based

Attribute Type: empty

Attribute Name: next-header-based

Attribute Type: empty

Netconf edit-config payload

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

```

<load-balance>
<ipv6>
<config>
  </src-ipv6-address-based><!-- operation="delete"-->
  </dest-ipv6-address-based><!-- operation="delete"-->
  </src-l4-port-based><!-- operation="delete"-->
  </dest-l4-port-based><!-- operation="delete"-->
  </next-header-based><!-- operation="delete"-->
  </symmetric><!-- operation="delete"-->
</config>
</ipv6>
</load-balance>
</hardware>

```

Command Syntax

```

load-balance rtag7 ipv6 { src-ipv6| dest-ipv6| srcl4-port| destl4-port| next-hdr|
  symmetric }

```

Configure queue name

This attribute specifies CPU queue name for rate limiting config

Attribute Name: queue-name

Attribute Type: enum (best-effort|ipmc-miss|l3-miss|sflow|dhcp|nd|arp|igmp|bpdu|ccm|ptp|acl)

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>best-effort</queue-name>
        <config>
          <queue-name>best-effort</queue-name>
          <rate>0</rate> <!-- operation="delete"-->
        </config>
      </rate-limit>
    </rate-limits>
  </cpu-queue>
</hardware>

```

Command Syntax

```

cpu-queue (best-effort|ipmc-miss|l3-miss|sflow|dhcp|nd|arp|igmp|bpdu|ccm|ptp|acl)
  rate <0-100000>

```

Configure queue name

This attribute specifies CPU queue name for rate limiting config

Attribute Name: queue-name

Attribute Type: enum (best-effort|ipmc-miss|l3-miss|sflow|dhcp|nd|arp|igmp|bpdu|ccm|ptp|acl)

Attribute Name: monitor

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>best-effort</queue-name>
        <config>
          <queue-name>best-effort</queue-name>
          <monitor>no-monitor</monitor> <!-- operation="delete"-->
        </config>
      </rate-limit>
    </rate-limits>
  </cpu-queue>
</hardware>
```

Command Syntax

```
cpu-queue (best-effort|ipmc-miss|l3-miss|sflow|dhcp|nd|arp|igmp|bpdu|ccm|ptp|acl)
          (no-monitor|monitor)
```

Configure queue name

This attribute specifies CPU queue name for rate limiting config

Attribute Name: queue-name

Attribute Type: enum (best-effort|ipmc-miss|l3-miss|sflow|dhcp|nd|arp|igmp|bpdu|ccm|ptp|acl)

Attribute Name: lossy

Attribute Type: enum (lossless|lossy)

Netconf edit-config payload

```
<hardware xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <cpu-queue>
    <rate-limits>
      <rate-limit>
        <queue-name>best-effort</queue-name>
        <config>
          <queue-name>best-effort</queue-name>
          <lossy>lossless</lossy> <!-- operation="delete"-->
        </config>
      </rate-limit>
    </rate-limits>
  </cpu-queue>
</hardware>
```

```
</cpu-queue>
</hardware>
```

Command Syntax

```
cpu-queue (best-effort|ipmc-miss|l3-miss|sflow|dhcp|nd|arp|igmp|bpdu|ccm|ptp|acl)
(rate-lossless|lossy)
```

Configure queue name

This attribute specifies CPU queue name for rate limiting config

Attribute Name: queue-name

Attribute Type: enum (best-effort|ipmc-miss|l3-miss|sflow|dhcp|nd|arp|igmp|bpdu|ccm|ptp|acl)

Attribute Name: rate

Attribute Type: int32

Attribute Range: 0-100000

Attribute Name: monitor

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>best-effort</queue-name>
        <config>
          <queue-name>best-effort</queue-name>
          <rate>0</rate> <!-- operation="delete"-->
          <monitor>no-monitor</monitor> <!-- operation="delete"-->
        </config>
      </rate-limit>
    </rate-limits>
  </cpu-queue>
</hardware>
```

Command Syntax

```
cpu-queue (best-effort|ipmc-miss|l3-miss|sflow|dhcp|nd|arp|igmp|bpdu|ccm|ptp|acl)
rate <0-100000> (no-monitor|monitor)
```

Configure queue name

This attribute specifies CPU queue name for rate limiting config

Attribute Name: queue-name

Attribute Type: enum (best-effort|ipmc-miss|l3-miss|sflow|dhcp|nd|arp|igmp|bpdu|ccm|ptp|acl)

Attribute Name: rate

Attribute Type: int32

Attribute Range: 0-100000

Attribute Name: lossy

Attribute Type: enum (lossless|lossy)

Netconf edit-config payload

```
<hardware xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <cpu-queue>
    <rate-limits>
      <rate-limit>
        <queue-name>best-effort</queue-name>
        <config>
          <queue-name>best-effort</queue-name>
          <rate>0</rate> <!-- operation="delete"-->
          <lossy>lossless</lossy> <!-- operation="delete"-->
        </config>
      </rate-limit>
    </rate-limits>
  </cpu-queue>
</hardware>
```

Command Syntax

```
cpu-queue (best-effort|ipmc-miss|l3-miss|sflow|dhcp|nd|arp|igmp|bpdu|ccm|ptp|acl)
rate <0-100000> (lossless|lossy)
```

Configure queue name

This attribute specifies CPU queue name for rate limiting config

Attribute Name: queue-name

Attribute Type: enum (best-effort|ipmc-miss|l3-miss|sflow|dhcp|nd|arp|igmp|bpdu|ccm|ptp|acl)

Attribute Name: monitor

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>best-effort</queue-name>
        <config>
          <queue-name>best-effort</queue-name>
          <monitor>no-monitor</monitor> <!-- operation="delete"-->
          <rate>0</rate> <!-- operation="delete"-->
        </config>
      </rate-limit>
    </rate-limits>
  </cpu-queue>
</hardware>
```



```

</rate-limit>
</rate-limits>
</cpu-queue>
</hardware>

```

Command Syntax

```

cpu-queue (best-effort|ipmc-miss|l3-miss|sflow|dhcp|nd|arp|igmp|bpdu|ccm|ptp|acl)
(no-monitor|monitor) rate <0-100000>

```

Configure queue name

This attribute specifies CPU queue name for rate limiting config

Attribute Name: queue-name

Attribute Type: enum (best-effort|ipmc-miss|l3-miss|sflow|dhcp|nd|arp|igmp|bpdu|ccm|ptp|acl)

Attribute Name: monitor

Attribute Type: enum (no-monitor|monitor)

Attribute Name: lossy

Attribute Type: enum (lossless|lossy)

Netconf edit-config payload

```

<hardware xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <cpu-queue>
    <rate-limits>
      <rate-limit>
        <queue-name>best-effort</queue-name>
        <config>
          <queue-name>best-effort</queue-name>
          <monitor>no-monitor</monitor> <!-- operation="delete"-->
          <lossy>lossless</lossy> <!-- operation="delete"-->
        </config>
      </rate-limit>
    </rate-limits>
  </cpu-queue>
</hardware>

```

Command Syntax

```

cpu-queue (best-effort|ipmc-miss|l3-miss|sflow|dhcp|nd|arp|igmp|bpdu|ccm|ptp|acl)
(no-monitor|monitor) (lossless|lossy)

```

Configure queue name

This attribute specifies CPU queue name for rate limiting config

Attribute Name: queue-name

Attribute Type: enum (best-effort|ipmc-miss|l3-miss|sflow|dhcp|nd|arp|igmp|bpdu|ccm|ptp|acl)

Attribute Name: lossy

Attribute Type: enum (lossless|lossy)

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>best-effort</queue-name>
        <config>
          <queue-name>best-effort</queue-name>
          <lossy>lossless</lossy> <!-- operation="delete"-->
          <rate>0</rate> <!-- operation="delete"-->
        </config>
      </rate-limit>
    </rate-limits>
  </cpu-queue>
</hardware>
```

Command Syntax

```
cpu-queue (best-effort|ipmc-miss|l3-miss|sflow|dhcp|nd|arp|igmp|bpdu|ccm|ptp|acl)
(lossless|lossy) rate <0-100000>
```

Configure queue name

This attribute specifies CPU queue name for rate limiting config

Attribute Name: queue-name

Attribute Type: enum (best-effort|ipmc-miss|l3-miss|sflow|dhcp|nd|arp|igmp|bpdu|ccm|ptp|acl)

Attribute Name: lossy

Attribute Type: enum (lossless|lossy)

Attribute Name: monitor

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>best-effort</queue-name>
        <config>
          <queue-name>best-effort</queue-name>
          <lossy>lossless</lossy> <!-- operation="delete"-->
          <monitor>no-monitor</monitor> <!-- operation="delete"-->
        </config>
      </rate-limit>
    </rate-limits>
  </cpu-queue>
</hardware>
```

```
</cpu-queue>
</hardware>
```

Command Syntax

```
cpu-queue (best-effort|ipmc-miss|l3-miss|sflow|dhcp|nd|arp|igmp|bpdu|ccm|ptp|acl)
          (lossless|lossy) (no-monitor|monitor)
```

Configure queue name

This attribute specifies CPU queue name for rate limiting config

Attribute Name: queue-name

Attribute Type: enum (best-effort|ipmc-miss|l3-miss|sflow|dhcp|nd|arp|igmp|bpdu|ccm|ptp|acl)

Attribute Name: rate

Attribute Type: int32

Attribute Range: 0-100000

Attribute Name: monitor

Attribute Type: enum (no-monitor|monitor)

Attribute Name: lossy

Attribute Type: enum (lossless|lossy)

Netconf edit-config payload

```
<hardware xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <cpu-queue>
    <rate-limits>
      <rate-limit>
        <queue-name>best-effort</queue-name>
        <config>
          <queue-name>best-effort</queue-name>
          <rate>0</rate> <!-- operation="delete"-->
          <monitor>no-monitor</monitor> <!-- operation="delete"-->
          <lossy>lossless</lossy> <!-- operation="delete"-->
        </config>
      </rate-limit>
    </rate-limits>
  </cpu-queue>
</hardware>
```

Command Syntax

```
cpu-queue (best-effort|ipmc-miss|l3-miss|sflow|dhcp|nd|arp|igmp|bpdu|ccm|ptp|acl)
          rate <0-100000> (no-monitor|monitor) (lossless|lossy)
```

Configure queue name

This attribute specifies CPU queue name for rate limiting config

Attribute Name: queue-name

Attribute Type: enum (best-effort|ipmc-miss|l3-miss|sflow|dhcp|nd|arp|igmp|bpdu|ccm|ptp|acl)

Attribute Name: rate

Attribute Type: int32

Attribute Range: 0-100000

Attribute Name: lossy

Attribute Type: enum (lossless|lossy)

Attribute Name: monitor

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>best-effort</queue-name>
        <config>
          <queue-name>best-effort</queue-name>
          <rate>0</rate> <!-- operation="delete"-->
          <lossy>lossless</lossy> <!-- operation="delete"-->
          <monitor>no-monitor</monitor> <!-- operation="delete"-->
        </config>
      </rate-limit>
    </rate-limits>
  </cpu-queue>
</hardware>
```

Command Syntax

```
cpu-queue (best-effort|ipmc-miss|l3-miss|sflow|dhcp|nd|arp|igmp|bpdu|ccm|ptp|acl)
  rate <0-100000> (lossless|lossy) (no-monitor|monitor)
```

Configure queue name

This attribute specifies CPU queue name for rate limiting config

Attribute Name: queue-name

Attribute Type: enum (best-effort|ipmc-miss|l3-miss|sflow|dhcp|nd|arp|igmp|bpdu|ccm|ptp|acl)

Attribute Name: monitor

Attribute Type: enum (no-monitor|monitor)

Attribute Name: rate

Attribute Type: int32

Attribute Range: 0-100000

Attribute Name: lossy

Attribute Type: enum (lossless|lossy)

Netconf edit-config payload

```

<hardware xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <cpu-queue>
    <rate-limits>
      <rate-limit>
        <queue-name>best-effort</queue-name>
        <config>
          <queue-name>best-effort</queue-name>
          <monitor>no-monitor</monitor> <!-- operation="delete"-->
          <rate>0</rate> <!-- operation="delete"-->
          <lossy>lossless</lossy> <!-- operation="delete"-->
        </config>
      </rate-limit>
    </rate-limits>
  </cpu-queue>
</hardware>

```

Command Syntax

```

cpu-queue (best-effort|ipmc-miss|l3-miss|sflow|dhcp|nd|arp|igmp|bpdu|ccm|ptp|acl)
  (no-monitor|monitor) rate <0-100000> (lossless|lossy)

```

Configure queue name

This attribute specifies CPU queue name for rate limiting config

Attribute Name: queue-name

Attribute Type: enum (best-effort|ipmc-miss|l3-miss|sflow|dhcp|nd|arp|igmp|bpdu|ccm|ptp|acl)

Attribute Name: monitor

Attribute Type: enum (no-monitor|monitor)

Attribute Name: lossy

Attribute Type: enum (lossless|lossy)

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>best-effort</queue-name>
        <config>
          <queue-name>best-effort</queue-name>
          <monitor>no-monitor</monitor> <!-- operation="delete"-->
          <lossy>lossless</lossy> <!-- operation="delete"-->
          <rate>0</rate> <!-- operation="delete"-->
        </config>
      </rate-limit>
    </rate-limits>
  </cpu-queue>
</hardware>

```

```
</rate-limit>  
</rate-limits>  
</cpu-queue>  
</hardware>
```

Command Syntax

```
cpu-queue (best-effort|ipmc-miss|l3-miss|sflow|dhcp|nd|arp|igmp|bpdu|ccm|ptp|acl)  
  (no-monitor|monitor) (lossless|lossy) rate <0-100000>
```

Configure queue name

This attribute specifies CPU queue name for rate limiting config

Attribute Name: queue-name

Attribute Type: enum (best-effort|ipmc-miss|l3-miss|sflow|dhcp|nd|arp|igmp|bpdu|ccm|ptp|acl)

Attribute Name: lossy

Attribute Type: enum (lossless|lossy)

Attribute Name: rate

Attribute Type: int32

Attribute Range: 0-100000

Attribute Name: monitor

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>best-effort</queue-name>  
        <config>  
          <queue-name>best-effort</queue-name>  
          <lossy>lossless</lossy> <!-- operation="delete"-->  
          <rate>0</rate> <!-- operation="delete"-->  
          <monitor>no-monitor</monitor> <!-- operation="delete"-->  
        </config>  
      </rate-limit>  
    </rate-limits>  
  </cpu-queue>  
</hardware>
```

Command Syntax

```
cpu-queue (best-effort|ipmc-miss|l3-miss|sflow|dhcp|nd|arp|igmp|bpdu|ccm|ptp|acl)  
  (lossless|lossy) rate <0-100000> (no-monitor|monitor)
```

Configure queue name

This attribute specifies CPU queue name for rate limiting config

Attribute Name: queue-name

Attribute Type: enum (best-effort|ipmc-miss|l3-miss|sflow|dhcp|nd|arp|igmp|bpdu|ccm|ptp|acl)

Attribute Name: lossy

Attribute Type: enum (lossless|lossy)

Attribute Name: monitor

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>best-effort</queue-name>
        <config>
          <queue-name>best-effort</queue-name>
          <lossy>lossless</lossy> <!-- operation="delete"-->
          <monitor>no-monitor</monitor> <!-- operation="delete"-->
          <rate>0</rate> <!-- operation="delete"-->
        </config>
      </rate-limit>
    </rate-limits>
  </cpu-queue>
</hardware>
```

Command Syntax

```
cpu-queue (best-effort|ipmc-miss|l3-miss|sflow|dhcp|nd|arp|igmp|bpdu|ccm|ptp|acl)
  (lossless|lossy) (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 enable mac ageing timer

Use this command to enable or disable the MAC ageing timer calculation in control plane

Attribute Name: enable-mac-ageing-timer

Attribute Type: empty

Netconf edit-config payload

```
<hardware xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <mac-ageing>
  <config>
    </enable-mac-ageing-timer><!-- operation="delete"-->
  </config>
</mac-ageing>
</hardware>
```

Command Syntax

```
mac-ageing-display
```

Configure soc

Attribute to indicate the SoC running on this platform. This attribute cannot be configured.

Attribute Name: soc

Attribute Type: enum

(qax|qux|qmx|dnx|tomahawk|tomahawk2|tomahawk3|tomahawkplus|trident2|trident2plus|trident3|helix4|saber2|maverick2|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|unknown)

```

Configure lpm banks

Use this attribute to set Sets memory allocation profile - Use 'show forwarding profile limit' to check size

This command is supported when following feature are enabled bcm uft feature and following feature are disabled dune feature

Attribute Name: lpm-banks

Attribute Type: enum (2)

Attribute Name: l2-banks

Attribute Type: uint8

Attribute Range: 1-24

Attribute Name: l3-banks

Attribute Type: uint8

Attribute Range: 1-23

Netconf edit-config payload

```

<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <forwarding-profiles>
    <custom-profile>
      <config>
        <l2-banks>1</l2-banks> <!-- operation="delete"-->
        <l3-banks>1</l3-banks> <!-- operation="delete"-->
        <lpm-banks>2</lpm-banks> <!-- operation="delete"-->
      </config>
    </custom-profile>
  </forwarding-profiles>
</profiles>

```

Command Syntax

```

forwarding custom-profile { l2-banks <1-24>| l3-banks <1-23>| lpm-banks (2) }

```

Configure ep vlan xlate banks

Use this attribute to set Sets memory allocation profile - Use 'show forwarding profile limit' to check size

This command is supported when following feature are enabled bcm uft feature and following feature are disabled dune feature

Attribute Name: ep-vlan-xlate-banks

Attribute Type: uint8

Attribute Range: 1-23

Attribute Name: l2-banks

Attribute Type: uint8

Attribute Range: 1-24

Attribute Name: l3-banks

Attribute Type: uint8

Attribute Range: 1-23

Attribute Name: vlan-xlate-banks

Attribute Type: uint8

Attribute Range: 1-23

Netconf edit-config payload

```
<profiles xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <forwarding-profiles>
    <custom-profile>
      <config>
        <l2-banks>1</l2-banks> <!-- operation="delete"-->
        <l3-banks>1</l3-banks> <!-- operation="delete"-->
        <vlan-xlate-banks>1</vlan-xlate-banks> <!-- operation="delete"-->
        <ep-vlan-xlate-banks>1</ep-vlan-xlate-banks> <!-- operation="delete"-->
      </config>
    </custom-profile>
  </forwarding-profiles>
</profiles>
```

Command Syntax

```
forwarding custom-profile { l2-banks <1-24>| l3-banks <1-23>| vlan-xlate-banks <1-23>| ep-vlan-xlate-banks <1-23> }
```

Configure outer l3 header

Used to set Load balance tunneled packets based on outer header

This command is supported when following feature are enabled L3 feature and following feature are disabled dune feature

Attribute Name: outer-l3-header

Attribute Type: empty

Netconf edit-config payload

```
<hardware xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <load-balance>
    <tunnel>
      <config>
        </outer-l3-header><!-- operation="delete"-->
      </config>
    </tunnel>
  </load-balance>
</hardware>
```

```

</tunnel>
</load-balance>
</hardware>

```

Command Syntax

```
load-balance rtag7 tunnel outer-l3-header
```

Configure type

This Object is used to set LACP port-channel load-balancing and set port selection criteria (PSC) on an interface

This command is supported when following feature are enabled lacp feature and following feature are disabled dune feature

Attribute Name: type

Attribute Type: enum (dst-mac|src-mac|src-dst-mac|src-ip|dst-ip|src-dst-ip|rtag7)

Netconf edit-config payload

```

<hardware xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-platform">
  <load-balance>
    <port-channel>
      <interfaces>
        <interface>
          <name>WORD</name>
          <config>
            <name>WORD</name>
          </config>
          <type>dst-mac</type> <!-- operation="delete"-->
        </interface>
      </interfaces>
    </port-channel>
  </load-balance>
</hardware>

```

Command Syntax

```
port-channel load-balance (dst-mac|src-mac|src-dst-mac|src-ip|dst-ip|src-dst-
ip|rtag7)
```

IPI-PLATFORM-CMIS

Configure fp port

Front port panel number

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>PORTNUM</fp-port>
  <config>
    <fp-port>0</fp-port>
  </config>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
qsfp-dd PORTNUM
```

Configure application

Application configuration

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>PORTNUM</fp-port>
    <config>
      <fp-port>0</fp-port>
    </config>
    <application>2</application> <!-- operation="delete"-->
  </qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
application <2-15>
```

Configure type

PRBS pattern type for generator/checker

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>PORTNUM</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

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>PORTNUM</fp-port>
  <config>
    <fp-port>0</fp-port>
  </config>
</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 type

PRBS pattern type for generator/checker

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>PORTNUM</fp-port>
  <config>
    <fp-port>0</fp-port>
  </config>
</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 location

PRBS pattern generator/checker location

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>PORTNUM</fp-port>
  <config>
    <fp-port>0</fp-port>
  </config>
</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 type

Loopback type

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>PORTNUM</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 type

PRBS pattern type for generator/checker

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>PORTNUM</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 location

PRBS pattern generator/checker location

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>PORTNUM</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 type

PRBS pattern type for generator/checker

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>PORTNUM</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 location

PRBS pattern generator/checker location

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>PORTNUM</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 type

Loopback type

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>PORTNUM</fp-port>
  <config>
    <fp-port>0</fp-port>
  </config>
</media>
</loopback>
<config>
  <type>in</type> <!-- operation="delete"-->
</config>
</loopback>
</media>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
loopback (in|out|both) media
```

Configure channel

Channel number

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>PORTNUM</fp-port>
  <config>
    <fp-port>0</fp-port>
  </config>
</laser>
<config>
  <channel>0</channel>
</config>
</laser>
</qsfp-dd>
</qsfp-dds>
```

Command Syntax

```
laser channel <-32768-32767>
```

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-AUTHENTICATION

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 Xsuplicant 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>
</dot1x-interface>
</dot1x-interfaces>
<authenticator-pae>
<config>
  <quiet-period>1</quiet-period> <!-- operation="delete"-->
</config>
</authenticator-pae>
</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>
    <authenticator-pae>
      <config>
        <max-reauth-value>1</max-reauth-value> <!-- operation="delete"-->
      </config>
    </authenticator-pae>
  </dot1x-interface>
</dot1x-interfaces>
</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>
    <authenticator-pae>
      <config>
        <interval-period>1</interval-period> <!-- operation="delete"-->
      </config>
    </authenticator-pae>
  </dot1x-interface>
</dot1x-interfaces>
```

```
</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 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>
<authenticator-be>
<config>
    <supplicant-timeout>1</supplicant-timeout> <!-- operation="delete"-->
</config>
</authenticator-be>
</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>
  <authenticator-be>
    <config>
      <server-timeout>1</server-timeout> <!-- operation="delete"-->
    </config>
  </authenticator-be>
</authentication>
```

Command Syntax

```
dot1x timeout server-timeout <1-65535>
```

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)
```

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>
```

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: 18-130

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>

```

```
</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>
</hosts>
</authentication-radius>
```

```

    <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 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 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: 18-130

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>
    <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)

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 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)

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 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)

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 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)

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 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 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>
    <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)

Attribute Name: monitor-action-default

Attribute Type: enum (log|sample)

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>
```

```

    <default-actions>
    <config>
        <monitor-action-default>log</monitor-action-default> <!-- operation="delete"-
->
        <forwarding-action-default>deny-all</forwarding-action-default> <!--
operation="delete"-->
    </config>
</default-actions>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```
default (deny-all|permit-all) ((log|sample)|)
```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
    <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
    <vlan-id>1</vlan-id> <!-- operation="delete"-->
    <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
    <monitor-action>log</monitor-action> <!-- operation="delete"-->
    <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
  </config>
</ipv4>
</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)
({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|) (inner-vlan <1-4094>|)
((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
          <monitor-action>log</monitor-action> <!-- operation="delete"-->
          <redirect-interface-name>IFNAME</redirect-interface-name> <!--
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) 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>|) ((log|sample|)) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
    <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"-->
    <monitor-action>log</monitor-action> <!-- operation="delete"-->
    <redirect-interface-name>IFNAME</redirect-interface-name> <!--
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>|)
((log|sample)|) (redirect-to-port IFNAME|)
```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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: fragments
 Attribute Type: empty
 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
 Attribute Name: inner-vlan-id
 Attribute Type: uint16
 Attribute Range: 1-4094
 Attribute Name: monitor-action
 Attribute Type: enum (log|sample)

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"-->
          </fragments><!-- operation="delete"-->
          <tcp-flags>ack</tcp-flags> <!-- 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"-->
        <monitor-action>log</monitor-action> <!-- operation="delete"-->
        <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
    </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
<1-268435453>|) (deny|permit) tcp (any) (any) fragments
({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|) (inner-vlan <1-4094>|)
((log|sample)|) (redirect-to-port IFNAME|)
```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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: fragments

Attribute Type: empty

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
          </fragments><!-- 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"-->
          <monitor-action>log</monitor-action> <!-- operation="delete"-->
          <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any) (any) fragments 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>|) ((log|sample)|) (redirect-to-port IFNAME|)
```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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: fragments

Attribute Type: empty

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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-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"-->
  </fragments><!-- 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"-->
  <monitor-action>log</monitor-action> <!-- operation="delete"-->
  <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
  </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) (any) fragments precedence
(routine|priority|immediate|flash|flashoverride|critical|internet|network)
({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|) (inner-vlan <1-4094>|)
((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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|neq|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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
          <monitor-action>log</monitor-action> <!-- operation="delete"-->
          <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl>
```



```

</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) (any) (eq|neq|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|drip|<0-65535>)
({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|) (inner-vlan <1-4094>|)
((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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|neq|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|drip)

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
          <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"-->
          <monitor-action>log</monitor-action> <!-- operation="delete"-->
          <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any) (any) (eq|neq|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|drip) 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>|) ((log|sample)|) (redirect-to-port IFNAME|)
```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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|neq|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|drip)

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
          <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
          <monitor-action>log</monitor-action> <!-- operation="delete"-->
          <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) (any) (eq|neq|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|drip) precedence
(routine|priority|immediate|flash|flashoverride|critical|internet|network)

```

```
{ack|established|fin|psh|rst|syn|urg}||) (vlan <1-4094>|) (inner-vlan <1-4094>|)
((log|sample)|) (redirect-to-port IFNAME|)
```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
        <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"-->
        <monitor-action>log</monitor-action> <!-- operation="delete"-->
        <redirect-interface-name>IFNAME</redirect-interface-name> <!--
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>|)
((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
        <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"-->
        <monitor-action>log</monitor-action> <!-- operation="delete"-->
        <redirect-interface-name>IFNAME</redirect-interface-name> <!--
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>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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-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"-->
            <monitor-action>log</monitor-action> <!-- operation="delete"-->
          </config>
        </ipv4>
      </acl-entry>
    </acl-entries>
  </acl-sets>
</acl>
```

```

        <redirect-interface-name>IFNAME</redirect-interface-name> <!--
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>|)
((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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|neq|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|neq|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|drip)

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
            <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"-->
          <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"-->
          <monitor-action>log</monitor-action> <!-- operation="delete"-->
          <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
        </config>
      </ipv4>
    </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|neq|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|drip|<0-65535>) (any)
(eq|neq|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|drip) 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>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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|neq|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|drip)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|neq|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|drip)

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
            <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"-->
            <monitor-action>log</monitor-action> <!-- operation="delete"-->
          </config>
        </ipv4>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>
```

```

        <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
    </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) (eq|neq|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|drip) (any) (eq|neq|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|drip)
({ack|established|fin|psh|rst|syn|urg|}) (vlan <1-4094>|) (inner-vlan <1-4094>|)
((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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|neq|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|drip)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|neq|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|drip)

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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-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"-->
          <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
          <tcp-destination-port>echo</tcp-destination-port> <!--
operation="delete"-->
          <precedence>routine</precedence> <!-- operation="delete"-->
        </config>
      </acl-entry>
    </acl-entries>
  </acl-sets>
</acl>
```

```

        <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
        <monitor-action>log</monitor-action> <!-- operation="delete"-->
        <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
    </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) (eq|neq|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|drip) (any) (eq|neq|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|drip) precedence
(routine|priority|immediate|flash|flashoverride|critical|internet|network)
({ack|established|fin|psh|rst|syn|urg|}) (vlan <1-4094>|) (inner-vlan <1-4094>|)
((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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|neq|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|drip)

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
            <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"-->
        </ipv4>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>
```

```

        <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"-->
        <monitor-action>log</monitor-action> <!-- operation="delete"-->
        <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
    </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) (eq|neq|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|drip) (any) range <0-65535> <0-
65535> ({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|) (inner-vlan <1-
4094>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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|neq|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|drip)

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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>
      </ipv4>
      <tcp-source-port>echo</tcp-source-port> <!-- operation="delete"-->
      <destination-address>any</destination-address> <!-- operation="delete"-->
    </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"-->
        <monitor-action>log</monitor-action> <!-- operation="delete"-->
        <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
    </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) (eq|neq|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|drip) (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>|) ((log|sample|)) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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|neq|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|drip)

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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>
```

```

>         <source-port-operator>eq</source-port-operator> <!-- operation="delete"-->
</pre>


```

 <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"-->
 <vlan-id>1</vlan-id> <!-- operation="delete"-->
 <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
 <monitor-action>log</monitor-action> <!-- operation="delete"-->
 <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
</config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```


```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) (eq|neq|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|drip) (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>|)
((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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|neq|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|drip)

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
        <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
        <monitor-action>log</monitor-action> <!-- operation="delete"-->
      </config>
    </acl-entry>
  </acl-entries>
</acl>
```

```

        <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
    </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) (eq|neq|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|drip) (any)
({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|) (inner-vlan <1-4094>|)
((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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|neq|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|drip)

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
            <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"-->
          <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"-->
          <monitor-action>log</monitor-action> <!-- operation="delete"-->
          <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any) (eq|neq|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|drip) (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>|) ((log|sample)|) (redirect-to-port IFNAME|)
```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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|neq|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|drip)

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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-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"-->
    <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"-->
    <monitor-action>log</monitor-action> <!-- operation="delete"-->
    <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
  </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any) (eq|neq|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|drip) (any) precedence
(routine|priority|immediate|flash|flashoverride|critical|internet|network)
({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|) (inner-vlan <1-4094>|)
((log|sample)|) (redirect-to-port IFNAME|)
```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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|neq|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|drip)

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
    <tcp-flags>ack</tcp-flags> <!-- operation="delete"-->
    <vlan-id>1</vlan-id> <!-- operation="delete"-->
    <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
    <monitor-action>log</monitor-action> <!-- operation="delete"-->
    <redirect-interface-name>IFNAME</redirect-interface-name> <!--
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|neq|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|drip)
({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|) (inner-vlan <1-4094>|)
((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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|neq|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|drip)

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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-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"-->
    <monitor-action>log</monitor-action> <!-- operation="delete"-->
    <redirect-interface-name>IFNAME</redirect-interface-name> <!--
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|neq|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|drip) 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>|) ((log|sample)|) (redirect-to-port IFNAME|)
```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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|neq|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|drip)

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
    <monitor-action>log</monitor-action> <!-- operation="delete"-->
    <redirect-interface-name>IFNAME</redirect-interface-name> <!--
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|neq|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|drip) precedence
(routine|priority|immediate|flash|flashoverride|critical|internet|network)
({ack|established|fin|psh|rst|syn|urg|}) (vlan <1-4094>|) (inner-vlan <1-4094>|)
((log|sample)|) (redirect-to-port IFNAME|)
```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
          <monitor-action>log</monitor-action> <!-- operation="delete"-->
          <redirect-interface-name>IFNAME</redirect-interface-name> <!--
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>|) ((log|sample)|) (redirect-to-port IFNAME|)
```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
            <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"-->
            <monitor-action>log</monitor-action> <!-- operation="delete"-->
            <redirect-interface-name>IFNAME</redirect-interface-name> <!--
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>|) ((log|sample)|) (redirect-to-port IFNAME|)
```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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-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"-->
            <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"-->
            <monitor-action>log</monitor-action> <!-- operation="delete"-->
            <redirect-interface-name>IFNAME</redirect-interface-name> <!--
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>|)
((log|sample)|) (redirect-to-port IFNAME|)
```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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-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"-->
    <monitor-action>log</monitor-action> <!-- operation="delete"-->
    <redirect-interface-name>IFNAME</redirect-interface-name> <!--
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>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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-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"-->
      <monitor-action>log</monitor-action> <!-- operation="delete"-->
      <redirect-interface-name>IFNAME</redirect-interface-name> <!--
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>|)
((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl>
```

```

    <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"-->
    <monitor-action>log</monitor-action> <!-- operation="delete"-->
    <redirect-interface-name>IFNAME</redirect-interface-name> <!--
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>|)
((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
          <monitor-action>log</monitor-action> <!-- operation="delete"-->
          <redirect-interface-name>IFNAME</redirect-interface-name> <!--
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>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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-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"-->
        <monitor-action>log</monitor-action> <!-- operation="delete"-->
        <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
      </config>
    </ipv4>
  </acl-entry>
</acl>
```

```
</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>|) ((log|sample)|)  
  (redirect-to-port IFNAME|)
```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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>  
</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"-->
        <precedence>routine</precedence> <!-- operation="delete"-->
        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
        <monitor-action>log</monitor-action> <!-- operation="delete"-->
        <redirect-interface-name>IFNAME</redirect-interface-name> <!--
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>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
          </fragments><!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
          <monitor-action>log</monitor-action> <!-- operation="delete"-->
          <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) (any) fragments (vlan <1-4094>|) (inner-
vlan <1-4094>|) ((log|sample)|) (redirect-to-port IFNAME|)
```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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: 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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
    </fragments><!-- operation="delete"-->
    <dscp>default</dscp> <!-- operation="delete"-->
    <vlan-id>1</vlan-id> <!-- operation="delete"-->
    <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
    <monitor-action>log</monitor-action> <!-- operation="delete"-->
    <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
  </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) (any) fragments 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>|) ((log|sample)|)
(redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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: precedence

Attribute Type: enum (routine|priority|immediate|flash|flashoverride|critical|internet|network)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
          </fragments><!-- operation="delete"-->
          <precedence>routine</precedence> <!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
          <monitor-action>log</monitor-action> <!-- operation="delete"-->
          <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl>
```

```
</acl-set>  
</acl-sets>  
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) (any) fragments precedence  
  (routine|priority|immediate|flash|flashoverride|critical|internet|network) (vlan  
  <1-4094>|) (inner-vlan <1-4094>|) ((log|sample)|) (redirect-to-port IFNAME|)
```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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|neq|lt|gt)

Attribute Name: udp-destination-port

Attribute Type: union

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
    <vlan-id>1</vlan-id> <!-- operation="delete"-->
    <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
    <monitor-action>log</monitor-action> <!-- operation="delete"-->
    <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
  </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) (any) (eq|neq|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>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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|neq|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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl>
```



```

        <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"-->
        <monitor-action>log</monitor-action> <!-- operation="delete"-->
        <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
    </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) (any) (eq|neq|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>|) ((log|sample)|)
(redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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|neq|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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
          <monitor-action>log</monitor-action> <!-- operation="delete"-->
          <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl>
```

```

</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) (any) (eq|neq|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>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
          <monitor-action>log</monitor-action> <!-- operation="delete"-->
          <redirect-interface-name>IFNAME</redirect-interface-name> <!--
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>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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-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"-->
  <monitor-action>log</monitor-action> <!-- operation="delete"-->
  <redirect-interface-name>IFNAME</redirect-interface-name> <!--
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>|) ((log|sample)|)
(redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
          <monitor-action>log</monitor-action> <!-- operation="delete"-->
          <redirect-interface-name>IFNAME</redirect-interface-name> <!--
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) range <0-65535> <0-65535> precedence
  (routine|priority|immediate|flash|flashoverride|critical|internet|network) (vlan
  <1-4094>|) (inner-vlan <1-4094>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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|neq|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|neq|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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
    <vlan-id>1</vlan-id> <!-- operation="delete"-->
    <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
    <monitor-action>log</monitor-action> <!-- operation="delete"-->
    <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
  </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) (eq|neq|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|neq|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>|) ((log|sample|) (redirect-to-port IFNAME|)
```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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|neq|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|neq|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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
    <monitor-action>log</monitor-action> <!-- operation="delete"-->
    <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
  </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) (eq|neq|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|neq|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>|) ((log|sample)|) (redirect-to-port IFNAME|)
```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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|neq|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|neq|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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
    <precedence>routin</precedence> <!-- operation="delete"-->
    <vlan-id>1</vlan-id> <!-- operation="delete"-->
    <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
    <monitor-action>log</monitor-action> <!-- operation="delete"-->
    <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
  </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) (eq|neq|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|neq|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>|) ((log|sample)|) (redirect-to-port IFNAME|)
```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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|neq|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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
    <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"-->
    <monitor-action>log</monitor-action> <!-- operation="delete"-->
    <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
  </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) (eq|neq|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>|) ((log|sample)|) (redirect-to-port
IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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|neq|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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
      <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"-->
      <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
      <monitor-action>log</monitor-action> <!-- operation="delete"-->
      <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
    </config>
  </ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) (eq|neq|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>|) ((log|sample)|)
(redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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|neq|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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
    <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"-->
    <precedence>routine</precedence> <!-- operation="delete"-->
    <vlan-id>1</vlan-id> <!-- operation="delete"-->
    <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
    <monitor-action>log</monitor-action> <!-- operation="delete"-->
    <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
  </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) (eq|neq|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>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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|neq|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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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>
```

```

    <destination-address>any</destination-address> <!-- operation="delete"-->
    <vlan-id>1</vlan-id> <!-- operation="delete"-->
    <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
    <monitor-action>log</monitor-action> <!-- operation="delete"-->
    <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
    </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) (eq|neq|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>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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|neq|lt|gt)

Attribute Name: udp-source-port

Attribute Type: enum (echo|discard|time|nameserver|tacacs|domain|bootps|bootpc|ftp|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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
        <dscp>default</dscp> <!-- operation="delete"-->
        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
        <monitor-action>log</monitor-action> <!-- operation="delete"-->
        <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
      </config>
    </ipv4>
  </acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) (eq|neq|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>|) ((log|sample)|)
(redirect-to-port IFNAME|)
```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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|neq|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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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-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"-->
        <monitor-action>log</monitor-action> <!-- operation="delete"-->
        <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
    </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) (eq|neq|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>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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|neq|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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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-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"-->
  <monitor-action>log</monitor-action> <!-- operation="delete"-->
  <redirect-interface-name>IFNAME</redirect-interface-name> <!--
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|neq|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>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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|neq|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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl>
```

```

        <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"-->
        <monitor-action>log</monitor-action> <!-- operation="delete"-->
        <redirect-interface-name>IFNAME</redirect-interface-name> <!--
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|neq|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>|) ((log|sample)|)
(redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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|neq|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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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>
```

```

        <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"-->
        <monitor-action>log</monitor-action> <!-- operation="delete"-->
        <redirect-interface-name>IFNAME</redirect-interface-name> <!--
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|neq|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>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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
 Attribute Name: inner-vlan-id
 Attribute Type: uint16
 Attribute Range: 1-4094
 Attribute Name: monitor-action
 Attribute Type: enum (log|sample)

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"-->
        <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"-->
        <monitor-action>log</monitor-action> <!-- operation="delete"-->
        <redirect-interface-name>IFNAME</redirect-interface-name> <!--
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>|) ((log|sample)|)
(redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
            <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"-->
          </config>
        </ipv4>
      </config>
    </acl-entry>
  </acl-entries>
</acl-set>
</acl-sets>
</acl>
```

```

        <dscp>default</dscp> <!-- operation="delete"-->
        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
        <monitor-action>log</monitor-action> <!-- operation="delete"-->
        <redirect-interface-name>IFNAME</redirect-interface-name> <!--
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>|) ((log|sample)|)
(redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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-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-sets>
</acl>
```

```
        <monitor-action>log</monitor-action> <!-- operation="delete"-->
        <redirect-interface-name>IFNAME</redirect-interface-name> <!--
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> precedence
(routine|priority|immediate|flash|flashoverride|critical|internet|network) (vlan
<1-4094>|) (inner-vlan <1-4094>|) ((log|sample)|) (redirect-to-port IFNAME|)
```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
    <monitor-action>log</monitor-action> <!-- operation="delete"-->
    <redirect-interface-name>IFNAME</redirect-interface-name> <!--
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>|) ((log|sample)|) (redirect-to-port IFNAME|)
```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
    <monitor-action>log</monitor-action> <!-- operation="delete"-->
    <redirect-interface-name>IFNAME</redirect-interface-name> <!--
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>|) ((log|sample)|)
(redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
          <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>
```



```

        <monitor-action>log</monitor-action> <!-- operation="delete"-->
        <redirect-interface-name>IFNAME</redirect-interface-name> <!--
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>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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-message

Attribute Type: enum (administratively-prohibited|alternate-address|conversion-error|dod-host-prohibited|dod-net-prohibited|echo|echo-reply|general-parameter-problem|host-isolated|host-precedence-unreachable|host-redirect|host-tos-redirect|host-tos-unreachable|host-unknown|host-unreachable|information-reply|information-request|mask-reply|mask-request|mobile-redirect|net-redirect|net-tos-redirect|net-tos-unreachable|net-unreachable|network-unknown|no-room-for-option|option-missing|packet-too-big|parameter-problem|port-unreachable|precedence-unreachable|protocol-unreachable|reassembly-timeout|redirect|router-advertisement|router-solicitation|source-quench|source-route-failed|time-exceeded|timestamp-reply|timestamp-request|traceroute|ttl-exceeded|unreachable)

Attribute Name: fragments

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

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
            <icmp-message>administratively-prohibited</icmp-message> <!--
operation="delete"-->
            </fragments><!-- operation="delete"-->
            <vlan-id>1</vlan-id> <!-- operation="delete"-->
            <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
            <monitor-action>log</monitor-action> <!-- operation="delete"-->
            <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
          </config>
        </ipv4>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
<(1-268435453>|) (deny|permit) icmp (any) (any) ((administratively-
prohibited|alternate-address|conversion-error|dod-host-prohibited|dod-net-
prohibited|echo|echo-reply|general-parameter-problem|host-isolated|host-
precedence-unreachable|host-redirect|host-tos-redirect|host-tos-
unreachable|host-unknown|host-unreachable|information-reply|information-
request|mask-reply|mask-request|mobile-redirect|net-redirect|net-tos-
```

```

redirect|net-tos-unreachable|net-unreachable|network-unknown|no-room-for-
option|option-missing|packet-too-big|parameter-problem|port-
unreachable|precedence-unreachable|protocol-unreachable|reassembly-
timeout|redirect|router-advertisement|router-solicitation|source-quench|source-
route-failed|time-exceeded|timestamp-reply|timestamp-request|traceroute|ttl-
exceeded|unreachable)|) fragments (vlan <1-4094>|) (inner-vlan <1-4094>|)
((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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-message

Attribute Type: enum (administratively-prohibited|alternate-address|conversion-error|dod-host-prohibited|dod-net-prohibited|echo|echo-reply|general-parameter-problem|host-isolated|host-precedence-unreachable|host-redirect|host-tos-redirect|host-tos-unreachable|host-unknown|host-unreachable|information-reply|information-request|mask-reply|mask-request|mobile-redirect|net-redirect|net-tos-redirect|net-tos-unreachable|net-unreachable|network-unknown|no-room-for-option|option-missing|packet-too-big|parameter-problem|port-unreachable|precedence-unreachable|protocol-unreachable|reassembly-timeout|redirect|router-advertisement|router-solicitation|source-quench|source-route-failed|time-exceeded|timestamp-reply|timestamp-request|traceroute|ttl-exceeded|unreachable)

Attribute Name: fragments

Attribute Type: empty

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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-sets>
<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"-->
    <icmp-message>administratively-prohibited</icmp-message> <!--
operation="delete"-->
    </fragments><!-- operation="delete"-->
    <dscp>default</dscp> <!-- operation="delete"-->
    <vlan-id>1</vlan-id> <!-- operation="delete"-->
    <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
    <monitor-action>log</monitor-action> <!-- operation="delete"-->
    <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
  </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) icmp (any) (any) ((administratively-
prohibited|alternate-address|conversion-error|dod-host-prohibited|dod-net-
prohibited|echo|echo-reply|general-parameter-problem|host-isolated|host-
precedence-unreachable|host-redirect|host-tos-redirect|host-tos-
unreachable|host-unknown|host-unreachable|information-reply|information-
request|mask-reply|mask-request|mobile-redirect|net-redirect|net-tos-
redirect|net-tos-unreachable|net-unreachable|network-unknown|no-room-for-
option|option-missing|packet-too-big|parameter-problem|port-
unreachable|precedence-unreachable|protocol-unreachable|reassembly-
timeout|redirect|router-advertisement|router-solicitation|source-quench|source-
route-failed|time-exceeded|timestamp-reply|timestamp-request|traceroute|ttl-

```

```

exceeded|unreachable)|) fragments 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>|) ((log|sample)|)
(redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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-message

Attribute Type: enum (administratively-prohibited|alternate-address|conversion-error|dod-host-prohibited|dod-net-prohibited|echo|echo-reply|general-parameter-problem|host-isolated|host-precedence-unreachable|host-redirect|host-tos-redirect|host-tos-unreachable|host-unknown|host-unreachable|information-reply|information-request|mask-reply|mask-request|mobile-redirect|net-redirect|net-tos-redirect|net-tos-unreachable|net-unreachable|network-unknown|no-room-for-option|option-missing|packet-too-big|parameter-problem|port-unreachable|precedence-unreachable|protocol-unreachable|reassembly-timeout|redirect|router-advertisement|router-solicitation|source-quench|source-route-failed|time-exceeded|timestamp-reply|timestamp-request|traceroute|ttl-exceeded|unreachable)

Attribute Name: fragments

Attribute Type: empty

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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-icmp><!-- operation="delete"-->
    <source-address>any</source-address> <!-- operation="delete"-->
    <destination-address>any</destination-address> <!-- operation="delete"-->
    <icmp-message>administratively-prohibited</icmp-message> <!--
operation="delete"-->
    </fragments><!-- operation="delete"-->
    <precedence>routine</precedence> <!-- operation="delete"-->
    <vlan-id>1</vlan-id> <!-- operation="delete"-->
    <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
    <monitor-action>log</monitor-action> <!-- operation="delete"-->
    <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
  </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) icmp (any) (any) ((administratively-
prohibited|alternate-address|conversion-error|dod-host-prohibited|dod-net-
prohibited|echo|echo-reply|general-parameter-problem|host-isolated|host-
precedence-unreachable|host-redirect|host-tos-redirect|host-tos-
unreachable|host-unknown|host-unreachable|information-reply|information-
request|mask-reply|mask-request|mobile-redirect|net-redirect|net-tos-
redirect|net-tos-unreachable|net-unreachable|network-unknown|no-room-for-
option|option-missing|packet-too-big|parameter-problem|port-
unreachable|precedence-unreachable|protocol-unreachable|reassembly-
timeout|redirect|router-advertisement|router-solicitation|source-quench|source-
route-failed|time-exceeded|timestamp-reply|timestamp-request|traceroute|ttl-
exceeded|unreachable)|) fragments precedence
(routine|priority|immediate|flash|flashoverride|critical|internet|network) (vlan
<1-4094>|) (inner-vlan <1-4094>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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-message

Attribute Type: enum (administratively-prohibited|alternate-address|conversion-error|dod-host-prohibited|dod-net-prohibited|echo|echo-reply|general-parameter-problem|host-isolated|host-precedence-unreachable|host-redirect|host-tos-redirect|host-tos-unreachable|host-unknown|host-unreachable|information-reply|information-request|mask-reply|mask-request|mobile-redirect|net-redirect|net-tos-redirect|net-tos-unreachable|net-unreachable|network-unknown|no-room-for-option|option-missing|packet-too-big|parameter-problem|port-unreachable|precedence-unreachable|protocol-unreachable|reassembly-timeout|redirect|router-advertisement|router-solicitation|source-quench|source-route-failed|time-exceeded|timestamp-reply|timestamp-request|traceroute|ttl-exceeded|unreachable)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
  <icmp-message>administratively-prohibited</icmp-message> <!--
operation="delete"-->
  <vlan-id>1</vlan-id> <!-- operation="delete"-->
  <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
  <monitor-action>log</monitor-action> <!-- operation="delete"-->
  <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
  </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) icmp (any) (any) ((administratively-
prohibited|alternate-address|conversion-error|dod-host-prohibited|dod-net-
prohibited|echo|echo-reply|general-parameter-problem|host-isolated|host-
precedence-unreachable|host-redirect|host-tos-redirect|host-tos-
unreachable|host-unknown|host-unreachable|information-reply|information-
request|mask-reply|mask-request|mobile-redirect|net-redirect|net-tos-
redirect|net-tos-unreachable|net-unreachable|network-unknown|no-room-for-
option|option-missing|packet-too-big|parameter-problem|port-
unreachable|precedence-unreachable|protocol-unreachable|reassembly-
timeout|redirect|router-advertisement|router-solicitation|source-quench|source-
route-failed|time-exceeded|timestamp-reply|timestamp-request|traceroute|ttl-
exceeded|unreachable)|) (vlan <1-4094>|) (inner-vlan <1-4094>|) ((log|sample)|)
(redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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-message

Attribute Type: enum (administratively-prohibited|alternate-address|conversion-error|dod-host-prohibited|dod-net-prohibited|echo|echo-reply|general-parameter-problem|host-isolated|host-precedence-unreachable|host-redirect|host-tos-redirect|host-tos-unreachable|host-unknown|host-unreachable|information-reply|information-request|mask-reply|mask-request|mobile-redirect|net-redirect|net-tos-redirect|net-tos-unreachable|net-unreachable|network-unknown|no-room-for-option|option-missing|packet-too-big|parameter-problem|port-unreachable|precedence-unreachable|protocol-unreachable|reassembly-timeout|redirect|router-advertisement|router-solicitation|source-quench|source-route-failed|time-exceeded|timestamp-reply|timestamp-request|traceroute|ttl-exceeded|unreachable)

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl>
```

```

        <icmp-message>administratively-prohibited</icmp-message> <!--
operation="delete"-->
        <dscp>default</dscp> <!-- operation="delete"-->
        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
        <monitor-action>log</monitor-action> <!-- operation="delete"-->
        <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
    </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) icmp (any) (any) ((administratively-
prohibited|alternate-address|conversion-error|dod-host-prohibited|dod-net-
prohibited|echo|echo-reply|general-parameter-problem|host-isolated|host-
precedence-unreachable|host-redirect|host-tos-redirect|host-tos-
unreachable|host-unknown|host-unreachable|information-reply|information-
request|mask-reply|mask-request|mobile-redirect|net-redirect|net-tos-
redirect|net-tos-unreachable|net-unreachable|network-unknown|no-room-for-
option|option-missing|packet-too-big|parameter-problem|port-
unreachable|precedence-unreachable|protocol-unreachable|reassembly-
timeout|redirect|router-advertisement|router-solicitation|source-quench|source-
route-failed|time-exceeded|timestamp-reply|timestamp-request|traceroute|ttl-
exceeded|unreachable)|) 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>|) ((log|sample)|)
(redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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-message

Attribute Type: enum (administratively-prohibited|alternate-address|conversion-error|dod-host-prohibited|dod-net-prohibited|echo|echo-reply|general-parameter-problem|host-isolated|host-precedence-unreachable|host-redirect|host-tos-redirect|host-tos-unreachable|host-unknown|host-unreachable|information-reply|information-request|mask-reply|mask-request|mobile-redirect|net-redirect|net-tos-redirect|net-tos-unreachable|net-unreachable|network-unknown|no-room-for-option|option-missing|packet-too-big|parameter-problem|port-unreachable|precedence-unreachable|protocol-unreachable|reassembly-timeout|redirect|router-advertisement|router-solicitation|source-quench|source-route-failed|time-exceeded|timestamp-reply|timestamp-request|traceroute|ttl-exceeded|unreachable)

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
          <icmp-message>administratively-prohibited</icmp-message> <!--
operation="delete"-->
          <precedence>routine</precedence> <!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
          <monitor-action>log</monitor-action> <!-- operation="delete"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl>
```

```

        <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
    </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) icmp (any) (any) ((administratively-
prohibited|alternate-address|conversion-error|dod-host-prohibited|dod-net-
prohibited|echo|echo-reply|general-parameter-problem|host-isolated|host-
precedence-unreachable|host-redirect|host-tos-redirect|host-tos-
unreachable|host-unknown|host-unreachable|information-reply|information-
request|mask-reply|mask-request|mobile-redirect|net-redirect|net-tos-
redirect|net-tos-unreachable|net-unreachable|network-unknown|no-room-for-
option|option-missing|packet-too-big|parameter-problem|port-
unreachable|precedence-unreachable|protocol-unreachable|reassembly-
timeout|redirect|router-advertisement|router-solicitation|source-quench|source-
route-failed|time-exceeded|timestamp-reply|timestamp-request|traceroute|ttl-
exceeded|unreachable)|) precedence
(routine|priority|immediate|flash|flashoverride|critical|internet|network) (vlan
<1-4094>|) (inner-vlan <1-4094>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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: icmp-code

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: fragments

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

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
          <icmp-type>0</icmp-type> <!-- operation="delete"-->
          <icmp-code>0</icmp-code> <!-- operation="delete"-->
          </fragments><!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
          <monitor-action>log</monitor-action> <!-- operation="delete"-->
          <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl-set>
</acl-sets>
```

```
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) icmp (any) (any) <0-255> <0-255> fragments (vlan <1-4094>|) (inner-vlan <1-4094>|) ((log|sample)|) (redirect-to-port IFNAME|)
```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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: icmp-code

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: fragments

Attribute Type: empty

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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-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"-->
    <icmp-type>0</icmp-type> <!-- operation="delete"-->
    <icmp-code>0</icmp-code> <!-- operation="delete"-->
    </fragments><!-- operation="delete"-->
    <dscp>default</dscp> <!-- operation="delete"-->
    <vlan-id>1</vlan-id> <!-- operation="delete"-->
    <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
    <monitor-action>log</monitor-action> <!-- operation="delete"-->
    <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
  </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) icmp (any) (any) <0-255> <0-255> fragments 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>|) ((log|sample)|)
(redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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: icmp-code

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: fragments

Attribute Type: empty

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
  <icmp-type>0</icmp-type> <!-- operation="delete"-->
  <icmp-code>0</icmp-code> <!-- operation="delete"-->
  </fragments><!-- operation="delete"-->
  <precedence>routine</precedence> <!-- operation="delete"-->
  <vlan-id>1</vlan-id> <!-- operation="delete"-->
  <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
  <monitor-action>log</monitor-action> <!-- operation="delete"-->
  <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
  </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) icmp (any) (any) <0-255> <0-255> fragments
precedence
(routine|priority|immediate|flash|flashoverride|critical|internet|network) (vlan
<1-4094>|) (inner-vlan <1-4094>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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: icmp-code

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
          <icmp-type>0</icmp-type> <!-- operation="delete"-->
          <icmp-code>0</icmp-code> <!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
          <monitor-action>log</monitor-action> <!-- operation="delete"-->
          <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl>
```

```

</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) icmp (any) (any) <0-255> <0-255> (vlan <1-4094>|)
(inner-vlan <1-4094>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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: icmp-code

Attribute Type: uint8

Attribute Range: 0-255

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
          <icmp-type>0</icmp-type> <!-- operation="delete"-->
          <icmp-code>0</icmp-code> <!-- operation="delete"-->
          <dscp>default</dscp> <!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
          <monitor-action>log</monitor-action> <!-- operation="delete"-->
          <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) icmp (any) (any) <0-255> <0-255> 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>|) ((log|sample)|)
(redirect-to-port IFNAME|)
```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string
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: icmp-code
Attribute Type: uint8
Attribute Range: 0-255
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
Attribute Name: inner-vlan-id
Attribute Type: uint16
Attribute Range: 1-4094
Attribute Name: monitor-action
Attribute Type: enum (log|sample)

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"-->
  <icmp-type>0</icmp-type> <!-- operation="delete"-->
  <icmp-code>0</icmp-code> <!-- operation="delete"-->
  <precedence>routine</precedence> <!-- operation="delete"-->
  <vlan-id>1</vlan-id> <!-- operation="delete"-->
  <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
  <monitor-action>log</monitor-action> <!-- operation="delete"-->
  <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
  </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) icmp (any) (any) <0-255> <0-255> precedence
(routine|priority|immediate|flash|flashoverride|critical|internet|network) (vlan
<1-4094>|) (inner-vlan <1-4094>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
          <icmp-type>0</icmp-type> <!-- operation="delete"-->
          </fragments><!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
          <monitor-action>log</monitor-action> <!-- operation="delete"-->
          <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) icmp (any) (any) <0-255> fragments (vlan <1-4094>|)
(inner-vlan <1-4094>|) ((log|sample)|) (redirect-to-port IFNAME|)
```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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: 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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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-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"-->
        <dscp>default</dscp> <!-- operation="delete"-->
        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
        <monitor-action>log</monitor-action> <!-- operation="delete"-->
        <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
    </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

<1-268435453>|) (deny|permit) icmp (any) (any) <0-255> fragments 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>|) ((log|sample)|)
(redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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: precedence

Attribute Type: enum (routine|priority|immediate|flash|flashoverride|critical|internet|network)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
          <icmp-type>0</icmp-type> <!-- operation="delete"-->
          </fragments><!-- operation="delete"-->
          <precedence>routine</precedence> <!-- operation="delete"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl>
```

```

        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
        <monitor-action>log</monitor-action> <!-- operation="delete"-->
        <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
    </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) icmp (any) (any) <0-255> fragments precedence
(routine|priority|immediate|flash|flashoverride|critical|internet|network) (vlan
<1-4094>|) (inner-vlan <1-4094>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
          <icmp-type>0</icmp-type> <!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
          <monitor-action>log</monitor-action> <!-- operation="delete"-->
          <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
          </config>
        </ipv4>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) icmp (any) (any) <0-255> (vlan <1-4094>|) (inner-
vlan <1-4094>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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: 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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
          <icmp-type>0</icmp-type> <!-- operation="delete"-->
          <dscp>default</dscp> <!-- operation="delete"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl>
```

```

        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
        <monitor-action>log</monitor-action> <!-- operation="delete"-->
        <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
    </config>
</ipv4>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) icmp (any) (any) <0-255> 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>|) ((log|sample)|)
(redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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: precedence

Attribute Type: enum (routine|priority|immediate|flash|flashoverride|critical|internet|network)

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
          <icmp-type>0</icmp-type> <!-- operation="delete"-->
          <precedence>routine</precedence> <!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
          <monitor-action>log</monitor-action> <!-- operation="delete"-->
          <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) icmp (any) (any) <0-255> precedence
(routine|priority|immediate|flash|flashoverride|critical|internet|network) (vlan
<1-4094>|) (inner-vlan <1-4094>|) ((log|sample)|) (redirect-to-port IFNAME|)
```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl>
```



```

        </fragments><!-- operation="delete"-->
        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
        <monitor-action>log</monitor-action> <!-- operation="delete"-->
        <redirect-interface-name>IFNAME</redirect-interface-name> <!--
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) fragments (vlan <1-4094>|) (inner-vlan <1-4094>|) ((log|sample)|)
  (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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: fragments

Attribute Type: empty

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
          </fragments><!-- operation="delete"-->
          <dscp>default</dscp> <!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
          <monitor-action>log</monitor-action> <!-- operation="delete"-->
          <redirect-interface-name>IFNAME</redirect-interface-name> <!--
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)
fragments 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>|) ((log|sample)|)
(redirect-to-port IFNAME|)
```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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: fragments

Attribute Type: empty

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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>
```

```

<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"-->
  <precedence>routine</precedence> <!-- operation="delete"-->
  <vlan-id>1</vlan-id> <!-- operation="delete"-->
  <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
  <monitor-action>log</monitor-action> <!-- operation="delete"-->
  <redirect-interface-name>IFNAME</redirect-interface-name> <!--
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)
  fragments precedence
  (routine|priority|immediate|flash|flashoverride|critical|internet|network) (vlan
  <1-4094>|) (inner-vlan <1-4094>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
          <monitor-action>log</monitor-action> <!-- operation="delete"-->
          <redirect-interface-name>IFNAME</redirect-interface-name> <!--
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)
  (vlan <1-4094>|) (inner-vlan <1-4094>|) ((log|sample)|) (redirect-to-port
  IFNAME|)
```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
        </config>
      </ipv4>
    </acl-entry>
  </acl-entries>
</acl>
```

```

    <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"-->
    <monitor-action>log</monitor-action> <!-- operation="delete"-->
    <redirect-interface-name>IFNAME</redirect-interface-name> <!--
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)
  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>|) ((log|sample)|)
  (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

Attribute Name: redirect-interface-name

Attribute Type: string

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
          <monitor-action>log</monitor-action> <!-- operation="delete"-->
          <redirect-interface-name>IFNAME</redirect-interface-name> <!--
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>|) ((log|sample)|) (redirect-to-port IFNAME|)
```

Configure fragment monitor action

Use this attribute to enable logging or sampling of the packets on which the match occurred (in-direction only).

This command is supported when following feature are enabled CUSTOM1 ACL feature

Attribute Name: fragment-monitor-action

Attribute Type: enum (log|sample)

Attribute Name: fragment-forwarding-action

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-entries>
  <acl-entry>
    <sequence-id>1</sequence-id>
    <config>
      <sequence-id>1</sequence-id>
    </config>
    <ipv4>
    <fragment-actions>
    <config>
      <fragment-forwarding-action>deny-all</fragment-forwarding-action> <!--
operation="delete"-->
      <fragment-monitor-action>log</fragment-monitor-action> <!--
operation="delete"-->
    </config>
  </fragment-actions>
  </ipv4>
  </acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) fragments (deny-all|permit-all) ((log|sample)|)
```

Configure 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 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 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 redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

This command is supported when following feature are enabled IPV6 feature

Attribute Name: redirect-interface-name

Attribute Type: string

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

Attribute Name: flow-label

Attribute Type: uint32

Attribute Range: 0-1048575

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
          <dscp>default</dscp> <!-- operation="delete"-->
          <flow-label>0</flow-label> <!-- 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"-->
          <monitor-action>log</monitor-action> <!-- operation="delete"-->
```

```

        <redirect-interface-name>IFNAME</redirect-interface-name> <!--
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>|) (flow-label <0-1048575>|)
  ({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|) (inner-vlan <1-4094>|)
  ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

This command is supported when following feature are enabled IPV6 feature

Attribute Name: redirect-interface-name

Attribute Type: string

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|neq|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)

Attribute Name: flow-label

Attribute Type: uint32

Attribute Range: 0-1048575

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
              <flow-label>0</flow-label> <!-- 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"-->
              <monitor-action>log</monitor-action> <!-- operation="delete"-->
              <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
            </config>
          </ipv6>
        </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) (any) (eq|neq|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|drip|<0-65535>) (dscp
  (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
  af43|cs5|ef|cs6|cs7)|) (flow-label <0-1048575>|)
  ({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|) (inner-vlan <1-4094>|)
  ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

This command is supported when following feature are enabled IPV6 feature

Attribute Name: redirect-interface-name

Attribute Type: string

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: flow-label

Attribute Type: uint32

Attribute Range: 0-1048575

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
              <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"-->
              <flow-label>0</flow-label> <!-- 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"-->
              <monitor-action>log</monitor-action> <!-- operation="delete"-->
              <redirect-interface-name>IFNAME</redirect-interface-name> <!--
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) 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)|) (flow-label <0-1048575>|)
  ({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|) (inner-vlan <1-4094>|)
  ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

This command is supported when following feature are enabled IPV6 feature

Attribute Name: redirect-interface-name

Attribute Type: string

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: fragments

Attribute Type: empty

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: flow-label

Attribute Type: uint32

Attribute Range: 0-1048575

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
            </fragments><!-- operation="delete"-->
            <dscp>default</dscp> <!-- operation="delete"-->
            <flow-label>0</flow-label> <!-- 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"-->
            <monitor-action>log</monitor-action> <!-- operation="delete"-->
            <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
          </config>
        </ipv6>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>

```

Command Syntax

```
(<1-268435453>|) (deny|permit) tcp (any) (any) fragments (dscp
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
af43|cs5|ef|cs6|cs7)|) (flow-label <0-1048575>|)
({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|) (inner-vlan <1-4094>|)
((log|sample)|) (redirect-to-port IFNAME|)
```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

This command is supported when following feature are enabled IPV6 feature

Attribute Name: redirect-interface-name

Attribute Type: string

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|neq|lt|gt)

Attribute Name: tcp-source-port

Attribute Type: union

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: flow-label

Attribute Type: uint32

Attribute Range: 0-1048575

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
            <flow-label>0</flow-label> <!-- 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"-->
            <monitor-action>log</monitor-action> <!-- operation="delete"-->
            <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
          </config>
        </ipv6>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) (eq|neq|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|drip|<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)|) (flow-label <0-1048575>|)
({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|) (inner-vlan <1-4094>|)
((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

This command is supported when following feature are enabled IPV6 feature

Attribute Name: redirect-interface-name

Attribute Type: string

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|neq|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|drip)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: destination-port-operator

Attribute Type: enum (eq|neq|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|drip)

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: flow-label

Attribute Type: uint32

Attribute Range: 0-1048575

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
            <flow-label>0</flow-label> <!-- 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"-->
            <monitor-action>log</monitor-action> <!-- operation="delete"-->
            <redirect-interface-name>IFNAME</redirect-interface-name> <!--
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) tcp (any) (eq|neq|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|drip) (any) (eq|neq|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|drip) (dscp
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
af43|cs5|ef|cs6|cs7)|) (flow-label <0-1048575>|)
({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|) (inner-vlan <1-4094>|)
((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

This command is supported when following feature are enabled IPV6 feature

Attribute Name: redirect-interface-name

Attribute Type: string

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|neq|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|drip)

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: flow-label

Attribute Type: uint32

Attribute Range: 0-1048575

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
        <flow-label>0</flow-label> <!-- 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"-->
        <monitor-action>log</monitor-action> <!-- operation="delete"-->
        <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
        </config>
    </ipv6>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) tcp (any) (eq|neq|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|drip) (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)|) (flow-label <0-1048575>|)
({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|) (inner-vlan <1-4094>|)
((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

This command is supported when following feature are enabled IPV6 feature

Attribute Name: redirect-interface-name

Attribute Type: string

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: flow-label

Attribute Type: uint32

Attribute Range: 0-1048575

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
        <flow-label>0</flow-label> <!-- 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"-->
        <monitor-action>log</monitor-action> <!-- operation="delete"-->
operation="delete"-->
        <redirect-interface-name>IFNAME</redirect-interface-name> <!--
        </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)|) (flow-label <0-1048575>|)
({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|) (inner-vlan <1-4094>|)
((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

This command is supported when following feature are enabled IPV6 feature

Attribute Name: redirect-interface-name

Attribute Type: string

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|neq|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|drip)

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: flow-label

Attribute Type: uint32

Attribute Range: 0-1048575

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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>
    <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"-->
          <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
          <tcp-destination-port>echo</tcp-destination-port> <!--
          <dscp>default</dscp> <!-- operation="delete"-->
          <flow-label>0</flow-label> <!-- 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"-->
          <monitor-action>log</monitor-action> <!-- operation="delete"-->
operation="delete"-->
          <redirect-interface-name>IFNAME</redirect-interface-name> <!--
          </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|neq|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|drip) (dscp
  (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
  af43|cs5|ef|cs6|cs7)|) (flow-label <0-1048575>|)
  ({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|) (inner-vlan <1-4094>|)
  ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

This command is supported when following feature are enabled IPV6 feature

Attribute Name: redirect-interface-name

Attribute Type: string

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: flow-label

Attribute Type: uint32

Attribute Range: 0-1048575

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

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
                <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"-->
                <flow-label>0</flow-label> <!-- 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"-->
                <monitor-action>log</monitor-action> <!-- operation="delete"-->
                <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
              </config>
            </ipv6>
          </acl-entry>
        </acl-entries>
      </acl-set>
    </acl-sets>
  </acl>
```

```
</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)|) (flow-label <0-1048575>|) ({ack|established|fin|psh|rst|syn|urg}|) (vlan <1-4094>|) (inner-vlan <1-4094>|) ((log|sample)|) (redirect-to-port IFNAME|)
```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

This command is supported when following feature are enabled IPV6 feature

Attribute Name: redirect-interface-name

Attribute Type: string

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: flow-label

Attribute Type: uint32

Attribute Range: 0-1048575

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
            <destination-address>any</destination-address> <!--
            <dscp>default</dscp> <!-- operation="delete"-->
            <flow-label>0</flow-label> <!-- operation="delete"-->
            <vlan-id>1</vlan-id> <!-- operation="delete"-->
            <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
            <monitor-action>log</monitor-action> <!-- operation="delete"-->
            <redirect-interface-name>IFNAME</redirect-interface-name> <!--
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)|) (flow-label <0-1048575>|) (vlan <1-4094>|) (inner-vlan <1-
  4094>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

This command is supported when following feature are enabled IPV6 feature

Attribute Name: redirect-interface-name

Attribute Type: string

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|neq|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)

Attribute Name: flow-label

Attribute Type: uint32

Attribute Range: 0-1048575

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
      <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
      <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
      <dscp>default</dscp> <!-- operation="delete"-->
      <flow-label>0</flow-label> <!-- operation="delete"-->
      <vlan-id>1</vlan-id> <!-- operation="delete"-->
      <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
      <monitor-action>log</monitor-action> <!-- operation="delete"-->
      <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
    </config>
  </ipv6>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) (any) (eq|neq|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)|) (flow-label <0-1048575>|) (vlan <1-4094>|) (inner-vlan <1-
4094>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

This command is supported when following feature are enabled IPV6 feature

Attribute Name: redirect-interface-name

Attribute Type: string

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: flow-label

Attribute Type: uint32

Attribute Range: 0-1048575

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
      <flow-label>0</flow-label> <!-- operation="delete"-->
      <vlan-id>1</vlan-id> <!-- operation="delete"-->
      <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
      <monitor-action>log</monitor-action> <!-- operation="delete"-->
      <redirect-interface-name>IFNAME</redirect-interface-name> <!--
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)|) (flow-label <0-1048575>|) (vlan <1-4094>|) (inner-vlan <1-
  4094>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

This command is supported when following feature are enabled IPV6 feature

Attribute Name: redirect-interface-name

Attribute Type: string

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: 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: flow-label

Attribute Type: uint32

Attribute Range: 0-1048575

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
          </fragments><!-- operation="delete"-->
          <dscp>default</dscp> <!-- operation="delete"-->
          <flow-label>0</flow-label> <!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
          <monitor-action>log</monitor-action> <!-- operation="delete"-->
```

```

operation="delete"--> <redirect-interface-name>IFNAME</redirect-interface-name> <!--
    </config>
  </ipv6>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) (any) fragments (dscp
  (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
  af43|cs5|ef|cs6|cs7)|) (flow-label <0-1048575>|) (vlan <1-4094>|) (inner-vlan <1-
  4094>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

This command is supported when following feature are enabled IPV6 feature

Attribute Name: redirect-interface-name

Attribute Type: string

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|neq|lt|gt)

Attribute Name: udp-source-port

Attribute Type: union

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: flow-label

Attribute Type: uint32

Attribute Range: 0-1048575

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
              <flow-label>0</flow-label> <!-- operation="delete"-->
              <vlan-id>1</vlan-id> <!-- operation="delete"-->
              <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
              <monitor-action>log</monitor-action> <!-- operation="delete"-->
              <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
            </config>
          </ipv6>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>

```


Command Syntax

```
(<1-268435453>|) (deny|permit) udp (any) (eq|neq|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) (dscp
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
af43|cs5|ef|cs6|cs7)|) (flow-label <0-1048575>|) (vlan <1-4094>|) (inner-vlan <1-
4094>|) ((log|sample)|) (redirect-to-port IFNAME|)
```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

This command is supported when following feature are enabled IPV6 feature

Attribute Name: redirect-interface-name

Attribute Type: string

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|neq|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|neq|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: flow-label

Attribute Type: uint32

Attribute Range: 0-1048575

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
              <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
              <udp-destination-port>echo</udp-destination-port> <!--
operation="delete"-->
              <dscp>default</dscp> <!-- operation="delete"-->
              <flow-label>0</flow-label> <!-- operation="delete"-->
              <vlan-id>1</vlan-id> <!-- operation="delete"-->
              <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
              <monitor-action>log</monitor-action> <!-- operation="delete"-->
              <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
            </config>
          </ipv6>
        </acl-entry>

```

```

    </acl-entries>
  </acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) (eq|neq|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|neq|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)|) (flow-label <0-1048575>|) (vlan <1-4094>|) (inner-vlan <1-
4094>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

This command is supported when following feature are enabled IPV6 feature

Attribute Name: redirect-interface-name

Attribute Type: string

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|neq|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: flow-label

Attribute Type: uint32

Attribute Range: 0-1048575

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
            </config>
          </ipv6>
        </config>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>
```

```

        <dscp>default</dscp> <!-- operation="delete"-->
        <flow-label>0</flow-label> <!-- operation="delete"-->
        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
        <monitor-action>log</monitor-action> <!-- operation="delete"-->
        <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
    </config>
</ipv6>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) udp (any) (eq|neq|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)|) (flow-label <0-1048575>|) (vlan <1-4094>|) (inner-vlan <1-
4094>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

This command is supported when following feature are enabled IPV6 feature

Attribute Name: redirect-interface-name

Attribute Type: string

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: flow-label

Attribute Type: uint32

Attribute Range: 0-1048575

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
              <flow-label>0</flow-label> <!-- operation="delete"-->
            </config>
          </ipv6>
        </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"-->
        <monitor-action>log</monitor-action> <!-- operation="delete"-->
        <redirect-interface-name>IFNAME</redirect-interface-name> <!--
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)|) (flow-label <0-1048575>|) (vlan <1-4094>|) (inner-vlan <1-
  4094>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

This command is supported when following feature are enabled IPV6 feature

Attribute Name: redirect-interface-name

Attribute Type: string

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|neq|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: flow-label

Attribute Type: uint32

Attribute Range: 0-1048575

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
          <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
```



```

operation="delete"--> <udp-destination-port>echo</udp-destination-port> <!--
                        <dscp>default</dscp> <!-- operation="delete"-->
                        <flow-label>0</flow-label> <!-- operation="delete"-->
                        <vlan-id>1</vlan-id> <!-- operation="delete"-->
                        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
                        <monitor-action>log</monitor-action> <!-- operation="delete"-->
operation="delete"--> <redirect-interface-name>IFNAME</redirect-interface-name> <!--
                        </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|neq|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)|) (flow-label <0-1048575>|) (vlan <1-4094>|) (inner-vlan <1-
4094>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

This command is supported when following feature are enabled IPV6 feature

Attribute Name: redirect-interface-name

Attribute Type: string

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: flow-label

Attribute Type: uint32

Attribute Range: 0-1048575

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
        <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"-->
        <flow-label>0</flow-label> <!-- operation="delete"-->
        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
        <monitor-action>log</monitor-action> <!-- operation="delete"-->
        <redirect-interface-name>IFNAME</redirect-interface-name> <!--
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)|) (flow-label <0-1048575>|) (vlan <1-4094>|) (inner-vlan <1-
4094>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

This command is supported when following feature are enabled IPV6 feature

Attribute Name: redirect-interface-name

Attribute Type: string

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: flow-label

Attribute Type: uint32

Attribute Range: 0-1048575

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
          <flow-label>0</flow-label> <!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
          <monitor-action>log</monitor-action> <!-- operation="delete"-->
```

```

                                <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
                                </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)|) (flow-label <0-1048575>|) (vlan <1-4094>|) (inner-vlan <1-
 4094>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

This command is supported when following feature are enabled IPV6 feature

Attribute Name: redirect-interface-name

Attribute Type: string

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-message

Attribute Type: enum (beyond-scope|destination-unreachable|echo-reply|echo-request|header|hop-limit|mld-query|mld-reduction|mld-report|nd-na|nd-ns|next-header|no-admin|no-route|packet-too-big|parameter-option|parameter-problem|port-unreachable|reassembly-timeout|redirect|renum-command|renum-result|renum-sequence-number|router-advertisement|router-renumbering|router-solicitation|time-exceeded|unreachable)

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: flow-label

Attribute Type: uint32

Attribute Range: 0-1048575

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
              <icmp-message>beyond-scope</icmp-message> <!--
operation="delete"-->
              <dscp>default</dscp> <!-- operation="delete"-->
              <flow-label>0</flow-label> <!-- operation="delete"-->
              <vlan-id>1</vlan-id> <!-- operation="delete"-->
              <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
              <monitor-action>log</monitor-action> <!-- operation="delete"-->
              <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
            </config>
          </ipv6>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) (deny|permit) icmpv6 (any) (any) (beyond-scope|destination-
unreachable|echo-reply|echo-request|header|hop-limit|mld-query|mld-
reduction|mld-report|nd-na|nd-ns|next-header|no-admin|no-route|packet-too-
big|parameter-option|parameter-problem|port-unreachable|reassembly-
timeout|redirect|renum-command|renum-result|renum-seq-number|router-
advertisement|router-renumbering|router-solicitation|time-exceeded|unreachable)
(dscp
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
af43|cs5|ef|cs6|cs7)|) (flow-label <0-1048575>|) (vlan <1-4094>|) (inner-vlan <1-
4094>|) ((log|sample)|) (redirect-to-port IFNAME|)
```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

This command is supported when following feature are enabled IPV6 feature

Attribute Name: redirect-interface-name

Attribute Type: string

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: 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: flow-label

Attribute Type: uint32

Attribute Range: 0-1048575

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
            <icmp-type>0</icmp-type> <!-- operation="delete"-->
            <dscp>default</dscp> <!-- operation="delete"-->
            <flow-label>0</flow-label> <!-- operation="delete"-->
            <vlan-id>1</vlan-id> <!-- operation="delete"-->
            <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
            <monitor-action>log</monitor-action> <!-- operation="delete"-->
            <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
          </config>
        </ipv6>
      </acl-entry>
    </acl-entries>
  </acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) icmpv6 (any) (any) <0-255> (dscp
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
af43|cs5|ef|cs6|cs7)|) (flow-label <0-1048575>|) (vlan <1-4094>|) (inner-vlan <1-
4094>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

This command is supported when following feature are enabled IPV6 feature

Attribute Name: redirect-interface-name

Attribute Type: string

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: icmp-code

Attribute Type: uint8

Attribute Range: 0-255

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: flow-label

Attribute Type: uint32

Attribute Range: 0-1048575

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
        <icmp-type>0</icmp-type> <!-- operation="delete"-->
        <icmp-code>0</icmp-code> <!-- operation="delete"-->
        <dscp>default</dscp> <!-- operation="delete"-->
        <flow-label>0</flow-label> <!-- operation="delete"-->
        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
        <monitor-action>log</monitor-action> <!-- operation="delete"-->
        <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
      </config>
    </ipv6>
  </acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) icmpv6 (any) (any) <0-255> <0-255> (dscp
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
af43|cs5|ef|cs6|cs7)|) (flow-label <0-1048575>|) (vlan <1-4094>|) (inner-vlan <1-
4094>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

This command is supported when following feature are enabled IPV6 feature

Attribute Name: redirect-interface-name

Attribute Type: string

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: flow-label

Attribute Type: uint32

Attribute Range: 0-1048575

Attribute Name: fragments

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

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
        <flow-label>0</flow-label> <!-- operation="delete"-->
        </fragments><!-- operation="delete"-->
        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
        <monitor-action>log</monitor-action> <!-- operation="delete"-->
        <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
    </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)|) (flow-label <0-1048575>|) fragments (vlan <1-4094>|)
(inner-vlan <1-4094>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

This command is supported when following feature are enabled IPV6 feature

Attribute Name: redirect-interface-name

Attribute Type: string

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-message

Attribute Type: enum (beyond-scope|destination-unreachable|echo-reply|echo-request|header|hop-limit|mld-
query|mld-reduction|mld-report|nd-na|nd-ns|next-header|no-admin|no-route|packet-too-big|parameter-

option|parameter-problem|port-unreachable|reassembly-timeout|redirect|renum-command|renum-result|renum-seq-number|router-advertisement|router-renumbering|router-solicitation|time-exceeded|unreachable)

Attribute Name: fragments

Attribute Type: empty

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: flow-label

Attribute Type: uint32

Attribute Range: 0-1048575

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
            <icmp-message>beyond-scope</icmp-message> <!--
operation="delete"-->
```

```

        </fragments><!-- operation="delete"-->
        <dscp>default</dscp> <!-- operation="delete"-->
        <flow-label>0</flow-label> <!-- operation="delete"-->
        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
        <monitor-action>log</monitor-action> <!-- operation="delete"-->
        <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
    </config>
  </ipv6>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) icmpv6 (any) (any) (beyond-scope|destination-
unreachable|echo-reply|echo-request|header|hop-limit|mld-query|mld-
reduction|mld-report|nd-na|nd-ns|next-header|no-admin|no-route|packet-too-
big|parameter-option|parameter-problem|port-unreachable|reassembly-
timeout|redirect|renum-command|renum-result|renum-seq-number|router-
advertisement|router-renumbering|router-solicitation|time-exceeded|unreachable)
fragments (dscp
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
af43|cs5|ef|cs6|cs7)|) (flow-label <0-1048575>|) (vlan <1-4094>|) (inner-vlan <1-
4094>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

This command is supported when following feature are enabled IPV6 feature

Attribute Name: redirect-interface-name

Attribute Type: string

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: 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: flow-label

Attribute Type: uint32

Attribute Range: 0-1048575

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
              <icmp-type>0</icmp-type> <!-- operation="delete"-->
              </fragments><!-- operation="delete"-->
              <dscp>default</dscp> <!-- operation="delete"-->
              <flow-label>0</flow-label> <!-- operation="delete"-->
            </config>
          </ipv6>
        </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"-->
        <monitor-action>log</monitor-action> <!-- operation="delete"-->
        <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
        </config>
        </ipv6>
        </acl-entry>
    </acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) icmpv6 (any) (any) <0-255> fragments (dscp
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
af43|cs5|ef|cs6|cs7)|) (flow-label <0-1048575>|) (vlan <1-4094>|) (inner-vlan <1-
4094>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

This command is supported when following feature are enabled IPV6 feature

Attribute Name: redirect-interface-name

Attribute Type: string

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: icmp-code

Attribute Type: uint8

Attribute Range: 0-255

Attribute Name: fragments

Attribute Type: empty

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: flow-label

Attribute Type: uint32

Attribute Range: 0-1048575

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
                <icmp-type>0</icmp-type> <!-- operation="delete"-->
                <icmp-code>0</icmp-code> <!-- operation="delete"-->
                </fragments><!-- operation="delete"-->
                <dscp>default</dscp> <!-- operation="delete"-->
                <flow-label>0</flow-label> <!-- operation="delete"-->
                <vlan-id>1</vlan-id> <!-- operation="delete"-->
                <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
                <monitor-action>log</monitor-action> <!-- operation="delete"-->
            </config>
          </acl-entry>
        </acl-entries>
      </acl-set>
    </acl-sets>
  </acl>
```

```

                                <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
                                </config>
                                </ipv6>
                                </acl-entry>
                                </acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) icmpv6 (any) (any) <0-255> <0-255> fragments (dscp
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
af43|cs5|ef|cs6|cs7)|) (flow-label <0-1048575>|) (vlan <1-4094>|) (inner-vlan <1-
4094>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

This command is supported when following feature are enabled IPV6 feature

Attribute Name: redirect-interface-name

Attribute Type: string

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)

Attribute Name: flow-label

Attribute Type: uint32

Attribute Range: 0-1048575

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
            <flow-label>0</flow-label> <!-- operation="delete"-->
            <vlan-id>1</vlan-id> <!-- operation="delete"-->
            <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
            <monitor-action>log</monitor-action> <!-- operation="delete"-->
            <redirect-interface-name>IFNAME</redirect-interface-name> <!--
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)|) (flow-label <0-1048575>|) (vlan <1-4094>|) (inner-vlan <1-
4094>|) ((log|sample)|) (redirect-to-port IFNAME|)
```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

This command is supported when following feature are enabled IPV6 feature

Attribute Name: redirect-interface-name

Attribute Type: string

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: fragments

Attribute Type: empty

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: flow-label

Attribute Type: uint32

Attribute Range: 0-1048575

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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>
      <ipv6>
        <config>
          <forwarding-action>deny</forwarding-action> <!--
operation="delete"-->
          </protocol-sctp><!-- operation="delete"-->
          <source-address>any</source-address> <!-- operation="delete"-->
operation="delete"-->
          <destination-address>any</destination-address> <!--
          </fragments><!-- operation="delete"-->
          <dscp>default</dscp> <!-- operation="delete"-->
          <flow-label>0</flow-label> <!-- operation="delete"-->
          <vlan-id>1</vlan-id> <!-- operation="delete"-->
          <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
          <monitor-action>log</monitor-action> <!-- operation="delete"-->
          <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
        </config>
      </ipv6>
    </acl-entry>
  </acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) sctp (any) (any) fragments (dscp
  (default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
  af43|cs5|ef|cs6|cs7)|) (flow-label <0-1048575>|) (vlan <1-4094>|) (inner-vlan <1-
  4094>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

This command is supported when following feature are enabled IPV6 feature

Attribute Name: redirect-interface-name

Attribute Type: string

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|neq|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)

Attribute Name: flow-label

Attribute Type: uint32

Attribute Range: 0-1048575

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
        <flow-label>0</flow-label> <!-- operation="delete"-->
        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
        <monitor-action>log</monitor-action> <!-- operation="delete"-->
        <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
        </config>
    </ipv6>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) sctp (any) (any) (eq|neq|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)|) (flow-label <0-1048575>|) (vlan <1-4094>|) (inner-vlan <1-
  4094>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

This command is supported when following feature are enabled IPV6 feature

Attribute Name: redirect-interface-name

Attribute Type: string

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)

Attribute Name: flow-label

Attribute Type: uint32

Attribute Range: 0-1048575

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
          <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"-->
                                <flow-label>0</flow-label> <!-- operation="delete"-->
                                <vlan-id>1</vlan-id> <!-- operation="delete"-->
                                <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
                                <monitor-action>log</monitor-action> <!-- operation="delete"-->
                                <redirect-interface-name>IFNAME</redirect-interface-name> <!--
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)|) (flow-label <0-1048575>|) (vlan <1-4094>|) (inner-vlan <1-
  4094>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

This command is supported when following feature are enabled IPV6 feature

Attribute Name: redirect-interface-name

Attribute Type: string

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|neq|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)

Attribute Name: flow-label

Attribute Type: uint32

Attribute Range: 0-1048575

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
            <flow-label>0</flow-label> <!-- operation="delete"-->
            <vlan-id>1</vlan-id> <!-- operation="delete"-->
            <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
            <monitor-action>log</monitor-action> <!-- operation="delete"-->
```

```

operation="delete"--> <redirect-interface-name>IFNAME</redirect-interface-name> <!--
    </config>
  </ipv6>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) sctp (any) (eq|neq|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)|) (flow-label <0-1048575>|) (vlan <1-4094>|) (inner-vlan <1-
  4094>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

This command is supported when following feature are enabled IPV6 feature

Attribute Name: redirect-interface-name

Attribute Type: string

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|neq|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|neq|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)

Attribute Name: flow-label

Attribute Type: uint32

Attribute Range: 0-1048575

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
            <destination-port-operator>eq</destination-port-operator> <!--
operation="delete"-->
            <sctp-destination-port>0</sctp-destination-port> <!--
operation="delete"-->
            <dscp>default</dscp> <!-- operation="delete"-->
```

```

        <flow-label>0</flow-label> <!-- operation="delete"-->
        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
        <monitor-action>log</monitor-action> <!-- operation="delete"-->
        <redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
        </config>
    </ipv6>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) sctp (any) (eq|neq|lt|gt) <0-65535> (any)
(eq|neq|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)|) (flow-label <0-1048575>|) (vlan <1-4094>|) (inner-vlan <1-
4094>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

This command is supported when following feature are enabled IPV6 feature

Attribute Name: redirect-interface-name

Attribute Type: string

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|neq|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)

Attribute Name: flow-label

Attribute Type: uint32

Attribute Range: 0-1048575

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-
->
```

```

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"-->
<flow-label>0</flow-label> <!-- operation="delete"-->
<vlan-id>1</vlan-id> <!-- operation="delete"-->
<inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
<monitor-action>log</monitor-action> <!-- operation="delete"-->
<redirect-interface-name>IFNAME</redirect-interface-name> <!--
operation="delete"-->
</config>
</ipv6>
</acl-entry>
</acl-entries>
</acl-set>
</acl-sets>
</acl>

```

Command Syntax

```

(<1-268435453>|) (deny|permit) sctp (any) (eq|neq|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)|) (flow-label <0-1048575>|) (vlan <1-4094>|) (inner-vlan <1-
4094>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

This command is supported when following feature are enabled IPV6 feature

Attribute Name: redirect-interface-name

Attribute Type: string

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)

Attribute Name: flow-label

Attribute Type: uint32

Attribute Range: 0-1048575

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
```



```

operation="delete"--> <destination-address>any</destination-address> <!--
                        <dscp>default</dscp> <!-- operation="delete"-->
                        <flow-label>0</flow-label> <!-- operation="delete"-->
                        <vlan-id>1</vlan-id> <!-- operation="delete"-->
                        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
                        <monitor-action>log</monitor-action> <!-- operation="delete"-->
operation="delete"--> <redirect-interface-name>IFNAME</redirect-interface-name> <!--
                        </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)|) (flow-label <0-1048575>|) (vlan <1-4094>|) (inner-vlan <1-
  4094>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

This command is supported when following feature are enabled IPV6 feature

Attribute Name: redirect-interface-name

Attribute Type: string

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|neq|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)

Attribute Name: flow-label

Attribute Type: uint32

Attribute Range: 0-1048575

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
```

```

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> <!--
                        <dscp>default</dscp> <!-- operation="delete"-->
                        <flow-label>0</flow-label> <!-- operation="delete"-->
                        <vlan-id>1</vlan-id> <!-- operation="delete"-->
                        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
                        <monitor-action>log</monitor-action> <!-- operation="delete"-->
operation="delete"--> <redirect-interface-name>IFNAME</redirect-interface-name> <!--
                        </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|neq|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)|) (flow-label <0-1048575>|) (vlan <1-4094>|) (inner-vlan <1-
    4094>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

This command is supported when following feature are enabled IPV6 feature

Attribute Name: redirect-interface-name

Attribute Type: string

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)

Attribute Name: flow-label

Attribute Type: uint32

Attribute Range: 0-1048575

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
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"-->
                        <flow-label>0</flow-label> <!-- operation="delete"-->
                        <vlan-id>1</vlan-id> <!-- operation="delete"-->
                        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
                        <monitor-action>log</monitor-action> <!-- operation="delete"-->
operation="delete"--> <redirect-interface-name>IFNAME</redirect-interface-name> <!--
                        </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)|) (flow-label <0-1048575>|) (vlan <1-4094>|) (inner-vlan <1-
4094>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

This command is supported when following feature are enabled IPV6 feature

Attribute Name: redirect-interface-name

Attribute Type: string

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)

Attribute Name: flow-label

Attribute Type: uint32

Attribute Range: 0-1048575

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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-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"-->
              <flow-label>0</flow-label> <!-- operation="delete"-->
              <vlan-id>1</vlan-id> <!-- operation="delete"-->
              <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
            </config>
          </ipv6>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

```

        <monitor-action>log</monitor-action> <!-- operation="delete"-->
        <redirect-interface-name>IFNAME</redirect-interface-name> <!--
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)|) (flow-label <0-1048575>|) (vlan <1-4094>|) (inner-vlan <1-
4094>|) ((log|sample)|) (redirect-to-port IFNAME|)

```

Configure redirect interface name

Use this attribute to set the interface name on which packet to be redirected (in-direction only)

This command is supported when following feature are enabled IPV6 feature

Attribute Name: redirect-interface-name

Attribute Type: string

Attribute Name: forwarding-action

Attribute Type: enum (deny|permit)

Attribute Name: protocol-name

Attribute Type: enum (ipipv6|ipv6ipv6|rsvp|gre|esp|ahp|ospf|pim|ipcomp|vrrp|any)

Attribute Name: source-address

Attribute Type: enum (any)

Attribute Name: destination-address

Attribute Type: enum (any)

Attribute Name: fragments

Attribute Type: empty

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: flow-label

Attribute Type: uint32

Attribute Range: 0-1048575

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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-name>ipipv6</protocol-name> <!-- operation="delete"--
>
              <source-address>any</source-address> <!-- operation="delete"-->
              <destination-address>any</destination-address> <!--
operation="delete"-->
              </fragments><!-- operation="delete"-->
              <dscp>default</dscp> <!-- operation="delete"-->
              <flow-label>0</flow-label> <!-- operation="delete"-->
              <vlan-id>1</vlan-id> <!-- operation="delete"-->
              <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
              <monitor-action>log</monitor-action> <!-- operation="delete"-->
              <redirect-interface-name>IFNAME</redirect-interface-name> <!--
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) (any) (any) fragments
(dscp
(default|cs1|af11|af12|af13|cs2|af21|af22|af23|cs3|af31|af32|af33|cs4|af41|af42|
af43|cs5|ef|cs6|cs7)|) (flow-label <0-1048575>|) (vlan <1-4094>|) (inner-vlan <1-
4094>|) ((log|sample)|) (redirect-to-port IFNAME|)
```

Configure fragment monitor action

Use this attribute to enable logging or sampling of the packets on which the match occurred (in-direction only).

This command is supported when following feature are enabled CUSTOM1 ACL feature, IPV6 feature

Attribute Name: fragment-monitor-action

Attribute Type: enum (log|sample)

Attribute Name: fragment-forwarding-action

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>
    <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>
        <fragment-actions>
          <config>
            <fragment-forwarding-action>deny-all</fragment-forwarding-
action> <!-- operation="delete"-->
            <fragment-monitor-action>log</fragment-monitor-action> <!--
operation="delete"-->
          </config>
        </fragment-actions>
      </ipv6>
    </acl-entry>
  </acl-entries>
</acl-set>
</acl-sets>
</acl>
```

Command Syntax

```
(<1-268435453>|) fragments (deny-all|permit-all) ((log|sample)|)
```

Configure 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
 Attribute Name: monitor-action
 Attribute Type: enum (log|sample)

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"-->
        <monitor-action>log</monitor-action> <!-- 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>|) ((log|sample)|)
```

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: 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

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
                <monitor-action>log</monitor-action> <!-- 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>|)
((log|sample)|)

```

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: 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

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
```

```

operation="delete"--> <source-ip-address>any</source-ip-address> <!--
operation="delete"--> <destination-ip-address>any</destination-ip-address> <!--
                        <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"-->
                        <monitor-action>log</monitor-action> <!-- 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>|)
((log|sample)|)

```

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

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
              <monitor-action>log</monitor-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"-->
            </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>|)
((log|sample)|)
```

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-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

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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>
```

```

operation="delete"--> <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"-->
<monitor-action>log</monitor-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"-->
</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>|)
((log|sample)|)

```

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-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

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
              <monitor-action>log</monitor-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"-->
            </config>
          </arp>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

```
</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>|)  
( (log|sample) |)
```

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

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
        <monitor-action>log</monitor-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"-->
      </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>|)
((log|sample)|)

```

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-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

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
        <monitor-action>log</monitor-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"-->
    </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>|)
((log|sample)|)

```

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-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

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
              <monitor-action>log</monitor-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"-->
            </config>
          </arp>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>

```



```

</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>|)
((log|sample)|)

```

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: 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

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
    <vlan-id>1</vlan-id> <!-- operation="delete"-->
    <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
    <monitor-action>log</monitor-action> <!-- 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>|) ((log|sample)|)

```

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: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: inner-vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
            <vlan-id>1</vlan-id> <!-- operation="delete"-->
            <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
            <monitor-action>log</monitor-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"-->
          </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>|)
((log|sample)|)
```

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: 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

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
```

```

        <monitor-action>log</monitor-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"-->
    </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>|)
((log|sample)|)

```

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|request|response)

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

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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-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"-->
              <monitor-action>log</monitor-action> <!-- 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 (request|response) (cos <0-7>|) (vlan
  <1-4094>|) (inner-vlan <1-4094>|) ((log|sample)|)

```

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-host

Attribute Type: string

Attribute Name: arp-packet-type

Attribute Type: enum (none|request|response)

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

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
              <monitor-action>log</monitor-action> <!-- 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 host (XX-XX-XX-XX-XX-
  XX|XX:XX:XX:XX:XX:XX|XXXX.XXXX.XXXX) arp (request|response) (cos <0-7>|) (vlan
  <1-4094>|) (inner-vlan <1-4094>|) ((log|sample)|)
```

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-address

Attribute Type: string

Attribute Name: destination-mac-mask

Attribute Type: string

Attribute Name: arp-packet-type

Attribute Type: enum (none|request|response)

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

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
                <monitor-action>log</monitor-action> <!-- 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 (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 (request|response) (cos <0-7>|) (vlan
<1-4094>|) (inner-vlan <1-4094>|) ((log|sample)|)

```

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|request|response)

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

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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-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"-->
              <monitor-action>log</monitor-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"-->
            </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 (request|response) (cos <0-7>|)
  (vlan <1-4094>|) (inner-vlan <1-4094>|) ((log|sample)|)

```

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-host

Attribute Type: string

Attribute Name: arp-packet-type

Attribute Type: enum (none|request|response)

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

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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>
        <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"-->
            <monitor-action>log</monitor-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"-->
          </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 (request|response) (cos <0-7>|) (vlan
<1-4094>|) (inner-vlan <1-4094>|) ((log|sample)|)

```

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-address

Attribute Type: string

Attribute Name: destination-mac-mask

Attribute Type: string

Attribute Name: arp-packet-type

Attribute Type: enum (none|request|response)

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

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
              <monitor-action>log</monitor-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"-->
            </config>
          </mac>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

```
</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 (request|response) (cos <0-7>|) (vlan
<1-4094>|) (inner-vlan <1-4094>|) ((log|sample)|)
```

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|request|response)

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

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
        <monitor-action>log</monitor-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"-->
      </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 (request|response) (cos <0-7>|)
(vlan <1-4094>|) (inner-vlan <1-4094>|) ((log|sample)|)

```

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-host

Attribute Type: string

Attribute Name: arp-packet-type

Attribute Type: enum (none|request|response)

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

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
              <monitor-action>log</monitor-action> <!-- operation="delete"-->
            </config>
          </mac>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```



```

        <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 (request|response) (cos <0-7>|) (vlan
<1-4094>|) (inner-vlan <1-4094>|) ((log|sample)|)

```

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-address

Attribute Type: string

Attribute Name: destination-mac-mask

Attribute Type: string

Attribute Name: arp-packet-type

Attribute Type: enum (none|request|response)

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

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
              <monitor-action>log</monitor-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"-->
            </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 (request|response) (cos <0-7>|) (vlan
<1-4094>|) (inner-vlan <1-4094>|) ((log|sample)|)

```

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|request|response)

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

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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-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"-->
        <monitor-action>log</monitor-action> <!-- 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>|) ((log|sample)|)

```

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-host

Attribute Type: string

Attribute Name: arp-packet-type

Attribute Type: enum (none|request|response)

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

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
              <monitor-action>log</monitor-action> <!-- 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>|) ((log|sample)|)

```

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-address

Attribute Type: string

Attribute Name: destination-mac-mask

Attribute Type: string

Attribute Name: arp-packet-type

Attribute Type: enum (none|request|response)

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

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
        <monitor-action>log</monitor-action> <!-- 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 (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>|) ((log|sample)|)

```

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|request|response)

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

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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-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"-->
              <monitor-action>log</monitor-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"-->
            </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>|) ((log|sample)|)

```

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-host

Attribute Type: string

Attribute Name: arp-packet-type

Attribute Type: enum (none|request|response)

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

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
              <monitor-action>log</monitor-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"-->
            </config>
          </mac>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

```

        </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>|) ((log|sample)|)

```

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-address

Attribute Type: string

Attribute Name: destination-mac-mask

Attribute Type: string

Attribute Name: arp-packet-type

Attribute Type: enum (none|request|response)

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

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
          <monitor-action>log</monitor-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"-->
        </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>|) ((log|sample)|)

```

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|request|response)

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

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
            </config>
          </mac>
        </acl-entry>
      </acl-entries>
    </acl-set>
  </acl-sets>
</acl>
```

```

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"-->
                        <monitor-action>log</monitor-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"-->
                        </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>|) ((log|sample)|)

```

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-host

Attribute Type: string

Attribute Name: arp-packet-type

Attribute Type: enum (none|request|response)

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

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
              <monitor-action>log</monitor-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"-->
            </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>|) ((log|sample)|)
```

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-address

Attribute Type: string

Attribute Name: destination-mac-mask

Attribute Type: string

Attribute Name: arp-packet-type

Attribute Type: enum (none|request|response)

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

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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"-->
        <monitor-action>log</monitor-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"-->
    </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>|) ((log|sample)|)

```

Configure monitor action

Use this attribute to enable logging or sampling of the packets on which the match occurred (in-direction only).

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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

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-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"-->
              <monitor-action>log</monitor-action> <!-- 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|ETHERTYPE)|) (cos <0-7>|) (vlan <1-4094>|) (inner-
vlan <1-4094>|) ((log|sample)|)
```

Configure monitor action

Use this attribute to enable logging or sampling of the packets on which the match occurred (in-direction only).

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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

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-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"-->
    <monitor-action>log</monitor-action> <!-- 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>|) ((log|sample)|)

```

Configure monitor action

Use this attribute to enable logging or sampling of the packets on which the match occurred (in-direction only).

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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

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-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"-->
              <monitor-action>log</monitor-action> <!-- 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>|) ((log|sample)|)
```

Configure monitor action

Use this attribute to enable logging or sampling of the packets on which the match occurred (in-direction only).

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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

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-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"-->
    <monitor-action>log</monitor-action> <!-- 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|arp|ipv6|mpls)|) (cos <0-7>|) (vlan <1-4094>|) (inner-vlan <1-
4094>|) ((log|sample)|)

```

Configure monitor action

Use this attribute to enable logging or sampling of the packets on which the match occurred (in-direction only).

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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

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-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"-->
              <monitor-action>log</monitor-action> <!-- 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>|) ((log|sample)|)
```

Configure monitor action

Use this attribute to enable logging or sampling of the packets on which the match occurred (in-direction only).

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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

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-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"-->
        <monitor-action>log</monitor-action> <!-- 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>|) ((log|sample)|)

```

Configure monitor action

Use this attribute to enable logging or sampling of the packets on which the match occurred (in-direction only).

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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|aarp|ipv6|mpls)

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-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"-->
          <monitor-action>log</monitor-action> <!-- 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|lavo-sca|etype-
8042|appletalk|arp|ipv6|mpls)|) (cos <0-7>|) (vlan <1-4094>|) (inner-vlan <1-
4094>|) ((log|sample)|)

```

Configure monitor action

Use this attribute to enable logging or sampling of the packets on which the match occurred (in-direction only).

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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|lavo-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

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-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"-->
              <monitor-action>log</monitor-action> <!-- 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>|) ((log|sample)|)

```

Configure monitor action

Use this attribute to enable logging or sampling of the packets on which the match occurred (in-direction only).

Attribute Name: monitor-action

Attribute Type: enum (log|sample)

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

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-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"-->
        <vlan-id>1</vlan-id> <!-- operation="delete"-->
        <inner-vlan-id>1</inner-vlan-id> <!-- operation="delete"-->
        <monitor-action>log</monitor-action> <!-- 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>|) ((log|sample)|)

```

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>
</access-groups>
</ingress-acl-set>
</ingress-acl-sets>
</interface>
</interfaces>
</acl>

```

Command Syntax

```
ip access-group NAME in
```

Configure acl 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 name

Reference to the base interface name

Attribute Name: name

Attribute Type: string

Attribute Name: acl-type

Attribute Type: enum (mac|ip|ipv6|arp)

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 name

Reference to the base interface name

Attribute Name: name

Attribute Type: string

Attribute Name: acl-type

Attribute Type: enum (mac|ip|ipv6|arp)

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 name

Reference to the base interface name

Attribute Name: name

Attribute Type: string

Attribute Name: acl-type

Attribute Type: enum (mac|ip|ipv6|arp)

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 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 in time-range WORD
```

Configure name

Reference to the base interface name

Attribute Name: name

Attribute Type: string

Attribute Name: acl-type

Attribute Type: enum (mac|ip|ipv6|arp)

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 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 name

Reference to the base interface name

Attribute Name: name

Attribute Type: string

Attribute Name: acl-type

Attribute Type: enum (mac|ip|ipv6|arp)

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 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 name

Reference to the base interface name

Attribute Name: name

Attribute Type: string

Attribute Name: acl-type

Attribute Type: enum (mac|ip|ipv6|arp)

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 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 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 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 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>
      </egress-acl-set>
    </egress-acl-sets>
  </vty-line>
</acl>

```

```
</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 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-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-bridges>
  </snooping>
</dhcp>
```

```
    </snooping-enable>  
</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>  
        </config>  
        </verify-mac-address><!-- operation="delete"-->  
      </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>  
      </snooping-bridge>  
    </snooping-bridges>  
  </snooping>  
</dhcp>
```

```

        </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>
        </config>
        <write-delay>20</write-delay> <!-- operation="delete"-->
      </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 vlan range

Use this command to enable DHCP snooping for the given VLAN.

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-range>VLAN_RANGE</vlan-range> <!-- operation="delete"-->
      </snooping-bridge>
    </snooping-bridges>
  </snooping>
</dhcp>
```

Command Syntax

```
ip dhcp snooping vlan VLAN_RANGE 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>
  </config>
  <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

Use this command to enable validation of the source-mac, destination-mac, or IP address field in the ARP packet payload.

Attribute Name: validate

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>src-mac</validate> <!-- 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>
```

Command Syntax

```
ip dhcp snooping arp-inspection 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>
        <source-guard-entries>
```

```

<source-guard-entry>
  <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>
</source-guard-entry>
</source-guard-entries>
</snooping-bridge>
</snooping-bridges>
</snooping>
</dhcp>

```

Command Syntax

```
ip source binding ipv4 A.B.C.D XXXX.XXXX.XXXX vlan <1-4094> interface IFNAME bridge
<1-32>
```

Configure if name

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>
  <source-guard-entries>
  <source-guard-entry>
    <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>
  </mac-address-ipv6>
</mac-addresses-ipv6>
</source-guard-entry>
</source-guard-entries>
</snooping-bridge>
</snooping-bridges>
</snooping>
</dhcp>
```

Command Syntax

```
ip source binding ipv6 X:X::X:X XXXX.XXXX.XXXX vlan <1-4094> interface IFNAME
  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>
      </snooping-bridge>
    </snooping-bridges>
  </snooping>
  <vlangs>
    <vlan>
      <vlan-id>1</vlan-id>
      <config>
        <vlan-id>1</vlan-id>
      </config>
    </vlan>
  </vlangs>
  <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 if name

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>
        </mac-address-ipv6>
      </mac-addresses-ipv6>
    </vlan>
  </vlans>
</dhcp>

```

```
        </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 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
```

IPI-PORT-MIRROR

Configure id

Port mirror session index

Attribute Name: id

Attribute Type: uint32

Attribute Range: 1-18

Attribute Name: type

Attribute Type: enum (local|remote)

Default Value: local

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>
        <type>local</type>
      </config>
    </session>
  </sessions>
</port-mirror>
```

Command Syntax

```
monitor session <1-18> (type (local|remote)|)
```

Configure enabled

Use this attribute to shut/unshut a port-mirror session

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>
      </enabled><!-- operation="delete"-->
    </session>
  </sessions>
</port-mirror>
```

Command Syntax

```
no shut
```

Configure enabled

Use this attribute to shut/unshut a port-mirror session

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>
      </enabled><!-- operation="delete"-->
    </session>
  </sessions>
</port-mirror>
```

Command Syntax

```
no monitor session <1-18> shut
```

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 source vlan

use this attribute to configure source-vlan

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-vlan>VLAN_RANGE</source-vlan> <!-- operation="delete"-->
    </session>
  </sessions>
</port-mirror>
```

Command Syntax

```
source vlan VLAN_RANGE
```

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>
    </session>
  </sessions>
  <destination>
    <local>
      <config>
        <interface-name>IFNAME</interface-name> <!-- operation="delete"-->
      </config>
    </local>
  </destination>
</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 direction

Source interface direction

This command is supported when following feature are enabled advance mirror feature

Attribute Name: direction

Attribute Type: enum (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>
  <source-interfaces>
  <source-interface>
    <name>IFNAME</name>
    <config>
      <name>IFNAME</name>
    </config>
    <direction>both</direction>
  </source-interface>
  </source-interfaces>
  </session>
  </sessions>
</port-mirror>

```

Command Syntax

```
source interface IFNAME ((rx|tx|both)|)
```

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">
  <entry> <!-- operation="delete"-->
    <ip-address>A.B.C.D</ip-address>
    <config>
      <ip-address>A.B.C.D</ip-address>
      <mac-address>XXXX.XXXX.XXXX</mac-address>
    </config>
    <vrf-name>NAME</vrf-name>
  </entry>
</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">
  <entry>
    <ip-address>A.B.C.D</ip-address>
    <config>
      <ip-address>A.B.C.D</ip-address>
      <mac-address>XXXX.XXXX.XXXX</mac-address>
    </config>
    <vrf-name>NAME</vrf-name>
    </respond-to-arp-request>
  </entry>
```



```
</arp>
```

Command Syntax

```
ip arp (vrf NAME|) A.B.C.D XXXX.XXXX.XXXX alias
```

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>
    </enable-proxy-arp><!-- operation="delete"-->
  </config>
  </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>
      </enable-local-proxy-arp><!-- operation="delete"-->
    </config>
  </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>
      </enable-ip-redirects><!-- operation="delete"-->
    </config>
  </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: 60-28800

Netconf edit-config payload

```
<arp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-arp">
  <interfaces>
    <interface>
      <name>WORD</name>
    <config>
      <arp-ageing-timeout>60</arp-ageing-timeout> <!-- operation="delete"-->
    </config>
  </interface>
</interfaces>
</arp>
```

Command Syntax

```
arp-ageing-timeout <60-28800>
```

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: 10-3600

Netconf edit-config payload

```
<arp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-arp">
  <interfaces>
    <interface>
      <name>WORD</name>
    <config>
      <arp-reachable-time>10</arp-reachable-time> <!-- operation="delete"-->
    </config>
  </interface>
</interfaces>
</arp>
```

Command Syntax

```
arp-reachable-time <10-3600>
```

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">
  <entry> <!-- operation="delete"-->
    <interface-name>IFNAME</interface-name>
    <ipv6-address>X:X::X:X</ipv6-address>
    <config>
      <ipv6-address>X:X::X:X</ipv6-address>
      <mac-address>XXXX.XXXX.XXXX</mac-address>
    </config>
  </entry>
</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: 60-28800

Netconf edit-config payload

```
<neighbor-discovery xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-neighbor-
discovery">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <nd-ageing-timeout>60</nd-ageing-timeout> <!-- operation="delete"-->
      </config>
    </interface>
  </interfaces>
</neighbor-discovery>
```

Command Syntax

```
nd-ageing-timeout <60-28800>
```

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: 10-3600

Netconf edit-config payload

```
<neighbor-discovery xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-neighbor-
discovery">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <nd-reachable-time>10</nd-reachable-time> <!-- operation="delete"-->
      </config>
    </interface>
  </interfaces>
</neighbor-discovery>
```

Command Syntax

```
nd-reachable-time <10-3600>
```

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)

Default Value: 0

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

```
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>
  </console>
</line-console>
</user-session>
```



```

    </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>
  <timeout>
  <config>
    <minutes>0</minutes>
  </config>
</timeout>
</console>
</line-console>
</user-session>
```

Command Syntax

```
exec-timeout <0-35791>
```

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-vty>
    <vty>
      <vty-id>0</vty-id>
      <config>
        <vty-id>0</vty-id>
      </config>
      <privilege-level>1</privilege-level> <!-- operation="delete"-->
    </vty>
  </line-vty>
</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-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 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>
```

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-vty>
    <vty>
      <vty-id>0</vty-id>
      <config>
        <vty-id>0</vty-id>
      </config>
    </vty>
  </line-vty>
</user-session>
```

```
    </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

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

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>
    <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>
</interface>
</interfaces>
</router-advertisement>
```

Command Syntax

```
ipv6 nd prefix X:X::X:X/M
```

Configure preferred lifetime

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>
    <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 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>
      <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>
        </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 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>
</interface>
</interfaces>
</router-advertisement>
```

Command Syntax

```
ipv6 nd prefix X:X::X:X/M <0-4294967295> <0-4294967295> no-autoconfig
```

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

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>
```

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>
</timers>
<config>
  <reachable-time>0</reachable-time> <!-- operation="delete"-->
</config>
</timers>
</interface>
</interfaces>
</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>
<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-NETWORK-ADDRESS-TRANSLATION

Configure generic timeout

Generic time-out for NAT translations

This command is supported when following feature are enabled NAT feature

Attribute Name: generic-timeout

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-536870

Netconf edit-config payload

```

<network-address-translation xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
network-address-translation">
  <timeouts>
  <config>
    <generic-timeout>0</generic-timeout> <!-- operation="delete"-->
  </config>
</timeouts>
</network-address-translation>

```

Command Syntax

```
ip nat translations time-out <0-536870>
```

Configure icmp timeout

ICMP timeout for NAT translations

This command is supported when following feature are enabled NAT feature

Attribute Name: icmp-timeout

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-536870

Netconf edit-config payload

```
<network-address-translation xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
network-address-translation">
  <timeouts>
    <config>
      <icmp-timeout>0</icmp-timeout> <!-- operation="delete"-->
    </config>
  </timeouts>
</network-address-translation>
```

Command Syntax

```
ip nat translations icmp-timeout <0-536870>
```

Configure tcp timeout

TCP timeout for NAT translation

This command is supported when following feature are enabled NAT feature

Attribute Name: tcp-timeout

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-536870

Netconf edit-config payload

```
<network-address-translation xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
network-address-translation">
  <timeouts>
    <config>
      <tcp-timeout>0</tcp-timeout> <!-- operation="delete"-->
    </config>
  </timeouts>
</network-address-translation>
```

Command Syntax

```
ip nat translations tcp-timeout <0-536870>
```

Configure udp timeout

UDP timeout for NAT translations

This command is supported when following feature are enabled NAT feature

Attribute Name: udp-timeout

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-536870

Netconf edit-config payload

```
<network-address-translation xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
network-address-translation">
  <timeouts>
    <config>
      <udp-timeout>0</udp-timeout> <!-- operation="delete"-->
    </config>
  </timeouts>
</network-address-translation>
```

Command Syntax

```
ip nat translations udp-timeout <0-536870>
```

Configure tcp fin timeout

TCP FIN timeout for NAT translations

This command is supported when following feature are enabled NAT feature

Attribute Name: tcp-fin-timeout

Attribute Type: uint32

Default Value: 0

Attribute Range: 0-536870

Netconf edit-config payload

```
<network-address-translation xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
network-address-translation">
  <timeouts>
    <config>
      <tcp-fin-timeout>0</tcp-fin-timeout> <!-- operation="delete"-->
    </config>
  </timeouts>
</network-address-translation>
```

Command Syntax

```
ip nat translations tcp-fin-timeout <0-536870>
```

Configure global address

Network Address Translation Address global address

This command is supported when following feature are enabled NAT feature

Attribute Name: global-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<network-address-translation xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
network-address-translation">
  <ip-rules>
    <incoming>
      <source-mapping-entries>
        <source-mapping-entry> <!-- operation="delete"-->
          <global-address>A.B.C.D</global-address>
          <config>
            <global-address>A.B.C.D</global-address>
            <local-address>A.B.C.D</local-address>
          </config>
          <local-address>A.B.C.D</local-address>
        </source-mapping-entry>
      </source-mapping-entries>
    </incoming>
  </ip-rules>
</network-address-translation>
```

Command Syntax

```
ip nat inside source static A.B.C.D A.B.C.D
```

Configure global address

Network Address Translation Address global address

This command is supported when following feature are enabled NAT feature

Attribute Name: global-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<network-address-translation xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
network-address-translation">
  <ip-rules>
    <incoming>
      <destination-mapping-entries>
        <destination-mapping-entry> <!-- operation="delete"-->
          <global-address>A.B.C.D</global-address>
          <config>
            <global-address>A.B.C.D</global-address>
            <local-address>A.B.C.D</local-address>
          </config>
        </destination-mapping-entry>
      </destination-mapping-entries>
    </incoming>
  </ip-rules>
</network-address-translation>
```

```

    <local-address>A.B.C.D</local-address>
  </destination-mapping-entry>
</destination-mapping-entries>
</incoming>
</ip-rules>
</network-address-translation>

```

Command Syntax

```
ip nat inside destination static A.B.C.D A.B.C.D
```

Configure global address

Network Address Translation Address global address

This command is supported when following feature are enabled NAT feature

Attribute Name: global-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```

<network-address-translation xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
network-address-translation">
  <ip-rules>
    <outgoing>
      <source-mapping-entries>
        <source-mapping-entry> <!-- operation="delete"-->
          <global-address>A.B.C.D</global-address>
          <config>
            <global-address>A.B.C.D</global-address>
            <local-address>A.B.C.D</local-address>
          </config>
          <local-address>A.B.C.D</local-address>
        </source-mapping-entry>
      </source-mapping-entries>
    </outgoing>
  </ip-rules>
</network-address-translation>

```

Command Syntax

```
ip nat outside source static A.B.C.D A.B.C.D
```

Configure global address

Network Address Translation Address global address

This command is supported when following feature are enabled NAT feature

Attribute Name: global-address

Attribute Type: inet:ipv4-address

Netconf edit-config payload

```
<network-address-translation xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
network-address-translation">
  <ip-rules>
    <outgoing>
      <destination-mapping-entries>
        <destination-mapping-entry> <!-- operation="delete"-->
          <global-address>A.B.C.D</global-address>
          <config>
            <global-address>A.B.C.D</global-address>
            <local-address>A.B.C.D</local-address>
          </config>
          <local-address>A.B.C.D</local-address>
        </destination-mapping-entry>
      </destination-mapping-entries>
    </outgoing>
  </ip-rules>
</network-address-translation>
```

Command Syntax

```
ip nat outside destination static A.B.C.D A.B.C.D
```

Configure address

Network Address Translation global address

This command is supported when following feature are enabled NAT feature

Attribute Name: address

Attribute Type: inet:ipv4-address

Attribute Name: global-port

Attribute Type: uint16

Attribute Range: 0-65535

Netconf edit-config payload

```
<network-address-translation xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
network-address-translation">
  <ip-rules>
    <outgoing>
      <protocol-rule-mapping-entries>
        <protocol-rule-mapping-entry>
          <port>0</port>
          <config>
            <port>0</port>
            <local-address>A.B.C.D</local-address>
            <protocol>tcp</protocol>
          </config>
          <local-address>A.B.C.D</local-address>
          <protocol>tcp</protocol>
        </protocol-rule-mapping-entry>
      </protocol-rule-mapping-entries>
    </outgoing>
  </ip-rules>
</network-address-translation>
```



```

<global-address> <!-- operation="delete"-->
  <address>A.B.C.D</address>
  <config>
    <address>A.B.C.D</address>
    <global-port>0</global-port>
  </config>
</global-address>
</global-addresses>
</protocol-rule-mapping-entry>
</protocol-rule-mapping-entries>
</outgoing>
</ip-rules>
</network-address-translation>

```

Command Syntax

```
ip nat outside destination static (tcp|udp) A.B.C.D <0-65535> A.B.C.D <0-65535>
```

IPI-NETWORK-ADDRESS-TRANSLATION-INTERFACE

Configure incoming

Incoming interface

Attribute Name: incoming

Attribute Type: empty

Netconf edit-config payload

```

<network-address-translation xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-
network-address-translation">
  <interfaces>
    <interface>
      <name>WORD</name>
      <config>
        <name>WORD</name>
      </config>
      </incoming><!-- operation="delete"-->
    </interface>
  </interfaces>
</network-address-translation>

```

Command Syntax

```
ip nat inside
```

Configure outgoing

Outgoing interface

Attribute Name: outgoing

Attribute Type: empty

Netconf edit-config payload

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

Command Syntax

```
ip nat outside
```

IPI-CFM

Configure cache enable

This attribute specifies the cache enable

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

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)

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)
```

Configure type

Type discriminator for the value union described in the 'md-name' leaf

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.

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-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 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: 1-4094

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>
          <bridge-id>1</bridge-id> <!-- operation="delete"-->
        </maintenance-association>
      </maintenance-associations>
    </maintenance-domain>
  </maintenance-domains>
</cfm>

```

Command Syntax

```
vlan <1-4094> (bridge <1-32>|)
```

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: 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-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-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: 1-4094

Attribute Name: vlan-id

Attribute Type: uint16

Attribute Range: 1-4094

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 <1-4094> (inner-vlan <1-4094>|)
```

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-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>  
</maintenance-domain>  
</maintenance-domains>  
</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-domain>
</maintenance-domains>
<maintenance-associations>
<maintenance-association>
  <ma-name>MA_NAME</ma-name>
  <config>
    <ma-name>MA_NAME</ma-name>
    <mip-interface-name>IFNAME</mip-interface-name> <!-- operation="delete"-->
  </config>
</maintenance-association>
</maintenance-associations>
</maintenance-domains>
</cfm>

```

Command Syntax

```
ethernet cfm mip interface IFNAME
```

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 (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-domain>
</maintenance-domains>
<maintenance-associations>
<maintenance-association>
  <ma-name>MA_NAME</ma-name>
  <config>
    <ma-name>MA_NAME</ma-name>
    <ccm-interval>10ms</ccm-interval> <!-- operation="delete"-->
  </config>
</maintenance-association>
</maintenance-associations>

```

```
</maintenance-domain>
</maintenance-domains>
</cfm>
```

Command Syntax

```
cc interval (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-domain>
</maintenance-domains>
<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

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-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>
</maintenance-association>
</maintenance-associations>
</maintenance-domain>
</maintenance-domains>
</cfm>
```

Command Syntax

```
ethernet cfm mep (down|up) mpid <1-8191> active (false|true) IFNAME
```

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-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>
  <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 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

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-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 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-domain>
  </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>
    <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)
```

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
```

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)

Attribute Name: terminal-debug-options

Attribute Type: bits (events|rx|tx|loopback|traceroute)

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)
```

no debug ethernet cfm (events|rx|tx|loopback|traceroute)

Attribute Name: terminal-debug-options

Attribute Type: bits (events|rx|tx|loopback|traceroute)

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>
```

Command Syntax

```
no debug ethernet cfm (events|rx|tx|loopback|traceroute)
```

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-Y1731

Configure enable status

This attribute specifies whether ETH-AIS transmission is enabled

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>
      <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 interval

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-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 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>
    </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

Attribute Name: message-period

Attribute Type: enum (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 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 (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>
</ethernet-loss-measurement-profile>
</ethernet-loss-measurement-profiles>
</cfm>
```

```
        <message-period>1s</message-period> <!-- operation="delete"-->
</ethernet-loss-measurement-profile>
</ethernet-loss-measurement-profiles>
</cfm>
```

Command Syntax

```
message-period (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 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 message period

This attribute specifies the message period for the SOAM DM Session

Attribute Name: message-period

Attribute Type: enum (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 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>
</config>
  <measurement-interval>1</measurement-interval> <!-- operation="delete"-->
</ethernet-delay-measurement-profile>
</ethernet-delay-measurement-profiles>
</cfm>
```

Command Syntax

```
measurement-interval <1-1440>
```

Configure 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 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: 1-43

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: 1-43

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: 1-43

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: 1-43

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: 1-43

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: 1-43

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: 1-43
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 rmp (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: rmp-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: 1-43

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>
  <rmp-id>CFM_RMEP_TYPE_T</rmp-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: 1-43

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: 1-43

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: 1-43

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: 1-43

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: 1-43

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: 1-43

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>
```

```
</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
```

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 (e2e-transparent)

Netconf edit-config payload

```
<ptp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
  <ntp-instance> <!-- operation="delete"-->
    <instance-type>0</instance-type>
    <config>
      <instance-type>0</instance-type>
      <profile>e2e-transparent</profile>
    </config>
  </ntp-instance>
</ntp>
```

Command Syntax

```
ntp clock <0-1> profile (e2e-transparent)
```

Configure enable

Use this attribute to debug the ntp 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

```
<ntp xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-ntp">
  <debug>
  <config>
    </enable><!-- operation="delete"-->
  </config>
</ntp>
```



```
</config>  
</debug>  
</ptp>
```

Command Syntax

```
debug ptp
```

IPI-PORT-BREAKOUT

Configure port number

Use this attribute to set the port number associated with this instance

Attribute Name: port-number

Attribute Type: uint8

Attribute Range: 1-128

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">  
  <breakouts>  
    <breakout> <!-- operation="delete"-->  
      <port-number>1</port-number>  
      <config>  
        <port-number>0</port-number>  
        <mode>4X10g</mode>  
      </config>  
    </breakout>  
  </breakouts>  
</port-breakout>
```

Command Syntax

```
port <1-128> breakout (4X10g|4X25g|2X50g)
```

Configure port group

Use this attribute to set the port group associated with this instance

This command is supported when following feature are disabled DUNE feature

Attribute Name: port-group

Attribute Type: uint8

Attribute Range: 1-64

Attribute Name: speed

Attribute Type: enum (10g)

Netconf edit-config payload

```
<port-breakout xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-port-breakout">
<groups-speed>
<group-speed> <!-- operation="delete"-->
  <port-group>1</port-group>
  <config>
    <port-group>0</port-group>
    <speed>10g</speed>
  </config>
</group-speed>
</groups-speed>
</port-breakout>
```

Command Syntax

```
port-group <1-64> speed (10g)
```

Configure mode

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-SOURCE-INTERFACE

Configure protocol type

Protocol type to apply the source-interface.

This command is supported when following feature are enabled hostp feature

Attribute Name: protocol-type

Attribute Type: enum (tacacs+|ntp|snmp|syslog|radius)

Attribute Name: port-number

Attribute Type: union

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> <!-- operation="delete"-->
        <protocol-type>tacacs+</protocol-type>
        <config>
          <protocol-type>tacacs+</protocol-type>
          <interface-name>WORD</interface-name>
          <port-number>0</port-number>
          <vrf-name>VRF_NAME</vrf-name>
        </config>
        <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 (0|<1025-
65535>)|) (vrf VRF_NAME|)
```

Configure protocol type

Protocol type to apply the source-interface.

This command is supported when following feature are enabled IPV6 feature, hostp feature

Attribute Name: protocol-type

Attribute Type: enum (tacacs+|ntp|snmp|syslog|radius)

Attribute Name: port-number

Attribute Type: union

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> <!-- operation="delete"-->
```

```
<protocol-type>tacacs+</protocol-type>
<config>
  <protocol-type>tacacs+</protocol-type>
  <interface-name>WORD</interface-name>
  <port-number>0</port-number>
  <vrf-name>VRF_NAME</vrf-name>
</config>
<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 (0|<1025-65535>)|) (vrf VRF_NAME|)
```

IPI-TACACS

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+
```

Configure feature enable

Use this attribute to enable the TACACS+ feature

Attribute Name: feature-enable

Attribute Type: empty

Netconf edit-config payload

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

```

    <vrf-name>management</vrf-name>
  <config>
    <vrf-name>management</vrf-name>
  </config>
</feature-enable>
</vrf>
</tacacs>

```

Command Syntax

```
feature tacacs+ (vrf management|)
```

Configure vrf name

VRF Name associated with this instance

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

```

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

```

Command Syntax

```
tacacs-server login key (0|7) WORD (vrf management|)
```

Configure vrf name

VRF Name associated with this instance

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

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

Command Syntax

```
tacacs-server login key (0|7) WORD (vrf management|)
```

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">
<vrf>
  <vrf-name>management</vrf-name>
  <config>
    <vrf-name>management</vrf-name>
    <timeout>1</timeout> <!-- operation="delete"-->
  </config>
</vrf>
</tacacs>
```

Command Syntax

```
tacacs-server login timeout <1-60> (vrf management|)
```

Configure sequence number

Use this attribute to set the sequence-number/priority index for the TACACS+ server

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">
<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>
  </config>
  <sequence-number>1</sequence-number>
</server>
</remote-servers>
</vrf>
</tacacs>
```

Command Syntax

```
tacacs-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf management|) seq-num <1-8>
```

Configure secret key string

Shared key used between the authentication-server and the device

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

```
<tacacs xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-tacacs">
<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"-->
</config>
  <secret-key-string>WORD</secret-key-string> <!-- operation="delete"-->
</server>
</remote-servers>
</vrf>
</tacacs>
```

Command Syntax

```
tacacs-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf management|) seq-num <1-8> key (0|7) WORD
```

Configure port

Port number used for TACACS+ Server Connection

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">
<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>
  <port>1025</port> <!-- operation="delete"-->
</server>
</remote-servers>
</vrf>
</tacacs>
```

Command Syntax

```
tacacs-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf management|) seq-num <1-8> port <1025-65535>
```

Configure timeout

To represent the timeout configured by the user

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">
  <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>
</tacacs>
```

Command Syntax

```
tacacs-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf management|) seq-num <1-8> timeout <1-60>
```

Configure timeout

To represent the timeout configured by the user

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">
  <vrf>
    <vrf-name>management</vrf-name>
    <config>
      <vrf-name>management</vrf-name>
    </config>
  </vrf>
  <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|) seq-num <1-8> port <1025-65535> timeout <1-60>
```

Configure port

Port number used for TACACS+ Server Connection

Attribute Name: port

Attribute Type: uint32

Attribute Range: 1025-65535

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

```

<tacacs xmlns="http://www.ipinfusion.com/yang/ocnos/ipi-tacacs">
  <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>
    <port>1025</port> <!-- operation="delete"-->
  </server>
</remote-servers>
</vrf>
</tacacs>

```

Command Syntax

```

tacacs-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf management|) seq-num <1-8> key (0|7) WORD port <1025-65535>

```

Configure timeout

To represent the timeout configured by the user

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: 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">
  <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>1</timeout> <!-- operation="delete"-->
</server>
</remote-servers>
</vrf>
</tacacs>

```

Command Syntax

```

tacacs-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf management|) seq-num <1-8> key (0|7) WORD timeout <1-60>

```

Configure timeout

To represent the timeout configured by the user

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: key-type

Attribute Type: enum (0|7)

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">
  <vrf>
    <vrf-name>management</vrf-name>
  </vrf>
  <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"-->
    <port>1025</port> <!-- operation="delete"-->
  </config>
  <timeout>1</timeout> <!-- operation="delete"-->
</server>
</remote-servers>
</vrf>
</tacacs>

```

Command Syntax

```

tacacs-server login host (A.B.C.D|X:X::X:X|HOSTNAME) (vrf management|) seq-num <1-8> key (0|7) WORD port <1025-65535> timeout <1-60>

```

clear tacacs-server counters (vrf management|)

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|)

```

clear tacacs-server (A.B.C.D|X:X::X:X|HOSTNAME) counters (vrf (management|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|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

use this attribute to configure name

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>
  </end-time-options>
</config>
  <absolute-end-time>TIME_RANGE_DATE_TIME_T</absolute-end-time>
</config>
</end-time-options>
</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>
  </end-time-options>
</config>
  <relative-end-time>1</relative-end-time> <!-- operation="delete"-->
</config>
</end-time-options>
</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>
  <frequency-options>
    <config>
      <frequency>daily</frequency> <!-- operation="delete"-->
    </config>
  </frequency-options>
</time-ranges>
```

Command Syntax

```
frequency (daily|hourly|weekly|days WORD)
```

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
```

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">
  <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>
</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">
  <filebeat>
    <ip>A.B.C.D</ip>
    <config>
      <ip>A.B.C.D</ip>
    </config>
    <certificate-path>FILE-PATH</certificate-path> <!-- operation="delete"-->
  </filebeat>
</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-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 vrf name

VRF Name

Attribute Name: vrf-name

Attribute Type: string

Default Value: default

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>
      <to-port-num>-1</to-port-num>
      <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>
      </config>
      <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|source-interface) (A.B.C.D|IFNAME) 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

Default Value: default

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>
  <to-ip-addr>A.B.C.D|IFNAME</to-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>
  </config>
  <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
```

module: 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 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 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-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 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

```

module: 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
  |           | | +--rw monitor-action-default?     ipi-acl-types:acl_monitor_action_t
{feature-list:HAVE_SFLOW,feature-list:HAVE_CUSTOM1_ACL}?
  |           | +--ro state
  |           |   +--ro counters
  |           |   | +--ro matched-packets?  yang:counter64

```



```

| | | +--ro forwarding-action-default ipi-acl-
types:acl_default_forwarding_action_t
| | | +--ro monitor-action-default? ipi-acl-types:acl_monitor_action_t
{feature-list:HAVE_SFLOW,feature-list:HAVE_CUSTOM1_ACL}?
| | | +--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 monitor-action? ipi-acl-
types:acl_monitor_action_t {feature-list:HAVE_SFLOW,feature-list:HAVE_CUSTOM1_ACL}?
| | | | | | +--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
| | | | | | | | | | +--rw icmp-message? ipi-acl-
types:acl_icmp_options_t {feature-list:HAVE_CUSTOM1_ACL}?
| | | | | | | | | | +--rw icmp-type? uint8 {feature-
list:HAVE_CUSTOM1_ACL}?
| | | | | | | | | | +--rw icmp-code? uint8 {feature-
list:HAVE_CUSTOM1_ACL}?
| | | | | | | | | | +--:(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
| | | | +---rw redirect-interface-name?         string {feature-
list:HAVE_CUSTOM1_ACL}?
| | | | +---rw fragments?                       empty {feature-
list:HAVE_CUSTOM1_ACL}?
| | | | +---ro state
| | | | +---ro counters
| | | | | +---ro matched-packets?      yang:counter64
| | | | +---ro forwarding-action           ipi-acl-
types:acl_forwarding_action_t
| | | | +---ro vlan-id?                     uint16
| | | | +---ro monitor-action?             ipi-acl-
types:acl_monitor_action_t {feature-list:HAVE_SFLOW,feature-list:HAVE_CUSTOM1_ACL}?
| | | | +---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
| | | | | +---ro icmp-message?            ipi-acl-
types:acl_icmp_options_t {feature-list:HAVE_CUSTOM1_ACL}?
| | | | | +---ro icmp-type?                uint8 {feature-
list:HAVE_CUSTOM1_ACL}?
| | | | | +---ro icmp-code?                uint8 {feature-
list:HAVE_CUSTOM1_ACL}?
| | | | | +---:(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
| | | | +--ro redirect-interface-name? string {feature-
list:HAVE_CUSTOM1_ACL}?
| | | | +--ro fragments? empty {feature-
list:HAVE_CUSTOM1_ACL}?
| | | | +--rw fragment-actions {feature-list:HAVE_CUSTOM1_ACL}?
| | | | +--rw config
| | | | +--rw fragment-forwarding-action ipi-acl-
types:acl_fragment_forwarding_action_t {feature-list:HAVE_CUSTOM1_ACL}?
| | | | +--rw fragment-monitor-action? ipi-acl-
types:acl_monitor_action_t {feature-list:HAVE_SFLOW,feature-list:HAVE_CUSTOM1_ACL}?
| | | | +--ro state
| | | | +--ro fragment-forwarding-action ipi-acl-
types:acl_fragment_forwarding_action_t {feature-list:HAVE_CUSTOM1_ACL}?
| | | | +--ro fragment-monitor-action? ipi-acl-
types:acl_monitor_action_t {feature-list:HAVE_SFLOW,feature-list:HAVE_CUSTOM1_ACL}?
| | | | +--rw ipv6 {feature-list:HAVE_IPV6}?
| | | | +--rw config
| | | | +--rw forwarding-action ipi-acl-
types:acl_forwarding_action_t
| | | | +--rw vlan-id? uint16
| | | | +--rw monitor-action? ipi-acl-
types:acl_monitor_action_t {feature-list:HAVE_SFLOW,feature-list:HAVE_CUSTOM1_ACL}?
| | | | +--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 inner-vlan-id? uint16 {feature-
list:HAVE_CUSTOM1_ACL}?
| | | | +--rw flow-label? uint32 {feature-
list:HAVE_CUSTOM1_ACL}?
| | | | +--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 {feature-list:HAVE_CUSTOM1_ACL}?
| | | | | +--:(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

```

types:acl_icmpv6_options_t {feature-list:HAVE_CUSTOM1_ACL}?	+++rw icmp-message?	ipi-acl-
list:HAVE_CUSTOM1_ACL}?	+++rw icmp-type?	uint8 {feature-
list:HAVE_CUSTOM1_ACL}?	+++rw icmp-code?	uint8 {feature-
	+++:(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		
types:acl_src_port_operations_t	+++rw source-port-operator?	ipi-acl-
	+++rw lower-source-port-in-range?	uint16
	+++rw upper-source-port-in-range?	uint16
types:acl_dest_port_operations_t	+++rw destination-port-operator?	ipi-acl-
	+++rw lower-destination-port-in-range?	uint16
	+++rw upper-destination-port-in-range?	uint16
list:HAVE_CUSTOM1_ACL}?	+++rw redirect-interface-name?	string {feature-
list:HAVE_CUSTOM1_ACL}?	+++rw fragments?	empty {feature-
	+++ro state	
	+++ro counters	
	+++ro matched-packets? yang:counter64	
types:acl_forwarding_action_t	+++ro forwarding-action	ipi-acl-
	+++ro vlan-id?	uint16
types:acl_monitor_action_t {feature-list:HAVE_SFLOW,feature-list:HAVE_CUSTOM1_ACL}?	+++ro monitor-action?	ipi-acl-
types:acl_any_ipv6_src_addr_t	+++ro source-address	ipi-acl-
types:acl_any_ipv6_dest_addr_t	+++ro destination-address	ipi-acl-
	+++ro dscp?	ipi-acl-types:acl_dscp_t
list:HAVE_CUSTOM1_ACL}?	+++ro inner-vlan-id?	uint16 {feature-
list:HAVE_CUSTOM1_ACL}?	+++ro flow-label?	uint32 {feature-
	+++ro (protocol)?	
	+++:(tcp)	
	+++ro protocol-tcp	empty
types:acl_tcp_src_port_t	+++ro tcp-source-port?	ipi-acl-
types:acl_tcp_dest_port_t	+++ro tcp-destination-port?	ipi-acl-
types:acl_tcp_flags_t {feature-list:HAVE_CUSTOM1_ACL}?	+++ro tcp-flags?	ipi-acl-
	+++:(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-message? ipi-acl-
types:acl_icmpv6_options_t {feature-list:HAVE_CUSTOM1_ACL}?
| | | | | | +--ro icmp-type? uint8 {feature-
list:HAVE_CUSTOM1_ACL}?
| | | | | | +--ro icmp-code? uint8 {feature-
list:HAVE_CUSTOM1_ACL}?
| | | | | | +---:(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
| | | | | | +--ro redirect-interface-name? string {feature-
list:HAVE_CUSTOM1_ACL}?
| | | | | | +--ro fragments? empty {feature-
list:HAVE_CUSTOM1_ACL}?
| | | | | | +--rw fragment-actions {feature-list:HAVE_CUSTOM1_ACL}?
| | | | | | +--rw config
| | | | | | +--rw fragment-forwarding-action ipi-acl-
types:acl_fragment_forwarding_action_t {feature-list:HAVE_CUSTOM1_ACL}?
| | | | | | +--rw fragment-monitor-action? ipi-acl-
types:acl_monitor_action_t {feature-list:HAVE_SFLOW,feature-list:HAVE_CUSTOM1_ACL}?
| | | | | | +--ro state
| | | | | | +--ro fragment-forwarding-action ipi-acl-
types:acl_fragment_forwarding_action_t {feature-list:HAVE_CUSTOM1_ACL}?
| | | | | | +--ro fragment-monitor-action? ipi-acl-
types:acl_monitor_action_t {feature-list:HAVE_SFLOW,feature-list:HAVE_CUSTOM1_ACL}?
| | | | | | +--rw arp
| | | | | | +--rw config
| | | | | | +--rw forwarding-action ipi-acl-
types:acl_forwarding_action_t
| | | | | | +--rw vlan-id? uint16
| | | | | | +--rw monitor-action? ipi-acl-
types:acl_monitor_action_t {feature-list:HAVE_SFLOW,feature-list:HAVE_CUSTOM1_ACL}?
| | | | | | +--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 monitor-action? ipi-acl-
types:acl_monitor_action_t {feature-list:HAVE_SFLOW,feature-list:HAVE_CUSTOM1_ACL}?
| | | | | +--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 monitor-action?          ipi-acl-
types:acl_monitor_action_t {feature-list:HAVE_SFLOW,feature-list:HAVE_CUSTOM1_ACL}?
|          |          | +--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
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 monitor-action?          ipi-acl-
types:acl_monitor_action_t {feature-list:HAVE_SFLOW,feature-list:HAVE_CUSTOM1_ACL}?
|          |          | +--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
|     +---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

```

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

```

module: 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
    +--ro equipment-failure?  boolean

```

```

notifications:

```

```

+---n alarm
  +---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

```

module: ipi-arp

```

+--rw arp
  +--rw entry* [vrf-name ip-address]
  | +--rw vrf-name      -> /ipi-network-instance:network-instances/network-instance/
  | ipi-vrf:vrf/config/vrf-name
  | +--rw ip-address   -> ../config/ip-address
  | +--rw config
  | | +--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 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 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        -> /ipi-interface:interfaces/interface/name
  |   +--rw config
  |   | +--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 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

```

module: ipi-authentication-radius

```

+---rw authentication-radius {feature-list:HAVE_ENCRYPT_CLEARTXT}?
  +---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

```

module: ipi-authentication

```

+---rw authentication {feature-list:HAVE_AUTHD}?
    +---rw global
        | +---rw config
        | | +---rw dot1x-authentication?         empty
        | +---ro state
        | +---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
| | +---ro state
| | +---ro reauthentication-period? uint32
| | +---ro enable-reauthentication? empty
| +---ro reauthentication-timer-operational
| | +---ro state
| | +---ro reauthentication-period-operational? uint32
| | +---ro enable-reauthentication-operational? empty
| +---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 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-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

```

module: 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 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
| +---ro state
| +---ro options?        ipi-bfd-types:bfd_debug_t
| +---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
| +---ro state
| | +---ro name?            -> /ipi-interface:interfaces/interface/name
| | +---ro bfd-disabled?    empty
| | +---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 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 packet
        +--ro clients
            +--ro client* [index]
                +--ro index -> ../state/index
                +--ro state
                    +--ro index?   uint32
                    +--ro flags?   ipi-bfd-types:oambfd_client_flags_t

```

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

```

notifications:

```

+---n bfd-session-state-change
  +---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

```

module: 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-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?          int32
  |   +--ro brd-as-number?  int32
+--ro bgp-rd-as4
  | +--ro state
  |   +--ro brd-as4?        int32
  |   +--ro brd-as-num4?    int32
+--ro bgp-rd-ip
  +--ro state
  | +--ro brd-ip?           int32
  | +--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

```

module: ipi-bgp

```

+--rw bgp
  +--rw global
  | +--rw config
  | | +--rw enable-aggregate-nexthop?    empty
  | | +--rw enable-path-select?          empty
  | | +--rw disable-adj-out?              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
  | | +--rw config-type?                  ipi-bgp-types:bgp_config_t
  | +--ro state
  | | +--ro enable-aggregate-nexthop?    empty
  | | +--ro enable-path-select?          empty
  | | +--ro disable-adj-out?              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
  | | +--ro config-type?                  ipi-bgp-types:bgp_config_t
  | +--rw community-lists
  | | +--rw numbered* [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-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 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-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-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-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* [standard-number]
| | | | | +---rw standard-number      -> ../config/standard-number
| | | | | +---rw config
| | | | | | +---rw standard-number?    uint32
| | | | | | +---ro state
| | | | | | +---ro standard-number?    uint32
| | | | | +---rw action-value* [extended-action-number extended-value]
| | | | |   +---rw extended-action-number -> ../config/extended-action-number
| | | | |   +---rw extended-value       -> ../config/extended-value
| | | | |   +---rw config
| | | | | | +---rw extended-action-number? ipi-bgp-
types:bgp_community_list_action_t
| | | | | | +---rw extended-value?      cml-data-types:cml_line_t
| | | | | | +---ro state
| | | | | | +---ro extended-action-number? ipi-bgp-
types:bgp_community_list_action_t
| | | | | | +---ro extended-value?      cml-data-types:cml_line_t
| | | | | +---rw standard* [name]
| | | | | | +---rw name                -> ../config/name
| | | | | | +---rw config
| | | | | | | +---rw name?            string
| | | | | | | +---ro state
| | | | | | | +---ro name?            string
| | | | | | +---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-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-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-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-13vpn-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-network-instance:network-instances/
network-instance/ipi-vrf:vrf/config/vrf-name
| | | +---rw label-alloc-type        ipi-bgp-types:bgp_13vpn_label_alloc_mode_t
| | +---ro state
| | +---ro address-family-name?    ipi-bgp-types:bgp_af_config_t
| | +---ro vrf-name?              -> /ipi-network-instance:network-instances/
network-instance/ipi-vrf:vrf/config/vrf-name
| | +---ro label-alloc-type        ipi-bgp-types:bgp_13vpn_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
|     | +--rw update-options?   ipi-bgp-types:bgp_update_debug_t
|     +--ro state
|       +--ro terminal-debug-status
|         | +--ro terminal-debug-status?      ipi-bgp-types:bgp_debug_t
|         | +--ro terminal-debug-update-status? ipi-bgp-types:bgp_update_debug_t
|         +--ro options?                    ipi-bgp-types:bgp_debug_t
|         +--ro update-options?             ipi-bgp-types:bgp_update_debug_t
+--rw bgp-instance* [bgp-as]
  +--rw bgp-as          -> ../config/bgp-as
  +--rw view-list* [view-name]
    | +--rw view-name   -> ../config/view-name
    | +--rw config
    | | +--rw view-name?  string
    | +--ro state
    |   +--ro view-name?  string
  +--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
  +--rw config
    | +--rw bgp-as?          uint32
    | +--rw router-id?       inet:ipv4-address
    | +--rw cluster-id?     ipi-bgp-types:bgp_cluster_id_t
    | +--rw confederation-identifier? uint32
    | +--rw local-preference? uint32
    | +--rw graceful-shutdown? empty
    | +--rw graceful-shutdown-capable? empty
    | +--rw graceful-shutdown-local-preference? uint32
    | +--rw inbound-route-filter-enable? 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 peer-as-number*  uint32

```

```

|   +-rw ignore-aigp-for-bestpath?          empty {feature-
list:HAVE_BGP_AIGP}?
  +-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 confederation-identifier?     uint32
    |   +-ro local-preference?             uint32
    |   +-ro graceful-shutdown?           empty
    |   +-ro graceful-shutdown-capable?    empty
    |   +-ro graceful-shutdown-local-preference? uint32
    |   +-ro inbound-route-filter-enable?  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 peer-as-number*              uint32
    |   +-ro ignore-aigp-for-bestpath?    empty {feature-
list:HAVE_BGP_AIGP}?
  +-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
+--ro route-flap-dampening
| +--ro state
|   +--ro maximum-penalty-ceil?    int32
|   +--ro minimum-penalty-ceil?    int32
+--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? | string
| | | | | +---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 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:ipv4-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

```

```

|
router-ip-address      +---ro originating-router-ip-address      -> ../state/originating-
|
|                    +---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
+---rw address-family* [afi safi]
| +---rw afi                                -> ../config/afi
| +---rw safi                                -> ../config/safi
| +---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 config
| | +---rw enable-auto-summary?            empty
| | +---rw enable-network-igp-sync?        empty
| | +---rw enable-igp-sync?                empty
| | +---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_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
| +---ro state
| | +---ro enable-auto-summary?            empty
| | +---ro enable-network-igp-sync?        empty
| | +---ro enable-igp-sync?                empty

```



```

| | +--ro afi? ipi-bgp-types:bgp_afi_type_t
| | +--ro safi? ipi-bgp-types:bgp_safi_type_t
types:bgp_additional_path_type_t {feature-list:HAVE_BGP_ADD_PATH}?
| | +--ro additional-paths-mode? ipi-bgp-
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
| +--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 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-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 unreachable-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 unreachable-half-life? uint32
| |   +--ro dampening-rmap-name?  string
| +--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 redistrib-route-map-name? string
| | +--ro state
| |   +--ro protocol-type?      ipi-bgp-types:bgp_redistribute_type_t
| |   +--ro redistrib-route-map-name? string
| +--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 peer-group* [peer-group-tag]
| +--rw peer-group-tag    -> ../config/peer-group-tag
| +--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 config
| | | +--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-local-as?   uint32
| | | +--rw peer-description? cml-data-types:cml_line_t
| | | +--rw enable-ebgp-multihop? empty

```

```

| | +---rw ebgp-maximum-hop-count?          uint8
| | +---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 disable-capability-negotiation? 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 peer-group-tag?              string
| | +---rw peer-group-range              ipi-bgp-
types:bgp_peer_group_type_t
| | +---rw group-limit?                  uint8
| +---ro state
| | +---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-local-as?                uint32
| | +---ro peer-description?             cml-data-types:cml_line_t
| | +---ro enable-ebgp-multihop?         empty
| | +---ro ebgp-maximum-hop-count?       uint8
| | +---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 disable-capability-negotiation? 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 peer-group-tag?                string
| | +---ro peer-group-range              ipi-bgp-
types:bgp_peer_group_type_t
| | +---ro group-limit?                  uint8
| +---rw timers
| | +---rw config!
| | | +---rw keep-alive      uint16
| | | +---rw hold-time      uint16
| | +---ro state
| |   +---ro keep-alive      uint16
| |   +---ro hold-time      uint16
| +---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 address-families
|   +---rw address-family* [afi safi]
|     +---rw afi                -> ../config/afi
|     +---rw safi                -> ../config/safi
|     +---rw maximum-prefixes* [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 config
|       | +---rw bgp-port?        uint16
|       | +---rw activate?        empty
|       | +---rw default-peer-route-map-name? empty
|       | +---rw peer-route-map-orig-name?  string
|       | +---rw soft-reconfig-inbound?    empty
|       | +---rw weight?                uint16
|       | +---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 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
| | +---ro state
| | +---ro bgp-port? | uint16
| | +---ro activate? | empty
| | +---ro default-peer-route-map-name? | empty
| | +---ro peer-route-map-orig-name? | string
| | +---ro soft-reconfig-inbound? | empty
| | +---ro weight? | uint16
| | +---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 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
| | +---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* [peer-address]
| +---rw peer-address -> ../config/peer-address
| +---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-family* [afi safi]
| | +--rw afi -> ../config/afi
| | +--rw safi -> ../config/safi
| | +--rw maximum-prefixes* [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-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-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-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-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 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? string
| | | | +--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 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? string
| | | |   +---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 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 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 soft-reconfig-inbound?     empty
| | | +---rw weight?                   uint16
| | | +---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 update-message-in? int32
| | | | +--ro update-message-out? int32
| | | | +--ro received-packet-count? int32
| | | | +--ro notification-in? int32
| | | | +--ro notification-out? 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 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 soft-reconfig-inbound? empty
| | | +--ro weight? uint16
| | | +--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 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?             string
    | | | +---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?    string
    | | | +---ro orf-type-prefix-receive-mode? string
    | | | +---ro orf-type-prefix-old?          cml-data-types:cml_line_t
    | | | +---ro orf-type-prefix-send-mode-old? string
    | | | +---ro orf-type-prefix-receive-mode-old? string
    | | | +---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 error-notify-sent?            boolean
    | | | +---ro notify-last-reset-time?       string
    | | | +---ro notify-code-string?           cml-data-types:cml_line_t
    | | | +---ro connection-type?             ipi-bgp-
types:bgp_connection_type_t
    | | | +---ro next-connection-timer?        int32
    | | | +---ro connection-established-count? 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 bgp-peer-state?               ipi-bgp-
types:bgp_peer_status_t
    | | | +---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-send-capability? string {feature-
list:HAVE_BGP_ADD_PATH}?
| | | +---ro additional-path-receive-capability? string {feature-
list:HAVE_BGP_ADD_PATH}?
| | | +---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 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
list:HAVE_BGP_AIGP}?
| |   | +--rw admin-status?    cml-data-types:cml_enable_disable_t {feature-
| |   | +--rw aigp-send-med?    empty
| |   | +--ro state
list:HAVE_BGP_AIGP}?
| |   | +--ro admin-status?    cml-data-types:cml_enable_disable_t {feature-
| |   | +--ro aigp-send-med?    empty
| |   | +--rw cost-community {feature-list:HAVE_BGP_AIGP}?
| |   | +--rw config!
list:HAVE_BGP_AIGP}?
| |   | +--rw send-cost-community-id    uint8 {feature-
types:bgp_aigp_metric_cost_community_poi_t {feature-list:HAVE_BGP_AIGP}?
| |   | +--rw enable-transitive?        empty {feature-list:HAVE_BGP_AIGP}?
| |   | +--ro state
list:HAVE_BGP_AIGP}?
| |   | +--ro send-cost-community-id    uint8 {feature-
types:bgp_aigp_metric_cost_community_poi_t {feature-list:HAVE_BGP_AIGP}?
| |   | +--ro enable-transitive?        empty {feature-list:HAVE_BGP_AIGP}?
| |   | +--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-local-as?          uint32
| |   | +--rw peer-description?       cml-data-types:cml_line_t
| |   | +--rw enable-ebgp-multihop?    empty
| |   | +--rw ebgp-maximum-hop-count?  uint8
| |   | +--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 disable-capability-negotiation? 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
| +--ro state
| | +--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-local-as?                 uint32
| | +--ro peer-description?              cml-data-types:cml_line_t
| | +--ro enable-ebgp-multihop?          empty
| | +--ro ebgp-maximum-hop-count?        uint8
| | +--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 disable-capability-negotiation? 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
| +--rw timers
|   +--rw config!
|     | +--rw keep-alive      uint16
|     | +--rw hold-time      uint16
|     +--ro state
|       +--ro keep-alive      uint16
|       +--ro hold-time      uint16
+--rw address-family-vrf* [afi safi vrf-name]
  +--rw afi                -> ../config/afi
  +--rw safi                -> ../config/safi
  +--rw vrf-name            -> ../config/vrf-name
  +--rw confederation* [peer-confederation-identifier]
    | +--rw peer-confederation-identifier -> ../config/peer-confederation-
identifier
    | +--rw config
    | | +--rw peer-confederation-identifier? uint32

```

```
| +--ro state
|   +--ro peer-confederation-identifier?   uint32
+--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 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-list* [protocol-type]
| +--rw protocol-type  -> ../config/protocol-type
| +--rw config
| | +--rw protocol-type?      ipi-bgp-types:bgp_redistribute_type_t
| | +--rw redistrib-map-name? string
| +--ro state
|   +--ro protocol-type?      ipi-bgp-types:bgp_redistribute_type_t
|   +--ro redistrib-map-name? string
+--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-peer* [peer-address]
| +--rw peer-address          -> ../config/peer-address
```



```

|   +---rw maximum-prefixes* [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-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-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-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-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-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 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? string
| | | +--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 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? string
| | | +--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 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 peer-local-as? uint32
| | +--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 ebgp-maximum-hop-count? uint8
| | +--rw enable-ebgp-multihop? empty
| | +--rw disable-capability-negotiation? 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 site-origin-identifier? string {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 soft-reconfig-inbound?        empty
    | | +---rw weight?                       uint16
    | | +---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
    | +--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 update-message-in?        int32
    | | | +--ro update-message-out?       int32
    | | | +--ro received-packet-count?     int32
    | | | +--ro notification-in?          int32
    | | | +--ro notification-out?         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 peer-address?                 inet:ip-address
    | | +--ro peer-as?                      uint32
    | | +--ro source-identifier?            string
    | | +--ro peer-local-as?               uint32
    | | +--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 ebgp-maximum-hop-count?      uint8
    | | +--ro enable-ebgp-multihop?        empty
    | | +--ro disable-capability-negotiation? 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 site-origin-identifier?         string {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 soft-reconfig-inbound?        empty
        | | +---ro weight?                        uint16
        | | +---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 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?      string
| | +---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?      string
| | +---ro orf-type-prefix-receive-mode?   string
| | +---ro orf-type-prefix-old?           cml-data-types:cml_line_t
| | +---ro orf-type-prefix-send-mode-old?  string
| | +---ro orf-type-prefix-receive-mode-old? string
| | +---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 error-notify-sent?             boolean
| | +---ro notify-last-reset-time?        string
| | +---ro notify-code-string?           cml-data-types:cml_line_t
| | +---ro connection-type?              ipi-bgp-
types:bgp_connection_type_t
| | +---ro next-connection-timer?         int32
| | +---ro connection-established-count?  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 bgp-peer-state?              ipi-bgp-
types:bgp_peer_status_t
| | +---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-send-capability?  string {feature-
list:HAVE_BGP_ADD_PATH}?

```

```

    | | +--ro additional-path-receive-capability?      string {feature-
list:HAVE_BGP_ADD_PATH}?
    | | +--ro capability-ipv4-multicast?              ipi-bgp-
types:bgp_capability_type_t
    | | +--ro capability-ipv4-multicast?              ipi-bgp-
types:bgp_capability_type_t
    | | +--ro capability-ipv4-multicast?              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
    | +--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 config

```



```

|   +---rw enable-auto-summary?           empty
|   +---rw enable-network-igp-sync?       empty
|   +---rw enable-igp-sync?               empty
| +---rw afi?                             ipi-bgp-types:bgp_vrf_afi_type_t
| +---rw safi?                             ipi-bgp-types:bgp_vrf_safi_type_t
|   +---rw vrf-name?                      string
|   +---rw graceful-shutdown?             empty
|   +---rw graceful-shutdown-capable?     empty
|   +---rw graceful-shutdown-local-preference? uint32
|   +---rw confederation-identifier?      uint32
+--ro state
|   +---ro enable-auto-summary?           empty
|   +---ro enable-network-igp-sync?       empty
|   +---ro enable-igp-sync?               empty
| +---ro afi?                             ipi-bgp-types:bgp_vrf_afi_type_t
| +---ro safi?                             ipi-bgp-types:bgp_vrf_safi_type_t
|   +---ro vrf-name?                      string
|   +---ro graceful-shutdown?             empty
|   +---ro graceful-shutdown-capable?     empty
|   +---ro graceful-shutdown-local-preference? uint32
|   +---ro confederation-identifier?      uint32
+--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 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 peer-group* [peer-group-tag]
+---rw peer-group-tag      -> ../config/peer-group-tag
+---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 maximum-prefixes* [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 config
| +---rw bgp-port?      uint16
| +---rw activate?      empty
| +---rw default-peer-route-map-name? empty
| +---rw peer-route-map-orig-name?   string
| +---rw soft-reconfig-inbound?      empty
| +---rw weight?                    uint16
| +---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 peer-group-range              ipi-bgp-
types:bgp_peer_group_type_t
        | +--rw group-limit?                   uint8
        | +--rw peer-group-tag?               string
        | +--rw peer-as?                      uint32
        | +--rw source-identifier?            string
        | +--rw peer-local-as?                uint32
        | +--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 ebgp-maximum-hop-count?       uint8
        | +--rw enable-ebgp-multihop?        empty
        | +--rw disable-capability-negotiation? 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 site-origin-identifier?       string {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
        +--ro state
        | +--ro bgp-port?                      uint16
        | +--ro activate?                      empty
        | +--ro default-peer-route-map-name?  empty
        | +--ro peer-route-map-orig-name?     string
        | +--ro soft-reconfig-inbound?        empty
        | +--ro weight?                        uint16
        | +--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 peer-group-range                 ipi-bgp-
types:bgp_peer_group_type_t
        | +--ro group-limit?                     uint8
        | +--ro peer-group-tag?                 string
        | +--ro peer-as?                         uint32
        | +--ro source-identifier?              string
        | +--ro peer-local-as?                  uint32
        | +--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 ebgp-maximum-hop-count?         uint8
        | +--ro enable-ebgp-multihop?           empty
        | +--ro disable-capability-negotiation? 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 site-origin-identifier?         string {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
+--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 timers
  | +--rw config!
  | | +--rw keep-alive      uint16
  | | +--rw hold-time       uint16
  | +--ro state
  |   +--ro keep-alive      uint16
  |   +--ro hold-time       uint16
+--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

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-ip-bgp-all-peer {feature-list:HAVE_BGPD}?
| +---w input
| +---w peer-reset-description? cml-data-types:cml_line_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-debug-updates-type-on {feature-list:HAVE_BGPD}?
| +---w input
|   +---w terminal-debug-options  ipi-bgp-types:bgp_update_debug_t
+---x bgp-all-debug-off {feature-list:HAVE_BGPD}?

```

notifications:

```

+---n bgp-established-notification
| +--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 peer-address?  ipi-bgp-types:bgp_ip_addr_t
  +--ro bgp-as?        uint32
  +--ro peer-state?    ipi-bgp-types:bgp_peer_status_t

```

module: ipi-bridge

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}?
    +--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}?
    +--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-allowed-ethertype-stats {feature-list:HAVE_ALLOWED_ETHERTYPE}?
|   +---w input
|     +---w interface-name? string
+---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

```

module: ipi-cfm

```

+--rw cfm {feature-list:HAVE_CFM}?
|   +--rw global
|   |   +--ro loopback
|   |   |   +--ro state
|   |   +--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
|   +--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 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 static-rmep-identifiers* uint16
|                           |   +--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}?
|                           +--ro state
|                               |   +--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 static-rmep-identifiers* uint16
|                               |   +--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}?
|                               +--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 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
|          |         +---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 interface-name?                   -> /ipi-interface:interfaces/
interface/name
|          |         +---ro remote-vpws-vc-name?             string
|          |         +---ro remote-evpn-id?                  uint32
|          |         +---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
|          |         +---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
|          |         |   +---ro state
|          |         |   |   +---ro enable-cc-multicast?      empty
|          |         |   |   +---ro lowest-fault-priority-defect? ipi-cfm-data-
types:cfm_mep_lowest_fault_priority_t
|          |         |   |   +---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 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
types:cfm_relay_action_t
| | | | | +--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
| | | | | | | | +--rw enable-dm-responder? empty
| | | | | | | | +--ro state
| | | | | | | | +--ro enable-lm-responder? ipi-cfm-data-
types:cfm_lm_reply_type_t
| | | | | | | | +--ro enable-dm-responder? empty
| | | | | | | | +--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
+---rw ethernet-loss-measurement-profiles {feature-list:HAVE_CFM_Y1731}?
| +---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}?
  +---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-lm-test {feature-list:HAVE_CFM_Y1731}?
  | +---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}?
|   +---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}?
|   +---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}?
|   +---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}?
|   +---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}?
|   +---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}?
| +---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}?
| +---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}?
| +---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}?
| +---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}?
| +---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}?
| +---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}?
| +---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}?
| +---w input
|   +---w md-name          string
|   +---w ma-name          string
|   +---w mep-id           uint16
+---x cfm-l2-clear-ethernet-remote-meps {feature-list:HAVE_CFM,feature-
list:HAVE_ONMD}?
| +---w input
|   +---w domain-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 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 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 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

```

module: 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 endpoint-if*     string
|   +---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 endpoint-if*        string
+---ro description?        cml-data-types:cml_line_t

```



```

+--ro admin-disable?      empty
+--ro operational-state?  ipi-cross-connect-types:xc_oper_status_t

```

module: ipi-crypto

```

rpcs:
+---x crypto-rsa-key-gen {feature-list:HAVE_HOSTPD}?
  +---w input
    +---w ipv4-addr      inet:ipv4-address

```

module: ipi-customstats

```

notifications:
+---n platform-cpu-queue-full
| +--ro queue-id?          uint8
| +--ro queue-name?       string
| +--ro rate-percent?     int8
| +--ro tx-pkt-rate?      yang:counter32
| +--ro last-increment-count? yang:counter64
| +--ro last-increment-time? yang:date-and-time
+---n platform-cpu-queue-high
| +--ro queue-id?         uint8
| +--ro queue-name?       string
| +--ro rate-percent?     int8
| +--ro tx-pkt-rate?      yang:counter32
+---n platform-cpu-queue-recovery
| +--ro queue-id?         uint8
| +--ro queue-name?       string
| +--ro rate-percent?     int8
+---n platform-cpu-crc-error-packets
| +--ro bad-crc?          yang:counter64
+---n platform-cpu-undersize-error-packets
| +--ro undersize-pkts?   yang:counter64
+---n platform-cpu-oversize-error-packets
| +--ro mtu-exceed?       yang:counter64
+---n platform-cpu-fragment-error-packets
| +--ro fragments-pkts?   yang:counter64
+---n platform-cpu-jabber-error-packets
| +--ro jabber-pkts?      yang:counter64
+---n platform-interface-crc-error-packets
| +--ro name?             string
| +--ro bad-crc?          yang:counter64
+---n platform-interface-undersize-error-packets
| +--ro name?             string

```

```

| +--ro undersize-pkts? yang:counter64
+---n platform-interface-oversize-error-packets
| +--ro name? string
| +--ro mtu-exceed? yang:counter64
+---n platform-interface-fragment-error-packets
| +--ro name? string
| +--ro fragments-pkts? yang:counter64
+---n platform-interface-jabber-error-packets
  +--ro name? string
  +--ro jabber-pkts? yang:counter64

```

module: ipi-dhcp

```

+--rw dhcp
  +--rw global
    | +--rw config
    | | +--rw disable-dhcp-feature? empty
    | +--ro state
    |   +--ro disable-dhcp-feature? empty
  +--rw relay
    | +--rw relay-agent* [vrf-name]
    | | +--rw vrf-name -> /ipi-network-instance:network-instances/
network-instance/ipi-vrf:vrf/config/vrf-name
    | | +--rw config
    | | | +--rw link-selection-source-ip? inet:ipv4-address
    | | | +--rw enable-option82? empty
    | | | +--rw enable-dhcpv6-pd-route-injection? empty {feature-list:HAVE_IPV6}?
    | | | +--rw remote-id? ipi-dhcp-relay-
types:dhcp_remote_id_t
    | | | +--rw subscriber-id? string
    | | +--ro state
    | | | +--ro link-selection-source-ip? inet:ipv4-address
    | | | +--ro enable-option82? empty
    | | | +--ro enable-dhcpv6-pd-route-injection? empty {feature-list:HAVE_IPV6}?
    | | | +--ro remote-id? ipi-dhcp-relay-
types:dhcp_remote_id_t
    | | | +--ro subscriber-id? string
    | | | +--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 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 -> /ipi-interface:interfaces/interface/name
| +---rw config
| | +---rw ipv4-relay-interface? empty
| | +---rw ipv4-uplink-interface? empty
| | +---rw ipv6-relay-interface? empty {feature-list:HAVE_IPV6}?
| | +---rw ipv6-uplink-interface? empty {feature-list:HAVE_IPV6}?
| +---ro state
| +---ro ipv4-relay-interface? empty
| +---ro ipv4-uplink-interface? empty
| +---ro ipv6-relay-interface? empty {feature-list:HAVE_IPV6}?
| +---ro ipv6-uplink-interface? empty {feature-list:HAVE_IPV6}?
+---rw client
| +---rw interfaces
| +---rw interface* [name]
| +---rw name -> /ipi-interface:interfaces/interface/name
| +---rw config
| | +---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 request-ipv6-prefix?          string {feature-list:HAVE_IPV6}?
| | | +---ro state
| | | +---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 request-ipv6-prefix?          string {feature-list:HAVE_IPV6}?
| | | +---ro learned-prefix
| | | | +---ro state
| | | | | +---ro learnt-prefix?           cml-data-types:cml_ipv6_prefix_t
| | | | | +---ro max-lifetime?           uint32
| | | | | +---ro preferred-lifetime?     uint32
| | | +---rw prefix-ipv6-addresses {feature-list:HAVE_IPV6}?
| | | | +---rw prefix-ipv6-address-entry* [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
+---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 max-lease-time?      uint32
|         | +---rw default-lease-time?  uint32
|         | +---rw rapid-commit?        empty
|         | +---rw preference?          empty
|         +---ro state
|         | +---ro vrf-name?             -> /ipi-network-instance:network-instances/
network-instance/ipi-vrf:vrf/config/vrf-name
|         | +---ro max-lease-time?      uint32
|         | +---ro default-lease-time?  uint32
|         | +---ro rapid-commit?        empty
|         | +---ro preference?          empty
|         +---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 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 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
    |   | +--rw vlan-range?         cml-data-types:cml_range_t
    |   +--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
    |   | +--ro vlan-range?         cml-data-types:cml_range_t
    |   +--rw arp-inspection
    |   | +--rw config!
    |   | | +--rw enable          empty

```

```

|         | | +--rw validate?      ipi-dhcp-snooping-
types:dhcp_snooping_validation_t
|         | | +--rw vlan-range?    cml-data-types:cml_range_t
|         | | +--ro state
|         | |   +--ro enable        empty
|         | |   +--ro validate?     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 source-guard-entries
|         | +--rw source-guard-entry* [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 ipv4-address  inet:ipv4-address
|         | | | | +--rw mac-address?  cml-data-types:cml_mac_addr_t
name |         | | | | +--rw if-name    -> /ipi-interface:interfaces/interface/
|         | | | +--ro state
|         | | | | +--ro ipv4-address  inet:ipv4-address
|         | | | | +--ro mac-address?  cml-data-types:cml_mac_addr_t
name |         | | | +--ro if-name    -> /ipi-interface:interfaces/interface/
|         | | +--rw mac-addresses-ipv6 {feature-list:HAVE_IPV6}?
|         | | | +--rw mac-address-ipv6* [mac-address]
|         | | | +--rw mac-address    -> ../config/mac-address
|         | | | +--rw config
|         | | | | +--rw ipv6-address  inet:ipv6-address
|         | | | | +--rw mac-address?  cml-data-types:cml_mac_addr_t
name |         | | | | +--rw if-name    -> /ipi-interface:interfaces/interface/
|         | | | +--ro state
|         | | | | +--ro ipv6-address  inet:ipv6-address
|         | | | | +--ro mac-address?  cml-data-types:cml_mac_addr_t
name |         | | | +--ro if-name    -> /ipi-interface:interfaces/interface/
|         | +--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 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
name |                  | +---rw if-name      -> /ipi-interface:interfaces/interface/
|                  |   +---rw ipv4-address  inet:ipv4-address
|                  |   +---rw mac-address?  cml-data-types:cml_mac_addr_t
|                  +---ro state
name |                  | +---ro if-name      -> /ipi-interface:interfaces/interface/
|                  |   +---ro ipv4-address  inet:ipv4-address
|                  |   +---ro mac-address?  cml-data-types:cml_mac_addr_t
|              +---rw mac-addresses-ipv6 {feature-list:HAVE_IPV6}?
|                  | +---rw mac-address-ipv6* [mac-address]
|                  |   +---rw mac-address    -> ../config/mac-address
|                  |   +---rw config

```

```

name
|
|
|   +---rw if-name          -> /ipi-interface:interfaces/interface/
|
|   +---rw ipv6-address     inet:ipv6-address
|   +---rw mac-address?    cml-data-types:cml_mac_addr_t
|   +---ro state
|
name
|
|   +---ro ipv6-address     inet:ipv6-address
|   +---ro mac-address?    cml-data-types:cml_mac_addr_t
|   +---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_DHCP_CLIENT,feature-
list:HAVE_HOSTPD,feature-list:HAVE_HOSTP_DHCP_RELAY,feature-
list:HAVE_DHCP_SERVER_OR_HAVE_DHCP_SNOOP_OR_HAVE_DHCP_UPDATE_STYLE}?
  +---x clear-relay-option-stats {feature-list:HAVE_DHCP_CLIENT,feature-
list:HAVE_HOSTPD,feature-list:HAVE_HOSTP_DHCP_RELAY,feature-
list:HAVE_DHCP_SERVER_OR_HAVE_DHCP_SNOOP_OR_HAVE_DHCP_UPDATE_STYLE}?
  +---x clear-dhcpv6-pd-route {feature-list:HAVE_DHCP_CLIENT,feature-
list:HAVE_HOSTPD,feature-list:HAVE_HOSTP_DHCP_RELAY,feature-
list:HAVE_DHCP_SERVER_OR_HAVE_DHCP_SNOOP_OR_HAVE_DHCP_UPDATE_STYLE}?
  | +---w input
  |   +---w vrf-name   string

```

```

    +---x dhcp-snooping-write-database {feature-list:HAVE_DHCP_CLIENT,feature-
list:HAVE_DHCP_SNOOP,feature-list:HAVE_L2,feature-
list:HAVE_DHCP_SERVER_OR_HAVE_DHCP_UPDATE_STYLE,feature-
list:HAVE_DHCP_SERVER_OR_HAVE_DHCP_SNOOP_OR_HAVE_DHCP_UPDATE_STYLE}?
    | +---w input
    |   +---w bridge-id    string
    +---x dhcp-snooping-renew-database {feature-list:HAVE_DHCP_CLIENT,feature-
list:HAVE_DHCP_SNOOP,feature-list:HAVE_L2,feature-
list:HAVE_DHCP_SERVER_OR_HAVE_DHCP_UPDATE_STYLE,feature-
list:HAVE_DHCP_SERVER_OR_HAVE_DHCP_SNOOP_OR_HAVE_DHCP_UPDATE_STYLE}?
    | +---w input
    |   +---w bridge-id    string
    +---x dhcp-snooping-write-source-binding-database {feature-
list:HAVE_DHCP_CLIENT,feature-list:HAVE_DHCP_SNOOP,feature-list:HAVE_L2,feature-
list:HAVE_DHCP_SERVER_OR_HAVE_DHCP_UPDATE_STYLE,feature-
list:HAVE_DHCP_SERVER_OR_HAVE_DHCP_SNOOP_OR_HAVE_DHCP_UPDATE_STYLE}?
    | +---w input
    |   +---w bridge-id    string
    +---x dhcp-snooping-renew-source-database {feature-list:HAVE_DHCP_CLIENT,feature-
list:HAVE_DHCP_SNOOP,feature-list:HAVE_L2,feature-
list:HAVE_DHCP_SERVER_OR_HAVE_DHCP_UPDATE_STYLE,feature-
list:HAVE_DHCP_SERVER_OR_HAVE_DHCP_SNOOP_OR_HAVE_DHCP_UPDATE_STYLE}?
    | +---w input
    |   +---w bridge-id    string
    +---x dhcp-snooping-clear-source-binding-database {feature-
list:HAVE_DHCP_CLIENT,feature-list:HAVE_DHCP_SNOOP,feature-list:HAVE_L2,feature-
list:HAVE_DHCP_SERVER_OR_HAVE_DHCP_UPDATE_STYLE,feature-
list:HAVE_DHCP_SERVER_OR_HAVE_DHCP_SNOOP_OR_HAVE_DHCP_UPDATE_STYLE}?
    | +---w input
    |   +---w bridge-id    string
    +---x dhcp-snooping-clear-database {feature-list:HAVE_DHCP_CLIENT,feature-
list:HAVE_DHCP_SNOOP,feature-list:HAVE_L2,feature-
list:HAVE_DHCP_SERVER_OR_HAVE_DHCP_UPDATE_STYLE,feature-
list:HAVE_DHCP_SERVER_OR_HAVE_DHCP_SNOOP_OR_HAVE_DHCP_UPDATE_STYLE}?
    | +---w input
    |   +---w bridge-id    string
    +---x dhcp-snooping-terminal-debug-on {feature-list:HAVE_DHCP_CLIENT,feature-
list:HAVE_DHCP_SNOOP,feature-list:HAVE_L2,feature-
list:HAVE_DHCP_SERVER_OR_HAVE_DHCP_UPDATE_STYLE,feature-
list:HAVE_DHCP_SERVER_OR_HAVE_DHCP_SNOOP_OR_HAVE_DHCP_UPDATE_STYLE}?
    | +---w input
    |   +---w terminal-debug-options    ipi-dhcp-snooping-types:dhcp_snooping_debug_t
    +---x dhcp-snooping-terminal-debug-off {feature-list:HAVE_DHCP_CLIENT,feature-
list:HAVE_DHCP_SNOOP,feature-list:HAVE_L2,feature-
list:HAVE_DHCP_SERVER_OR_HAVE_DHCP_UPDATE_STYLE,feature-
list:HAVE_DHCP_SERVER_OR_HAVE_DHCP_SNOOP_OR_HAVE_DHCP_UPDATE_STYLE}?
    +---w input
    +---w terminal-debug-options    ipi-dhcp-snooping-types:dhcp_snooping_debug_t

notifications:
    +---n dhcpv6-relay-pd-route
    +--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

```

module: 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?  boolean
    |   | +--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?    boolean
    |   | +--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

```

```

rpcs:
  +---x dns-client-terminal-debug-on {feature-list:HAVE_DNS_CLIENT}?
  +---x dns-client-terminal-debug-off {feature-list:HAVE_DNS_CLIENT}?

```

module: ipi-dns-relay

```

+--rw dns-relay
  +--rw config
    | +--rw enable-dns-feature?    empty
    | +--rw enable-dnsv4-relay?   empty
    | +--rw enable-dnsv6-relay?   empty {feature-list:HAVE_IPV6}?
    | +--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?    empty
    | +--ro enable-dnsv4-relay?   empty
    | +--ro enable-dnsv6-relay?   empty {feature-list:HAVE_IPV6}?
    | +--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      -> /ipi-network-instance:network-instances/network-
instance/ipi-vrf:vrf/config/vrf-name
      +--rw config
        | +--rw dns-server-v4-addr*   inet:ipv4-address
        | +--rw dns-server-v6-addr*   inet:ipv6-address {feature-list:HAVE_IPV6}?
      +--ro state
        +--ro dns-server-v4-addr*   inet:ipv4-address
        +--ro dns-server-v6-addr*   inet:ipv6-address {feature-list:HAVE_IPV6}?

```

module: ipi-efm

```

+--rw ethernet-oam
  +--rw interfaces
    | +--rw interface* [name]
    |   +--rw name      -> ../config/name
    |   +--rw config
    |   | +--rw name?
    |   |                                     -> /ipi-
interface:interfaces/interface/name
    |   | +--rw enable?
    |   |                                     empty
    |   | +--rw mode?
    |   |                                     ipi-efm-
types:ethernet_oam_mode_t
    |   | +--rw link-lost-timeout?
    |   |                                     uint8
    |   | +--rw pdu-min-rate?
    |   |                                     uint8
    |   | +--rw pdu-max-rate?
    |   |                                     uint8
    |   | +--rw unidirectional-link-support?
    |   |                                     empty
    |   | +--rw remote-loopback-support?
    |   |                                     empty
    |   | +--rw remote-loopback-timeout?
    |   |                                     uint8
    |   | +--rw link-monitor-support?
    |   |                                     empty
    |   | +--rw link-monitor-off?
    |   |                                     empty
    |   | +--rw link-monitor-event-log-size?
    |   |                                     uint8
    |   | +--rw disable-port-on-critical-event-remote-failure?
    |   |                                     empty
    |   | +--rw disable-port-on-dying-gasp-remote-failure?
    |   |                                     empty
    |   | +--rw disable-port-on-link-fault-remote-failure?
    |   |                                     empty
    |   | +--rw remote-loopback-start?
    |   |                                     empty
    |   +--ro state
    |   +--ro name?
    |   |                                     -> /ipi-
interface:interfaces/interface/name
    |   +--ro enable?
    |   |                                     empty
    |   +--ro mode?
    |   |                                     ipi-efm-
types:ethernet_oam_mode_t
    |   +--ro link-lost-timeout?
    |   |                                     uint8
    |   +--ro pdu-min-rate?
    |   |                                     uint8
    |   +--ro pdu-max-rate?
    |   |                                     uint8
    |   +--ro unidirectional-link-support?
    |   |                                     empty
    |   +--ro remote-loopback-support?
    |   |                                     empty
    |   +--ro remote-loopback-timeout?
    |   |                                     uint8
    |   +--ro link-monitor-support?
    |   |                                     empty
    |   +--ro link-monitor-off?
    |   |                                     empty
    |   +--ro link-monitor-event-log-size?
    |   |                                     uint8
    |   +--ro disable-port-on-critical-event-remote-failure?
    |   |                                     empty
    |   +--ro disable-port-on-dying-gasp-remote-failure?
    |   |                                     empty
    |   +--ro disable-port-on-link-fault-remote-failure?
    |   |                                     empty
    |   +--ro remote-loopback-start?
    |   |                                     empty
    |   +--ro if-index?
    |   |                                     uint32
    |   +--ro interface-state?
    |   |                                     ipi-efm-
types:ethernet_oam_oper_status_t
  +--rw debug
    +--rw config
      | +--rw options?  ipi-efm-types:ethernet_oam_debug_t

```

```

    +--ro state
      +--ro options?          ipi-efm-types:ethernet_oam_debug_t
      +--ro terminal-debug-status? ipi-efm-types:ethernet_oam_debug_t

rpcs:
  +---x efm-terminal-debug-on {feature-list:HAVE_EFM,feature-list:HAVE_ONMD}?
  | +---w input
  |   +---w terminal-debug-status    ipi-efm-types:ethernet_oam_debug_t
  +---x efm-terminal-debug-off {feature-list:HAVE_EFM,feature-list:HAVE_ONMD}?
  | +---w input
  |   +---w terminal-debug-status    ipi-efm-types:ethernet_oam_debug_t
  +---x clear-interface-oam-counters {feature-list:HAVE_EFM,feature-list:HAVE_ONMD}?
  +---w input
  +---w name      string

```

module: ipi-elk

```

+--rw elk
  +--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 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

```

module: ipi-erpsv2

```

+--rw erpsv2 {feature-list:HAVE_G8032V2}?
  +--rw physical-rings
    | +--rw physical-ring* [ring-name]
    |   +--rw ring-name    -> ../config/ring-name
    |   +--rw config
    |     | +--rw ring-name?    string
    |     | +--rw bridge-id     -> /ipi-network-instance:network-instances/network-
instance/instance-name
    |     | +--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 bridge-id     -> /ipi-network-instance:network-instances/network-
instance/instance-name
    |       +--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 bridge-id       -> /ipi-network-instance:network-instances/
network-instance/instance-name
    |     | +--rw wait-to-restore-timer? uint8
    |     | +--rw hold-off-timer?    uint16
    |     | +--rw guard-timer?     uint16
    |     | +--rw protection-mode?   ipi-erpsv2-types:erpsv2_protection_mode_t
    |     +--ro state
    |       +--ro profile-name?     string
    |       +--ro bridge-id       -> /ipi-network-instance:network-instances/
network-instance/instance-name
    |       +--ro wait-to-restore-timer? uint8
    |       +--ro hold-off-timer?    uint16
    |       +--ro guard-timer?     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 bridge-id          -> /ipi-network-instance:network-instances/
network-instance/instance-name
|      | +--rw mapped-profile-name? -> /erpsv2/profiles/profile/profile-name
|      | +--rw ring-type?          ipi-erpsv2-types:erpsv2_ring_type_t
|      | +--rw physical-ring-name? -> /erpsv2/physical-rings/physical-ring/
ring-name
|      | +--rw raps-channel-vlan?   uint16
|      | +--rw data-traffic-vlan?   cml-data-types:cml_range_t
|      | +--rw level?              uint8
|      | +--rw ring-id?            uint8
|      | +--rw enable-tcn-propagation? empty
|      | +--rw tcn-to-instances*    string
|      | +--rw non-virtual-channel? empty
|      | +--rw description?        cml-data-types:cml_line_t
|      +--ro state
|      | +--ro name?              string
|      | +--ro bridge-id          -> /ipi-network-instance:network-instances/
network-instance/instance-name
|      | +--ro mapped-profile-name? -> /erpsv2/profiles/profile/profile-name
|      | +--ro ring-type?          ipi-erpsv2-types:erpsv2_ring_type_t
|      | +--ro physical-ring-name? -> /erpsv2/physical-rings/physical-ring/
ring-name
|      | +--ro raps-channel-vlan?   uint16
|      | +--ro data-traffic-vlan?   cml-data-types:cml_range_t
|      | +--ro level?              uint8
|      | +--ro ring-id?            uint8
|      | +--ro enable-tcn-propagation? empty
|      | +--ro tcn-to-instances*    string
|      | +--ro non-virtual-channel? empty
|      | +--ro description?        cml-data-types:cml_line_t
|      | +--ro current-state?      ipi-erpsv2-types:erpsv2_ring_state_t
|      | +--ro previous-state?     ipi-erpsv2-types:erpsv2_ring_state_t
|      +--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 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 raps-statistics
|             +---ro state
|                 +---ro tx-raps?   yang:counter32
|                 +---ro rx-raps?   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

rpcs:
+---x erpsv2-switch-erp-instance {feature-list:HAVE_G8032V2,feature-
list:HAVE_ONMD}?
| +---w input
|     +---w instance-name   string
|     +---w bridge-id       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
|     +---w bridge-id       string
+---x erpsv2-clear-aps-statistics {feature-list:HAVE_G8032V2,feature-
list:HAVE_ONMD}?
| +---w input
|     +---w instance-name   string

```

```

|      +---w bridge-id          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 name?                string
    +--ro bridge-id?           string
    +--ro current-state?       ipi-erpsv2-types:erpsv2_ring_state_t
    +--ro previous-state?      ipi-erpsv2-types:erpsv2_ring_state_t

```

module: 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-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}?
  |  |  +--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-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}?
  +--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-interface* [name]
  |  +--rw name             -> ../config/name

```

```

|     +--rw config
|     |     +--rw name?          -> /ipi-interface:interfaces/interface/name
|     |     +--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
|     |         +--ro gateway-mac?  empty {feature-list:HAVE_TUNNEL,feature-
list:HAVE_NVO,feature-list:HAVE_VXLAN,feature-list:HAVE_BGP_EVPN}?
+--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
|     |     +--ro state
|     |         +--ro name?      -> /ipi-interface:interfaces/interface/name
|     |         +--ro evpn-segment-id?  string
|     |         +--ro system-mac?      cml-data-types:cml_mac_addr_t
|     +--rw access-interfaces
+--rw vrf* [vrf-name]
    +--rw vrf-name    -> /ipi-network-instance:network-instances/network-instance/
ipi-vrf:vrf/config/vrf-name
    +--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

```

module: 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-tenant* [tenant-identifier]
|  +--rw tenant-identifier          -> ../config/tenant-identifier
|  +--rw config
|  |  +--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 irb-name?             -> /ipi-interface:interfaces/interface/name
|  |  +--rw tenant-identifier?     uint32
|  |  +--rw control-word?         empty
|  +--ro state
|  |  +--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 irb-name?             -> /ipi-interface:interfaces/interface/name
|  |  +--ro tenant-identifier?     uint32
|  |  +--ro control-word?         empty
|  +--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 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? string
|  +--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 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

```

module: 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:vlangs/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-vlangs?      cml-data-types:cml_range_t
|      | +--ro primary-vlan?     -> /ipi-network-instance:network-instances/
network-instance/ipi-bridge:bridge/ipi-vlan:vlangs/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 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 bridge-id    string
|   +---w eps-id      uint8
+---x g8031-force-switch {feature-list:HAVE_G8031,feature-list:HAVE_ONMD}?
| +---w input
|   +---w bridge-id    string
|   +---w eps-id      uint8
+---x g8031-manual-switch {feature-list:HAVE_G8031,feature-list:HAVE_ONMD}?
| +---w input
|   +---w bridge-id    string
|   +---w eps-id      uint8
+---x g8031-exercise {feature-list:HAVE_G8031,feature-list:HAVE_ONMD}?
| +---w input
|   +---w bridge-id    string
|   +---w eps-id      uint8
+---x g8031-clear {feature-list:HAVE_G8031,feature-list:HAVE_ONMD}?
| +---w input
|   +---w bridge-id    string
|   +---w eps-id      uint8
+---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

```

module: 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

```

module: 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
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 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 name?              string
  +--ro agg-min-links-state?  ipi-lag-types:lag_agg_min_links_status

```

module: ipi-if-ethernet

```

augment /ipi-interface:interfaces/ipi-interface:interface:
+--rw ethernet
  +--rw config
    | +--rw duplex-mode?    ipi-if-types:if_duplex_t
    | +--rw mac-address?    cml-data-types:cml_mac_addr_t {feature-
list:NOT_HAVE_DUNE}?
    | +--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 mac-address?    cml-data-types:cml_mac_addr_t {feature-
list:NOT_HAVE_DUNE}?
    | +--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

```

module: ipi-if-extended

```

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 disable-multicast?   empty
  |   |   +--rw link-flap-error-disable? empty {feature-list:HAVE_L2}?
  |   |   +--rw mac-move-limit-error-disable? empty {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
  |   +--ro state
  |   |   +--ro disable-multicast?   empty
  |   |   +--ro link-flap-error-disable? empty {feature-list:HAVE_L2}?
  |   |   +--ro mac-move-limit-error-disable? empty {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 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 storm-total-discards?        yang:counter64 {feature-
list:HAVE_BROADCOM,feature-list:HAVE_RATE_LIMIT,feature-list:NOT_HAVE_DUNE}?
    | +--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 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}?
+--rw bandwidth-management
| +--rw config
|   +--rw enable-re-routing?    empty
+--rw port-monitor
| +--rw config
| | +--rw enable-speed?        empty
| | +--rw enable-queue-drops?  empty
| +--ro state
| | +--ro enable-speed?        empty
| | +--ro enable-queue-drops?  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?                  string
|   +--ro fcmmap?               string
|   +--ro encapsulation?        ipi-if-types:if_raw_string_t
|   +--ro fec?                  ipi-if-types:if_raw_string_t
+--rw link-debounce-time
  +--rw config!
  | +--rw linkup-debounce-time   uint16
  | +--rw linkdown-debounce-time uint16
  +--ro state
    +--ro linkup-debounce-time   uint16

```

```

        +--ro linkdown-debounce-time      uint16
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}?
    +--ro state
      +--ro forward-err-correction?    ipi-if-types:if_intf_fec_t
      +--ro load-interval?            uint16 {feature-list:HAVE_BROADCOM}?
      +--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-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 hardware-profile-flexport {feature-list:HAVE_FLEXPOR}?
    | +--rw config
    | | +--rw port-mode?   ipi-if-types:if_hardware_portmode_t
    | | +--ro state
    | | +--ro port-mode?   ipi-if-types:if_hardware_portmode_t
    +--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}?
      +--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}?
augment /ipi-interface:interfaces:
  +--rw bridge-domain

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

notifications:
  +---n interface-error-disable-notification
  | +--ro name?                string
  | +--ro error-disable-reason? ipi-if-types:if_errdisable_state_t
  +---n interface-bandwidth-start

```



```

| +--ro name?                string
| +--ro current-bandwidth?   uint64
+---n interface-bandwidth-upgrade
| +--ro name?                string
| +--ro current-bandwidth?   uint64
+---n interface-bandwidth-downgrade
| +--ro name?                string
| +--ro current-bandwidth?   uint64
+---n interface-bandwidth-close
  +--ro name?                string
  +--ro current-bandwidth?   uint64

```

module: ipi-if-ip

```

+--rw ip-global
  +--rw vrf* [vrfName] {feature-list:HAVE_VRF}?
  | +--rw vrfName    -> /ipi-network-instance:network-instances/network-instance/
  | ipi-vrf:vrf/config/vrf-name
  | +--rw config
  | | +--rw disable-ip-vrf-forwarding?    empty
  | | +--rw disable-ipv6-vrf-forwarding?  empty {feature-list:HAVE_IPV6}?
  | | +--rw enable-icmp-broadcast?       empty
  | +--ro state
  |   +--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
  | +--ro state
  |   +--ro ip-address?  cml-data-types:cml_ipv4_prefix_t
  |   +--ro ip-label?   cml-data-types:cml_line_t

```

```

+--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}?
+--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 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}?
+--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 dhcp-ipv6-address?        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

```

module: 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

```

module: 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
| +--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
name | | +--ro name?                  -> /ipi-interface:interfaces/interface/
| | +--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
| +--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/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

```

module: ipi-igp-te

```

+--rw igp-te
  +--rw interfaces
    +--rw interface* [name]
      +--rw 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 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

```

module: 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 dotlad-ether-type? string {feature-list:HAVE_VLAN_STACK,feature-
list:NOT_HAVE_SWFWDR}?
| +--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 dotlad-ether-type? string {feature-list:HAVE_VLAN_STACK,feature-
list:NOT_HAVE_SWFWDR}?
| +--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 name?      string
    +--ro oper-status? ipi-if-types:if_interface_oper_status_t

```

module: 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 start-time?      yang:date-and-time
  | | | | +--ro elapsed-time?    uint64
  | | | | +--ro packets-sent?    uint32
  | | | | +--ro packets-received? uint32
  | | | | +--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
  | +--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 frequency? uint8
  | | | | +--rw timeout?   uint16
  | | | | +--rw threshold? uint16
  | | | +--ro state
  | | | | +--ro host?      ip_sla_hostname_t
  | | | | +--ro source-interface? string
  | | | | +--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?      uint16
      | +--rw time-range-name?   string
      | +--rw vrf-name?          string
    +--ro state
      +--ro scheduled-pid?      uint16
      +--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 host?            ip_sla_hostname_t
| +--ro identifier?     uint16
| +--ro threshold?     uint16
+---n icmp-echo-timeout {feature-list:HAVE_IPSLA}?
| +--ro host?            ip_sla_hostname_t
| +--ro identifier?     uint16
| +--ro timeout?       uint16
+---n icmp-echo-disconnect {feature-list:HAVE_IPSLA}?
  +--ro identifier?     uint16

```

module: ipi-ipsec

```

+--rw ipsec {feature-list:HAVE_IPSEC}?
  +--rw transform-sets
    | +--rw transform-set* [name]
    |   +--rw name          -> ../config/name
    |   +--rw config
    |     | +--rw name?          string
    |     | +--rw transform-set-mode? ipi-ipsec-types:ipsec_ts_mode_t
    |     +--ro state
    |       | +--ro 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/name
                            +---ro state
                            +---ro transform-set-name? -> /ipsec/transform-sets/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

```

module: 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

```

module: ipi-isis

```

+--rw isis
  +--rw isis-instance* [instance]
  | +--rw instance                -> ../config/instance
  | +--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 metric* [style level-number] {feature-list:HAVE_WIDE_METRIC}?
| | +--rw style -> ../config/style
| | +--rw level-number -> ../config/level-number
| | +--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}?
| | +--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 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? cml-data-
types:cml_ipv4_addr_prefix_t {feature-list:HAVE_MPLS}?
| | +--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 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 config
| |      +---rw enable-mpls-traffic-engg-level-1?   empty {feature-list:HAVE_ISIS_TE}?
| |      +---rw enable-mpls-traffic-engg-level-2?   empty {feature-list:HAVE_ISIS_TE}?
| |      +---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 ignore-lsp-errors?                  empty
| |      +---rw lfa-hold-timer?                     int32 {feature-list:HAVE_ISIS_LFA}?
| |      +---rw protocol-topology?                  empty {feature-
list:HAVE_PROTOCOL_TOPOLOGY}?
| |      +---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
| +---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_hostanme_t
| |      +---ro disable-adjacency-check?             empty
| |      +---ro ignore-lsp-errors?                  empty
| |      +---ro lfa-hold-timer?                     int32 {feature-list:HAVE_ISIS_LFA}?

```

```

| | +--ro protocol-topology?          empty {feature-
list:HAVE_PROTOCOL_TOPOLOGY}?
| | +--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 enable-mpls-traffic-engg-level-1? empty {feature-list:HAVE_ISIS_TE}?
| | +--ro enable-mpls-traffic-engg-level-2? empty {feature-list:HAVE_ISIS_TE}?
| +--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 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 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 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 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-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 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-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 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 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
| | +---rw redistribution-level-1-into-2* [enable]
| | | +---rw enable    -> ../config/enable
| | | +---rw config
| | | | +---rw enable?   empty
| | | | +---rw level1-acl? string
| | | +---ro state
| | | +---ro enable?    empty
| | | +---ro level1-acl? string
| | +---rw redistribution-level-2-into-1* [enable]
| | | +---rw enable    -> ../config/enable
| | | +---rw config
| | | | +---rw enable?   empty
| | | | +---rw level2-acl? string
| | | +---ro state
| | | +---ro enable?    empty
| | | +---ro level2-acl? string
| | +---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 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-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-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
| | +--ro state
| |   +--ro existence-state?      uint8
| |   +--ro redistribute-update?  int32
| |   +--ro redistribute-timer-value? 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-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 spf-level* [level]
| | +---rw level          -> ../config/level
| | +---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 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 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 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 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 subtlv* [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 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 subtlv* [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 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 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 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 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 distance?           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
| +--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 status? string
| | | | | +---ro client-id? uint8
| | | | | +---ro hop-limit? int16
| | | | | +---ro include-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 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* [level-type]
|     +---rw level-type                          -> ../config/level-type
|     +---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 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 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_LDPD,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_LDPD,feature-list:HAVE_ISIS_LFA}?
|     +---rw ipv4-tilfa-routes
|         +---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 nexthops
|                     | +---ro nexthop* [primary-nexthop]
|                         +---ro primary-nexthop  -> ../state/primary-nexthop
|                         +---ro state
|                             +---ro primary-nexthop?    inet:ipv4-address
|                             +---ro protection-type?    ipi-isis-
types:isis_tilfa_protection_type_t
|                             +---ro backup-nexthop?    inet:ipv4-address

```

```

|     |     |     +---ro pq-node-router-id?         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
+---rw tilfa-pq-nodes
|     +---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 q-node-disjoint? string
+---ro node-protection
|     +---ro state
|         +---ro pnodes*      string
|         +---ro qnodes*      string
|         +---ro pq-node?     string
|         +---ro q-node-disjoint? string
+---rw debug
|     +---rw config
|         | +---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 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-instance/level-runtime/lspdb/state/
lsp-identifier
| +--ro overload?          -> /isis/isis-instance/state/overload
| +--ro pdu-length?        -> /isis/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
+--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 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-adjancency-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
+---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 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 neighbor-protocol? ipi-isis-
types:isis_neighbour_protocol_t
|   +--ro area-address* string
+--rw interface-parameters
| +--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
| | +--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
| | +--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 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
| +---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
| +---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 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-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 overload?      ipi-isis-types:isis_overload_state_t
+---n isis-lsp-too-large
|  +--ro lsp-identifier?  string
|  +--ro pdu-length?      uint32
+---n isis-corrupted-lsp-detected
|  +--ro lsp-identifier?  string
+---n isis-attempt-to-exceed-max-sequence
|  +--ro lsp-identifier?  string
+---n isis-id-len-mismatch
|  +--ro pdu-field-len?  uint8
|  +--ro raw-pdu?        string
+---n isis-max-area-addresses-mismatch
|  +--ro max-area-addresses?  uint8
|  +--ro raw-pdu?          string
+---n isis-own-lsp-purge
|  +--ro lsp-identifier?  string
+---n isis-sequence-number-skipped
|  +--ro lsp-identifier?  string
+---n isis-authentication-type-failure
|  +--ro raw-pdu?        string
+---n isis-authentication-failure
|  +--ro raw-pdu?        string
+---n isis-version-skew
|  +--ro protocol-version?  uint8
|  +--ro raw-pdu?          string

```

```

+---n isis-area-mismatch
| +--ro raw-pdu?  string
+---n isis-rejected-adjacency
| +--ro raw-pdu?  string
| +--ro reason?   string
+---n isis-protocols-supported-mismatch
| +--ro raw-pdu?  string
| +--ro protocols? uint8
+---n isis-lsp-error-detected
  +--ro lsp-identifier?  string
  +--ro raw-pdu?         string
  +--ro error-offset?    uint32
  +--ro tlv-type?        uint8

```

module: 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

```

module: ipi-l2vpn-vpls

```

+---rw vpls
  +---rw attachment-circuit
  | +---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-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 allow-layer2-bridge-pdu?          empty {feature-
list:HAVE_CUSTOM1_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-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 allow-layer2-bridge-pdu?          empty {feature-
list:HAVE_CUSTOM1_MPLS}?
| | | +--ro static-mac-address*              cml-data-types:cml_mac_addr_t
| | | +--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 static-vpls* [vpls-identifier peer-address]
| | +--rw vpls-identifier      -> ../config/vpls-identifier
| | +--rw peer-address        -> ../config/peer-address
| | +--rw config
| | | +--rw in-label           uint32
| | | +--rw out-label          uint32
| | | +--rw out-interface-name string
| | | +--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
| | | +--ro state
| | |   +--ro in-label         uint32
| | |   +--ro out-label        uint32
| | |   +--ro out-interface-name string
| | |   +--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
| +--rw static-hierarchical-vpls* [vpls-identifier spoke-pseudowire-name]
| | +--rw vpls-identifier      -> ../config/vpls-identifier
| | +--rw spoke-pseudowire-name -> ../config/spoke-pseudowire-name
| | +--rw config
| | | +--rw in-label           uint32
| | | +--rw out-label          uint32
| | | +--rw out-interface-name string

```

```

    |      | +--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-pseudowire/config/pseudowire-name
    |      +--ro state
    |      +--ro in-label                    uint32
    |      +--ro out-label                   uint32
    |      +--ro out-interface-name         string
    |      +--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-pseudowire/config/pseudowire-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 global
  +--ro state
    +--ro counters
      +--ro total-instances?      yang:counter32
      +--ro active-instances?     yang:counter32
      +--ro inactive-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 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-
group/config/group-name
    +--ro state
    | +--ro vpls-identifier          uint32
    | +--ro service-transport-identifier? ipi-vpls-types:vpls_svc_tpid_t
    | +--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-
group/config/group-name
    | +--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
+--rw spoke-pseudowire* [pseudowire-name]
| +--rw pseudowire-name    -> ../config/pseudowire-name
| +--rw config
| | +--rw pseudowire-name?  string
| | +--rw pseudowire-type?  ipi-vpls-types:vpls_vc_spoke_type_t
| +--ro state
|   +--ro pseudowire-name?  string
|   +--ro pseudowire-type?  ipi-vpls-types:vpls_vc_spoke_type_t
+--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
| +--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
+--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-identifier? uint32
| | | +--rw peer-type?     ipi-vpls-types:vpls_peer_type_t
| | +--ro state
| | | +--ro peer-address?  inet:ipv4-address
| | | +--ro tunnel-name?   string
| | | +--ro tunnel-identifier? uint32
| | | +--ro peer-type?     ipi-vpls-types:vpls_peer_type_t
| | +--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-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-identifier? string
| +--rw config!
| | +--rw signaling-protocol-ldp empty
| | +--rw disable-mac-withdrawal? empty
| | +--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-encapsulation-type? ipi-vpls-types:vpls_vc_type_t
+--rw bgp-signaling {feature-list:HAVE_BGP_VPLS}?
| +--rw config!
| | +--rw signaling-protocol-bgp empty
| | +--rw vpls-edge-identifier? int32
| +--ro state
| | +--ro signaling-protocol-bgp empty
| | +--ro vpls-edge-identifier? int32
+--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
+--ro peer-list* [peer-address]
| +--ro peer-address -> ../state/peer-address
| +--ro state
| | +--ro peer-address? inet:ipv4-address
| | +--ro vpls-identifier? uint32
| | +--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 pseudowire-status?      ipi-vpls-types:vpls_pseudowire_status_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}?

```

module: ipi-l2vpn-vpws

```

+--rw vpws
+--rw interfaces
| +--rw interface* [name]
|   +--rw name                -> ../config/name
|   +--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 config
|     | +--rw name?            -> /ipi-interface:interfaces/interface/name
|     +--ro state
|       | +--ro name?          -> /ipi-interface:interfaces/interface/name
|       +--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-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}?
|             +--ro state
|               +--ro pseudowire-name?      string
|               +--ro service-template-name -> /ipi-mpls:mpls/l2vpn/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}?
|   +--rw static-forwarding
|     +--rw forwarding-information-base* [pseudowire-identifier]
|       +--rw pseudowire-identifier -> ../config/pseudowire-identifier
|       +--rw config
|         | +--rw pseudowire-identifier? -> /ipi-network-instance:network-
instances/network-instance/vpws-instance/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/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 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
| +--rw default-tagged
| | +--rw config!
| | | +--rw group-name? string
| | | +--rw group-identifier? uint32

```

```

| | | +---rw enable-control-word?          empty
| | | +---rw tunnel-name?                  string
| | | +---rw tunnel-identifier?            uint32
| | | +---rw allow-l2protocol-peer?        empty {feature-
list:HAVE_CUSTOM1_MPLS}?
| | | +---rw enable-default-tagged-mode    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 service-tpid?                ipi-vpws-types:vpws_svc_tpid_t
| | | +---rw enable-manual-pseudowire?    empty
| | +---ro state
| |   +---ro group-name?                   string
| |   +---ro group-identifier?             uint32
| |   +---ro enable-control-word?         empty
| |   +---ro tunnel-name?                  string
| |   +---ro tunnel-identifier?            uint32
| |   +---ro allow-l2protocol-peer?        empty {feature-
list:HAVE_CUSTOM1_MPLS}?
| |   +---ro enable-default-tagged-mode    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 service-tpid?                ipi-vpws-types:vpws_svc_tpid_t
| |   +---ro enable-manual-pseudowire?    empty
| +---rw tagged
| | +---rw config!
| | | +---rw group-name?                   string
| | | +---rw group-identifier?             uint32
| | | +---rw enable-control-word?         empty
| | | +---rw tunnel-name?                  string
| | | +---rw tunnel-identifier?            uint32
| | | +---rw allow-l2protocol-peer?        empty {feature-list:HAVE_CUSTOM1_MPLS}?
| | | +---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-manual-pseudowire?    empty
| | | +---rw enable-tagged-mode            empty
| | +---ro state
| |   +---ro group-name?                   string
| |   +---ro group-identifier?             uint32
| |   +---ro enable-control-word?         empty
| |   +---ro tunnel-name?                  string
| |   +---ro tunnel-identifier?            uint32
| |   +---ro allow-l2protocol-peer?        empty {feature-list:HAVE_CUSTOM1_MPLS}?
| |   +---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-manual-pseudowire?   empty
| |      +---ro enable-tagged-mode          empty
| +---rw raw
|   +---rw config!
|     | +---rw group-name?                  string
|     | +---rw group-identifier?           uint32
|     | +---rw enable-control-word?        empty
|     | +---rw tunnel-name?                string
|     | +---rw tunnel-identifier?          uint32
|     | +---rw allow-l2protocol-peer?      empty {feature-list:HAVE_CUSTOM1_MPLS}?
|     | +---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-raw-mode              empty
|     | +---rw enable-manual-pseudowire?    empty
|     +---ro state
|       +---ro group-name?                  string
|       +---ro group-identifier?           uint32
|       +---ro enable-control-word?        empty
|       +---ro tunnel-name?                string
|       +---ro tunnel-identifier?          uint32
|       +---ro allow-l2protocol-peer?      empty {feature-list:HAVE_CUSTOM1_MPLS}?
|       +---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-raw-mode              empty
|       +---ro enable-manual-pseudowire?    empty
+---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 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 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 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

```

module: 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

```

```

+--ro debug
| +--ro state
|   +--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                          -> /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
      | +--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
    +--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

```

module: 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? boolean {feature-
list:HAVE_MPLS_VC}?

```

```

| | +--rw multicast-hello-disable?          empty
| | +--rw advertise-label-for-default-route? empty
| | +--rw import-bgp-routes?               boolean
| | +--rw ldp-optimization?                boolean
| | +--rw explicit-null?                   boolean
| | +--rw global-merge?                    ipi-ldp-types:ldp_merge_capable_t
| | +--rw propagate-release?               boolean
| +--ro state
| | +--ro ldp-instance                      ipi-ldp-types:ldp_instance_t
| | +--ro router-identifier?                inet:ipv4-address
| | +--ro pseudowire-status-tlv?           boolean {feature-
list:HAVE_MPLS_VC}?
| | +--ro multicast-hello-disable?          empty
| | +--ro advertise-label-for-default-route? empty
| | +--ro import-bgp-routes?               boolean
| | +--ro ldp-optimization?                boolean
| | +--ro explicit-null?                   boolean
| | +--ro global-merge?                    ipi-ldp-types:ldp_merge_capable_t
| | +--ro propagate-release?               boolean
| +--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?                 boolean
| | | +--rw label-request-policy-ipv4?      string
| | | +--rw label-request-policy-ipv6?      string
| | +--ro state
| |   +--ro request-retry-timeout?          uint16
| |   +--ro request-retry?                 boolean
| |   +--ro label-request-policy-ipv4?      string
| |   +--ro label-request-policy-ipv6?      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
| +--ro state
|   +--ro ldp?          ipi-ldp-types:ldp_debug_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
+--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
| | +--rw transport-address-ipv6?  inet:ipv6-address {feature-list:HAVE_IPV6}?
| +--ro state
|   +--ro label-space-identifier?  ipi-ldp-types:ldp_label_space_identifier_t
|   +--ro transport-address-ipv4?  inet:ipv4-address
|   +--ro transport-address-ipv6?  inet:ipv6-address {feature-list:HAVE_IPV6}?
+--rw peer-authentication
| +--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:ip-address
| | | +--ro state
| | |   +--ro peer-address*      inet:ip-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
| | | | +--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
| | | | | +--ro state
| | | |   +--ro group-name?      string
| | | |   +--ro prefix-list?     string
| +--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
| | +--rw statistics
| | | +--ro state
| | |   +--ro label-deny-mapping?    uint32
| | |   +--ro label-deny-request?    uint32
+--rw interfaces

```



```

| +--rw interface* [name]
|   +--rw name                -> /ipi-interface:interfaces/interface/name
|   +--rw config
|     | +--rw enable-ldp-ipv4?          empty
|     | +--rw enable-ldp-ipv6?          empty
|     | +--rw multicast-hello-disable?  empty
|     | +--rw maximum-pdu-length?      uint32
|     | +--rw ldp-igp-sync-delay-interval?  uint32
|   +--ro state
|     | +--ro enable-ldp-ipv4?          empty
|     | +--ro enable-ldp-ipv6?          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?           ipi-ldp-types:ldp_vc_state_t
| | | | | | | +---ro local-pseudowire-status?        uint32
| | | | | | | +---ro remote-pseudowire-status?       uint32
| | | | | | | +---ro virtual-circuit-label-sent?     uint32
| | | | | | | +---ro virtual-circuit-label-received? uint32
| | | | | +---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?         ipi-ldp-types:ldp_vc_state_t
|         +---ro local-pseudowire-status?       uint32
|         +---ro remote-pseudowire-status?      uint32
|         +---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 hello-interval?    uint16
|       |   +---rw hello-holdtime?    uint16
|       +---ro state
|           +---ro target-address?    ipi-ldp-types:ldp_ip_addr_t
|           +---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 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-session-ipv6 {feature-list:HAVE_IPV6}?
| +---w input
|   +---w addr      inet:ipv6-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 clear-ldp-adjacency-ipv6 {feature-list:HAVE_IPV6}?
| +---w input
|   +---w addr      inet:ipv6-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 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 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 peer-address?          inet:ipv4-address
| +--ro initialization-session-threshold-limit?  uint32
+---n mpls-ldp-path-vector-limit-mismatch
  +--ro peer-address?          inet:ipv4-address
  +--ro entity-path-vector-limit?  uint32
  +--ro peer-path-vector-limit?   uint32
```

module: ipi-lldpv2

```
+--rw lldp
  +--rw global
    | +--rw config
    | | +--rw enable?          empty
    | | +--rw notification-interval?  uint16 {feature-list:HAVE_SNMP}?
    | +--ro state
    | | +--ro enable?          empty
    | | +--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
+---ro debug
| +---ro state
|   +---ro terminal-debug-status?          ipi-lldp-types:lldp_debug_t
+---rw interfaces
  +---rw interface* [name]
    +---rw name                          -> ../config/name
    +---rw config
      | +---rw name?                       -> /ipi-interface:interfaces/interface/name
      | +---rw disable-lldp-agent?         empty
      | +---rw agent-circuit-id?          string
      | +---rw med-device-type?           ipi-lldp-types:lldp_meddev_t
      | +---rw local-name?                string
    +---ro state
      | +---ro name?                       -> /ipi-interface:interfaces/interface/name
      | +---ro disable-lldp-agent?         empty
      | +---ro agent-circuit-id?          string
      | +---ro med-device-type?           ipi-lldp-types:lldp_meddev_t
      | +---ro local-name?                string
    +---ro neighbors
      | +---ro agent* [agent-type]
      |   +---ro agent-type                ipi-lldp-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-list* [address]
|             +---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 agent* [agent-type]
    +---rw agent-type    -> ../config/agent-type
    +---rw config
    | +---rw agent-type?    ipi-lldp-types:lldp_agent_t
    | +---rw enable-tx-rx?  ipi-lldp-types:lldp_enable_t
    +---ro state
    | +---ro agent-type?    ipi-lldp-types:lldp_agent_t
    | +---ro enable-tx-rx?  ipi-lldp-types:lldp_enable_t
    +---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 lldp-snmp-restart {feature-list:HAVE_SNMP}?

```

```

notifications:
+---n lldp-remote-inserts-notification
| +---ro remote-inserts? yang:counter32
+---n lldp-remote-deletes-notification
| +---ro remote-deletes? yang:counter32

```

module: ipi-logging

```

+---rw logging
| +---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 enable-syslog?      empty
| | +--rw timestamp-granularity?  ipi-logging-types:timestamp_units_t
| +--ro state
|   +--ro enable-syslog?      empty
|   +--ro timestamp-granularity?  ipi-logging-types:timestamp_units_t
+--rw rsyslog* [vrf]
| +--rw vrf          -> ../config/vrf
| +--rw config
| | +--rw vrf?          -> /ipi-network-instance:network-instances/network-
instance/ipi-vrf:vrf/config/vrf-name
| | +--rw enable-rsyslog  boolean
| +--ro state
| | +--ro vrf?          -> /ipi-network-instance:network-instances/network-
instance/ipi-vrf:vrf/config/vrf-name
| | +--ro enable-rsyslog  boolean
| +--rw remote-servers
|   +--rw remote-server* [address]
|     +--rw address      -> ../config/address
|     +--rw config
|     | +--rw address?    cml-data-types:cml_hostname_t
|     | +--rw severity    ipi-logging-types:log_severity_t
|     +--ro state
|       +--ro address?    cml-data-types:cml_hostname_t
|       +--ro severity    ipi-logging-types:log_severity_t
+--rw global
| +--rw config
| | +--rw remote-server-facility?  ipi-logging-types:log_facility_t
| +--ro state
|   +--ro remote-server-facility?  ipi-logging-types:log_facility_t
+--rw cli-logging
| +--rw config
| | +--rw enable-logging?  empty
| +--ro state
| | +--ro enable-logging?  empty
| +--rw max-session-limit
|   +--rw config
|   | +--rw max-session-limit?  uint8
|   +--ro state
|     +--ro max-session-limit?  uint8
+--rw fault-management
  +--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 logging-clear-debug-logfile
+---x logging-clear-logging-logfile

```

module: ipi-management-server

```

+--rw netconf-server {feature-list:HAVE_NETCONF}?
| +--rw callhome!
| | +--rw feature-enabled    empty
| | +--rw management-port?  -> /ipi-interface:interfaces/interface/name
| | +--rw netconf-client* [name]
| | | +--rw name            string
| | | +--rw address        string
| | | +--rw port?          inet:port-number
| | +--rw reconnect!
| |   +--rw enable          empty
| |   +--rw retry-max-attempts?  uint8
| |   +--rw retry-interval?    uint32
| +--rw debug
|   +--rw callhome-debug?  empty
+--rw management-server
  +--rw 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?    ipi-management-server-notification-
types: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?    ipi-management-server-notification-
types:notif_severity_t

```

module: 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 system-number?    uint8
    | | +--rw address?          ipi-mcec-types:mcec_domain_addr_t
    | | +--rw priority?         uint16
    | | +--rw hello-timeout?    ipi-mcec-types:mcec_hello_t
    | +--ro state
    | | +--ro system-number?      uint8
    | | +--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
| | | +---rw hlgig?      empty {feature-list:NOT_HAVE_DUNE}?
| | +---ro state
| |   +---ro interface?  -> /ipi-interface:interfaces/interface/name
| |   +---ro hlgig?      empty {feature-list:NOT_HAVE_DUNE}?
| +---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-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?      uint8
    | +--rw enable-non-revertive? empty
    +--ro state
    +--ro revertive-timer?      uint8
    +--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}?

```

module: 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

```

module: ipi-mld-snooping

```

+---rw mld-snooping
  +---rw global
  | +---rw config
  | | +---rw disable-mld-snooping?  empty
  | +---ro state
  |   +---ro disable-mld-snooping?  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

```

```

name      |  +--rw name?                               -> /ipi-interface:interfaces/interface/
          |  +--rw mld-snooping?                cml-data-types:cml_enable_disable_t
          |  +--rw enable-fast-leave?          empty
          |  +--rw disable-report-suppression? empty
name      |  +--rw mrouter-interface-name*            -> /ipi-interface:interfaces/interface/
          |  +--rw enable-querier?           empty
+--ro state
  +--ro name?                               -> /ipi-interface:interfaces/interface/
    +--ro mld-snooping?                     cml-data-types:cml_enable_disable_t
    +--ro enable-fast-leave?                empty
    +--ro disable-report-suppression?       empty
name      +--ro mrouter-interface-name*            -> /ipi-interface:interfaces/interface/
          +--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}?

```

module: 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
name |      | +---ro name?                    -> /ipi-interface:interfaces/interface/
|      | +---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 group-address inet:ipv6-address
    |   +---w if-name      string
    +---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

```

module: 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 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 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 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

```

module: ipi-mpls-rib

```

augment /ipi-mpls:mpls:
  +--rw rib
    +--ro global-fts-table
      | +--ro ipv4-fts-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 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
name | | | +--ro out-interface?      -> /ipi-interface:interfaces/interface/
| | | +--ro out-label?            uint32
| | | +--ro nexthop-address?      inet:ipv4-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 nhlfe-index?        uint32
| | | +--ro is-stale?           boolean
| | | +--ro label-op-code?      ipi-mpls-types:mpls_rib_label_op_code_t
| | +--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?      uint8
| | +--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
list:HAVE_IPV6?
| | +--ro ipv6-ften-entry* [fec-prefix6 owner lsp-type tunnel-id] {feature-
| | +--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
name | | | +--ro out-interface?      -> /ipi-interface:interfaces/interface/
| | | +--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 nhlfe-index? uint32
| | | | +---ro is-stale? boolean
| | | | +---ro label-op-code? ipi-mpls-types:mpls_rib_label_op_code_t
| | | +---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? uint8
| | | | +---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 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-type]
| | | | | +---ro out-interface -> ../state/out-interface
| | | | | +---ro out-label -> ../state/out-label
| | | | | +---ro xc-type -> ../state/xc-type
| | | | | +---ro state
| | | | | | +---ro out-interface? -> /ipi-interface:interfaces/interface/name
| | | | | | +---ro out-label? 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 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 state
+---rw map-route
| +---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-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-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-entry* [incoming-label]
      +---rw incoming-label    -> ../config/incoming-label
      +---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 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
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-ftn-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 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 nhlfe-index? uint32
| | | +--ro is-stale? boolean
| | | +--ro label-op-code? ipi-mpls-
types:mpls_rib_label_op_code_t
| | +--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? uint8
| | +--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 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
interface/name | +--ro out-interface? -> /ipi-interface:interfaces/
| | +--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 nhlfe-index? uint32
| | +--ro is-stale? boolean
| | +--ro label-op-code? ipi-mpls-
types:mpls_rib_label_op_code_t
| +--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?            uint8
|         +---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 vrf-name?      -> /ipi-network-instance:network-instances/network-
instance/ipi-vrf:vrf/config/vrf-name {feature-list:HAVE_VRF}?

```

module: ipi-mpls

```

+---rw mpls
+---rw label-space* [label-space-name]
| +---rw label-space-name      -> ../config/label-space-name
| +---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 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 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
+---rw l2vpn
| +---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-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-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-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
| +--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 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                    -> /ipi-interface:interfaces/interface/
config/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 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 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}?

```

module: 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-snmp-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

```

module: ipi-neighbor-discovery

```

+--rw neighbor-discovery
+--rw entry* [ipv6-address interface-name]
| +--rw ipv6-address      -> ../config/ipv6-address
| +--rw interface-name    -> /ipi-interface:interfaces/interface/name
| +--rw config
| | +--rw ipv6-address?   inet:ipv6-address
| | +--rw mac-address     cml-data-types:cml_mac_addr_t
| +--ro state
|   +--ro ipv6-address?   inet:ipv6-address
|   +--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            -> /ipi-interface:interfaces/interface/name
|   +--rw config
|   | +--rw nd-ageing-timeout? uint16
|   | +--rw nd-reachable-time? uint32
|   +--ro state

```

```

|         +---ro nd-ageing-timeout?   uint16
|         +---ro nd-reachable-time?   uint32
+---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

```

module: ipi-network-address-translation

```

+---rw network-address-translation {feature-list:HAVE_NAT}?
  +---rw timeouts
    | +---rw config
    | | +---rw generic-timeout?   uint32
    | | +---rw icmp-timeout?     uint32
    | | +---rw tcp-timeout?      uint32
    | | +---rw udp-timeout?      uint32
    | | +---rw tcp-fin-timeout?   uint32
    | +---ro state
    |   +---ro generic-timeout?   uint32
    |   +---ro icmp-timeout?     uint32

```

```
|      +--ro tcp-timeout?      uint32
|      +--ro udp-timeout?      uint32
|      +--ro tcp-fin-timeout?  uint32
+--rw ip-rules
|  +--rw incoming
|  |  +--rw source-mapping-entries
|  |  |  +--rw source-mapping-entry* [local-address global-address]
|  |  |  |  +--rw local-address      -> ../config/local-address
|  |  |  |  +--rw global-address     -> ../config/global-address
|  |  |  |  +--rw config
|  |  |  |  |  +--rw local-address?    inet:ipv4-address
|  |  |  |  |  +--rw global-address?  inet:ipv4-address
|  |  |  |  +--ro state
|  |  |  |  |  +--ro local-address?    inet:ipv4-address
|  |  |  |  |  +--ro global-address?   inet:ipv4-address
|  |  +--rw destination-mapping-entries
|  |  |  +--rw destination-mapping-entry* [local-address global-address]
|  |  |  |  +--rw local-address      -> ../config/local-address
|  |  |  |  +--rw global-address     -> ../config/global-address
|  |  |  |  +--rw config
|  |  |  |  |  +--rw local-address?    inet:ipv4-address
|  |  |  |  |  +--rw global-address?  inet:ipv4-address
|  |  |  |  +--ro state
|  |  |  |  |  +--ro local-address?    inet:ipv4-address
|  |  |  |  |  +--ro global-address?   inet:ipv4-address
|  +--rw outgoing
|  |  +--rw source-mapping-entries
|  |  |  +--rw source-mapping-entry* [local-address global-address]
|  |  |  |  +--rw local-address      -> ../config/local-address
|  |  |  |  +--rw global-address     -> ../config/global-address
|  |  |  |  +--rw config
|  |  |  |  |  +--rw local-address?    inet:ipv4-address
|  |  |  |  |  +--rw global-address?  inet:ipv4-address
|  |  |  |  +--ro state
|  |  |  |  |  +--ro local-address?    inet:ipv4-address
|  |  |  |  |  +--ro global-address?   inet:ipv4-address
|  |  +--rw destination-mapping-entries
|  |  |  +--rw destination-mapping-entry* [local-address global-address]
|  |  |  |  +--rw local-address      -> ../config/local-address
|  |  |  |  +--rw global-address     -> ../config/global-address
|  |  |  |  +--rw config
|  |  |  |  |  +--rw local-address?    inet:ipv4-address
|  |  |  |  |  +--rw global-address?  inet:ipv4-address
|  |  |  |  +--ro state
|  |  |  |  |  +--ro local-address?    inet:ipv4-address
|  |  |  |  |  +--ro global-address?   inet:ipv4-address
|  +--rw protocol-rule-mapping-entries
|  |  +--rw protocol-rule-mapping-entry* [protocol local-address port]
|  |  |  +--rw protocol          -> ../config/protocol
|  |  |  +--rw local-address     -> ../config/local-address
```



```

|          +--rw port          -> ../config/port
|          +--rw config
|          |  +--rw protocol?   ipi-network-address-translation-
types:nat_protocol_t
|          |  +--rw local-address? inet:ipv4-address
|          |  +--rw port?       uint16
|          +--ro state
|          |  +--ro protocol?    ipi-network-address-translation-
types:nat_protocol_t
|          |  +--ro local-address? inet:ipv4-address
|          |  +--ro port?        uint16
|          +--rw global-addresses
|          |  +--rw global-address* [address]
|          |  |  +--rw address   -> ../config/address
|          |  |  +--rw config
|          |  |  |  +--rw address?   inet:ipv4-address
|          |  |  |  +--rw global-port uint16
|          |  |  +--ro state
|          |  |  |  +--ro address?   inet:ipv4-address
|          |  |  |  +--ro global-port uint16
+--rw interfaces
  +--rw interface* [name]
    +--rw name      -> ../config/name
    +--rw config
    |  +--rw name?      string
    |  +--rw incoming? empty
    |  +--rw outgoing? empty
    +--ro state
      +--ro name?      string
      +--ro incoming? empty
      +--ro outgoing? empty

```

module: 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

```

module: 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}?
  | +---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}?
|  +---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 nsm-snmp-restart {feature-list:HAVE_SNMP}?

```

module: ipi-ntp

```

+--rw ntp
+--rw global
|  +--rw config
|  |  +--rw source-interface?  -> /ipi-interface:interfaces/interface/config/name
|  |  +--ro state
|  |  +--ro source-interface?  -> /ipi-interface:interfaces/interface/config/name
+--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?  boolean
|  |  |  +--rw enable-ntp?      boolean
|  |  |  +--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?  boolean
|  |  |  +--ro enable-ntp?      boolean
|  |  |  +--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

rpcs:
+---x ntp-clear-statistics {feature-list:HAVE_HOSTPD,feature-list:HAVE_HOSTP_NTP}?
|   +---w input
|       +---w statistics-type    ipi-ntp-types:ntp_statistics_type_t
+---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}?

```

module: 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

```

module: 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: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
+---rw 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 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 network-type?  ipi-ospf-types:ospf_network_t
|         | | | | | | +---rw passive?       empty
|         | | | | | | +---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 network-type? ipi-ospf-types:ospf_network_t
|         | | | | | | | +---ro passive?    empty
|         | | | | | | | +---ro authentication-type? ipi-ospf-
types:ospf_if_authentication_type_t
|         | | | | | | +---ro key?          ipi-ospf-types:ospf_md5_password_t
|         | | | | +---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]
router-id |         |         |         | +---rw remote-router-id           -> ../config/remote-
|         |         |         | +---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
types:ospf_tlv_type_t | | | | | | +--ro type?          ipi-ospf-
| | | | | | +--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
{feature-list:HAVE_GMPLS}? | | | | | | +--ro local-ids*          inet:ipv4-address
| | | | | | +--ro remote-ids*          inet:ipv4-address
{feature-list:HAVE_GMPLS}?
list:HAVE_GMPLS}? | | | | | | +--ro local-interface-id?      uint32 {feature-
list:HAVE_GMPLS}? | | | | | | +--ro local-remote-interface-id?  uint32 {feature-
| | | | | | +--ro metric?              uint32
| | | | | | +--ro maximum-bandwidth?    string
| | | | | | +--ro maximum-reservable-bandwidth?  string
| | | | | | +--ro resource-color-values*  decimal64
types:cml_gmpls_protection_type_t | | | | | | +--ro protection-type?    cml-data-
| | | | | | +--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
list:HAVE_GMPLS}? | | | | | | +--ro minimum-lsp-bandwidth?  string {feature-
| | | | | | +--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 lsdb-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 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 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 metric?      uint32
|   |   |   |   +---rw metric-type? ipi-ospf-types:ospf_metric_type_t
|   |   |   |   +---rw route-map?   string
|   |   |   |   +---rw tag?        uint32
|   |   |   |   +---rw protocol?   ipi-ospf-types:ospf_route_source_type_t
|   |   |   +---ro state
|   |   |   |   +---ro metric?      uint32
|   |   |   |   +---ro metric-type? ipi-ospf-types:ospf_metric_type_t
|   |   |   |   +---ro route-map?   string
|   |   |   |   +---ro tag?        uint32
|   |   |   |   +---ro protocol?   ipi-ospf-types:ospf_route_source_type_t
|   |   +---rw ospf-processes
|   |   |   +---rw ospf-process* [ospf-process-id]
|   |   |   |   +---rw ospf-process-id -> ../config/ospf-process-id
|   |   |   |   +---rw config
|   |   |   |   |   +---rw metric?      uint32
|   |   |   |   |   +---rw metric-type? ipi-ospf-types:ospf_metric_type_t
|   |   |   |   |   +---rw route-map?   string
|   |   |   |   |   +---rw tag?        uint32
|   |   |   |   |   +---rw ospf-process-id? uint16
|   |   |   |   +---ro state
|   |   |   |   |   +---ro metric?      uint32
|   |   |   |   |   +---ro metric-type? ipi-ospf-types:ospf_metric_type_t
|   |   |   |   |   +---ro route-map?   string
|   |   |   |   |   +---ro tag?        uint32
|   |   |   |   |   +---ro ospf-process-id? uint16
|   |   +---rw isis-processes
|   |   |   +---rw isis-process* [isis-process-id]
|   |   |   |   +---rw isis-process-id -> ../config/isis-process-id
|   |   |   |   +---rw config
|   |   |   |   |   +---rw metric?      uint32
|   |   |   |   |   +---rw metric-type? ipi-ospf-types:ospf_metric_type_t
|   |   |   |   |   +---rw route-map?   string
|   |   |   |   |   +---rw tag?        uint32
|   |   |   |   |   +---rw isis-process-id? string
|   |   |   |   +---ro state
|   |   |   |   |   +---ro metric?      uint32
|   |   |   |   |   +---ro metric-type? ipi-ospf-types:ospf_metric_type_t
|   |   |   |   |   +---ro route-map?   string
|   |   |   |   |   +---ro tag?        uint32
|   |   |   |   |   +---ro isis-process-id? string
|   +---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 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      -> /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 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 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 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 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
list:HAVE_BFD}?
|      +--ro bfd?                cml-data-types:cml_on_off_t {feature-
|      +--ro rate-limit?        cml-data-types:cml_on_off_t
|      +--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 n fsm?             ipi-ospf-types:ospf_debug_n fsm_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 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
name
| +--ro name?                     -> /ipi-interface:interfaces/interface/
| +--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 ldp-igp-sync-enable?   empty {feature-list:HAVE_LDPD}?
| | +--rw holddown-timer?       uint32 {feature-list:HAVE_LDPD}?
| | +--rw dead-interval?       uint16
| | +--rw hello-interval?      uint16
| | +--rw transmit-delay?      uint16
| | +--rw retransmission-interval? uint16
| | +--rw resync-timeout?      uint16
| +--ro state
|   +--ro ldp-igp-sync-enable?   empty {feature-list:HAVE_LDPD}?
|   +--ro holddown-timer?       uint32 {feature-list:HAVE_LDPD}?
|   +--ro dead-interval?       uint16
|   +--ro hello-interval?      uint16
|   +--ro transmit-delay?      uint16
|   +--ro retransmission-interval? uint16
|   +--ro resync-timeout?      uint16
+--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 transmit-delay?         uint16
| | +--rw retransmission-interval? uint16
| | +--rw resync-timeout?         uint16
| +--ro state
|   +--ro dead-interval?           uint16
|   +--ro hello-interval?         uint16
|   +--ro transmit-delay?         uint16
|   +--ro retransmission-interval? 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-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-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-retransmission-on {feature-list:HAVE OSPFD}?
+---x ospfv2-terminal-debug-retransmission-off {feature-list:HAVE OSPFD}?
+---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 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 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-lsid?              inet:ipv4-address
| +--ro lsdb-router-id?         inet:ipv4-address
+---n ospfv2-originate-lsa
| +--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 ospf-id?                uint16
| +--ro router-id?              inet:ipv4-address

```

```
| +--ro max-limit?      uint32
+---n ospfv2-virtual-link-interface-config-error
| +--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 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 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 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 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-lsid?        inet:ipv4-address
| +--ro lsdb-router-id?   inet:ipv4-address
+---n ospfv2-interface-link-state-change
| +--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 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 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

```

module: 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 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 metric? | uint32
| | | | | +---rw metric-type? | ipi-ospfv3-types:ospfv3_metric_type_t
| | | | | +---rw route-map? | string
| | | | | +---rw route-tag? | uint32
| | | | | +---rw protocol? | ipi-ospfv3-types:ospfv3_route_source_type_t
| | | | +---ro state
| | | | +---ro metric? | uint32
| | | | +---ro metric-type? | ipi-ospfv3-types:ospfv3_metric_type_t
| | | | +---ro route-map? | string
| | | | +---ro route-tag? | uint32
| | | | +---ro protocol? | ipi-ospfv3-types:ospfv3_route_source_type_t
| | +---rw ospf-processes
| | | +---rw ospf-process* [ospf-process-id]
| | | +---rw ospf-process-id -> ../config/ospf-process-id
| | | +---rw config
| | | | +---rw metric? | uint32
| | | | +---rw metric-type? | ipi-ospfv3-types:ospfv3_metric_type_t
| | | | +---rw route-map? | string
| | | | +---rw route-tag? | uint32
| | | | +---rw ospf-process-id? | ipi-ospfv3-types:ospfv3_string_t
| | | +---ro state
| | | +---ro metric? | uint32
| | | +---ro metric-type? | ipi-ospfv3-types:ospfv3_metric_type_t
| | | +---ro route-map? | string
| | | +---ro route-tag? | uint32
| | | +---ro ospf-process-id? | ipi-ospfv3-types:ospfv3_string_t
| +---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-lsid? 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
types:cml_ipv4_addr_prefix_t | +---rw address?          cml-data-
|         |         |         | +---rw not-advertise?  empty
|         |         |         +---ro state
types:cml_ipv4_addr_prefix_t |         +---ro address?      cml-data-
|         |         |         +---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 debug
| +---rw config
| | +---rw bfd?                                     empty {feature-list:HAVE_BFD}?
| | +---rw retransmission?                         empty
| | +---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 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 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}?
types:ospfv3_interface_admin_state_t
| +--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?           string
        |  +--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-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-ifsm-on {feature-list:HAVE_OSPF6D,feature-
list:HAVE_IPV6}?
  | +---w input
  |   +---w ifsm      ipi-ospfv3-types:ospfv3_debug_ifsm_t
  +---x ospfv3-terminal-debug-ifsm-off {feature-list:HAVE_OSPF6D,feature-
list:HAVE_IPV6}?
  | +---w input
  |   +---w ifsm      ipi-ospfv3-types:ospfv3_debug_ifsm_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-nfsm-on {feature-list:HAVE_OSPF6D,feature-
list:HAVE_IPV6}?
  | +---w input
  |   +---w nfsm      ipi-ospfv3-types:ospfv3_debug_nfsm_t
  +---x ospfv3-terminal-debug-nfsm-off {feature-list:HAVE_OSPF6D,feature-
list:HAVE_IPV6}?
  | +---w input
  |   +---w nfsm      ipi-ospfv3-types:ospfv3_debug_nfsm_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 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 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 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 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 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 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 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 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 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 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 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
```

module: 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? string
    |   +++rw route-map-v6-name? string {feature-list:HAVE_IPV6}?
    +++ro state
      +++ro name?      -> /ipi-interface:interfaces/interface/name
      +++ro route-map-name? string
      +++ro route-map-v6-name? string {feature-list:HAVE_IPV6}?

rpcs:
  +---x clear-route-map-pbr-statistics {feature-list:HAVE_PBR}?
  +---w input
    +---w route-map-name    string
```

module: 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

```



```

| | | | +---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-identifiler? 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?
interface/name          -> /ipi-interface:interfaces/
      | +--rw pim-mode?
types:pim_ipv6_mode_t  ipi-pim-ipv6-
      | +--rw bsr-border?
list:HAVE_PIM_SM}?    empty {feature-
      | +--rw dr-priority?
                        uint32
      | +--rw hello-interval?
                        uint16
      | +--rw hello-holdtime?
                        uint16
      | +--rw passive-enable?
                        empty
      | +--rw exclude-generated-id?
list:HAVE_PIM_SM}?    empty {feature-
      | +--rw unicast-bootstrap-router?
list:HAVE_PIM_SM}?    empty {feature-
      | +--rw neighbor-access-control-list-filter?
                        string
      | +--rw state-refresh-origination-interval?
list:HAVE_PIM_DM}?    uint16 {feature-
      | +--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?
interface/name          -> /ipi-interface:interfaces/
      | +--ro pim-mode?
types:pim_ipv6_mode_t  ipi-pim-ipv6-
      | +--ro bsr-border?
list:HAVE_PIM_SM}?    empty {feature-
      | +--ro dr-priority?
                        uint32
      | +--ro hello-interval?
                        uint16
      | +--ro hello-holdtime?
                        uint16
      | +--ro passive-enable?
                        empty
      | +--ro exclude-generated-id?
list:HAVE_PIM_SM}?    empty {feature-
      | +--ro unicast-bootstrap-router?
list:HAVE_PIM_SM}?    empty {feature-
      | +--ro neighbor-access-control-list-filter?
                        string
      | +--ro state-refresh-origination-interval?
list:HAVE_PIM_DM}?    uint16 {feature-
      | +--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_PIM_IPV4,feature-
list:HAVE_PIM_IPV6,feature-list:HAVE_BFD}?
+---x pim-terminal-debug-bfd-off {feature-list:HAVE_PIM_IPV4,feature-
list:HAVE_PIM_IPV6,feature-list:HAVE_BFD}?
+---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
```

module: 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 test-name?         string
    +--ro test-status?      ipi-ping-types:ping_test_status_t
    +--ro destination?     string

```

module: ipi-platform-port

```

augment /ipi-platform:components/ipi-platform:component:
    +--ro port

```

module: ipi-platform-terminal-device

```

+--rw terminal-device {feature-list:HAVE_COHERENT_OPTICS}?
    +--rw coherent-module* [slot-index]
    |   +--rw slot-index          -> ../config/slot-index
    |   +--rw config
    |   |   +--rw slot-index?          uint8

```

```

    | | +--rw service-enable?          empty
    | | +--rw description?            cml-data-types:cml_line_t
    | | +--rw network-interface-loopback-type? ipi-platform-terminal-device-
types:terminal_device_cmm_optical_loopback_t
    | | +--rw host-interface-loopback-type? ipi-platform-terminal-device-
types:terminal_device_cmm_optical_loopback_t
    | +--ro state
    | | +--ro counters
    | | | +--ro events
    | | |     +--ro checksum-fault?      yang:counter32
    | | |     +--ro hardware-fault?     yang:counter32
    | | |     +--ro host-lane-out-of-alignment? yang:counter32
    | | |     +--ro hardware-interlock? yang:counter32
    | | |     +--ro initialization-fault? yang:counter32
    | | |     +--ro over-temperature-fault? yang:counter32
    | | |     +--ro power-supply-fault?  yang:counter32
    | | |     +--ro rx-loss-of-signal?   yang:counter32
    | | |     +--ro rx-network-loss-of-lock? yang:counter32
    | | |     +--ro tx-host-loss-of-lock? yang:counter32
    | | |     +--ro tx-los-functionality? yang:counter32
    | | +--ro slot-index?              uint8
    | | +--ro service-enable?          empty
    | | +--ro description?            cml-data-types:cml_line_t
    | | +--ro network-interface-loopback-type? ipi-platform-terminal-device-
types:terminal_device_cmm_optical_loopback_t
    | | +--ro host-interface-loopback-type? ipi-platform-terminal-device-
types:terminal_device_cmm_optical_loopback_t
    | +--rw module-info
    | | +--ro state
    | | | +--ro host-interface-count?    uint32
    | | | +--ro network-interface-count? uint32
    | | | +--ro coherent-module-type?   ipi-platform-terminal-device-
types:terminal_device_cmm_card_type_t
    | | | +--ro presence?               ipi-platform-terminal-device-
types:terminal_device_cmm_device_presence_t
    | +--rw module-alarms
    | | +--ro state
    | | | +--ro general-status?         ipi-platform-terminal-device-
types:terminal_device_cmm_mod_general_status_alarm_t
    | | | +--ro module-fault-status?   ipi-platform-terminal-device-
types:terminal_device_cmm_mod_fault_status_alarm_t
    | | | +--ro temperature?           ipi-platform-terminal-device-
types:terminal_device_cmm_mod_temp_alarm_t
    | | | +--ro voltage?               ipi-platform-terminal-device-
types:terminal_device_cmm_mod_volt_alarm_t
    | +--rw monitor-thresholds
    | | +--rw temperature
    | | | +--ro state
    | | | | +--ro counters
    | | | | | +--ro events
    | | | | |     +--ro high-alarm?     yang:counter32
    | | | | |     +--ro high-warning?  yang:counter32
    | | | | |     +--ro low-alarm?     yang:counter32

```

```

| | | | +---ro low-warning? yang:counter32
| | | | +---ro high-alarm? decimal64
| | | | +---ro high-warning? decimal64
| | | | +---ro low-alarm? decimal64
| | | | +---ro low-warning? decimal64
| | +---rw voltage
| | | +---ro state
| | | | +---ro counters
| | | | | +---ro events
| | | | | +---ro high-alarm? yang:counter32
| | | | | +---ro high-warning? yang:counter32
| | | | | +---ro low-alarm? yang:counter32
| | | | | +---ro low-warning? yang:counter32
| | | | +---ro high-alarm? decimal64
| | | | +---ro high-warning? decimal64
| | | | +---ro low-alarm? decimal64
| | | | +---ro low-warning? decimal64
| +---rw transceiver
| | +---ro state
| | | +---ro firmware-version? string
| | | +---ro vendor-name? string
| | | +---ro part-no? string
| | | +---ro serial-no? string
| | | +---ro vendor-oui? cml-data-types:cml_line_t
| | | +---ro temperature? decimal64
| | | +---ro power? decimal64
| | | +---ro present? ipi-platform-terminal-device-
types:terminal_device_cmm_cfp_presence_t
| | +---rw optical-port
| | | +---rw config
| | | | +---rw shutdown? empty
| | | +---ro state
| | | | +---ro shutdown? empty
| | | | +---ro oper-status? ipi-platform-terminal-device-
types:terminal_device_cmm_mod_oper_status_t
| | +---rw network-interfaces
| | | +---rw interface* [net-index]
| | | | +---rw net-index -> ../config/net-index
| | | | +---rw config
| | | | | +---rw net-index? uint8
| | | | | +---rw differential-encoding? empty
| | | | | +---rw fec-mode? ipi-platform-terminal-device-
types:terminal_device_cmm_fec_mode_t
| | | | +---rw frequency? ipi-platform-terminal-device-
types:terminal_device_cmm_tx_frequency_t
| | | | +---rw loopback-type? ipi-platform-terminal-device-
types:terminal_device_cmm_optical_loopback_t
| | | | | +---rw losi-enabled? empty
| | | | | +---rw modulation-format? ipi-platform-terminal-device-
types:terminal_device_cmm_modulation_format_t
| | | | | +---rw operational-mode? uint16

```

```

| | | +---rw prbs-type? ipi-platform-terminal-device-
types:terminal_device_cmm_prbs_type_t
| | | +---rw pulse-shaping-rx? empty
| | | +---rw pulse-shaping-tx? empty
| | | +---rw soft-tx-disable? empty
| | | +---rw target-output-power? decimal64
| | | +---rw link-down? ipi-platform-terminal-device-
types:cml_cmm_link_down_t
| | | +---ro state
| | | | +---ro counters
| | | | | +---ro current-uncorrected-blocks? yang:counter32
| | | | | +---ro fec-uncorrected-blocks? yang:counter64
| | | | | +---ro otn-sm-bip8-error? yang:counter64
| | | | +---ro net-index? uint8
| | | | +---ro differential-encoding? empty
| | | | +---ro fec-mode? ipi-platform-terminal-device-
types:terminal_device_cmm_fec_mode_t
| | | | +---ro frequency? ipi-platform-terminal-device-
types:terminal_device_cmm_tx_frequency_t
| | | | +---ro loopback-type? ipi-platform-terminal-device-
types:terminal_device_cmm_optical_loopback_t
| | | | +---ro losi-enabled? empty
| | | | +---ro modulation-format? ipi-platform-terminal-device-
types:terminal_device_cmm_modulation_format_t
| | | | +---ro operational-mode? uint16
| | | | +---ro prbs-type? ipi-platform-terminal-device-
types:terminal_device_cmm_prbs_type_t
| | | | +---ro pulse-shaping-rx? empty
| | | | +---ro pulse-shaping-tx? empty
| | | | +---ro soft-tx-disable? empty
| | | | +---ro target-output-power? decimal64
| | | | +---ro link-down? ipi-platform-terminal-device-
types:cml_cmm_link_down_t
| | | | +---ro line-port? -> /ipi-platform:components/
component/name
| | | | +---ro provisioned-channel-power? decimal64
| | | | +---ro differential-group-delay? uint32
| | | | +---ro dsp-oper-status? ipi-platform-terminal-device-
types:terminal_device_cmm_dsp_oper_status_t
| | | | +---ro osnr? decimal64
| | | | +---ro current-q-margin? decimal64
| | | | +---ro current-tx-laser-frequency? uint64
| | | | +---ro prbs-in-sync? empty
| | | | +---ro oper-status? ipi-platform-terminal-device-
types:terminal_device_cmm_netif_oper_status_t
| | | +---rw chromatic-dispersion
| | | | +---ro state
| | | | | +---ro instant? int32
| | | +---rw input-power
| | | | +---ro state
| | | | | +---ro instant? decimal64
| | | +---rw output-power
| | | | +---ro state

```

```

| | | | +--ro instant? decimal64
| | | +--rw post-voa-power
| | | | +--ro state
| | | | +--ro instant? decimal64
| | | | +--ro instant-provisioned-channel? decimal64
| | | +--rw laser-grid
| | | | +--ro state
| | | | +--ro slot-width? ipi-platform-terminal-device-
types:terminal_device_cmm_grid_spacing_t
| | | | +--ro laser-grid? ipi-platform-terminal-device-
types:terminal_device_cmm_grid_support_t
| | | +--rw laser-info
| | | | +--ro state
| | | | +--ro laser-age? uint16
| | | | +--ro min-laser-freq? uint64
| | | | +--ro max-laser-freq? uint64
| | | +--rw ber
| | | | +--ro state
| | | | +--ro current-ber-period? uint32
| | | | +--ro current-post-fec-ber? uint64
| | | | +--ro current-prbs-ber? uint64
| | | | +--ro current-pre-fec-ber? uint64
| | | +--rw monitor-thresholds
| | | | +--rw config
| | | | | +--rw rx-chromatic-dispersion? string
| | | | | +--rw rx-q-margin? decimal64
| | | | | +--rw rx-snr? decimal64
| | | | | +--ro state
| | | | | | +--ro counters
| | | | | | | +--ro events
| | | | | | | | +--ro chromatic-dispersion-threshold? yang:counter32
| | | | | | | | +--ro osnr-threshold? yang:counter32
| | | | | | | | +--ro q-margin-threshold? yang:counter32
| | | | | | | | +--ro rx-los? yang:counter32
| | | | | | | +--ro rx-power-threshold-events
| | | | | | | | +--ro high-alarm? yang:counter32
| | | | | | | | +--ro high-warning? yang:counter32
| | | | | | | | +--ro low-warning? yang:counter32
| | | | | | | | +--ro low-alarm? yang:counter32
| | | | | | | +--ro pre-fec-ber-threshold-events
| | | | | | | | +--ro signal-degrade? yang:counter32
| | | | | | | | +--ro signal-fail? yang:counter32
| | | | | | | +--ro tx-power-threshold-events
| | | | | | | | +--ro high-alarm? yang:counter32
| | | | | | | | +--ro high-warning? yang:counter32
| | | | | | | | +--ro low-warning? yang:counter32
| | | | | | | | +--ro low-alarm? yang:counter32
| | | | | | +--ro rx-chromatic-dispersion? string
| | | | | | +--ro rx-q-margin? decimal64
| | | | | | +--ro rx-snr? decimal64
| | | | +--rw pre-fec-ber-thresholds

```

```

| | | | +---rw pre-fec-ber-threshold* [signal-failure signal-degrade clear]
| | | | +---rw signal-failure -> ../config/signal-failure
| | | | +---rw signal-degrade -> ../config/signal-degrade
| | | | +---rw clear -> ../config/clear
| | | | +---rw config
| | | | | +---rw signal-failure? ipi-platform-terminal-device-
types:terminal_device_scientific_notation_string
| | | | | +---rw signal-degrade? ipi-platform-terminal-device-
types:terminal_device_scientific_notation_string
| | | | | +---rw clear? ipi-platform-terminal-device-
types:terminal_device_scientific_notation_string
| | | | +---ro state
| | | | +---ro signal-failure? ipi-platform-terminal-device-
types:terminal_device_scientific_notation_string
| | | | +---ro signal-degrade? ipi-platform-terminal-device-
types:terminal_device_scientific_notation_string
| | | | +---ro clear? ipi-platform-terminal-device-
types:terminal_device_scientific_notation_string
| | | | +---rw rx-power-thresholds
| | | | +---rw rx-power-threshold* [high-alarm high-warning low-warning low-
alarm]
| | | | +---rw high-alarm -> ../config/high-alarm
| | | | +---rw high-warning -> ../config/high-warning
| | | | +---rw low-warning -> ../config/low-warning
| | | | +---rw low-alarm -> ../config/low-alarm
| | | | +---rw config
| | | | | +---rw high-alarm? decimal64
| | | | | +---rw high-warning? decimal64
| | | | | +---rw low-warning? decimal64
| | | | | +---rw low-alarm? decimal64
| | | | +---ro state
| | | | +---ro high-alarm? decimal64
| | | | +---ro high-warning? decimal64
| | | | +---ro low-warning? decimal64
| | | | +---ro low-alarm? decimal64
| | | | +---rw tx-power-threshold
| | | | +---ro state
| | | | +---ro high-alarm? decimal64
| | | | +---ro high-warning? decimal64
| | | | +---ro low-alarm? decimal64
| | | | +---ro low-warning? decimal64
| | | | +---rw permissible-rx-power-threshold
| | | | +---ro state
| | | | +---ro high-alarm-max? decimal64
| | | | +---ro high-alarm-min? decimal64
| | | | +---ro high-warning-max? decimal64
| | | | +---ro high-warning-min? decimal64
| | | | +---ro low-alarm-max? decimal64
| | | | +---ro low-alarm-min? decimal64
| | | | +---ro low-warning-max? decimal64
| | | | +---ro low-warning-min? decimal64
| | | +---rw channel-alarms

```

```

| |      +---ro state
| |      +---ro chromatic-dispersion?   empty
| |      +---ro input-power?            ipi-platform-terminal-device-
types:terminal_device_cmm_netif_input_power_alarm_t
| |      +---ro output-power?          ipi-platform-terminal-device-
types:terminal_device_cmm_netif_output_power_alarm_t
| |      +---ro q-margin?               empty
| |      +---ro pre-fec-ber-signal?    ipi-platform-terminal-device-
types:terminal_device_cmm_netif_pre_fec_ber_signal_alarm_t
| |      +---ro rx-los?                 empty
| |      +---ro rx-odu?                 ipi-platform-terminal-device-
types:terminal_device_cmm_netif_rx_odu_alarm_t
| |      +---ro rx-opu?                 ipi-platform-terminal-device-
types:terminal_device_cmm_netif_rx_opu_alarm_t
| |      +---ro rx-otu?                 ipi-platform-terminal-device-
types:terminal_device_cmm_netif_rx_otu_alarm_t
| |      +---ro rx-training-sequence?   ipi-platform-terminal-device-
types:terminal_device_cmm_netif_rx_ts_alarm_t
| |      +---ro osnr?                   empty
| +---rw host-interfaces
|   +---rw interface* [host-index]
|     +---rw host-index                 -> ../config/host-index
|     +---rw config
|       | +---rw host-index?           uint8
|       | +---rw fec-type?             ipi-platform-terminal-device-
types:terminal_device_cmm_optical_fec_t
|       | +---rw loopback-type?       ipi-platform-terminal-device-
types:terminal_device_cmm_optical_loopback_t
|       +---ro state
|         | +---ro counters
|         | | +---ro errors
|         | | | +---ro fec-uncorrected-blocks?  uint64
|         | | +---ro events
|         | | | +---ro deskew-lock-fault?      yang:counter32
|         | | | +---ro loss-of-align?          yang:counter32
|         | | | +---ro out-of-align?          yang:counter32
|         | | +---ro egress-pcs-events
|         | | | +---ro bip-error?              uint32
|         | | | +---ro deskew-error?          uint32
|         | | | +---ro error-blocks-detected?  uint32
|         | | | +---ro high-ber?              uint32
|         | | | +---ro illegal-alignment-marker?  uint32
|         | | | +---ro local-fault?            uint32
|         | | | +---ro loss-of-alignment?      uint32
|         | | | +---ro loss-of-alignment-marker-lock?  uint32
|         | | | +---ro loss-of-block-lock?     uint32
|         | | | +---ro loss-of-frame?          uint32
|         | | | +---ro loss-of-signal?         uint32
|         | | | +---ro opu-client-signal-fail?  uint32
|         | | | +---ro remote-fault?          uint32
|         | | +---ro ingress-aps-events
|         | | | +---ro msg-received?          yang:counter32

```

```

|         | | +---ro ingress-pcs-events
|         | | | +---ro bip-error?                yang:counter32
|         | | | +---ro deskew-error?            yang:counter32
|         | | | +---ro error-blocks-detected?   yang:counter32
|         | | | +---ro high-ber?                yang:counter32
|         | | | +---ro illegal-alignment-marker? yang:counter32
|         | | | +---ro local-fault?             yang:counter32
|         | | | +---ro loss-of-alignment?       yang:counter32
|         | | | +---ro loss-of-alignment-marker-lock? yang:counter32
|         | | | +---ro loss-of-block-lock?      yang:counter32
|         | | | +---ro loss-of-frame?          yang:counter32
|         | | | +---ro loss-of-signal?         yang:counter32
|         | | | +---ro opu-client-signal-fail?  yang:counter32
|         | | | +---ro remote-fault?           yang:counter32
|         | | +---ro tx-loss-of-lock-events
|         | |   +---ro lane0?   yang:counter32
|         | |   +---ro lane1?   yang:counter32
|         | |   +---ro lane2?   yang:counter32
|         | |   +---ro lane3?   yang:counter32
|         | +---ro host-index?      uint8
|         | +---ro fec-type?        ipi-platform-terminal-device-
types:terminal_device_cmm_optical_fec_t
|         | +---ro loopback-type?   ipi-platform-terminal-device-
types:terminal_device_cmm_optical_loopback_t
|         | +---ro current-pre-fec-ber? uint64
|         +---rw host-interface-alarms
|         | +---ro state
|         | +---ro egress-pcs?      ipi-platform-terminal-device-
types:terminal_device_cmm_hostif_pcs_alarm_t
|         | +---ro interface-fault? ipi-platform-terminal-device-
types:terminal_device_cmm_hostif_fault_status_alarm_t
|         | +---ro ingress-pcs?    ipi-platform-terminal-device-
types:terminal_device_cmm_hostif_pcs_alarm_t
|         +---rw assignments
|         +---ro state
|         +---ro network-interface-index? uint8
|         +---ro ethernet-interface?     string
+---rw operational-modes
| +---ro mode* [mode-id]
|   +---ro mode-id   -> ../state/mode-id
|   +---ro state
|     +---ro mode-id?      uint16
|     +---ro description?  string
|     +---ro vendor-id?   string
+---rw debug
  +---rw config
    | +---rw options?      ipi-platform-terminal-device-
types:terminal_device_tai_debug_t
    +---ro state
      +---ro options?      ipi-platform-terminal-device-
types:terminal_device_tai_debug_t

```



```

        +---ro terminal-debug-status?   ipi-platform-terminal-device-
types:terminal_device_tai_debug_t

rpcs:
  +---x tai-terminal-debug-on {feature-list:HAVE_COHERENT_OPTICS}?
  | +---w input
  |   +---w terminal-debug-options   ipi-platform-terminal-device-
types:terminal_device_tai_debug_t
  +---x tai-terminal-debug-off {feature-list:HAVE_COHERENT_OPTICS}?
  | +---w input
  |   +---w terminal-debug-options   ipi-platform-terminal-device-
types:terminal_device_tai_debug_t
  +---x clear-coherent-module-event-counters {feature-list:HAVE_COHERENT_OPTICS}?
  | +---w input
  |   +---w slot-index   uint8
  +---x clear-coherent-module-error-counters {feature-list:HAVE_COHERENT_OPTICS}?
  +---w input
  +---w slot-index   uint8

notifications:
  +---n coherent-module-inserted {feature-list:HAVE_COHERENT_OPTICS}?
  | +---ro slot-index?   uint8
  | +---ro coherent-module-type? ipi-platform-terminal-device-
types:terminal_device_cmm_card_type_t
  +---n coherent-module-removed {feature-list:HAVE_COHERENT_OPTICS}?
  | +---ro slot-index?   uint8
  | +---ro coherent-module-type? ipi-platform-terminal-device-
types:terminal_device_cmm_card_type_t
  +---n cfp-transceiver-inserted {feature-list:HAVE_COHERENT_OPTICS}?
  | +---ro slot-index?   uint8
  | +---ro coherent-module-type? ipi-platform-terminal-device-
types:terminal_device_cmm_card_type_t
  | +---ro net-index?   uint8
  +---n cfp-transceiver-removed {feature-list:HAVE_COHERENT_OPTICS}?
  | +---ro slot-index?   uint8
  | +---ro coherent-module-type? ipi-platform-terminal-device-
types:terminal_device_cmm_card_type_t
  | +---ro net-index?   uint8
  +---n coherent-module-temperature-high-alarm {feature-list:HAVE_COHERENT_OPTICS}?
  | +---ro slot-index?   uint8
  +---n coherent-module-temperature-high-warning {feature-list:HAVE_COHERENT_OPTICS}?
  | +---ro slot-index?   uint8
  +---n coherent-module-temperature-low-warning {feature-list:HAVE_COHERENT_OPTICS}?
  | +---ro slot-index?   uint8
  +---n coherent-module-temperature-low-alarm {feature-list:HAVE_COHERENT_OPTICS}?
  | +---ro slot-index?   uint8
  +---n coherent-module-temperature-recovered {feature-list:HAVE_COHERENT_OPTICS}?
  | +---ro slot-index?   uint8
  +---n coherent-module-voltage-high-alarm {feature-list:HAVE_COHERENT_OPTICS}?
  | +---ro slot-index?   uint8
  +---n coherent-module-voltage-high-warning {feature-list:HAVE_COHERENT_OPTICS}?
  | +---ro slot-index?   uint8

```

```
+---n coherent-module-voltage-low-warning {feature-list:HAVE_COHERENT_OPTICS}?
| +--ro slot-index? uint8
+---n coherent-module-voltage-low-alarm {feature-list:HAVE_COHERENT_OPTICS}?
| +--ro slot-index? uint8
+---n coherent-module-voltage-recovered {feature-list:HAVE_COHERENT_OPTICS}?
| +--ro slot-index? uint8
+---n coherent-module-general-status {feature-list:HAVE_COHERENT_OPTICS}?
| +--ro slot-index? uint8
| +--ro general-status? ipi-platform-terminal-device-
types:terminal_device_cmm_mod_general_status_alarm_t
+---n coherent-module-fault-status {feature-list:HAVE_COHERENT_OPTICS}?
| +--ro slot-index? uint8
| +--ro module-fault-status? ipi-platform-terminal-device-
types:terminal_device_cmm_mod_fault_status_alarm_t
+---n network-interface-rx-los-alarm {feature-list:HAVE_COHERENT_OPTICS}?
| +--ro net-index? uint8
| +--ro slot-index? uint8
+---n network-interface-rx-los-recovered {feature-list:HAVE_COHERENT_OPTICS}?
| +--ro net-index? uint8
| +--ro slot-index? uint8
+---n network-interface-input-power-high-alarm {feature-list:HAVE_COHERENT_OPTICS}?
| +--ro net-index? uint8
| +--ro slot-index? uint8
+---n network-interface-input-power-high-warning {feature-
list:HAVE_COHERENT_OPTICS}?
| +--ro net-index? uint8
| +--ro slot-index? uint8
+---n network-interface-input-power-low-warning {feature-
list:HAVE_COHERENT_OPTICS}?
| +--ro net-index? uint8
| +--ro slot-index? uint8
+---n network-interface-input-power-low-alarm {feature-list:HAVE_COHERENT_OPTICS}?
| +--ro net-index? uint8
| +--ro slot-index? uint8
+---n network-interface-input-power-recovered {feature-list:HAVE_COHERENT_OPTICS}?
| +--ro net-index? uint8
| +--ro slot-index? uint8
+---n network-interface-output-power-high-alarm {feature-
list:HAVE_COHERENT_OPTICS}?
| +--ro net-index? uint8
| +--ro slot-index? uint8
+---n network-interface-output-power-high-warning {feature-
list:HAVE_COHERENT_OPTICS}?
| +--ro net-index? uint8
| +--ro slot-index? uint8
+---n network-interface-output-power-low-warning {feature-
list:HAVE_COHERENT_OPTICS}?
| +--ro net-index? uint8
| +--ro slot-index? uint8
+---n network-interface-output-power-low-alarm {feature-list:HAVE_COHERENT_OPTICS}?
| +--ro net-index? uint8
| +--ro slot-index? uint8
```

```

    +---n network-interface-output-power-recovered {feature-list:HAVE_COHERENT_OPTICS}?
    | +--ro net-index?      uint8
    | +--ro slot-index?    uint8
    +---n network-interface-pre-fec-ber-signal-fail {feature-
list:HAVE_COHERENT_OPTICS}?
    | +--ro net-index?      uint8
    | +--ro slot-index?    uint8
    +---n network-interface-pre-fec-ber-signal-degrade {feature-
list:HAVE_COHERENT_OPTICS}?
    | +--ro net-index?      uint8
    | +--ro slot-index?    uint8
    +---n network-interface-pre-fec-ber-signal-clear {feature-
list:HAVE_COHERENT_OPTICS}?
    | +--ro net-index?      uint8
    | +--ro slot-index?    uint8
    +---n network-interface-rx-q-margin-pm-interval {feature-
list:HAVE_COHERENT_OPTICS}?
    | +--ro net-index?      uint8
    | +--ro slot-index?    uint8
    +---n network-interface-rx-q-margin-pm-recovered {feature-
list:HAVE_COHERENT_OPTICS}?
    | +--ro net-index?      uint8
    | +--ro slot-index?    uint8
    +---n network-interface-current-osnr-threshold {feature-list:HAVE_COHERENT_OPTICS}?
    | +--ro net-index?      uint8
    | +--ro slot-index?    uint8
    +---n network-interface-current-osnr-threshold-recovered {feature-
list:HAVE_COHERENT_OPTICS}?
    | +--ro net-index?      uint8
    | +--ro slot-index?    uint8
    +---n network-interface-chromatic-dispersion {feature-list:HAVE_COHERENT_OPTICS}?
    | +--ro net-index?      uint8
    | +--ro slot-index?    uint8
    +---n network-interface-chromatic-dispersion-recovered {feature-
list:HAVE_COHERENT_OPTICS}?
    | +--ro net-index?      uint8
    | +--ro slot-index?    uint8
    +---n host-interface-ingress-pcs {feature-list:HAVE_COHERENT_OPTICS}?
    | +--ro host-index?     uint8
    | +--ro slot-index?     uint8
    | +--ro ingress-pcs?    ipi-platform-terminal-device-
types:terminal_device_cmm_hostif_pcs_alarm_t
    +---n host-interface-egress-pcs {feature-list:HAVE_COHERENT_OPTICS}?
    | +--ro host-index?     uint8
    | +--ro slot-index?     uint8
    | +--ro egress-pcs?     ipi-platform-terminal-device-
types:terminal_device_cmm_hostif_pcs_alarm_t
    +---n host-interface-interface-fault-status {feature-list:HAVE_COHERENT_OPTICS}?
    | +--ro host-index?     uint8
    | +--ro slot-index?     uint8
    | +--ro interface-fault? ipi-platform-terminal-device-
types:terminal_device_cmm_hostif_fault_status_alarm_t

```

module: 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 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 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 subcomponents
| | | +--ro subcomponent* [subcomponent-name]
| | | | +--ro subcomponent-name -> ../state/subcomponent-name
| | | | +--ro state
| | | | | +--ro subcomponent-name? -> /components/component/state/name
| | | | | +--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 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 harddisk-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-transceiver-
types:ddm_cmm_trans_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-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 input-power?                            decimal64
| | | | +--ro output-power?                           decimal64
| | | | +--ro laser-bias-current?                     decimal64
| | | +--ro sfp

```

```

| | | | +--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 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 lanel-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_identifiler_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 output-power?         decimal64
| | | |      +---ro laser-bias-current?    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 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 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-alert-threshold-min?     decimal64
| | |   +---ro temp3-alert-threshold-max?     decimal64
| | |   +---ro temp3-critical-threshold-min?   decimal64
| | |   +---ro temp3-critical-threshold-max?   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 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 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 ddrvtt-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-types:cmm_poe_port_status_t
| | +---ro cmis-modules
| |     +---ro cmis-module* [type port]
| |     +---ro type               -> ../state/type
| |     +---ro port               -> ../state/port
| |     +---ro state
| |         +---ro type?          ipi-platform-cmis-types:cmm_cmis_port_type_t
| |         +---ro port?         uint8
| |         +---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 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 module-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
| | | +---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}?
| | | | +---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
| | | +---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 vpiu-control-vlan?                  uint16 {feature-
list:HAVE_VPIU_EMULATION}?
| | | +--rw service-unsupported-transceiver?    empty {feature-list:NOT_HAVE_TIBIT}?
| | | +--rw enable-ddm-monitor?                empty {feature-list:NOT_HAVE_TIBIT}?
| | +--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 vpiu-control-vlan?                uint16 {feature-
list:HAVE_VPIU_EMULATION}?
| | | +--ro service-unsupported-transceiver?    empty {feature-list:NOT_HAVE_TIBIT}?
| | | +--ro enable-ddm-monitor?              empty {feature-list:NOT_HAVE_TIBIT}?
| | | +--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
| | +--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

```

```

| | | +---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
| | +---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
| | |   +---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
| | +---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 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
| +--rw interfaces {feature-list:NOT_HAVE_TIBIT}?
| | +--rw interface* [interface-name]
| |   +--rw interface-name -> /ipi-interface:interfaces/interface/name
| |   +--rw config
| |     | +--rw monitor-port? ipi-platform-types:cmm_monitor_state
| |     | +--rw poe-enable? empty
| |     | +--rw videopiu-port? ipi-platform-types:cmm_videopiu_state {feature-
list:HAVE_VPIU_EMULATION}?
| |     | +--rw transceiver-code? ipi-platform-transceiver-types:ddm_transceiver_t
| |     | +--rw wavelength? ipi-platform-types:cml_wavelength_t
| |     | +--rw tx-disable? empty
| |     +--ro state
| |       +--ro monitor-port? ipi-platform-types:cmm_monitor_state
| |       +--ro poe-enable? empty
| |       +--ro videopiu-port? ipi-platform-types:cmm_videopiu_state {feature-
list:HAVE_VPIU_EMULATION}?
| |       +--ro transceiver-code? ipi-platform-transceiver-types:ddm_transceiver_t
| |       +--ro wavelength? ipi-platform-types:cml_wavelength_t

```

```

| |      +---ro tx-disable?          empty
| |      +---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
| +---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
|       +---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
+---rw profiles
| +---rw hardware-profile
| | +---rw config
| | +---ro state
| | +---rw filters
| | | +---rw config

```

```

| | | | +--rw egress-ipv6?          cml-data-types:cml_enable_disable_t {feature-
list:HAVE_ACL,feature-list:NOT_HAVE_DUNE}?
| | | | +--rw ingress-ipv6-acl?    cml-data-types:cml_enable_disable_t {feature-
list:HAVE_ACL,feature-list:NOT_HAVE_DUNE}?
| | | | +--rw ingress-ipv4?        cml-data-types:cml_enable_disable_t {feature-
list:HAVE_ACL,feature-list:NOT_HAVE_DUNE}?
| | | | +--rw ingress-arp?         empty {feature-list:HAVE_ACL}?
| | | | +--ro state
| | | | +--ro egress-ipv6?          cml-data-types:cml_enable_disable_t {feature-
list:HAVE_ACL,feature-list:NOT_HAVE_DUNE}?
| | | | +--ro ingress-ipv6-acl?    cml-data-types:cml_enable_disable_t {feature-
list:HAVE_ACL,feature-list:NOT_HAVE_DUNE}?
| | | | +--ro ingress-ipv4?        cml-data-types:cml_enable_disable_t {feature-
list:HAVE_ACL,feature-list:NOT_HAVE_DUNE}?
| | | | +--ro ingress-arp?         empty {feature-list:HAVE_ACL}?
| | | | +--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
| | | | +--ro state
| +--rw forwarding-profiles
| | +--rw config {feature-list:HAVE_BCM_UFT,feature-list:NOT_HAVE_DUNE}?
| | | +--rw profile? ipi-platform-types:platform_forwarding_profile_t {feature-
list:HAVE_BCM_UFT,feature-list:NOT_HAVE_DUNE}?
| | | | +--ro state {feature-list:HAVE_BCM_UFT,feature-list:NOT_HAVE_DUNE}?
| | | | +--ro profile? ipi-platform-types:platform_forwarding_profile_t {feature-
list:HAVE_BCM_UFT,feature-list:NOT_HAVE_DUNE}?
| | | | +--ro table-limit {feature-list:HAVE_BCM_UFT}?
| | | | | +--ro state {feature-list:HAVE_BCM_UFT}?
| | | | | | +--ro forwarding-profile? ipi-platform-
types:platform_forwarding_profile_t {feature-list:NOT_HAVE_DUNE}?
| | | | | | +--ro table-sizes {feature-list:NOT_HAVE_DUNE}?
| | | | | | | +--ro table-size* [profile]
| | | | | | | | +--ro profile    -> ../state/profile
| | | | | | | | +--ro state
| | | | | | | | +--ro profile?          ipi-platform-
types:platform_forwarding_profile_t
| | | | | | | | +--ro mac-address-entries?    uint32
| | | | | | | | +--ro host-ipv4-entries?     uint32

```

```

| | | | | +---ro host-ipv6-entries? uint32
| | | | | +---ro prefix-ipv4-entries? uint32
| | | | | +---ro prefix-ipv6-entries? uint32
| | | | | +---ro prefix-ipv6-128-entries? uint32 {feature-
list:NOT_HAVE_HELIX4}?
| | | | | +---rw custom-profile {feature-list:HAVE_BCM_UFT,feature-list:NOT_HAVE_DUNE}?
| | | | | +---rw config
| | | | | | +---rw l2-banks? uint8
| | | | | | +---rw l3-banks? uint8
| | | | | | +---rw lpm-banks? ipi-platform-
types:platform_lpm_custom_profile_t
| | | | | | +---rw vlan-xlate-banks? uint8
| | | | | | +---rw ep-vlan-xlate-banks? uint8
| | | | | +---ro state
| | | | | | +---ro l2-banks? uint8
| | | | | | +---ro l3-banks? uint8
| | | | | | +---ro lpm-banks? ipi-platform-
types:platform_lpm_custom_profile_t
| | | | | | +---ro vlan-xlate-banks? uint8
| | | | | | +---ro ep-vlan-xlate-banks? uint8
+---rw hardware
| | | | | +---rw load-balance {feature-list:HAVE_BROADCOM}?
| | | | | | +---rw config!
| | | | | | | +---rw hash? ipi-platform-types:platform_load_hash_t {feature-
list:NOT_HAVE_DUNE}?
| | | | | | | +---rw macro-flow-based? empty {feature-list:NOT_HAVE_DUNE}?
| | | | | | | +---rw enable empty
| | | | | | +---ro state
| | | | | | | +---ro hash? ipi-platform-types:platform_load_hash_t {feature-
list:NOT_HAVE_DUNE}?
| | | | | | | +---ro macro-flow-based? empty {feature-list:NOT_HAVE_DUNE}?
| | | | | | | +---ro enable empty
| | | | | +---rw l2 {feature-list:HAVE_L2}?
| | | | | | +---rw config
| | | | | | | +---rw dest-mac-based? empty {feature-list:NOT_HAVE_DNX}?
| | | | | | | +---rw src-mac-based? empty {feature-list:NOT_HAVE_DNX}?
| | | | | | | +---rw ether-type-based? empty
| | | | | | | +---rw vlan-based? empty
| | | | | | +---ro state
| | | | | | | +---ro dest-mac-based? empty {feature-list:NOT_HAVE_DNX}?
| | | | | | | +---ro src-mac-based? empty {feature-list:NOT_HAVE_DNX}?
| | | | | | | +---ro ether-type-based? empty
| | | | | | | +---ro vlan-based? empty
| | | | | +---rw ipv4 {feature-list:HAVE_L3}?
| | | | | | +---rw config
| | | | | | | +---rw symmetric? empty {feature-list:NOT_HAVE_DUNE,feature-
list:NOT_HAVE_DNX}?
| | | | | | | +---rw src-ipv4-address-based? empty {feature-list:NOT_HAVE_DNX}?
| | | | | | | +---rw dest-ipv4-address-based? empty {feature-list:NOT_HAVE_DNX}?
| | | | | | | +---rw src-l4-port-based? empty {feature-list:NOT_HAVE_DNX}?
| | | | | | | +---rw dest-l4-port-based? empty {feature-list:NOT_HAVE_DNX}?
| | | | | | | +---rw protocol-id-based? empty

```

```

| | | +--ro state
| | |   +--ro symmetric?          empty {feature-list:NOT_HAVE_DUNE,feature-
list:NOT_HAVE_DNX}?
| | |     +--ro src-ipv4-address-based?  empty {feature-list:NOT_HAVE_DNX}?
| | |     +--ro dest-ipv4-address-based? empty {feature-list:NOT_HAVE_DNX}?
| | |     +--ro src-l4-port-based?       empty {feature-list:NOT_HAVE_DNX}?
| | |     +--ro dest-l4-port-based?     empty {feature-list:NOT_HAVE_DNX}?
| | |     +--ro protocol-id-based?     empty
| | +--rw ipv6 {feature-list:HAVE_L3}?
| | | +--rw config
| | | | +--rw symmetric?          empty {feature-list:NOT_HAVE_DUNE,feature-
list:NOT_HAVE_DNX}?
| | | | | +--rw src-ipv6-address-based?  empty {feature-list:NOT_HAVE_DNX}?
| | | | | +--rw dest-ipv6-address-based? empty {feature-list:NOT_HAVE_DNX}?
| | | | | +--rw src-l4-port-based?       empty {feature-list:NOT_HAVE_DNX}?
| | | | | +--rw dest-l4-port-based?     empty {feature-list:NOT_HAVE_DNX}?
| | | | | +--rw next-header-based?     empty
| | | | +--ro state
| | | |   +--ro symmetric?          empty {feature-list:NOT_HAVE_DUNE,feature-
list:NOT_HAVE_DNX}?
| | | | | +--ro src-ipv6-address-based?  empty {feature-list:NOT_HAVE_DNX}?
| | | | | +--ro dest-ipv6-address-based? empty {feature-list:NOT_HAVE_DNX}?
| | | | | +--ro src-l4-port-based?       empty {feature-list:NOT_HAVE_DNX}?
| | | | | +--ro dest-l4-port-based?     empty {feature-list:NOT_HAVE_DNX}?
| | | | | +--ro next-header-based?     empty
| | | +--rw tunnel {feature-list:HAVE_L3,feature-list:NOT_HAVE_DUNE}?
| | | | +--rw config
| | | | | +--rw outer-l3-header?  empty
| | | | +--ro state
| | | | | +--ro outer-l3-header?  empty
| | +--rw port-channel
| | | +--rw interfaces {feature-list:HAVE_LACP,feature-list:NOT_HAVE_DUNE}?
| | | | +--rw interface* [name]
| | | | | +--rw name          -> ../config/name
| | | | | +--rw config
| | | | | | +--rw name?      -> /ipi-interface:interfaces/interface/name
| | | | | | +--rw type?     ipi-platform-types:platform_lacp_psc_t
| | | | | +--ro state
| | | | | | +--ro name?     -> /ipi-interface:interfaces/interface/name
| | | | | | +--ro type?     ipi-platform-types:platform_lacp_psc_t
| +--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}?
| | +--rw rate-limits
| | | +--rw rate-limit* [queue-name]
| | | | +--rw queue-name     -> ../config/queue-name
| | | | +--rw config
| | | | | +--rw lossy?       ipi-platform-types:platform_cpu_queue_lossy_t
{feature-list:NOT_HAVE_DUNE}?

```



```

| | | | +---rw monitor?      ipi-platform-types:platform_cpu_queue_monitor_t
{feature-list:NOT_HAVE_DUNE}?
| | | | +---rw queue-name?   ipi-platform-types:platform_cpu_queue_name_t
| | | | +---rw rate?         int32
| | | | +---ro state
| | | | +---ro lossy?         ipi-platform-types:platform_cpu_queue_lossy_t
{feature-list:NOT_HAVE_DUNE}?
| | | | +---ro monitor?      ipi-platform-types:platform_cpu_queue_monitor_t
{feature-list:NOT_HAVE_DUNE}?
| | | | +---ro queue-name?   ipi-platform-types:platform_cpu_queue_name_t
| | | | +---ro rate?         int32
| +---rw mac-ageing
| | +---rw config
| | | +---rw enable-mac-ageing-timer?  empty {feature-list:HAVE_L2_AGE_SHOW}?
| | | +---ro state
| | | +---ro enable-mac-ageing-timer?  empty {feature-list:HAVE_L2_AGE_SHOW}?
| +---rw platform
| | +---rw config
| | +---rw soc?      ipi-platform-types:platform_soc_type_t
+---rw qsfp-dds
  +---rw qsfp-dd* [fp-port]
    +---rw fp-port    -> ../config/fp-port
    +---rw config
    | +---rw fp-port?      uint8
    | +---rw application?  uint8
    +---ro state
    | +---ro fp-port?      uint8
    | +---ro application?  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 media
    | +---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 laser
  +--rw config
  | +--rw channel?      int16
  +--ro state
    +--ro channel?      int16

rpcs:
  +---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}?

```

notifications:

```

+---n bmc-lower-non-critical-low-threshold-notification {feature-
list:NOT_HAVE_TIBIT}?
| +--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 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 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 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-non-recoverable-low-threshold-notification {feature-
list:NOT_HAVE_TIBIT}?
| +--ro name?                string
| +--ro lower-non-recoverable? decimal64
| +--ro threshold?           decimal64
| +--ro units?               string
| +--ro event-type?          ipi-platform-types:cmm_bmc_event_type_t
+---n bmc-lower-non-recoverable-high-threshold-notification {feature-
list:NOT_HAVE_TIBIT}?
| +--ro name?                string
| +--ro lower-non-recoverable? decimal64
| +--ro threshold?           decimal64
| +--ro units?               string
| +--ro event-type?          ipi-platform-types:cmm_bmc_event_type_t
+---n bmc-upper-non-critical-low-threshold-notification {feature-
list:NOT_HAVE_TIBIT}?
| +--ro name?                string
| +--ro upper-non-critical?   decimal64
| +--ro threshold?           decimal64

```

```
| +--ro units?                string
| +--ro event-type?          ipi-platform-types:cmm_bmc_event_type_t
+---n bmc-upper-non-critical-high-threshold-notification {feature-
list:NOT_HAVE_TIBIT}?
| +--ro name?                string
| +--ro upper-non-critical?  decimal64
| +--ro threshold?          decimal64
| +--ro units?              string
| +--ro event-type?          ipi-platform-types:cmm_bmc_event_type_t
+---n bmc-upper-critical-low-threshold-notification {feature-list:NOT_HAVE_TIBIT}?
| +--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 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 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 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 name?                string
| +--ro operational-status?  string
+---n cpu-load-15min-alert
| +--ro name?                string
| +--ro cpu-15min-load-percentage? decimal64
| +--ro cpu-15min-alert-threshold? uint8
+---n cpu-load-15min-alert-recovery
| +--ro name?                string
| +--ro cpu-15min-load-percentage? decimal64
| +--ro cpu-15min-alert-threshold? uint8
+---n cpu-load-5min-alert
| +--ro name?                string
| +--ro cpu-5min-load-percentage? decimal64
| +--ro cpu-5min-alert-threshold? uint8
+---n cpu-load-5min-alert-recovery
```

```

| ---ro name?                string
| ---ro cpu-5min-load-percentage? decimal64
| ---ro cpu-5min-alert-threshold? uint8
+---n cpu-load-1min-critical
| ---ro name?                string
| ---ro cpu-1min-load-percentage? decimal64
| ---ro cpu-1min-critical-threshold? uint8
+---n cpu-load-1min-critical-recovery
| ---ro name?                string
| ---ro cpu-1min-load-percentage? decimal64
| ---ro cpu-1min-critical-threshold? uint8
+---n cpu-load-1min-alert
| ---ro name?                string
| ---ro cpu-1min-load-percentage? decimal64
| ---ro cpu-1min-alert-threshold? uint8
+---n cpu-load-1min-alert-recovery
| ---ro name?                string
| ---ro cpu-1min-load-percentage? decimal64
| ---ro cpu-1min-alert-threshold? uint8
+---n storage-usage-rising-alert
| ---ro name?                string
| ---ro used-memory?         uint64
| ---ro usage-alert-threshold? int32
| ---ro mount-point?        string
+---n storage-usage-critical-alert
| ---ro name?                string
| ---ro used-memory?         uint64
| ---ro usage-critical-threshold? int32
| ---ro mount-point?        string
+---n storage-usage-recovery-from-alert-level
| ---ro name?                string
| ---ro used-memory?         uint64
| ---ro usage-alert-threshold? int32
| ---ro mount-point?        string
+---n storage-usage-recovery-from-critical-level
| ---ro name?                string
| ---ro used-memory?         uint64
| ---ro usage-critical-threshold? int32
| ---ro mount-point?        string
+---n storage-remaining-life-rising-alert
| ---ro name?                string
| ---ro remaining-life?      int32
| ---ro remain-life-alert-threshold? int32
+---n storage-remaining-life-rising-critical
| ---ro name?                string
| ---ro remaining-life?      int32
| ---ro remain-life-critical-threshold? int32
+---n storage-available-reserved-space-rising-alert
| ---ro name?                string
| ---ro available-reserved-space? int32

```

```
| +--ro available-reserved-space-alert-threshold?  int32
+---n storage-available-reserved-space-rising-critical
| +--ro name?                                     string
| +--ro available-reserved-space?                 int32
| +--ro available-reserved-space-critical-threshold?  int32
+---n storage-reallocated-sector-count-rising-alert
| +--ro name?                                     string
| +--ro reallocated-sector-count?                 int32
+---n storage-uncorrectable-sector-count-rising-critical
| +--ro name?                                     string
| +--ro uncorrectable-sector-count?               int32
+---n storage-harddisk-monitoring-read-alert
| +--ro name?                                     string
| +--ro read-average?                             int32
| +--ro read-threshold?                           int32
+---n storage-harddisk-recovery-from-read-alert-level
| +--ro name?                                     string
| +--ro read-average?                             int32
| +--ro read-threshold?                           int32
+---n storage-harddisk-monitoring-write-alert
| +--ro name?                                     string
| +--ro write-average?                             int32
| +--ro write-threshold?                           int32
+---n storage-harddisk-recovery-from-write-alert-level
| +--ro name?                                     string
| +--ro write-average?                             int32
| +--ro write-threshold?                           int32
+---n storage-storage-status-alert
| +--ro name?                                     string
| +--ro storage-status?  ipi-platform-types:cml_cmm_storage_status_t
+---n storage-storage-status-critical
| +--ro name?                                     string
| +--ro storage-status?  ipi-platform-types:cml_cmm_storage_status_t
+---n ram-usage-rising-critical
| +--ro name?                                     string
| +--ro used-memory?                               uint64
| +--ro usage-critical-threshold?                 uint32
+---n ram-usage-rising-alert
| +--ro name?                                     string
| +--ro used-memory?                               uint64
| +--ro usage-alert-threshold?                     uint32
+---n ram-usage-recovery-from-critical-level
| +--ro name?                                     string
| +--ro used-memory?                               uint64
| +--ro usage-critical-threshold?                 uint32
+---n ram-usage-recovery-from-alert-level
| +--ro name?                                     string
| +--ro used-memory?                               uint64
| +--ro usage-alert-threshold?                     uint32
+---n transceiver-inserted {feature-list:NOT_HAVE_TIBIT}?
```

```

| +--ro name?                string
| +--ro port-no?            uint8
| +--ro type?               ipi-platform-transceiver-types:dmm_cmm_trans_type_t
| +--ro vendor-name?       string
| +--ro vendor-serial-number? string
| +--ro connector-type?     ipi-platform-transceiver-
types:dmm_cmm_trans_connector_type_t
+---n transceiver-removed {feature-list:NOT_HAVE_TIBIT}?
| +--ro name?                string
| +--ro port-no?            uint8
| +--ro type?               ipi-platform-transceiver-types:dmm_cmm_trans_type_t
| +--ro vendor-name?       string
| +--ro vendor-serial-number? string
| +--ro connector-type?     ipi-platform-transceiver-
types:dmm_cmm_trans_connector_type_t
+---n faulty-transceiver-inserted {feature-list:NOT_HAVE_TIBIT}?
| +--ro name?                string
| +--ro port-no?            uint8
| +--ro type?               ipi-platform-transceiver-types:dmm_cmm_trans_type_t
+---n incompatible-transceiver-inserted {feature-list:NOT_HAVE_TIBIT}?
| +--ro name?                string
| +--ro port-no?            uint8
+---n incompatible-transceiver-removed {feature-list:NOT_HAVE_TIBIT}?
| +--ro name?                string
| +--ro port-no?            uint8
+---n frequency-error-high-critical {feature-list:NOT_HAVE_TIBIT}?
| +--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 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 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 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 name?                string
| +--ro frequency-error?     decimal64
+---n wavelength-error-high-critical {feature-list:NOT_HAVE_TIBIT}?
| +--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 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 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 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 name? string
| +--ro wavelength-error? decimal64
+---n thermoelectric-cooler-fault-alert {feature-list:NOT_HAVE_TIBIT}?
| +--ro name? string
| +--ro thermoelectric-cooler-fault? boolean
+---n thermoelectric-cooler-fault-recovery {feature-list:NOT_HAVE_TIBIT}?
| +--ro name? string
| +--ro thermoelectric-cooler-fault? boolean
+---n rx-loss-of-signal {feature-list:NOT_HAVE_TIBIT}?
| +--ro index? uint8
| +--ro name? string
+---n rx-loss-of-signal-recovery {feature-list:NOT_HAVE_TIBIT}?
| +--ro index? uint8
| +--ro name? string
+---n temperature-high
| +--ro name? string
| +--ro alarm-status? boolean
| +--ro alarm-threshold? decimal64
| +--ro instant? decimal64
+---n temperature-low
| +--ro name? string
| +--ro alarm-status? boolean
| +--ro alarm-threshold? decimal64
| +--ro instant? decimal64
+---n power-supply-inserted
| +--ro name? string
+---n power-supply-removed
| +--ro name? string
+---n power-supply-ac-failed
| +--ro name? string
+---n power-supply-ac-recovery
| +--ro name? string
```

```
+---n power-supply-12v-failed
| +--ro name?    string
+---n power-supply-12v-recovery
| +--ro name?    string
+---n psu-vin-low-alert
| +--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 name?                string
| +--ro input-voltage?       decimal64
| +--ro vin-alert-threshold-min? decimal64
| +--ro vin-alert-threshold-max? decimal64
+---n psu-vin-low-critical
| +--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 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 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 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 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 name?                string
| +--ro input-voltage?       decimal64
| +--ro vin-critical-threshold-min? decimal64
| +--ro vin-critical-threshold-max? decimal64
+---n psu-vout-low-alert
| +--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 name?                string
| +--ro output-voltage?     decimal64
| +--ro vout-alert-threshold-min? decimal64
| +--ro vout-alert-threshold-max? decimal64
+---n psu-vout-low-critical
| +--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 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 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 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 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 name?                string
| +--ro output-voltage?     decimal64
| +--ro vout-critical-threshold-min? decimal64
| +--ro vout-critical-threshold-max? decimal64
+---n psu-pin-low-alert
| +--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 name?                string
| +--ro input-power?        decimal64
| +--ro pin-alert-threshold-min? decimal64
| +--ro pin-alert-threshold-max? decimal64
+---n psu-pin-low-critical
| +--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 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 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 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 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 name?                string
| ---ro input-power?         decimal64
| ---ro pin-critical-threshold-min? decimal64
| ---ro pin-critical-threshold-max? decimal64
+---n psu-pout-low-alert
| ---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 name?                string
| ---ro power-consumption?    decimal64
| ---ro pout-alert-threshold-min? decimal64
| ---ro pout-alert-threshold-max? decimal64
+---n psu-pout-low-critical
| ---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 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 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 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 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 name?                string
| +--ro power-consumption?   decimal64
| +--ro pout-critical-threshold-min? decimal64
| +--ro pout-critical-threshold-max? decimal64
+---n psu-iout-low-alert
| +--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 name?                string
| +--ro output-current?      decimal64
| +--ro iout-alert-threshold-min? decimal64
| +--ro iout-alert-threshold-max? decimal64
+---n psu-iout-low-critical
| +--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 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 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 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 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 name?                string
| ---ro output-current?      decimal64
| ---ro iout-critical-threshold-min? decimal64
| ---ro iout-critical-threshold-max? decimal64
+---n psu-iin-low-alert
| ---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 name?                string
| ---ro input-current?       decimal64
| ---ro iin-alert-threshold-min? decimal64
| ---ro iin-alert-threshold-max? decimal64
+---n psu-iin-low-critical
| ---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 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 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 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 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 name?                string
| ---ro input-current?       decimal64
| ---ro iin-critical-threshold-min? decimal64
| ---ro iin-critical-threshold-max? decimal64
+---n psu-temp1-low-alert
| ---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 name?                string
| +--ro temperature-sensor1?  decimal64
| +--ro temp1-alert-threshold-min?  decimal64
| +--ro temp1-alert-threshold-max?  decimal64
+---n psu-temp1-low-critical
| +--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 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 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 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 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 name?                string
| +--ro temperature-sensor1?  decimal64
| +--ro temp1-critical-threshold-min?  decimal64
| +--ro temp1-critical-threshold-max?  decimal64
+---n psu-temp2-low-alert
| +--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 name?                string
| +--ro temperature-sensor2?  decimal64
| +--ro temp2-alert-threshold-min?  decimal64
| +--ro temp2-alert-threshold-max?  decimal64
+---n psu-temp2-low-critical
| +--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 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 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 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 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 name?                string
| ---ro temperature-sensor2?  decimal64
| ---ro temp2-critical-threshold-min?  decimal64
| ---ro temp2-critical-threshold-max?  decimal64
+---n psu-temp3-low-alert
| ---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 name?                string
| ---ro temperature-sensor3?  decimal64
| ---ro temp3-alert-threshold-min?  decimal64
| ---ro temp3-alert-threshold-max?  decimal64
+---n psu-temp3-low-critical
| ---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 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 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 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 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 name? string
| +--ro temperature-sensor3? decimal64
| +--ro temp3-critical-threshold-min? decimal64
| +--ro temp3-critical-threshold-max? decimal64
+---n fan-status-alarm
| +--ro name? string
| +--ro fan-index? uint8
| +--ro fan-status? cml_cmm_fan_status_t
+---n fan-status-alarm-recovery
| +--ro name? string
| +--ro fan-index? uint8
| +--ro fan-status? cml_cmm_fan_status_t
+---n fan-rpm-min-notify
| +--ro name? string
| +--ro minimum-rpm? uint32
+---n fan-rpm-max-alert
| +--ro name? string
| +--ro maximum-rpm? uint32
+---n fan-rpm-decreased-notify
| +--ro name? string
| +--ro rpm? uint32
+---n fan-rpm-increased-notify
| +--ro name? string
| +--ro rpm? uint32
+---n fan-tray-inserted
| +--ro name? string
+---n fan-tray-removed
| +--ro name? string
+---n hardware-tcam-util-warning-notification
| +--ro group-id? uint32
| +--ro group-name? cml-data-types:cml_line_t
| +--ro used-percentage? int32
| +--ro free-entries? int32
+---n hardware-tcam-util-critical-notification
| +--ro group-id? uint32
| +--ro group-name? cml-data-types:cml_line_t
| +--ro used-percentage? int32
| +--ro free-entries? int32
+---n platform-interface-load-balance-update {feature-list:NOT_HAVE_DUNE}?
| +--ro name? string
```



```

| +--ro type?   ipi-platform-types:platform_lacp_psc_t
+---n loss-of-input-clock
| +--ro name?           string
| +--ro loss-of-input-clock-status?  uint8
+---n usb-over-current
  +--ro name?           string
  +--ro usb-over-current-status?     uint8

```

module: ipi-port-breakout

```

+--rw port-breakout
  +--rw breakouts
  | +--rw breakout* [port-number]
  |   +--rw port-number   -> ../config/port-number
  |   +--rw config
  |   | +--rw port-number?  uint8
  |   | +--rw mode          ipi-port-breakout-types:port_breakout_mode_t
  |   +--ro state
  |     +--ro port-number?  uint8
  |     +--ro mode          ipi-port-breakout-types:port_breakout_mode_t
  |     +--ro block?       uint8
+--rw groups-speed
  | +--rw group-speed* [port-group] {feature-list:NOT_HAVE_DUNE}?
  |   +--rw port-group   -> ../config/port-group
  |   +--rw config
  |   | +--rw port-group?  uint8
  |   | +--rw speed        ipi-port-breakout-types:port_breakout_group_speed_t
  |   +--ro state
  |     +--ro port-group?  uint8
  |     +--ro speed        ipi-port-breakout-types:port_breakout_group_speed_t
  |     +--ro ports*      uint8
+--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

```

module: 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 enabled?    empty
    |     | +--rw description? cml-data-types:cml_line_t
    |     | +--rw source-vlan? cml-data-types:cml_range_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 enabled?              empty
    |         | +--ro description?          cml-data-types:cml_line_t
    |         | +--ro source-vlan?          cml-data-types:cml_range_t
    |         +--rw destination
    |           | +--rw local
    |             | | +--rw config
    |             | | | +--rw interface-name?  string
    |             | | | +--ro state
    |             | | |   +--ro interface-name?  string
    |             | +--rw remote
    |             |   +--rw config!
    |             |     | +--rw vlan-id          uint16
    |             |     | +--rw reflector-interface-name  -> /ipi-interface:interfaces/
    |             |     +--ro state
    |             |       +--ro vlan-id          uint16
    |             |       +--ro reflector-interface-name  -> /ipi-interface:interfaces/
    |             +--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* [seq-id]
    |                   +--rw seq-id        -> ../config/seq-id
    |                   +--rw config
    |                     | +--rw seq-id?      uint32

```

```

|          +---ro state
|          | +---ro seq-id?   uint32
|          +---rw filters
|              +---rw config
|                  +---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
|                      | +---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?                            uint16
|                      | +---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
|                      +---ro state
|                      +---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
|                      | +---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?                             uint16
|           +--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
+--rw interfaces

```

module: 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 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 ingress-filter?                  cml-data-types:cml_enable_disable_t {feature-
list:NOT_HAVE_DUNE}?
        | | +--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 ingress-filter?          cml-data-types:cml_enable_disable_t {feature-
list:NOT_HAVE_DUNE}?
| | +--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
| |     | +--rw svlan-cos?           uint8 {feature-list:NOT_HAVE_DUNE,feature-
list:NOT_HAVE_POND}?
| |     | +--rw svlan-cfi?           uint8 {feature-list:NOT_HAVE_DUNE,feature-
list:NOT_HAVE_POND}?
| |     | +--rw cvlan-cos?           uint8 {feature-list:NOT_HAVE_DUNE,feature-
list:NOT_HAVE_POND}?
| |     | +--rw cvlan-cfi?           uint8 {feature-list:NOT_HAVE_DUNE,feature-
list:NOT_HAVE_POND}?
| |     | +--ro state
| |     |   +--ro translated-svlan-id?  uint16
| |     |   +--ro original-svlan-id?   uint16
| |     |   +--ro translated-cvlan-id?  uint16
| |     |   +--ro svlan-cos?           uint8 {feature-list:NOT_HAVE_DUNE,feature-
list:NOT_HAVE_POND}?
| |     |   +--ro svlan-cfi?           uint8 {feature-list:NOT_HAVE_DUNE,feature-
list:NOT_HAVE_POND}?
| |     |   +--ro cvlan-cos?           uint8 {feature-list:NOT_HAVE_DUNE,feature-
list:NOT_HAVE_POND}?
| |     |   +--ro cvlan-cfi?           uint8 {feature-list:NOT_HAVE_DUNE,feature-
list:NOT_HAVE_POND}?
| |     +--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
|         |   +---rw svlan-cos?        uint8 {feature-list:NOT_HAVE_DUNE,feature-
list:NOT_HAVE_POND}?
|         |   +---rw svlan-cfi?        uint8 {feature-list:NOT_HAVE_DUNE,feature-
list:NOT_HAVE_POND}?
|         |   +---rw cvlan-cos?        uint8 {feature-list:NOT_HAVE_DUNE,feature-
list:NOT_HAVE_POND}?
|         |   +---rw cvlan-cfi?        uint8 {feature-list:NOT_HAVE_DUNE,feature-
list:NOT_HAVE_POND}?
|         |   +---ro state
|         |   |   +---ro cvlan-id?      uint16
|         |   |   +---ro svlan-id?     uint16
|         |   |   +---ro translated-cvlan-id? uint16
|         |   |   +---ro translated-svlan-id uint16
|         |   |   +---ro svlan-cos?    uint8 {feature-list:NOT_HAVE_DUNE,feature-
list:NOT_HAVE_POND}?
|         |   |   +---ro svlan-cfi?    uint8 {feature-list:NOT_HAVE_DUNE,feature-
list:NOT_HAVE_POND}?
|         |   |   +---ro cvlan-cos?    uint8 {feature-list:NOT_HAVE_DUNE,feature-
list:NOT_HAVE_POND}?
|         |   |   +---ro cvlan-cfi?    uint8 {feature-list:NOT_HAVE_DUNE,feature-
list:NOT_HAVE_POND}?
+---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-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-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-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 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

augment /ipi-network-instance:network-instances/ipi-network-instance:network-
instance/ipi-bridge:bridge:
  +---rw vlan-static-fdb
  +---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
  +---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

```

module: 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-
              | +--rw action?          ipi-prefix-list-

```



```

        | +--rw minimum-prefix-length-match?   uint8
        | +--rw maximum-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

rpcs:
  +---x clear-prefix-list-all
  | +---w input
  |   +---w type      ipi-prefix-list-types:prefix_list_type_t
  +---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

```

module: ipi-ptp

```

+--rw ptp {feature-list:HAVE_PTP_HW_OFFLOAD}?
  +--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 debug
  +--rw config
  | +--rw enable?   empty
  +--ro state
    +--ro enable?          empty
    +--ro terminal-debug-status?  cml-data-types:cml_on_off_t

```

module: 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
+--ro state
| +--ro name?          -> /ipi-interface:interfaces/interface/name
| +--ro untagged-priority? uint8
| +--ro trust-dscp?    empty
+--rw remark
| +--rw config
| | +--rw cos?        ipi-qos-types:cml_remark_state_t
| | +--rw dei?        ipi-qos-types:cml_remark_state_t {feature-
list:NOT_HAVE_CUSTOM2_QOS}?
| | +--rw dscp?       ipi-qos-types:cml_remark_state_t
| +--ro state
|   +--ro cos?        ipi-qos-types:cml_remark_state_t
|   +--ro dei?        ipi-qos-types:cml_remark_state_t {feature-
list:NOT_HAVE_CUSTOM2_QOS}?
|   +--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
| | +--rw burst-rate    uint64 {feature-list:NOT_HAVE_CUSTOM2_QOS}?
| +--ro state
|   +--ro rate          uint64
|   +--ro rate-unit     ipi-qos-types:qos_shape_rate_unit_t
|   +--ro burst-rate    uint64 {feature-list:NOT_HAVE_CUSTOM2_QOS}?
+--rw map-profile {feature-list:HAVE_QOS_MAPPING_PROFILE}?
| +--rw config
| | +--rw cos-to-queue?  string
| | +--rw dscp-to-queue? string
| | +--rw precedence-to-queue? string
| | +--rw queue-color-to-cos? string
| | +--rw queue-color-to-dscp? string {feature-list:HAVE_CUSTOM1_QOS}?
| | +--rw queue-to-precedence? string {feature-list:HAVE_CUSTOM1_QOS}?
| +--ro state
|   +--ro cos-to-queue?  string
|   +--ro dscp-to-queue? string
|   +--ro precedence-to-queue? string
|   +--ro queue-color-to-cos? string
|   +--ro queue-color-to-dscp? string {feature-list:HAVE_CUSTOM1_QOS}?
|   +--ro queue-to-precedence? string {feature-list:HAVE_CUSTOM1_QOS}?
+--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]
name-level-3
|                 +--ro class-map-name-level-3    -> ../state/class-map-
|                   +--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}?
    | +--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}?
    | +--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 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 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?
    +--ro rate-kbps?          decimal64
    +--ro rate-mbps?         decimal64
    +--ro rate-gbps?         decimal64

notifications:
  +---n qos-subinterface-default-policy-add-notification
  | +--ro message?  string
  +---n qos-subinterface-default-policy-delete-notification
  | +--ro message?  string
  +---n qos-subinterface-traffic-shape-add-notification
  | +--ro message?  string
  +---n qos-subinterface-traffic-shape-delete-notification
  +--ro message?  string

```

module: ipi-qos

```

+--rw qos
  +--rw global
    +--rw config
      | +--rw enable-qos?          empty
      | +--rw statistics-enabled? empty
      | +--rw block-size?         uint8 {feature-list:HAVE_FLEXPOR,feature-
list:HAVE_CUSTOM1_QOS}?
    +--ro state
      | +--ro enable-qos?          empty
      | +--ro statistics-enabled? empty
      | +--ro block-size?         uint8 {feature-list:HAVE_FLEXPOR,feature-
list:HAVE_CUSTOM1_QOS}?
    +--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-dei-to-queues {feature-list:NOT_HAVE_CUSTOM2_QOS}?
| |       +--rw cos-dei-to-queue* [cos-value dei-value]
| |         +--rw cos-value   -> ../config/cos-value
| |         +--rw dei-value   -> ../config/dei-value
| |         +--rw config
| |           | +--rw cos-value?  uint8
| |           | +--rw dei-value?  ipi-qos-types:qos_dei_t
| |           | +--rw queue-id    uint8
| |           | +--rw color?     ipi-qos-types:qos_color_t
| |           +--ro state
| |             +--ro cos-value?  uint8
| |             +--ro dei-value?  ipi-qos-types:qos_dei_t
| |             +--ro queue-id    uint8
| |             +--ro color?     ipi-qos-types:qos_color_t
| +--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
| |           +--ro state
| |             +--ro dscp-value?  uint8
| |             +--ro queue-id    uint8
| |             +--ro color?     ipi-qos-types:qos_color_t
| +--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 queue-to-precedence-profiles
| |   +---rw queue-to-precedence-profile* [name]
| |     +---rw name                      -> ../config/name
| |     +---rw config
| |         |   +---rw name?      string
| |     +---ro state
| |         |   +---ro name?      string
| |     +---rw queue-to-precedences
| |         +---rw queue-to-precedence* [queue-id]
| |             +---rw queue-id      -> ../config/queue-id
| |             +---rw config
| |                 |   +---rw queue-id?          uint8
| |                 |   +---rw precedence-value    uint8
| |             +---ro state
| |                 +---ro queue-id?          uint8
| |                 +---ro precedence-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
| |             +---ro state
| |                 +---ro precedence-value?    uint8
| |                 +---ro queue-id          uint8
| +---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 remark
|   +---rw config
|   |   +---rw cos?      empty
|   |   +---rw dei?     empty {feature-list:NOT_HAVE_CUSTOM2_QOS}?
|   |   +---rw dscp?    empty
|   +---ro state
|   |   +---ro cos?     empty
|   |   +---ro dei?     empty {feature-list:NOT_HAVE_CUSTOM2_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]
|   |   +---rw name          -> ../config/name
|   |   +---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 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 dscp?                 cml-data-types:cml_range_t
|   |   |   |   +---rw precedence?           cml-data-types:cml_range_t
|   |   |   |   +---rw packet-protocol*      ipi-qos-types:qos_proto_type_t
{feature-list:HAVE_CUSTOM1_QOS}?

```



```

| | | +--rw source-mac* ipi-qos-types:qos_mac_address_t
{feature-list:HAVE_CUSTOM1_QOS}?
| | | +--rw destination-mac* ipi-qos-types:qos_mac_address_t
{feature-list:HAVE_CUSTOM1_QOS}?
| | | +--ro state
| | | +--ro access-control-list-name? 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 dscp? cml-data-types:cml_range_t
| | | +--ro precedence? cml-data-types:cml_range_t
| | | +--ro packet-protocol* ipi-qos-types:qos_proto_type_t
{feature-list:HAVE_CUSTOM1_QOS}?
| | | +--ro source-mac* ipi-qos-types:qos_mac_address_t
{feature-list:HAVE_CUSTOM1_QOS}?
| | | +--ro destination-mac* ipi-qos-types:qos_mac_address_t
{feature-list:HAVE_CUSTOM1_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 match-all-conditions
| | +--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? uint16
| | | +--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? uint16
| | +--rw config
| | | +--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?                 uint32
|         | +--rw dscp-all?               string
|         | +--rw precedence-all?        string
|         | +--rw packet-protocol-all?   ipi-qos-types:qos_proto_type_t {feature-
list:HAVE_CUSTOM1_QOS}?
|         | +--rw source-mac-all?        ipi-qos-types:qos_mac_address_t
{feature-list:HAVE_CUSTOM1_QOS}?
|         | +--rw destination-mac-all?   ipi-qos-types:qos_mac_address_t
{feature-list:HAVE_CUSTOM1_QOS}?
|         +--ro state
|         +--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?                 uint32
|         +--ro dscp-all?               string
|         +--ro precedence-all?        string
|         +--ro packet-protocol-all?   ipi-qos-types:qos_proto_type_t {feature-
list:HAVE_CUSTOM1_QOS}?
|         +--ro source-mac-all?        ipi-qos-types:qos_mac_address_t
{feature-list:HAVE_CUSTOM1_QOS}?
|         +--ro destination-mac-all?   ipi-qos-types:qos_mac_address_t
{feature-list:HAVE_CUSTOM1_QOS}?
+--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
|         | +--rw cos?               cml-data-types:cml_range_t {feature-
list:HAVE_CUSTOM1_QOS}?
|         | +--rw qos-group?         uint32 {feature-list:HAVE_CUSTOM1_QOS}?
|         +--ro state
|           +--ro vlan-queue?         uint16
|           +--ro cos?               cml-data-types:cml_range_t {feature-
list:HAVE_CUSTOM1_QOS}?
|         +--ro qos-group?           uint32 {feature-list:HAVE_CUSTOM1_QOS}?
+--rw policy-maps
| +--rw policy-map* [policy-map-name]
|   +--rw policy-map-name             -> ../config/policy-map-name
|   +--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 type                    ipi-qos-types:qos_policy_map_t
policy-map/policy-map-name
|                  | +--rw child-service-policy-name? -> /qos/global/policy-maps/
|                  | +--rw reference-description?    cml-data-types:cml_line_t
|                  +--ro state
|                  | +--ro class-map-name?          ipi-qos-
types:qos_policy_map_class_t
|                  | +--ro type                    ipi-qos-types:qos_policy_map_t
policy-map/policy-map-name
|                  | +--ro child-service-policy-name? -> /qos/global/policy-maps/
|                  | +--ro reference-description?    cml-data-types:cml_line_t
|                  +--rw queue-mode
|                  | +--rw config
|                  | | +--rw weighted-round-robin-queue-weight?  uint8 {feature-
list:NOT_HAVE_CUSTOM2_QOS}?
|                  | | +--rw strict-priority-enabled?            empty {feature-
list:NOT_HAVE_CUSTOM2_QOS}?
|                  | +--ro state
|                  | | +--ro weighted-round-robin-queue-weight?  uint8 {feature-
list:NOT_HAVE_CUSTOM2_QOS}?
|                  | | +--ro strict-priority-enabled?            empty {feature-
list:NOT_HAVE_CUSTOM2_QOS}?
|                  | +--rw red
|                  | | +--rw config
|                  | | | +--rw weight?    uint8
|                  | | +--ro state
|                  | | | +--ro weight?    uint8
|                  | | +--rw wred {feature-list:HAVE_CUSTOM1_QOS}?
|                  | | | +--rw config
|                  | | | | +--rw min-threshold                uint32
|                  | | | | +--rw threshold-unit              ipi-qos-
types:qos_threshold_t
|                  | | | | +--rw max-threshold                uint32
|                  | | | | +--rw drop-probability?            uint8
|                  | | | | +--rw min-threshold-yellow?        uint32
|                  | | | | +--rw max-threshold-yellow?        uint32
|                  | | | | +--rw drop-probability-yellow?      uint8
|                  | | | | +--rw min-threshold-red?            uint32
|                  | | | | +--rw max-threshold-red?            uint32
|                  | | | | +--rw drop-probability-red?         uint8

```

```

| | | | +--rw explicit-congestion-notification? empty
| | | | +--ro state
| | | |   +--ro min-threshold uint32
types:qos_threshold_t | | | |   +--ro threshold-unit ipi-qos-
| | | |   +--ro max-threshold uint32
| | | |   +--ro drop-probability? uint8
| | | |   +--ro min-threshold-yellow? uint32
| | | |   +--ro max-threshold-yellow? uint32
| | | |   +--ro drop-probability-yellow? uint8
| | | |   +--ro min-threshold-red? uint32
| | | |   +--ro max-threshold-red? uint32
| | | |   +--ro drop-probability-red? uint8
| | | |   +--ro explicit-congestion-notification? empty
| | | | +--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 bandwidths {feature-list:NOT_HAVE_CUSTOM2_QOS}?
| | | |     +--rw bandwidth* [rate-value rate-type]
| | | |       +--rw rate-value -> ../config/rate-value
| | | |       +--rw rate-type -> ../config/rate-type
| | | |       +--rw config
| | | |         | +--rw rate-value? uint32
| | | |         | +--rw rate-type? ipi-qos-
types:qos_shape_rate_unit_extended_t | | | |         +--ro state
| | | |         +--ro rate-value? uint32
| | | |         +--ro rate-type? ipi-qos-
types:qos_shape_rate_unit_extended_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 (set-option)?
| | | | +---:(port-action)
| | | | +---:(precedence)
| | | | | +--rw precedence-remark? string
| | | | +---:(bridge-precedence)
| | | | +---:(cos)
| | | | | +--rw cos-value? uint8
| | | | +---:(bridge-cos)
| | | | | +--rw cos-remark-only-bridged? uint8 {feature-
list:HAVE_CUSTOM1_QOS}?
| | | | +---:(dscp)
| | | | | +--rw dscp-value-remark? string
| | | | +---:(bridge-dscp)
| | | | | +--rw dscp-remark-only-bridged? string {feature-
list:HAVE_CUSTOM1_QOS}?
| | | | +---:(queue)
| | | | | +--rw queue-id? uint8
| | | | +---:(bridge-queue)
| | | | | +--rw queue-remark-only-bridged? uint8 {feature-
list:HAVE_CUSTOM1_QOS}?
| | | | +---:(qos-group)
| | | | | +--rw qos-group? uint16 {feature-
list:HAVE_CUSTOM1_QOS}?
| | | +--ro state
| | | | +--ro priority? uint16
| | | | +--ro (set-option)?
| | | | | +---:(port-action)
| | | | | +---:(precedence)
| | | | | | +--ro precedence-remark? string
| | | | | +---:(bridge-precedence)
| | | | | +---:(cos)
| | | | | | +--ro cos-value? uint8
| | | | | +---:(bridge-cos)
| | | | | | +--ro cos-remark-only-bridged? uint8 {feature-
list:HAVE_CUSTOM1_QOS}?
| | | | | +---:(dscp)
| | | | | | +--ro dscp-value-remark? string
| | | | | +---:(bridge-dscp)
| | | | | | +--ro dscp-remark-only-bridged? string {feature-
list:HAVE_CUSTOM1_QOS}?
| | | | | +---:(queue)
| | | | | | +--ro queue-id? uint8
| | | | | +---:(bridge-queue)
| | | | | | +--ro queue-remark-only-bridged? uint8 {feature-
list:HAVE_CUSTOM1_QOS}?
| | | | | +---:(qos-group)
| | | | | | +--ro qos-group? uint16 {feature-
list:HAVE_CUSTOM1_QOS}?
| | | +--rw police
| | | | +--rw config
| | | | | +--rw 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
list:HAVE_CUSTOM1_QOS}? | +--rw pir? | uint64 {feature-
| | | | +--rw pir-unit? | ipi-qos-types:qos_rate_unit_t
{feature-list:HAVE_CUSTOM1_QOS}?
| | | | +--rw be? | uint32
| | | | +--rw be-unit? | ipi-qos-
types:qos_burst_rate_unit_t
| | | | +--rw set-conform-action? | ipi-qos-
types:qos_conform_action_t {feature-list:HAVE_CUSTOM1_QOS}?
list:HAVE_CUSTOM1_QOS}? | +--rw conform-cos? | uint8 {feature-
| | | | +--rw conform-dscp? | uint8 {feature-
list:HAVE_CUSTOM1_QOS}?
| | | | +--rw conform-precedence? | uint8 {feature-
list:HAVE_CUSTOM1_QOS}?
| | | | +--rw set-exceed-action? | ipi-qos-types:qos_exceed_action_t
{feature-list:HAVE_CUSTOM1_QOS}?
list:HAVE_CUSTOM1_QOS}? | +--rw exceed-cos? | uint8 {feature-
| | | | +--rw exceed-dscp? | uint8 {feature-
list:HAVE_CUSTOM1_QOS}?
| | | | +--rw set-violate-action? | ipi-qos-
types:qos_violate_action_t {feature-list:HAVE_CUSTOM1_QOS}?
list:HAVE_CUSTOM1_QOS}? | +--rw violate-cos? | uint8 {feature-
| | | | +--rw violate-dscp? | uint8 {feature-
list:HAVE_CUSTOM1_QOS}?
| | | | +--ro state
| | | | +--ro 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
list:HAVE_CUSTOM1_QOS}? +--ro pir? | uint64 {feature-
| | | | +--ro pir-unit? | ipi-qos-types:qos_rate_unit_t
{feature-list:HAVE_CUSTOM1_QOS}?
| | | | +--ro be? | uint32
| | | | +--ro be-unit? | ipi-qos-
types:qos_burst_rate_unit_t
| | | | +--ro set-conform-action? | ipi-qos-
types:qos_conform_action_t {feature-list:HAVE_CUSTOM1_QOS}?
list:HAVE_CUSTOM1_QOS}? +--ro conform-cos? | uint8 {feature-
| | | | +--ro conform-dscp? | uint8 {feature-
list:HAVE_CUSTOM1_QOS}?
| | | | +--ro conform-precedence? | uint8 {feature-
list:HAVE_CUSTOM1_QOS}?
| | | | +--ro set-exceed-action? | ipi-qos-types:qos_exceed_action_t
{feature-list:HAVE_CUSTOM1_QOS}?

```

```

|
list:HAVE_CUSTOM1_QOS}?      +---ro exceed-cos?          uint8 {feature-
|
list:HAVE_CUSTOM1_QOS}?      +---ro exceed-dscp?         uint8 {feature-
|
types:qos_violate_action_t {feature-list:HAVE_CUSTOM1_QOS}? +---ro set-violate-action?  ipi-qos-
|
list:HAVE_CUSTOM1_QOS}?      +---ro violate-cos?         uint8 {feature-
|
list:HAVE_CUSTOM1_QOS}?      +---ro violate-dscp?        uint8 {feature-
+---rw scheduler-mode {feature-list:HAVE_CUSTOM1_QOS}?
+---rw weighted-round-robins
weight] | +---rw weighted-round-robin* [unicast-queue-weight non-unicast-queue-
| +---rw unicast-queue-weight      -> ../config/unicast-queue-weight
| +---rw non-unicast-queue-weight  -> ../config/non-unicast-queue-weight
| +---rw config
| | +---rw unicast-queue-weight?   uint8
| | +---rw non-unicast-queue-weight? uint8
| +---ro state
| +---ro unicast-queue-weight?     uint8
| +---ro non-unicast-queue-weight? uint8
+---rw strict-priority
+---rw config
| +---rw enabled?   empty
+---ro state
+---ro enabled?   empty

rpcs:
+---x qos-clear-statistics {feature-list:HAVE_QOS}?
+---w input
+---w interface-name?  string
+---w type?            ipi-qos-types:qos_clear_stats_t

```

module: 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}?

```

module: 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-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}?

```

module: ipi-rib-vrf

```

augment /ipi-network-instance:network-instances/ipi-network-instance:network-
instance/ipi-vrf:vrf:
  +--rw global
  | +--rw config
  | +--ro state
  augment /ipi-network-instance:network-instances/ipi-network-instance:network-
instance/ipi-vrf:vrf:
    +--rw static-routes
    | +--rw ipv4
    | | +--rw gateway-interface-route-global* [destination-prefix interface-name
enable-global-table-lookup]
    | | | +--rw destination-prefix          -> ../config/destination-prefix
    | | | +--rw interface-name              -> /ipi-interface:interfaces/interface/
name
    | | | +--rw enable-global-table-lookup  -> ../config/enable-global-table-lookup
    | | | +--rw config
    | | | | +--rw destination-prefix?       cml-data-types:cml_ipv4_prefix_t
    | | | | +--rw enable-global-table-lookup? empty
    | | | +--ro state
    | | |   +--ro destination-prefix?       cml-data-types:cml_ipv4_prefix_t
    | | |   +--ro enable-global-table-lookup? empty
    | +--rw route* [destination-prefix gateway-address]
    | | +--rw destination-prefix          -> ../config/destination-prefix
    | | +--rw gateway-address             -> ../config/gateway-address
    | | +--rw gateway-interface-route* [interface-name]
    | | | +--rw interface-name            -> ../config/interface-name
    | | | +--rw config
    | | | | +--rw distance?                uint32

```

```

| | | | +--rw tag?                uint32
| | | | +--rw description?        cml-data-types:cml_line_t
| | | | +--rw interface-name?     -> /ipi-interface:interfaces/interface/name
| | |   +--ro state
| | |     +--ro distance?         uint32
| | |     +--ro tag?              uint32
| | |     +--ro description?      cml-data-types:cml_line_t
| | |     +--ro interface-name?   -> /ipi-interface:interfaces/interface/name
| | +--rw interface-route-global* [interface-name enable-global-table-lookup]
| | | +--rw interface-name         -> ../config/interface-name
lookup | | | +--rw enable-global-table-lookup -> ../config/enable-global-table-
| | | +--rw config
interface/name | | | +--rw interface-name?           -> /ipi-interface:interfaces/
| | | | +--rw enable-global-table-lookup?   empty
| | | | +--ro state
interface/name | | | +--ro interface-name?           -> /ipi-interface:interfaces/
| | | | +--ro enable-global-table-lookup?   empty
| | +--rw config
| | | +--rw destination-prefix?   cml-data-types:cml_ipv4_prefix_t
| | | +--rw gateway-address?     inet:ipv4-address
| | +--ro state
| | | +--ro destination-prefix?   cml-data-types:cml_ipv4_prefix_t
| | | +--ro gateway-address?     inet:ipv4-address
+--rw interface-route* [destination-prefix interface-name]
| | +--rw destination-prefix     -> ../config/destination-prefix
| | +--rw interface-name        -> ../config/interface-name
| | +--rw config
| | | +--rw destination-prefix?   cml-data-types:cml_ipv4_prefix_t
| | | +--rw interface-name?      string
| | | +--rw distance?            uint32
| | | +--rw tag?                 uint32
| | | +--rw description?         cml-data-types:cml_line_t
| | +--ro state
| | | +--ro destination-prefix?   cml-data-types:cml_ipv4_prefix_t
| | | +--ro interface-name?      string
| | | +--ro distance?            uint32
| | | +--ro tag?                 uint32
| | | +--ro description?         cml-data-types:cml_line_t
+--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 interface-route-global* [destination-prefix interface-name enable-ipv6-
global-table-lookup]
    | +---rw destination-prefix      -> ../config/destination-prefix
    | +---rw interface-name         -> /ipi-interface:interfaces/
interface/name
    | +---rw enable-ipv6-global-table-lookup -> ../config/enable-ipv6-global-
table-lookup
    | +---rw config
    | | +---rw destination-prefix?    cml-data-types:cml_ipv6_prefix_t
    | | +---rw interface-name?      string
    | | +---rw enable-ipv6-global-table-lookup? empty
    | +---ro state
    |   +---ro destination-prefix?   cml-data-types:cml_ipv6_prefix_t
    |   +---ro interface-name?      string
    |   +---ro enable-ipv6-global-table-lookup? empty
  +---rw gateway-interface-route-global* [destination-prefix gateway-address
interface-name enable-ipv6-global-table-lookup]
    | +---rw destination-prefix      -> ../config/destination-prefix
    | +---rw gateway-address         -> ../config/gateway-address
    | +---rw interface-name         -> /ipi-interface:interfaces/
interface/name
    | +---rw enable-ipv6-global-table-lookup -> ../config/enable-ipv6-global-
table-lookup
    | +---rw config
    | | +---rw destination-prefix?    cml-data-types:cml_ipv6_prefix_t
    | | +---rw gateway-address?      inet:ipv6-address
    | | +---rw interface-name?      string
    | | +---rw enable-ipv6-global-table-lookup? empty
    | +---ro state
    |   +---ro destination-prefix?   cml-data-types:cml_ipv6_prefix_t
    |   +---ro gateway-address?     inet:ipv6-address
    |   +---ro interface-name?      string
    |   +---ro enable-ipv6-global-table-lookup? empty
+---rw route* [destination-prefix gateway-address]
| +---rw destination-prefix      -> ../config/destination-prefix
| +---rw gateway-address        -> ../config/gateway-address
| +---rw out-interface* [interface-name]
| | +---rw interface-name      -> ../config/interface-name
| | +---rw config
| | | +---rw interface-name?   -> /ipi-interface:interfaces/interface/name
| | +---ro state
| |   +---ro interface-name?   -> /ipi-interface:interfaces/interface/name
| +---rw config
| | +---rw destination-prefix?   cml-data-types:cml_ipv6_prefix_t
| | +---rw gateway-address?     inet:ipv6-address
| | +---rw enable-ipv6-global-table-lookup? empty
| +---ro state
|   +---ro destination-prefix?   cml-data-types:cml_ipv6_prefix_t

```

```

|     +---ro gateway-address?                inet:ipv6-address
|     +---ro enable-ipv6-global-table-lookup? empty
+---rw interface-route* [destination-prefix interface-name]
|   +---rw destination-prefix    -> ../config/destination-prefix
|   +---rw interface-name        -> ../config/interface-name
|   +---rw config
|   |   +---rw destination-prefix?    cml-data-types:cml_ipv6_prefix_t
|   |   +---rw interface-name?        string
|   +---ro state
|     +---ro destination-prefix?    cml-data-types:cml_ipv6_prefix_t
|     +---ro interface-name?        string
+---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 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 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 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 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

```

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

```

module: 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
        | +---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
    +---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 route-vrf* [destination-prefix gateway-address interface-name]
|  |  |  +--rw destination-prefix  -> ../config/destination-prefix
|  |  |  +--rw gateway-address     -> ../config/gateway-address
|  |  |  +--rw interface-name      -> ../config/interface-name
|  |  |  +--rw config
|  |  |  |  +--rw destination-prefix? cml-data-types:cml_ipv4_prefix_t
|  |  |  |  +--rw gateway-address?   inet:ipv4-address
|  |  |  |  +--rw interface-name?   -> /ipi-interface:interfaces/interface/name
|  |  |  +--ro state
|  |  |  |  +--ro destination-prefix? cml-data-types:cml_ipv4_prefix_t
|  |  |  |  +--ro gateway-address?   inet:ipv4-address
|  |  |  |  +--ro interface-name?   -> /ipi-interface:interfaces/interface/name
|  |  +--rw route* [destination-prefix gateway-address]
|  |  |  +--rw destination-prefix  -> ../config/destination-prefix
|  |  |  +--rw gateway-address     -> ../config/gateway-address
|  |  |  +--rw config
|  |  |  |  +--rw destination-prefix? cml-data-types:cml_ipv4_prefix_t
|  |  |  |  +--rw gateway-address?   inet:ipv4-address
|  |  |  |  +--rw distance?         uint32
|  |  |  |  +--rw tag?              uint32
|  |  |  |  +--rw description?      cml-data-types:cml_line_t
|  |  |  +--ro state
|  |  |  |  +--ro destination-prefix? cml-data-types:cml_ipv4_prefix_t
|  |  |  |  +--ro gateway-address?   inet:ipv4-address
|  |  |  |  +--ro distance?         uint32
|  |  |  |  +--ro tag?              uint32
|  |  |  |  +--ro description?      cml-data-types:cml_line_t
|  |  +--rw interface-route* [destination-prefix interface-name]
|  |  |  +--rw destination-prefix  -> ../config/destination-prefix
|  |  |  +--rw interface-name      -> ../config/interface-name
|  |  |  +--rw config
|  |  |  |  +--rw destination-prefix? cml-data-types:cml_ipv4_prefix_t
|  |  |  |  +--rw interface-name?    string
|  |  |  |  +--rw distance?         uint32
|  |  |  |  +--rw tag?              uint32
|  |  |  |  +--rw description?      cml-data-types:cml_line_t

```

```

| | | +---ro state
| | |   +---ro destination-prefix?    cml-data-types:cml_ipv4_prefix_t
| | |   +---ro interface-name?       string
| | |   +---ro distance?             uint32
| | |   +---ro tag?                  uint32
| | |   +---ro description?          cml-data-types:cml_line_t
| | +---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 route* [destination-prefix gateway-address]
|     | +---rw destination-prefix  -> ../config/destination-prefix
|     | +---rw gateway-address     -> ../config/gateway-address
|     | +---rw config
|     |   | +---rw destination-prefix?  cml-data-types:cml_ipv6_prefix_t
|     |   | +---rw gateway-address?    inet:ipv6-address
|     |   | +---rw distance?          uint32
|     |   +---ro state
|     |     +---ro destination-prefix?  cml-data-types:cml_ipv6_prefix_t
|     |     +---ro gateway-address?    inet:ipv6-address
|     |     +---ro distance?          uint32
|   +---rw interface-route* [destination-prefix interface-name]
|     | +---rw destination-prefix  -> ../config/destination-prefix
|     | +---rw interface-name     -> ../config/interface-name
|     | +---rw config
|     |   | +---rw destination-prefix?  cml-data-types:cml_ipv6_prefix_t
|     |   | +---rw interface-name?    string
|     |   | +---rw distance?          uint32
|     |   +---ro state
|     |     +---ro destination-prefix?  cml-data-types:cml_ipv6_prefix_t
|     |     +---ro interface-name?    string
|     |     +---ro distance?          uint32
|   +---rw gateway-interface-route* [destination-prefix gateway-address interface-
name]
|     | +---rw destination-prefix  -> ../config/destination-prefix
|     | +---rw gateway-address     -> ../config/gateway-address
|     | +---rw interface-name     -> ../config/interface-name
|     | +---rw config
|     |   | +---rw destination-prefix?  cml-data-types:cml_ipv6_prefix_t
|     |   | +---rw gateway-address?    inet:ipv6-address
|     |   | +---rw interface-name?    -> /ipi-interface:interfaces/interface/name

```



```

|   | | +--rw distance?                uint32
|   | +--ro state
|   |   +--ro destination-prefix?    cml-data-types:cml_ipv6_prefix_t
|   |   +--ro gateway-address?      inet:ipv6-address
|   |   +--ro interface-name?       -> /ipi-interface:interfaces/interface/name
|   |   +--ro distance?             uint32
| +--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
+--rw interfaces

```

rpcs:

```

+---x rib-snmp-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

```

module: 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 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
    | +---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}?
  +---ro state
    | +---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
    | +---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}?
  +---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 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
            | +---rw vrf-name?                       -> /ipi-network-instance:network-
instances/network-instance/ipi-vrf:vrf/config/vrf-name
            +---ro state
            | +---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
            | +---ro vrf-name?                       -> /ipi-network-instance:network-
instances/network-instance/ipi-vrf:vrf/config/vrf-name
            +---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_RIPD,feature-list:HAVE_VRF_RIP}?
| +---w input
|   +---w vrf-name      string
|   +---w prefix        cml-data-types:cml_ipv4_prefix_t
+---x rip-vrf-clear-route-all {feature-list:HAVE_RIPD,feature-list:HAVE_VRF_RIP}?
| +---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

```

module: 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!
name | +---rw passive-interfaces*          -> /ipi-interface:interfaces/interface/
    | +---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
    | +---rw ripng-enabled              empty
+---ro state
name | +---ro passive-interfaces*          -> /ipi-interface:interfaces/interface/
    | +---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
    | +---ro ripng-enabled              empty
+---rw redistribute-policies
| +---rw redistribute-policy* [route-type]
|   +---rw route-type    -> ../config/route-type
|   +---rw config
|   | +---rw metric?      uint8
|   | +---rw route-map?   string
|   | +---rw route-type?  ipi-ripng-types:ripng_redistribute_proto_t
|   +---ro state
|     +---ro metric?      uint8
|     +---ro route-map?   string
|     +---ro route-type?  ipi-ripng-types:ripng_redistribute_proto_t
+---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 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
  | +--rw vrf-name?                   -> /ipi-network-instance:network-
instances/network-instance/ipi-vrf:vrf/config/vrf-name
  +--ro state
    | +--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
  | +--ro vrf-name?                   -> /ipi-network-instance:network-
instances/network-instance/ipi-vrf:vrf/config/vrf-name
  +--rw redistribute-policies
    | +--rw redistribute-policy* [route-type]
    |   +--rw route-type      -> ../config/route-type
    |   +--rw config
    |     | +--rw metric?      uint8
    |     | +--rw route-map?   string
    |     | +--rw route-type?  ipi-ripng-types:ripng_vrf_redistribute_proto_t
    |     +--ro state
    |       +--ro metric?      uint8
    |       +--ro route-map?   string
    |       +--ro route-type?  ipi-ripng-types:ripng_vrf_redistribute_proto_t
  +--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

```

module: 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

```

module: 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 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
| +--ro state
| | +--ro interface-name? -> /ipi-interface:interfaces/interface/name
| | +--ro metric?        uint32

```

```

| | +--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
| +--rw communities
| | +--rw community* [community-identifier]
| |   +--rw community-identifier -> ../config/community-identifier
| |   +--rw config
| |     | +--rw community-identifier? ipi-routemap-
types:rmap_community_string_t
| |     | +--rw match-type            ipi-routemap-types:rmap_community_type_t
| |     | +--ro state
| |     | +--ro community-identifier? ipi-routemap-
types:rmap_community_string_t
| |     | +--ro match-type            ipi-routemap-types:rmap_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:rmap_community_string_t
| |     | +--rw match-type            ipi-routemap-
types:rmap_community_type_t
| |     | +--ro state
| |     | +--ro extended-community-identifier? ipi-routemap-
types:rmap_community_string_t
| |     | +--ro match-type            ipi-routemap-
types:rmap_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:rmap_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:rmap_ipv6_nexthop_t
| +---rw large-match-community
|   +---rw config!
|     | +---rw large-community-number-match?  cml-data-types:cml_line_t
|     +---ro state
|       +---ro large-community-number-match?  cml-data-types:cml_line_t
+---rw set-action
  +---rw config
    | +---rw forward-interface-type?         ipi-routemap-
types:rmap_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:rmap_origin_type_t
    | +---rw metric-type?                   ipi-routemap-types:rmap_metric_type_t
    | +---rw level-type?                    ipi-routemap-types:rmap_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 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
    +---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 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 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
      +---rw ipv4
        | +---rw config
          | | +---rw ip-nexthop-address?      inet:ipv4-address
          | | +---rw use-peer-address?       empty
          | | +---rw vpnv4-nexthop-address?  inet:ipv4-address {feature-
list:HAVE_VRF}?
          | +---ro state

```

```

|      +---ro ip-nexthop-address?      inet:ipv4-address
|      +---ro use-peer-address?       empty
|      +---ro vpv4-nexthop-address?   inet:ipv4-address {feature-
list:HAVE_VRF}?
+---rw ipv6
| +---rw config
| | +---rw ipv6-nexthop-address?      inet:ipv6-address {feature-
list:HAVE_IPV6}?
| | +---rw local-ipv6-nexthop-address? inet:ipv6-address {feature-
list:HAVE_IPV6}?
| +---ro state
|      +---ro ipv6-nexthop-address?   inet:ipv6-address {feature-
list:HAVE_IPV6}?
|      +---ro local-ipv6-nexthop-address? inet:ipv6-address {feature-
list:HAVE_IPV6}?
+---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-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 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-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-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-community
  +---rw config!
  | +---rw large-community-number-set?   cml-data-types:cml_line_t
  +---ro state
    +---ro large-community-number-set?   cml-data-types:cml_line_t

```

module: 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]
| | +--ro address   -> ../state/address
| | +--ro state
| |   +--ro address?   inet:ip-address
| |   +--ro trunk-id?   uint32
| |   +--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 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 rsvp-nexthop* [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-local-protection? empty
| | +--rw enable-php?             empty
| | +--rw disable-refresh-resv-parsing? empty
| | +--rw disable-refresh-path-parsing? empty
```

```

| | +--rw disable-loop-detection?          empty
| | +--rw revert-timer?                   uint32
| | +--rw enable-bundle-send?             empty
| | +--rw ingress?                        inet:ipv4-address
| +--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-local-protection?         empty
| | +--ro enable-php?                      empty
| | +--ro disable-refresh-resv-parsing?     empty
| | +--ro disable-refresh-path-parsing?    empty
| | +--ro disable-loop-detection?          empty
| | +--ro revert-timer?                    uint32

```

```

| | +--ro enable-bundle-send?          empty
| | +--ro ingress?                    inet:ipv4-address
| | +--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 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 fast-reroute {feature-list:HAVE_MPLS_FRR}?
| | +--rw config
| | | +--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}?
| | +--ro state
| |   +--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}?
| +--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 gmpls {feature-list:HAVE_GMPLS}?
| | +--rw config
| | | +--rw enable-gmpls-notification? empty
| | | +--rw enable-pre-program-suggested-label? empty
| | +--ro state
| |   +--ro enable-gmpls-notification? empty
| |   +--ro enable-pre-program-suggested-label? empty
| +--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
| | | +--rw config
| | | | +--rw enable-override-diff-serv? empty {feature-list:HAVE_DIFFSERV}?
| | | +--ro state
| | |   +--ro enable-override-diff-serv? empty {feature-list:HAVE_DIFFSERV}?
| +--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 trunk-id?                  uint32
|           +---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
|   +---ro state
|     | +---ro path-name?    string
|     | +---ro path-type    ipi-rsvp-types:rsvp_path_type_t
|     | +---ro path-identifier? uint16
|     | +---ro hop-count?    uint16
|   +---rw explicit-route-object
|     +---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-hop* [strict-hop-address]
|       | +---rw strict-hop-address  -> ../config/strict-hop-address
|       | +---rw config
|       | | +---rw strict-hop-address? inet:ipv4-address
|       | | +---ro state
|       | | +---ro strict-hop-address? inet:ipv4-address

```

```

|         +---rw gmpls-unnumbered-entry
|         +---rw gmpls-unnumbered-hop* [unnumbered-ip-addr link-id]
|             +---rw unnumbered-ip-addr    -> ../config/unnumbered-ip-addr
|             +---rw link-id                -> ../config/link-id
|             +---rw config
|                 | +---rw unnumbered-ip-addr?    inet:ipv4-address
|                 | +---rw link-id?              uint32
|                 +---ro state
|                     +---ro unnumbered-ip-addr?    inet:ipv4-address
|                     +---ro link-id?              uint32
+---rw trunks
| +---rw ingress-trunk* [trunk-name]
| | +---rw trunk-name                -> ../config/trunk-name
| | +---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 mapped-prefix-class-route* [dst-addr]
| | | | +---rw dst-addr            -> ../config/dst-addr
| | | | +---rw config
| | | | | +---rw dst-addr          cml-data-types:cml_ipv4_prefix_t
| | | | | +---rw name              string {feature-list:HAVE_DIFFSERV}?
| | | | +---ro state
| | | |     +---ro dst-addr        cml-data-types:cml_ipv4_prefix_t
| | | |     +---ro name            string {feature-list:HAVE_DIFFSERV}?
| | | +---rw secondary-priorities* [secondary-priority]
| | | | +---rw secondary-priority  -> ../config/secondary-priority
| | | | +---rw config
| | | | | +---rw bandwidth?        string
| | | | | +---rw secondary-priority? 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
| | | | +---ro state
| | | |     +---ro bandwidth?      string
| | | |     +---ro secondary-priority? 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
| | | +---rw config
| | | +---rw bsid-value?            uint32

```

```

| | | +--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 trunk-name?      string
| | | +--rw trunk-family      ipi-rsvp-types:rsvp_trunk_family_t
| | | +--rw enable-igp-shortcut? empty
| | | +--rw absolute-metric?  uint32
| | | +--rw relative-metric? int32
| | | +--rw revert-timer?    uint32
| | | +--rw enable-reoptimize? empty
| | +--ro state
| | | +--ro bsid-value?       uint32
| | | +--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 trunk-name?     string
| | | +--ro trunk-family     ipi-rsvp-types:rsvp_trunk_family_t
| | | +--ro enable-igp-shortcut? empty
| | | +--ro absolute-metric? uint32
| | | +--ro relative-metric? int32
| | | +--ro revert-timer?   uint32
| | | +--ro enable-reoptimize? empty
| | +--rw sessions
| |   +--rw session* [trunk-session-type]
| |     | +--rw trunk-session-type -> ../config/trunk-session-type
| |     | +--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 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}?
| |     | | +--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 enable-local-protection? empty
| |     | +--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}?
| | | | +--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 enable-local-protection?  empty
| | | +--rw path-state-block
| | | | +--rw config
| | | | | +--rw bandwidth?             string
| | | | | +--rw path-name?            -> /rsvp-te/rsvp-paths/rsvp-path/config/path-
name
| | | | +--ro state
| | | | | +--ro bandwidth?             string
| | | | | +--ro path-name?            -> /rsvp-te/rsvp-paths/rsvp-path/config/path-
name
| | | +--rw session-attributes
| | | | +--rw config
| | | | | +--rw bandwidth?             string
| | | | | +--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
| | | | +--ro state
| | | | | +--ro bandwidth?             string
| | | | | +--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
| | | +--rw diff-serv-info {feature-list:HAVE_DIFFSERV}?
| | | | +--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 config
| | | | | +--rw llsp-class?             string {feature-list:NOT_HAVE_CUSTOM2_MPLS}?
| | | | +--ro state
| | | | | +--ro llsp-class?             string {feature-list:NOT_HAVE_CUSTOM2_MPLS}?
| | | +--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
| | +--rw fast-reroute {feature-list:HAVE_MPLS_FRR}?
| | | +--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 config
| | | | | +--rw fast-reroute-bandwidth? string
| | | | | +--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
| | | | +--ro state
| | | | +--ro fast-reroute-bandwidth? string
| | | | +--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
| | +--rw srlg {feature-list:HAVE_SRLG}?
| | | +--rw config
| | | | +--rw srlg-disjoint-secondary? ipi-rsvp-
types:rsvp_te_srlg_disjoint_type_t {feature-list:HAVE_SRLG}?
| | | | +--ro state
| | | | +--ro srlg-disjoint-secondary? ipi-rsvp-
types:rsvp_te_srlg_disjoint_type_t {feature-list:HAVE_SRLG}?
| | +--ro trunk* [trunk-id extended-tunnel-id egress]
| | | +--ro trunk-id -> ../sessions/session/state/trunk-id
| | | +--ro extended-tunnel-id -> ../sessions/session/state/extended-tunnel-id
| | | +--ro egress -> ../sessions/session/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 trunk-id?                uint32
|           +---ro extended-tunnel-id?      inet:ip-address
|           +---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 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
+---rw interfaces
  +---rw interface* [name]
    +---rw name                -> /ipi-interface:interfaces/interface/name
    +---rw config
      | +---rw enable-rsvp?      empty

```



```

| +--rw enable-iana-hello-config?   empty
+--ro state
| +--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 trunk-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 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 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 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 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 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

```

module: ipi-segment-routing

```

+--rw segment-routing {feature-list:HAVE_SRV6_OR_HAVE_SR_MPLS}?
  +--rw config!
  | +--rw enable    empty
  +--ro state
  | +--ro 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-segment {feature-list:HAVE_SR_MPLS}?
  |   | +--rw config
  |   | | +--rw adj-sid-absolute?  uint32
  |   | | +--rw adj-sid-index?    uint32
  |   | +--ro state
  |   |   +--ro adj-sid-absolute?  uint32
  |   |   +--ro adj-sid-index?    uint32
  |   +--rw prefix-segment {feature-list:HAVE_SR_MPLS}?
  |   | +--rw config
  |   | | +--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 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 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
| |             | | +--ro state
| |             | |   +--ro start-address?  cml-data-types:cml_ipv4_prefix_t
| |             | |   +--ro start-sid?      uint32
| |             | |   +--ro range?          uint32
| |             | |   +--ro attached?       boolean
| |             | |   +--ro ipv4-table
| |             | |     +--ro state
| |             | |       +--ro start-prefix?  cml-data-types:cml_ip_prefix_addr_t
| |             | |       +--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 config!
| |               | +--rw enable    empty
| |               +--ro state
| |                 +--ro enable    empty
| +--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 fast-reroute-enable?    empty {feature-list:HAVE_SR_POLICY}?
|   |   +---rw enable                  empty
|   +---ro state
|   |   +---ro fast-reroute-enable?    empty {feature-list:HAVE_SR_POLICY}?
|   |   +---ro enable                  empty
|   +---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_t
|   |   |   |   |   |   |   +---ro state
|   |   |   |   |   |   |   |   +---ro segment-index?  uint32
|   |   |   |   |   |   |   |   +---ro type?          ipi-sr-types:srte_segment_type_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 policies {feature-list:HAVE_SR_POLICY_OR_HAVE_SRV6}?
|   |   +---rw policy* [name]
|   |   |   +---rw name                  -> ../config/name
|   |   |   +---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 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 isis?    string
|         |         |     | +---rw ospf?   int32
|         |         |     +---ro state
|         |         |         | +---ro isis?    string
|         |         |         | +---ro ospf?   int32
|         |         |     +---rw constraints
|         |         |         +---rw bounds* [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 config!
|         |         |         | | +--rw enable      empty
|         |         |         | +--ro state
|         |         |         | | +--ro enable      empty
|         |         |         | +--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
types:sr_te_admin_group_type_t
|         |         |         | | +--rw admin-group-name? string
|         |         |         |   +--ro state
types:sr_te_admin_group_type_t
|         |         |         |   +--ro affinity-type?   ipi-sr-
types:sr_te_admin_group_type_t
|         |         |         |   +--ro admin-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
|         |         |         |   +--rw state
|         |         |         |   +--rw address?    inet:ip-address
|         |         |         |   +--rw type?      ipi-sr-
types:srte_ip_constraint_hop_type_t
|         |         |         |   +--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 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?                 yang:date-and-time
|           +---ro down-time?              yang:date-and-time
|           +---ro bsid-alloc-mode?         string
|           +---ro bsid-oper-state?        ipi-sr-types:sr_policy_bsid_oper_state
+---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,feature-
list:HAVE_SRV6}?
  +---x sr-policy-terminal-debug-on {feature-list:HAVE_SR_POLICY,feature-
list:HAVE_SRV6}?
  | +---w input
  |   +---w terminal-debug-options   ipi-sr-types:sr_te_debug_t
  +---x sr-policy-terminal-debug-off {feature-list:HAVE_SR_POLICY,feature-
list:HAVE_SRV6}?
  | +---w input
  |   +---w terminal-debug-options   ipi-sr-types:sr_te_debug_t

notifications:
  +---n sr-policy-oper-state-down
  | +---ro name?           string
  | +---ro oper-state?    ipi-sr-types:srte_policy_oper_state_t
  +---n sr-policy-oper-state-up
  | +---ro name?           string
  | +---ro oper-state?    ipi-sr-types:srte_policy_oper_state_t
  +---n sr-policy-cp-active
  | +---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 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 name?           string

```



```
+--ro bsid-value?   uint32
```

module: 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}?
```

module: 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
      +--ro state
        | +--ro name?           -> /ipi-interface:interfaces/interface/name
        | +--ro enabled?       empty
        | +--ro polling-interval? uint8
        | +--ro polling-count?  yang:counter32
      +--rw ingress
        | +--rw config!
        | | +--rw sampling-rate  uint32
        | | +--rw sample-size    uint16
        | +--ro state
        | +--ro sampling-rate    uint32
        | +--ro sample-size      uint16
        | +--ro sampling-status? ipi-sflow-types:sflow_egress_ingress_t
        | +--ro sampled-packet-count? yang:counter32
```

```

+--rw egress
  +--rw config!
  | +--rw sampling-rate      uint32
  | +--rw sample-size       uint16
  +--ro state
    +--ro sampling-rate      uint32
    +--ro sample-size       uint16
    +--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

```

module: ipi-sflow

```

+--rw sampling
  +--rw sflow
    +--rw config!
    | +--rw enabled          empty
    | +--rw source-address?  inet:ipv4-address
    | +--rw cpu-rate-limit?  uint32 {feature-list:HAVE_BROADCOM,feature-
list:NOT_HAVE_DUNE}?
    +--ro state
    | +--ro enabled          empty
    | +--ro source-address?  inet:ipv4-address
    | +--ro cpu-rate-limit?  uint32 {feature-list:HAVE_BROADCOM,feature-
list:NOT_HAVE_DUNE}?
    | +--ro sflow-version?   string
    | +--ro datagram-version? uint8
    +--rw collectors
    | +--rw collector* [address port]
    |   +--rw address      -> ../config/address
    |   +--rw port         -> ../config/port
    |   +--rw config
    |   | +--rw address?    inet:ipv4-address
    |   | +--rw port?      inet:port-number
    |   | +--rw receiver-timeout  uint32
    |   | +--rw max-datagram-size  uint16
    |   +--ro state
    |     +--ro address?    inet:ipv4-address
    |     +--ro port?      inet:port-number
    |     +--ro receiver-timeout  uint32
    |     +--ro max-datagram-size  uint16
    +--rw logging {feature-list:HAVE_CUSTOM1_ACL}?
    | +--rw config
    | | +--rw max-entries?  uint16

```

```

| | +--rw rate-limit?    uint16 {feature-list:HAVE_BROADCOM}?
| +--ro state
|   +--ro max-entries?  uint16
|   +--ro rate-limit?   uint16 {feature-list:HAVE_BROADCOM}?
+--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

```

rpcs:

```

+---x sflow-clear-access-list-log-cache {feature-list:HAVE_CUSTOM1_ACL}?
+---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 message?  string

```

module: ipi-snmp-server-extended

```

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 smux-port {feature-list:HAVE_SNMP_AGENT}?
        +--rw config
            | +--rw smux-port-disable?  empty
        +--ro state
            +--ro smux-port-disable?    empty
augment /ipi-snmp:snmp/ipi-snmp-server:servers/ipi-snmp-server:server:
    +--rw hosts {feature-list:HAVE_SNMP_AGENT}?
        +--rw host* [host-name] {feature-list:HAVE_SNMP_AGENT}?
            +--rw host-name    -> ../config/host-name
            +--rw config
                | +--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-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

```

```

rpcs:
  +---x snmp-server-terminal-debug-on {feature-list:HAVE_HOSTPD}?
  +---x snmp-server-terminal-debug-off {feature-list:HAVE_HOSTPD}?

```

module: ipi-snmp-server

```

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

```

module: 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
    +--ro state

```

```

    +--ro enable-traps?          ipi-snmp-types:snmp_trap_protocols
    +--ro enable-link-down-trap? boolean
    +--ro enable-link-up-trap?  boolean

```

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

```

module: 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]
    |     +--rw interface-name    -> ../config/interface-name
    |     +--rw protocol-type     -> ../config/protocol-type
    |     +--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]
        +--rw interface-name    -> ../config/interface-name
        +--rw protocol-type     -> ../config/protocol-type
        +--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

```

module: 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:vrf/config/vrf-name
      | +--rw enable    boolean {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}?
      +--ro state
        | +--ro vrf-name? -> /ipi-network-instance:network-instances/
network-instance/ipi-vrf:vrf/config/vrf-name
        | +--ro enable    boolean {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}?
    +--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

```

```

+--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

```

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

```

module: ipi-sys-mgmt

```

rpcs:
+---x sys-shutdown {feature-list:HAVE_PSERVD}?
    +---w input
        +---w save-config  boolean

```

module: ipi-sys-notifications

```

notifications:
+---n lock-forcibly-released
|   +---ro message?  string
+---n config-sync-completion-status
|   +---ro message?  string
+---n config-change
|   +---ro message?  string
+---n system-shutdown-or-reload
    +---ro message?  string

```

module: 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 url                  string
+---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 message?     string
+---n sys-update-download-status
| +--ro message?     string
+---n sys-container-download-status
  +--ro message?     string

```

module: ipi-system

```

+--rw system-info
  +--rw config
  | +--rw hostname?   string
  +--ro state
  | +--ro hostname?   string
  | +--ro software-version? string
  | +--ro system-uptime? system_time_duration
  | +--ro boot-time?   uint64
  | +--ro current-datetime? yang:date-and-time
  +--rw clock
    +--rw config
    | +--rw timezone-name? system_timezone_name_t
    +--ro state
      +--ro timezone-name? system_timezone_name_t

```

module: ipi-tacacs

```

+--rw tacacs
  +--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}?

```

module: 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      boolean
        | +--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      boolean
          +--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}?

```

module: 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* [group-id]

```

```

|         +--rw group-id    -> ../config/group-id
|         +--rw config
|         |   +--rw group-id?    uint32
|         |   +--rw group-type   ipi-tfo-types:tfo_fog_group_type_t
|         +--ro state
|         |   +--ro group-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 cpg-disable-status?  boolean
    |   +--ro mpg-disable-status?  boolean
    +--ro counters
      +--ro mpg-link-failure-count?  uint64
      +--ro mpg-link-recover-count?  uint64
      +--ro cpg-auto-disable-count?  uint64
      +--ro cpg-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

```

module: 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

```

module: ipi-transport-line-common

```

augment /ipi-platform:components/ipi-platform:component/ipi-platform-port:port:
  +--ro optical-port {feature-list:HAVE_COHERENT_OPTICS}?
  +--ro state
    +--ro optical-port-type?   cml_optical_port_type_t

```

module: 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 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

```

module: ipi-unicast-rpf

```

+--rw unicast-rpf {feature-list:HAVE_RPF}?
  +--rw global
  | +--rw config
  | | +--rw enable-route-lookup?  empty
  | +--ro state
  | +--ro enable-route-lookup?  empty
  +--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

```

module: 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 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 (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 (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}?

```

module: ipi-user-session-management

```

+--rw user-session
  +--rw line-console
    | +--rw console* [console-id]
    |   +--rw console-id -> ../config/console-id
    |   +--rw config
    |     | +--rw privilege-level? uint8
    |     | +--rw command-history-max-limit? uint32
    |     | +--rw console-id? ipi-user-session-management-
types:line_console_id_t
    |     +--ro state
    |       | +--ro privilege-level? uint8
    |       | +--ro command-history-max-limit? uint32
    |       | +--ro console-id? ipi-user-session-management-
types:line_console_id_t
    |       +--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 privilege-level?      uint8
|     | +--rw command-history-max-limit?  uint32
|     | +--rw vty-id?                cml-data-types:cml_range_t
|     +--ro state
|       | +--ro privilege-level?      uint8
|       | +--ro command-history-max-limit?  uint32
|       | +--ro vty-id?                cml-data-types:cml_range_t
|       +--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

rpcs:
  +---x clear-line {feature-list:HAVE_IMI}?
  +---w input
    +---w line-name  string
```

module: ipi-vlan-xc

```

+--rw cross-connects
  +--rw cross-connect* [xconnect-name] {feature-list:HAVE_VLAN_XC}?
    +--rw xconnect-name          -> ../config/xconnect-name
    +--rw config
      | +--rw xconnect-name?      string
      | +--rw disable?           empty
      | +--rw backup-endpoint-1? string
      | +--rw backup-endpoint-2? string
      | +--rw revertive?         empty
      | +--rw link-fault-pass-through-enable? empty
    +--ro state
      | +--ro xconnect-name?     string
      | +--ro disable?           empty
      | +--ro backup-endpoint-1? string
      | +--ro backup-endpoint-2? string
      | +--ro revertive?         empty
      | +--ro link-fault-pass-through-enable? empty
      | +--ro admin-status?     ipi-vlan-xc-
types:vlan_xc_admin_status_t
      | +--ro oper-status?       ipi-vlan-xc-types:vlan_xc_oper_status_t
      | +--ro ep1-rx-pkts?       yang:counter64
      | +--ro ep1-rx-bytes?      yang:counter64
      | +--ro ep1-tx-pkts?       yang:counter64
      | +--ro ep1-tx-bytes?      yang:counter64
      | +--ro ep2-rx-pkts?       yang:counter64
      | +--ro ep2-rx-bytes?      yang:counter64
      | +--ro ep2-tx-pkts?       yang:counter64
      | +--ro ep2-tx-bytes?      yang:counter64
      | +--ro bkp-ep1-rx-pkts?   yang:counter64
      | +--ro bkp-ep1-rx-bytes?  yang:counter64
      | +--ro bkp-ep1-tx-pkts?   yang:counter64
      | +--ro bkp-ep1-tx-bytes?  yang:counter64
      | +--ro bkp-ep2-rx-pkts?   yang:counter64
      | +--ro bkp-ep2-rx-bytes?  yang:counter64
      | +--ro bkp-ep2-tx-pkts?   yang:counter64
      | +--ro bkp-ep2-tx-bytes?  yang:counter64
    +--rw cross-connect-port
      | +--rw config!
      | | +--rw port-endpoint-1   -> /ipi-interface:interfaces/interface/name
      | | +--rw port-endpoint-2   -> /ipi-interface:interfaces/interface/name
      | +--ro state
      | | +--ro port-endpoint-1    -> /ipi-interface:interfaces/interface/name
      | | +--ro port-endpoint-2    -> /ipi-interface:interfaces/interface/name
      | | +--ro ep1-rx-pkts?       yang:counter64
      | | +--ro ep1-rx-bytes?      yang:counter64
      | | +--ro ep1-tx-pkts?       yang:counter64
      | | +--ro ep1-tx-bytes?      yang:counter64

```

```
|      +---ro ep2-rx-pkts?          yang:counter64
|      +---ro ep2-rx-bytes?        yang:counter64
|      +---ro ep2-tx-pkts?         yang:counter64
|      +---ro ep2-tx-bytes?        yang:counter64
|      +---ro bkp-ep1-rx-pkts?     yang:counter64
|      +---ro bkp-ep1-rx-bytes?    yang:counter64
|      +---ro bkp-ep1-tx-pkts?     yang:counter64
|      +---ro bkp-ep1-tx-bytes?    yang:counter64
|      +---ro bkp-ep2-rx-pkts?     yang:counter64
|      +---ro bkp-ep2-rx-bytes?    yang:counter64
|      +---ro bkp-ep2-tx-pkts?     yang:counter64
|      +---ro bkp-ep2-tx-bytes?    yang:counter64
+---rw cross-connect-vlan
  +---rw config!
    | +---rw vlan-endpoint-1      -> /ipi-interface:interfaces/interface/name
    | +---rw vlan-endpoint-2      -> /ipi-interface:interfaces/interface/name
  +---ro state
    | +---ro vlan-endpoint-1      -> /ipi-interface:interfaces/interface/name
    | +---ro vlan-endpoint-2      -> /ipi-interface:interfaces/interface/name
  +---rw vlan-xc-entries
    +---rw vlan-xc-entry* [outer-vlan-range inner-vlan-range]
      +---rw outer-vlan-range     -> ../config/outer-vlan-range
      +---rw inner-vlan-range     -> ../config/inner-vlan-range
    +---rw config
      | +---rw outer-vlan-range?   string
      | +---rw inner-vlan-range?  string
    +---ro state
      +---ro outer-vlan-range?    string
      +---ro inner-vlan-range?    string
      +---ro ep1-rx-pkts?         yang:counter64
      +---ro ep1-rx-bytes?        yang:counter64
      +---ro ep1-tx-pkts?         yang:counter64
      +---ro ep1-tx-bytes?        yang:counter64
      +---ro ep2-rx-pkts?         yang:counter64
      +---ro ep2-rx-bytes?        yang:counter64
      +---ro ep2-tx-pkts?         yang:counter64
      +---ro ep2-tx-bytes?        yang:counter64
      +---ro bkp-ep1-rx-pkts?     yang:counter64
      +---ro bkp-ep1-rx-bytes?    yang:counter64
      +---ro bkp-ep1-tx-pkts?     yang:counter64
      +---ro bkp-ep1-tx-bytes?    yang:counter64
      +---ro bkp-ep2-rx-pkts?     yang:counter64
      +---ro bkp-ep2-rx-bytes?    yang:counter64
      +---ro bkp-ep2-tx-pkts?     yang:counter64
      +---ro bkp-ep2-tx-bytes?    yang:counter64
```

rpcs:

```
+---x clear-cross-connect-counters {feature-list:HAVE_VLAN_XC}?
  +---w input
    +---w xc-name      string
```

module: ipi-vlan

```

+--rw vlan-classifier {feature-list:HAVE_VLAN_CLASS}?
| +--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-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-rule/rule-id
| | | | +--ro state
| | | | | +--ro group-id?  uint8
| | | | | +--ro rule-id?  -> /vlan-classifier/classifier-rule/rule-id
| | +--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-group/group-id
| | | | +--rw vlan-id    -> /ipi-network-instance:network-instances/network-
instance/ipi-bridge:bridge/vlans/vlan/vlan-id
| | | | +--ro state
| | | | | +--ro port-name? -> /ipi-interface:interfaces/interface/name
| | | | | +--ro group-id?  -> /vlan-classifier/classifier-group/group-id
| | | | | +--ro vlan-id    -> /ipi-network-instance:network-instances/network-
instance/ipi-bridge:bridge/vlans/vlan/vlan-id
+--rw vlan-reservation {feature-list:HAVE_FLEXPORT}?
| +--rw reserve-vlan* [vlan-id] {feature-list:HAVE_FLEXPORT}?
| | +--rw vlan-id      -> ../config/vlan-id
| | +--rw config
| | | +--rw vlan-id?   cml-data-types:cml_range_t
| | +--ro state
| | | +--ro vlan-id?   cml-data-types:cml_range_t
+--rw layer2-global

```

```

+--rw config
| +--rw disable-vlan-classifier-feature? empty {feature-list:HAVE_VLAN_CLASS}?
| +--rw disable-port-security? empty
+--ro state
  +--ro disable-vlan-classifier-feature? empty {feature-list:HAVE_VLAN_CLASS}?
  +--ro disable-port-security? empty

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 svlan-cos?          uint8 {feature-list:NOT_HAVE_CUSTOM2_QOS}?
          | +--rw svlan-cfi?          uint8 {feature-list:NOT_HAVE_CUSTOM2_QOS}?
          | +--rw cvlan-cos?          uint8 {feature-list:NOT_HAVE_CUSTOM2_QOS}?
          | +--rw cvlan-cfi?          uint8 {feature-list:NOT_HAVE_CUSTOM2_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 svlan-cos?          uint8 {feature-list:NOT_HAVE_CUSTOM2_QOS}?
            +--ro svlan-cfi?          uint8 {feature-list:NOT_HAVE_CUSTOM2_QOS}?
            +--ro cvlan-cos?          uint8 {feature-list:NOT_HAVE_CUSTOM2_QOS}?
            +--ro cvlan-cfi?          uint8 {feature-list:NOT_HAVE_CUSTOM2_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             -> /ipi-network-instance:network-instances/network-
instance/ipi-vrf:vrf/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          -> /ipi-network-instance:network-instances/network-
instance/ipi-vrf:vrf/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

```

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 router-id?    inet:ipv4-address
    +--ro state
      | +--ro vrf-name?     -> /ipi-network-instance:network-instances/network-
instance/instance-name
      | +--ro description? cml-data-types:cml_line_t
      | +--ro router-id?   inet:ipv4-address
      | +--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 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
|         |   +---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}?
|         +---ro state
|         |   +---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
|         |   +---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}?
|         +---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]
name         |       +---rw interface-tracking-name    -> ../config/interface-tracking-
|         |           +---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 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 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 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
  |   +--rw primary-ip-address?   inet:ipv6-address
+--ro state
  |   +--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
  |   +--ro primary-ip-address?   inet:ipv6-address
+--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 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

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 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 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 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 maximum-cache-disable-count? uint16 {feature-
list:HAVE_BGP_EVPN,feature-list:NOT_HAVE_DUNE}?
    | +--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 maximum-cache-disable-count? uint16 {feature-
list:HAVE_BGP_EVPN,feature-list:NOT_HAVE_DUNE}?

```

```

    +--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-tenant* [vxlan-identifier]
  | +--rw vxlan-identifier      -> ../config/vxlan-identifier
  | +--rw config
  | | +--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 vxlan-identifier?    uint32
  | | +--rw tenant-type?         ipi-vxlan-types:vxlan_tenant_type_t
  | | +--rw tenant-xconnect-type? ipi-vxlan-types:vxlan_tenant_xconnect_type_t
  | +--ro state
  | | +--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 vxlan-identifier?    uint32
  | | +--ro tenant-type?         ipi-vxlan-types:vxlan_tenant_type_t
  | | +--ro tenant-xconnect-type? ipi-vxlan-types:vxlan_tenant_xconnect_type_t
  | +--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}?
  | +--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? string
| +--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-interface* [interface-name] {feature-list:NOT_HAVE_DNX}?
| +---rw interface-name                          -> ../config/interface-name
| +---rw config
| | +---rw interface-name?                        -> /ipi-interface:interfaces/interface/name
| | +---rw vxlan-identifier?                      -> /vxlan/vxlan-tenant/config/vxlan-
identifier
| | +---rw tenant-description?                    -> /vxlan/vxlan-tenant/config/tenant-
description
| | +---rw admin-shutdown?                        empty
| | +---rw description?                          cml-data-types:cml_line_t
| | +---rw dynamic-learning-disable?              empty
| | +---rw access-mac-hold-time?                  int32
| | +---rw arp-nd-flood-suppress?                 empty {feature-list:HAVE_BGP_EVPN}?
| | +---rw garp-gna-enable?                       empty {feature-list:HAVE_BGP_EVPN}?
| | +---rw mac-address*                           cml-data-types:cml_mac_addr_t
| | +---rw default-access-interface?              empty
| | +---rw arp-cache-disable?                     empty {feature-list:HAVE_BGP_EVPN}?
| | +---rw nd-cache-disable?                      empty {feature-list:HAVE_BGP_EVPN}?
| +---ro state
| | +---ro interface-name?                        -> /ipi-interface:interfaces/interface/name
| | +---ro vxlan-identifier?                      -> /vxlan/vxlan-tenant/config/vxlan-
identifier
| | +---ro tenant-description?                    -> /vxlan/vxlan-tenant/config/tenant-
description
| | +---ro admin-shutdown?                        empty
| | +---ro description?                          cml-data-types:cml_line_t
| | +---ro dynamic-learning-disable?              empty
| | +---ro access-mac-hold-time?                  int32
| | +---ro arp-nd-flood-suppress?                 empty {feature-list:HAVE_BGP_EVPN}?
| | +---ro garp-gna-enable?                       empty {feature-list:HAVE_BGP_EVPN}?
| | +---ro mac-address*                           cml-data-types:cml_mac_addr_t
| | +---ro default-access-interface?              empty
| | +---ro arp-cache-disable?                     empty {feature-list:HAVE_BGP_EVPN}?
| | +---ro nd-cache-disable?                      empty {feature-list:HAVE_BGP_EVPN}?
+---rw host-mac-ipv4* [mac-address ipv4-address] {feature-list:NOT_HAVE_DNX}?
| | +---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 host-mac-ipv6* [mac-address ipv6-address] {feature-list:HAVE_IPV6,feature-
list:NOT_HAVE_DNX}?
| | +--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 access-interface-qos-type-mapping* [profile-map-type] {feature-
list:HAVE_QOS}?
| +--rw profile-map-type -> ../config/profile-map-type
| +--rw config
| | +--rw profile-map-type? ipi-vxlan-types:vxlan_qos_map_profile_type_t
| | +--rw profile-name string
| +--ro state
| +--ro profile-map-type? ipi-vxlan-types:vxlan_qos_map_profile_type_t
| +--ro profile-name string
+--rw tagged-access-interface* [interface-name vlan-identifier] {feature-
list:NOT_HAVE_DNX}?
| +--rw interface-name -> ../config/interface-name
| +--rw vlan-identifier -> ../config/vlan-identifier
| +--rw config
| | +--rw tag-protocol-identifier? string
| | +--rw arp-cache-disable? empty {feature-list:HAVE_BGP_EVPN}?
| | +--rw nd-cache-disable? empty {feature-list:HAVE_BGP_EVPN}?
| | +--rw interface-name? -> /ipi-interface:interfaces/interface/name
| | +--rw vxlan-identifier? -> /vxlan/vxlan-tenant/config/vxlan-
identifier
| | +--rw tenant-description? -> /vxlan/vxlan-tenant/config/tenant-
description
| | +--rw admin-shutdown? empty
| | +--rw description? cml-data-types:cml_line_t
| | +--rw dynamic-learning-disable? empty
| | +--rw access-mac-hold-time? int32
| | +--rw arp-nd-flood-suppress? empty {feature-list:HAVE_BGP_EVPN}?
| | +--rw garp-gna-enable? empty {feature-list:HAVE_BGP_EVPN}?
| | +--rw mac-address* cml-data-types:cml_mac_addr_t
| | +--rw vlan-identifier? string
| +--ro state
| | +--ro tag-protocol-identifier? string
| | +--ro arp-cache-disable? empty {feature-list:HAVE_BGP_EVPN}?
| | +--ro nd-cache-disable? empty {feature-list:HAVE_BGP_EVPN}?
| | +--ro interface-name? -> /ipi-interface:interfaces/interface/name
| | +--ro vxlan-identifier? -> /vxlan/vxlan-tenant/config/vxlan-
identifier
| | +--ro tenant-description? -> /vxlan/vxlan-tenant/config/tenant-
description
| | +--ro admin-shutdown? empty
| | +--ro description? cml-data-types:cml_line_t
| | +--ro dynamic-learning-disable? empty

```

```

| | +--ro access-mac-hold-time?      int32
| | +--ro arp-nd-flood-suppress?    empty {feature-list:HAVE_BGP_EVPN}?
| | +--ro garp-gna-enable?          empty {feature-list:HAVE_BGP_EVPN}?
| | +--ro mac-address*              cml-data-types:cml_mac_addr_t
| | +--ro vlan-identifier?          string
| +--rw host-mac-ipv4* [mac-address ipv4-address]
| | +--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 host-mac-ipv6* [mac-address ipv6-address] {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 access-interface-qos-type-mapping* [profile-map-type] {feature-
list:HAVE_QOS}?
|   +--rw profile-map-type  -> ../config/profile-map-type
|   +--rw config
|   | +--rw profile-map-type? ipi-vxlan-types:vxlan_qos_map_profile_type_t
|   | +--rw profile-name     string
|   +--ro state
|     +--ro profile-map-type? ipi-vxlan-types:vxlan_qos_map_profile_type_t
|     +--ro profile-name     string
+--rw double-tagged-access-interface* [interface-name vlan-identifier inner-vlan-
identifier] {feature-list:NOT_HAVE_DNX}?
| +--rw interface-name      -> ../config/interface-name
| +--rw vlan-identifier     -> ../config/vlan-identifier
| +--rw inner-vlan-identifier -> ../config/inner-vlan-identifier
| +--rw config
| | +--rw tag-protocol-identifier? string
| | +--rw arp-cache-disable?     empty {feature-list:HAVE_BGP_EVPN}?
| | +--rw nd-cache-disable?     empty {feature-list:HAVE_BGP_EVPN}?
| | +--rw interface-name?       -> /ipi-interface:interfaces/interface/name
| | +--rw vxlan-identifier?     -> /vxlan/vxlan-tenant/config/vxlan-
identifier
| | +--rw tenant-description?   -> /vxlan/vxlan-tenant/config/tenant-
description
| | +--rw admin-shutdown?      empty
| | +--rw description?         cml-data-types:cml_line_t
| | +--rw dynamic-learning-disable? empty
| | +--rw access-mac-hold-time? int32
| | +--rw arp-nd-flood-suppress? empty {feature-list:HAVE_BGP_EVPN}?

```

```

| | +--rw garp-gna-enable?          empty {feature-list:HAVE_BGP_EVPN}?
| | +--rw mac-address*             cml-data-types:cml_mac_addr_t
| | +--rw vlan-identifier?         string
| | +--rw inner-vlan-identifier?   uint32
| +--ro state
| | +--ro tag-protocol-identifier? string
| | +--ro arp-cache-disable?      empty {feature-list:HAVE_BGP_EVPN}?
| | +--ro nd-cache-disable?      empty {feature-list:HAVE_BGP_EVPN}?
| | +--ro interface-name?        -> /ipi-interface/interfaces/interface/name
| | +--ro vxlan-identifier?       -> /vxlan/vxlan-tenant/config/vxlan-
identifier
| | +--ro tenant-description?     -> /vxlan/vxlan-tenant/config/tenant-
description
| | +--ro admin-shutdown?        empty
| | +--ro description?           cml-data-types:cml_line_t
| | +--ro dynamic-learning-disable? empty
| | +--ro access-mac-hold-time?   int32
| | +--ro arp-nd-flood-suppress? empty {feature-list:HAVE_BGP_EVPN}?
| | +--ro garp-gna-enable?       empty {feature-list:HAVE_BGP_EVPN}?
| | +--ro mac-address*           cml-data-types:cml_mac_addr_t
| | +--ro vlan-identifier?       string
| | +--ro inner-vlan-identifier?   uint32
| +--rw host-mac-ipv4* [mac-address ipv4-address] {feature-list:NOT_HAVE_DNX}?
| | +--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 host-mac-ipv6* [mac-address ipv6-address] {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 access-interface-qos-type-mapping* [profile-map-type] {feature-
list:HAVE_QOS}?
|   +--rw profile-map-type       -> ../config/profile-map-type
|   +--rw config
|   | +--rw profile-map-type?    ipi-vxlan-types:vxlan_qos_map_profile_type_t
|   | +--rw profile-name        string
|   +--ro state
|     +--ro profile-map-type?    ipi-vxlan-types:vxlan_qos_map_profile_type_t
|     +--ro profile-name        string
+--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

```

rpcs:

```

+---x clear-nvo-vxlan-dynamic-mac-address-table {feature-list:HAVE_VXLAN}?
+---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-single-tagged-access-port-counters {feature-list:HAVE_VXLAN}?
| +---w input
|   +---w interface-name       string
|   +---w vlan-identifier      string
+---x clear-vxlan-double-tagged-access-port-counters {feature-list:HAVE_VXLAN}?
| +---w input
|   +---w interface-name       string
|   +---w outer-vlan-identifier uint32
|   +---w inner-vlan-identifier uint32
+---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 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
  +---ro rpcs:
  |   +---x clear-core-dump {feature-list:HAVE_PSERVD,feature-
list:HAVE_ZEBOS_CORE_ANALYSER}?
  |   |   +---w input
  |   |   |   +---w core-dump        string
  +---ro notifications:
  |   +---n protocol-module-down {feature-list:HAVE_PSERVD}?
  |   |   +---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 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 rapid-pvst {feature-list:HAVE_RPVST_PLUS}?
|     |   +---rw vlans
|     |     +---rw vlan* [vlan-id]
|     |       +---rw vlan-id   -> ../config/vlan-id
|     |       +---rw config
|     |         | +---rw enable-restricted-role?   empty
|     |         | +---rw enable-restricted-tcn?   empty
|     |         | +---rw vlan-id?                 uint16
|     |         +---ro state
|     |           +---ro enable-restricted-role?   empty
|     |           +---ro enable-restricted-tcn?   empty
|     |           +---ro vlan-id?                 uint16
|     +---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 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-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 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 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* uint16
|     | +--ro state
|     | | +--ro instance-id? ipi-xstp-
types:mstp_instance_t
|     | | +--ro bridge-priority? uint32
|     | | +--ro vlan-id* uint16
|     | | +--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
name   |     | |   +---rw name?                   -> /ipi-interface:interfaces/interface/
|     | |   +---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
types:mstp_port_state_t
|     |     +---ro port-state?                 ipi-xstp-
types:mstp_port_role_t
|     |     +---ro port-role?                 ipi-xstp-
|     +---rw te-mst-instance
|         +---rw config
|             | +---rw vlan-id*                uint16
|             | +---rw disable-spanning-tree?  empty
|         +---ro state
|             | +---ro vlan-id*                uint16
|             | +---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?                ipi-xstp-
types:mstp_port_state_t
|                             +--ro port-role?                ipi-xstp-
types:mstp_port_role_t
    +--rw rapid-pvst {feature-list:HAVE_RPVST_PLUS}?
        +--rw vlans
            +--rw vlan* [vlan-id]
                +--rw vlan-id    -> ../config/vlan-id
                +--rw config
                    | +--rw bridge-priority?  uint32
                    | +--rw vlan-id?         uint16
                +--ro state
                    +--ro bridge-priority?  uint32
                    +--ro vlan-id?         uint16
    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 bpdu-guard?                 ipi-xstp-types:xstp_bpdu_t
    +--ro root-guard?                 empty
    +--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?              ipi-xstp-
types:mstp_port_role_t
    +--ro cist-forward-transitions?    uint32
    +--ro service-vlan-id?             uint16 {feature-
list:HAVE_PROVIDER_BRIDGE}?
    augment /ipi-network-instance:network-instances/ipi-network-instance:network-
instance/ipi-bridge:bridge/ipi-bridge:bridge-ports/ipi-bridge:interface:
    +--rw vlan-port {feature-list:HAVE_RPVST_PLUS}?
    +--rw vlans
    +--rw vlan* [vlan-id]
    +--rw vlan-id    -> ../config/vlan-id
    +--rw config
    | +--rw vlan-id?          uint16
    | +--rw port-priority?    uint8
    | +--rw path-cost?        uint32
    +--ro state
    +--ro vlan-id?            uint16
    +--ro port-priority?      uint8
    +--ro path-cost?          uint32

```



```

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,feature-list: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,feature-list: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-topology-change-notification
  | +--ro message?    string
  +---n bridge-new-root-notification
  | +--ro message?    string

```

