

ipinfusion™

OcNOS®
Open Compute
Network Operating System
Version 6.5.2

Data Model Reference

August 2024

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1. Overview

This document describes the YANG data models supported by OcNOS, including the command reference and XML snippets, and provides information on where to find all the documents and YANG files.

2. Get the datamodels

The datamodels can be retrieved from the following locations:

- Github
- OcNOS installed devices.

2.1 Datamodel Location in Github

Users can access the YANG data models on GitHub through the following link: [GitHub - IPInfusion/OcNOS: OcNOS™ Network Operating System](#)

Note: This link directs to the 'master' branch, which we do not update. To access specific YANG models based on OcNOS release version, follow these steps:

- Click on 'master'.
- From the dropdown menu, enter a search string, such as "5.1," "6.0.0," or "6.3.0," corresponding to the OcNOS release version for which the YANG models are needed.
- Select the desired version from the dropdown and click to switch the branch.

Before proceeding, refer to the snapshot below to understand how to choose the branch version:

The screenshot shows the GitHub repository page for IPInfusion/OcNOS. The repository is public and has 92 branches and 0 tags. The current branch is master. A dropdown menu is open, showing a search bar with the text "6.3.0". Below the search bar, there are two tabs: "Branches" and "Tags". Under the "Branches" tab, the following branches are listed: OCNOS-OTN-6.3.0, OcNOS-DC-6.3.0, OcNOS-OLT-6.3.0, and OcNOS-SP-6.3.0. A link "View all branches" is visible at the bottom of the dropdown. The main content of the page shows the repository title "OcNOS™ Network Operating System" and a description: "Contains the SNMP MIB files, Yang files, Ansible modules etc. to use with OcNOS. Please Switch to the respective OcNOS version specific branch to access the files".

2.1.1 Yang Datamodels

The Yang models are available inside the “yang-files” folder. OcNOS supports two types of Datamodels:

1. IPI Datamodels
2. OpenConfig datamodels

Here is a snapshot for reference:

The screenshot shows a GitHub repository page for the 'OcNOS' project, specifically the 'yang-files' directory under the 'OcNOS-SP-6.3.0' branch. The page header includes navigation links for Product, Solutions, Open Source, and Pricing. Below the repository name, there are statistics for Code, Issues (2), Pull requests (4), Actions, Projects, Security, and Insights. The main content area shows the current branch 'OcNOS-SP-6.3.0' and the path 'OcNOS / yang-files /'. A message indicates that this branch is 2 commits ahead and 4 commits behind master. A commit by IPInfusion is listed with the message 'Adding yang-files and mibs for OcNOS-6.3.0 release'. Below the commit, two folders are shown: 'ipi' and 'openconfig', both with the same commit message.

2.1.2 IPI Datamodels

OcNOS supports the IPI Datamodels, which are considered the 'native' datamodels. These models are used to represent all configurations and operational attributes of OcNOS. The IPI Datamodels adhere to OpenConfig style guidelines, ensuring a clear separation of 'config' and 'state' attributes. User can find these datamodels inside the "yang-files/ipi" folder on GitHub. Here is a snapshot for reference:

← ↻ 🏠 <https://github.com/IPInfusion/OcNOS/tree/OcNOS-SP-6.3.0/yang-files/ipi>

Product ▾ Solutions ▾ Open Source ▾ Pricing

IPInfusion / OcNOS Public

<> Code Issues 2 Pull requests 4 Actions Projects Security Insights

OcNOS-SP-6.3.0 ▾ OcNOS / yang-files / ipi /

This branch is [2 commits ahead](#), [4 commits behind](#) master.

IPInfusion Adding yang-files and mibs for OcNOS-6.3.0 release

..

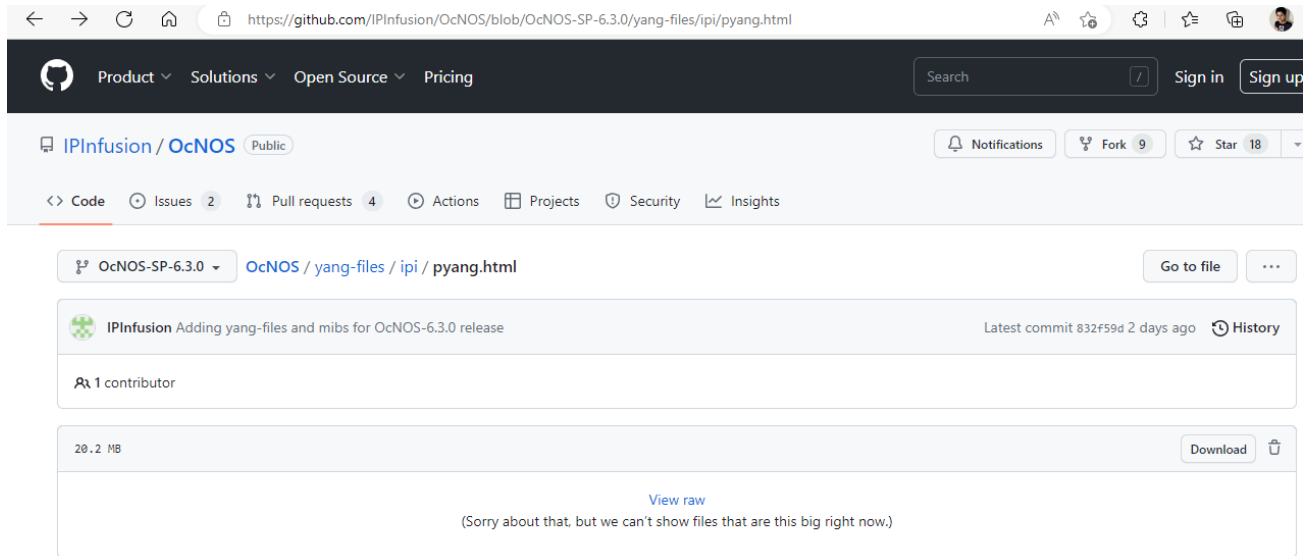
aaa	Adding yang-files and mibs for OcNOS-6.3.0 release
acl	Adding yang-files and mibs for OcNOS-6.3.0 release
alarms	Adding yang-files and mibs for OcNOS-6.3.0 release
arp	Adding yang-files and mibs for OcNOS-6.3.0 release
auth	Adding yang-files and mibs for OcNOS-6.3.0 release

2.1.2.1 IPI Pyang Tree

To access the Pyang Trees, follow these steps:

1. Scroll down to the bottom of the page and click on “pyang.html”.
2. On the Pyang page, right-click on 'view raw' and choose 'Save link as...' Do not select 'Download'.

Refer to the snapshot below:



3. After saving the pyang HTML page, user can access the Pyang tree. Once the page is open, scroll down to find the individual datamodel pyang trees. Refer to the snapshot below:

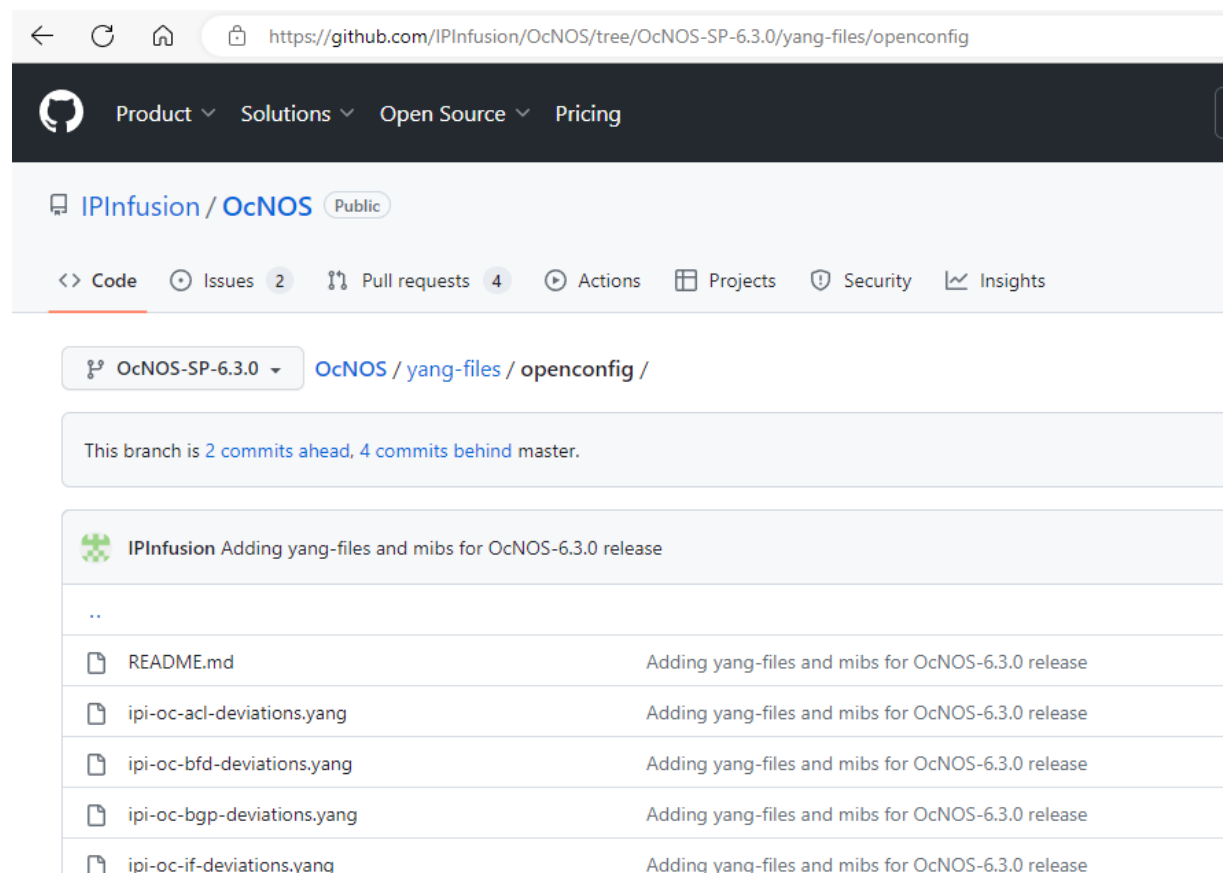
Submodule: [ipi-vrrp-global](#) (belongs-to [ipi-vrrp](#))
 Submodule: [ipi-vrrp-ipv4](#) (belongs-to [ipi-vrrp](#))
 Submodule: [ipi-vrrp-ipv6](#) (belongs-to [ipi-vrrp](#))
 Module: [ipi-vrrp-types](#), Namespace: <http://www.ipinfusion.com/yang/ocnos/ipi-vrrp-types>, Prefix: [ipi-vrrp-types](#)
 Module: [ipi-vrrp](#), Namespace: <http://www.ipinfusion.com/yang/ocnos/ipi-vrrp>, Prefix: [ipi-vrrp](#)
 Module: [ipi-vxlan-types](#), Namespace: <http://www.ipinfusion.com/yang/ocnos/ipi-vxlan-types>, Prefix: [ipi-vxlan-types](#)
 Module: [ipi-vxlan](#), Namespace: <http://www.ipinfusion.com/yang/ocnos/ipi-vxlan>, Prefix: [ipi-vxlan](#)
 Module: [ipi-watchdog-types](#), Namespace: <http://www.ipinfusion.com/yang/ocnos/ipi-watchdog-types>, Prefix: [ipi-watchdog-types](#)
 Module: [ipi-watchdog](#), Namespace: <http://www.ipinfusion.com/yang/ocnos/ipi-watchdog>, Prefix: [ipi-watchdog](#)
 Module: [ipi-xstp-types](#), Namespace: <http://www.ipinfusion.com/yang/ocnos/ipi-xstp-types>, Prefix: [ipi-xstp-types](#)
 Module: [ipi-xstp](#), Namespace: <http://www.ipinfusion.com/yang/ocnos/ipi-xstp>, Prefix: [ipi-xstp](#)
 Module: [zebm-cli](#), Namespace: <http://ipinfusion.com/ns/zebmcli>, Prefix: [zebm-cli](#)

Element [+] Expand all [-] Collapse all	Schema	Type	Flags
ipi-aaa	module		
ipi-aaa:rpcs			
ipi-acl	module		
ipi-acl:rpcs			
ipi-alarms	module		
ipi-alarms:notifs			
ipi-arp	module		
ipi-arp:rpcs			
ipi-authentication-radius	module		
ipi-authentication	module		
ipi-authentication:rpcs			
ipi-bfd	module		
ipi-bfd:rpcs			

2.1.3 OpenConfig Datamodels

OcNOS supports both native IPI models and OpenConfig standard-defined datamodels. Not all attributes of OpenConfig are supported. Some additional attributes are added in OpenConfig for operational purposes, which are defined in the IPI OpenConfig deviation yang files.

To use OpenConfig datamodels, users must combine IPI deviation files with OpenConfig yang files. Here's how to do it:



The screenshot shows the GitHub repository page for IPInfusion/OcNOS. The URL is <https://github.com/IPInfusion/OcNOS/tree/OcNOS-SP-6.3.0/yang-files/openconfig>. The repository is public. The navigation tabs include Code, Issues (2), Pull requests (4), Actions, Projects, Security, and Insights. The current branch is OcNOS-SP-6.3.0. The repository is 2 commits ahead and 4 commits behind master. A commit by IPInfusion is shown with the message "Adding yang-files and mibs for OcNOS-6.3.0 release". The files listed in the commit are:

File Name	Commit Message
README.md	Adding yang-files and mibs for OcNOS-6.3.0 release
ipi-oc-acl-deviations.yang	Adding yang-files and mibs for OcNOS-6.3.0 release
ipi-oc-bfd-deviations.yang	Adding yang-files and mibs for OcNOS-6.3.0 release
ipi-oc-bgp-deviations.yang	Adding yang-files and mibs for OcNOS-6.3.0 release
ipi-oc-if-deviations.yang	Adding yang-files and mibs for OcNOS-6.3.0 release

- Obtain the deviation files from the "yang-files/openconfig" folder on the IPInfusion GitHub.
- In this folder, a README file contains the OpenConfig SHA1 or version to be used.
- Retrieve the Yang files from the OpenConfig GitHub repository for the version specified in the IPInfusion README.

```
git clone git@github.com:openconfig/public.git openconfig/
```

```
git checkout <SHA1 or version from README>
```

```
cd openconfig/release/models
```

- After performing the git checkout, find the yang files in the "openconfig/release/models" folder.

Note: If a version is provided (starting in OcNOS 6.4.0), users can directly download the files using the version tag from the GitHub page.

Not all attributes of the OpenConfig datamodels are supported, and there are some variations in the ones that are supported. Detailed information is tabulated in the 'yang deviation' files located within the "yang-files/openconfig" folder.

2.1.3.1 OpenConfig Pyang Tree

The Pyang Tree for OpenConfig can also be found on GitHub under "yang-files/openconfig/openconfig.html".

To download the HTML file and open it, follow the same instructions provided in section [2.1.2.1 for IPI Pyang Tree](#).

This provides a consolidated view of OpenConfig support in OcNOS, including only the attributes that are supported, by incorporating the yang deviations. Refer to the snapshot below for guidance.



The screenshot displays the OpenConfig Pyang Tree. It lists several modules with their namespaces, such as `Module: ipi-oc-platform-types-deviations, Namespace: http://www.ipinfusion.com/yang/ocnos/ipi-oc-platform-types-deviations`. Below the list, there are controls for expanding or collapsing the tree. The tree view shows a list of elements like `openconfig-acl`, `openconfig-interfaces`, etc., each with a corresponding schema type like `module`.

2.2 Datamodel Location in the device

After the installation of OcNOS, all Yang models are loaded onto the device and can be found in the following location:

```
OcNOS#start-shell
bash-5.0$ cd /usr/share/yuma/modules
bash-5.0$ ls
ipi netconfcentral openconfig yang
bash-5.0$ find . | sed -e "s/[^-][^\\/]*/|/" -e "s/|\\([ ^ ]\\)/|-\\1/"
.
|-ipi
|tfo
|ipi-tfo.yang
|ipi-tfo-types.yang
|network-instance
|ipi-network-instance.yang
|ipi-network-instance-types.yang
|common
.....
```

Use the "find" command to explore the available models further.

3. Datamodel Documentation

3.1 NetConf Command Reference

Document name: *OcNOS-[SKU]-NetConf_CmdRef*

This document provides detailed information on the XML payload for NetConf, the corresponding CLI, and descriptions of each attribute.

3.2 OpenConfig Command Reference

Document name: *OpenConfig Command Reference*

This document offers insights into the XML payload for OpenConfig, the corresponding OcNOS CLI, and the OcNOS NetConf payload for each attribute.

4. OcNOS Datamodels

OcNOS has three different types of Yang datamodels:

- NetConf datamodels
- IPI datamodels
- OpenConfig datamodels

4.1 NetConf datamodels

The NetConf datamodels define the functionality of the NetConf protocol itself, along with other utilities required for its functioning.

Here is a list of the Yang files in the NetConf datamodels:

- **yang**
 - ietf-netconf-monitoring.yang
 - ietf-yang-smiv2.yang
 - ietf-interfaces.yang
 - ietf-yang-types.yang
 - ietf-netconf-partial-lock.yang
 - yang-smi.yang
 - iana-if-type.yang
 - ietf-system.yang
 - ietf-inet-types.yang
 - ietf-netconf.yang
 - ietf-netconf-with-defaults.yang
 - iana-crypt-hash.yang
 - nc-notifications.yang
 - ietf-netconf-notifications.yang
 - ietf-netconf-acm.yang

- **netconfcentral**
 - yuma-ncx.yang
 - yuma-time-filter.yang
 - yuma-mysession.yang
 - yuma-nacm.yang
 - yuma-netconf.yang
 - yuma-types.yang
 - yuma-xsd.yang
 - yuma-proc.yang
 - yuma-system.yang
 - yuma-app-common.yang
 - netconfd.yang
 - notifications.yang
 - yangcli.yang

4.2 IPI OcNOS Datamodels

The IPI datamodels represent the "native" yang datamodels used in OcNOS. While these datamodels adhere to the OpenConfig `style`, they have a distinct structure and hierarchy that reflects how data is modeled within OcNOS.

Starting with OcNOS 6.2.0, the OcNOS datamodels are available for ALL features within OcNOS. Depending on user specific OcNOS SKU, use the corresponding feature datamodels. NetConf support is provided for all these datamodels. Additionally, all features developed in OcNOS in future versions will come with built-in datamodels and NetConf support.

Here is a list of the supported Yang files in the IPI OcNOS datamodels:

- **ipi**
 - aaa
 - ipi-aaa.yang
 - ipi-aaa-types.yang
 - acl
 - ipi-acl.yang
 - ipi-acl-arp.yang
 - ipi-acl-common.yang
 - ipi-acl-ipv6.yang
 - ipi-acl-mac.yang
 - ipi-acl-ports.yang
 - ipi-acl-types.yang
 - alarms
 - ipi-alarms.yang
 - ipi-alarms-types.yang
 - arp

- ipi-arp.yang
- ipi-arp-types.yang
- ipi-nsm-arp.yang

- auth
 - ipi-authentication.yang
 - ipi-authentication-dot1x-interface.yang
 - ipi-authentication-mac-interface.yang
 - ipi-authentication-radius.yang
 - ipi-authentication-types.yang

- bfd
 - ipi-bfd.yang
 - ipi-bfd-common.yang
 - ipi-bfd-interface.yang
 - ipi-bfd-session.yang
 - ipi-bfd-types.yang
 - ipi-mpls-bfd-session.yang

- bgp
 - ipi-bgp.yang
 - ipi-bgp-address-family.yang
 - ipi-bgp-address-family-vrf.yang
 - ipi-bgp-common.yang
 - ipi-bgp-epe.yang
 - ipi-bgp-evpn-rib.yang
 - ipi-bgp-flowspec.yang
 - ipi-bgp-flowspec-types.yang
 - ipi-bgp-instance.yang
 - ipi-bgp-link-state.yang
 - ipi-bgp-peer.yang
 - ipi-bgp-peer-group.yang
 - ipi-bgp-types.yang
 - ipi-bgp-vrf.yang

- bridge
 - ipi-bridge.yang
 - ipi-bridge-types.yang
 - bridge-domain
 - ipi-bridge-domain.yang

- cfm
 - ipi-cfm.yang
 - ipi-cfm-common.yang
 - ipi-cfm-data-types.yang
 - ipi-cfm-nvo3-oam.yang
 - ipi-cfm-y1731.yang

- common
 - cml-data-types.yang
 - feature-list.yang
 - zebm-cli.yang
- cross-connect
 - ipi-cross-connect.yang
 - ipi-cross-connect-types.yang
 - ipi-vlan-xc.yang
 - ipi-vlan-xc-types.yang
- crypto
 - ipi-crypto.yang
 - customstats
 - ipi-customstats.yang
- dcb
 - ipi-dcb.yang
 - ipi-dcb-common.yang
 - ipi-dcb-interface.yang
 - ipi-dcb-types.yang
- delay-profile
 - ipi-delay-profile.yang
- dhcp
 - ipi-dhcp.yang
 - ipi-dhcp-client.yang
 - ipi-dhcp-relay.yang
 - ipi-dhcp-relay-types.yang
 - ipi-dhcp-server.yang
 - ipi-dhcp-snooping.yang
 - ipi-dhcp-snooping-interface.yang
 - ipi-dhcp-snooping-types.yang
- dns
 - ipi-dns-relay.yang
- efm
 - ipi-efm.yang
 - ipi-efm-types.yang
- elk

- ipi-elk.yang
- enhanced-pbr
- ipi-enhanced-pbr.yang
- ipi-enhanced-pbr-types.yang
- erpsv2
- ipi-erpsv2.yang
- ipi-erpsv2-types.yang
- ethernet-vpn
- ipi-ethernet-vpn.yang
- ipi-ethernet-vpn-types.yang
- event-manager
- ipi-event-manager.yang
- ipi-event-manager-types.yang
- evpn-mpls
- ipi-evpn-mpls.yang
- ipi-evpn-mpls-types.yang
- evpn-srv6
- ipi-evpn-srv6.yang
- Flexe
 - ipi-flexe.yang
 - ipi-flexe-client.yang
 - ipi-flexe-group.yang
 - ipi-flexe-types.yang
- g8031
- ipi-g8031.yang
- ipi-g8031-elps.yang
- ipi-g8031-elps-types.yang
- hostp
- ipi-vm.yang
- ipi-vm-types.yang
- if-flowspec
- ipi-if-flowspec.yang

- igp-te
- ipi-igp-te.yang
- interface
 - ipi-if-ethernet.yang
 - ipi-if-extended.yang
 - ipi-if-ip.yang
 - ipi-if-lbd.yang
 - ipi-if-types.yang
 - ipi-interface.yang
- ipsec
 - ipi-ipsec.yang
 - ipi-ipsec-interface.yang
 - ipi-ipsec-types.yang
- ip-sla
 - ipi-ip-sla.yang
- isis
 - ipi-isis.yang
 - ipi-isis-cspf.yang
 - ipi-isis-extended.yang
 - ipi-isis-fad.yang
 - ipi-isis-global-flxalg.yang
 - ipi-isis-interface.yang
 - ipi-isis-interface-flxalg.yang
 - ipi-isis-lsp.yang
 - ipi-isis-lsp-flxalg.yang
 - ipi-isis-sr.yang
 - ipi-isis-types.yang
- key-chain
 - ipi-keychain.yang
- l2vpn
 - ipi-l2vpn-vpls.yang
 - ipi-l2vpn-vpws.yang
 - ipi-vpls-types.yang
 - ipi-vpws-types.yang
- lag
 - ipi-if-aggregate.yang
 - ipi-lacp.yang

- ipi-lacp-types.yang
- ipi-lag-types.yang

- lb
 - ipi-lb.yang
 - ipi-lb-group.yang
 - ipi-lb-modem.yang
 - ipi-lb-types.yang

- ldp
 - ipi-ldp.yang
 - ipi-ldp-interface.yang
 - ipi-ldp-l2vpn.yang
 - ipi-ldp-peer.yang
 - ipi-ldp-types.yang

- license
 - ipi-license.yang
 - ipi-license-types.yang

- lldp
 - ipi-lldp-types.yang
 - ipi-lldpv2.yang

- macsec
 - ipi-macsec.yang
 - ipi-macsec-interface.yang
 - ipi-macsec-types.yang

- management-server
 - ipi-management-server.yang
 - ipi-management-server-notification.yang
 - ipi-management-server-notification-types.yang
 - ipi-management-server-types.yang

- mlag
 - ipi-mcec.yang
 - ipi-mcec-types.yang
 - ipi-mlag.yang
 - ipi-mlag-types.yang

- mpls
 - ipi-mpls.yang
 - ipi-mpls-bfd.yang

- ipi-mpls-rib.yang
- ipi-mpls-types.yang

- multicast
 - ipi-igmp.yang
 - ipi-igmp-groups.yang
 - ipi-igmp-interface.yang
 - ipi-igmp-snooping.yang
 - ipi-igmp-snooping-types.yang
 - ipi-igmp-types.yang
 - ipi-mld.yang
 - ipi-mld-groups.yang
 - ipi-mld-interface.yang
 - ipi-mld-snooping.yang
 - ipi-mld-snooping-types.yang
 - ipi-mld-types.yang
 - ipi-mrib.yang
 - ipi-mrib-common.yang
 - ipi-mrib-ipv4.yang
 - ipi-mrib-ipv6.yang
 - ipi-mrib-types.yang

- nat
 - ipi-network-address-translation.yang
 - ipi-network-address-translation-interface.yang
 - ipi-network-address-translation-types.yang

- neighbor-discovery
 - ipi-nd-types.yang
 - ipi-neighbor-discovery.yang
 - ipi-nsm-neighbor-discovery.yang

- network-instance
 - ipi-network-instance.yang
 - ipi-network-instance-types.yang

- ntp
 - ipi-ntp.yang
 - ipi-ntp-types.yang

- object-tracking
 - ipi-object-tracking.yang
 - ipi-object-tracking-types.yang

- ospf

- ipi-ospf.yang
- ipi-ospf-area.yang
- ipi-ospf-authentication.yang
- ipi-ospf-debug.yang
- ipi-ospf-distribute-lists.yang
- ipi-ospf-global.yang
- ipi-ospf-interface.yang
- ipi-ospf-interface-common.yang
- ipi-ospf-interface-tracking.yang
- ipi-ospf-interface-tracking-types.yang
- ipi-ospf-multi-area-interface.yang
- ipi-ospf-processes-state.yang
- ipi-ospf- redistribute.yang
- ipi-ospf-te-link.yang
- ipi-ospf-timers.yang
- ipi-ospf-types.yang

- ospfv3
 - ipi-ospfv3.yang
 - ipi-ospfv3-address-family.yang
 - ipi-ospfv3-area.yang
 - ipi-ospfv3-area-state.yang
 - ipi-ospfv3-debug.yang
 - ipi-ospfv3-distribute-list.yang
 - ipi-ospfv3-global.yang
 - ipi-ospfv3-interface.yang
 - ipi-ospfv3-interface-state.yang
 - ipi-ospfv3-process-state.yang
 - ipi-ospfv3- redistribute.yang
 - ipi-ospfv3-types.yang

- pbr
 - ipi-pbr.yang

- pcep
 - ipi-pcep.yang
 - ipi-pcep-lsp.yang
 - ipi-pcep-peer.yang
 - ipi-pcep-stats.yang
 - ipi-pcep-types.yang

- pim
 - ipi-pim.yang
 - ipi-pim-debug.yang
 - ipi-pim-ipv4.yang
 - ipi-pim-ipv4-bidir.yang
 - ipi-pim-ipv4-debug.yang
 - ipi-pim-ipv4-interface.yang
 - ipi-pim-ipv4-msdp.yang
 - ipi-pim-ipv4-redundancy.yang

- ipi-pim-ipv4-types.yang
- ipi-pim-ipv6.yang
- ipi-pim-ipv6-debug.yang
- ipi-pim-ipv6-interface.yang
- ipi-pim-ipv6-state.yang
- ipi-pim-ipv6-types.yang

- ping

- ipi-ping.yang
- ipi-ping-types.yang

- platform
 - ipi-platform.yang
 - ipi-platform-ceragon.yang
 - ipi-platform-ceragon-types.yang
 - ipi-platform-chassis.yang
 - ipi-platform-cmis.yang
 - ipi-platform-cmis-types.yang
 - ipi-platform-cpu.yang
 - ipi-platform-edfa.yang
 - ipi-platform-fan.yang
 - ipi-platform-fan-tray.yang
 - ipi-platform-linecard.yang
 - ipi-platform-port.yang
 - ipi-platform-power-rail.yang
 - ipi-platform-power-supply.yang
 - ipi-platform-profile.yang
 - ipi-platform-profile-extended.yang
 - ipi-platform-ram.yang
 - ipi-platform-sff8024-types.yang
 - ipi-platform-smart-sfp.yang
 - ipi-platform-storage.yang
 - ipi-platform-temperature.yang
 - ipi-platform-terminal-device.yang
 - ipi-platform-terminal-device-types.yang
 - ipi-platform-transceiver.yang
 - ipi-platform-transceiver-smart-sfp.yang
 - ipi-platform-transceiver-tibit.yang
 - ipi-platform-transceiver-tibit-types.yang
 - ipi-platform-transceiver-types.yang
 - ipi-platform-types.yang
 - ipi-transport-line-common.yang

- pon
 - ipi-pon.yang
 - ipi-pon-flow.yang
 - ipi-pon-olt.yang
 - ipi-pon-onu.yang
 - ipi-pon-onu-software-upgrade.yang
 - ipi-pon-profile.yang
 - ipi-pon-profile-onu.yang

- ipi-pon-profile-translation.yang
- ipi-pon-types.yang

- port-breakout
 - ipi-port-breakout.yang
 - ipi-port-breakout-interface.yang
 - ipi-port-breakout-types.yang

- port-mirror
 - ipi-port-mirror.yang
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- prefix-list
 - ipi-prefix-list.yang
 - ipi-prefix-list-types.yang

- ptp
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 - ipi-ptp-types.yang

- qos
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 - ipi-rib-vrf.yang

- rip
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- ipi-rip-common.yang
- ipi-rip-types.yang
- ipi-rip-vrf.yang

- ripng
 - ipi-ripng.yang
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- route-map
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- rsvp
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 - ipi-segment-routing-policy-flxalg.yang

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- ipi-service-tracking-types.yang
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- ipi-sflow-interface.yang
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- ipi-sflow-types.yang
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- ipi-source-interface-types.yang
- streaming-telemetry
- ipi-streaming-telemetry.yang
- ipi-streaming-telemetry-types.yang
- synce
- ipi-synce.yang
- ipi-synce-types.yang
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- ipi-logging-cli.yang
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- ipi-logging-remote.yang
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- ipi-network-services-manager-types.yang
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- ipi-snmp-server-extended.yang
- ipi-snmp-server-extended-types.yang
- ipi-snmp-types.yang
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- ipi-ssh-types.yang
- ipi-sys-mgmt.yang
- ipi-sys-notifications.yang
- ipi-system.yang
- ipi-sys-update.yang
- ipi-sys-update-types.yang
- ipi-telnet.yang
- ipi-user-session.yang
- ipi-user-session-management.yang

- ipi-user-session-management-types.yang
- ipi-user-session-types.yang
- ipi-watchdog.yang
- ipi-watchdog-types.yang
- ipi-bgnos-update-notifications.yang

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 - ipi-tacacs-types.yang

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- urpf
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- vlan

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- ipi-port-vlan-types.yang
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- ipi-vlan-types.yang

- vrf

- ipi-vrf.yang

- vrrp

- ipi-vrrp.yang
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- ipi-vrrp-debug.yang
- ipi-vrrp-global.yang
- ipi-vrrp-ipv4.yang
- ipi-vrrp-ipv6.yang
- ipi-vrrp-types.yang

- vxlan

- ipi-vxlan.yang
- ipi-vxlan-types.yang

- xstp

- ipi-xstp.yang
- ipi-xstp-types.yang

4.3 OpenConfig Datamodels

OpenConfig support is available in OcNOS for the following modules.

Notes:

- Not all attributes of the OpenConfig datamodels are supported. Attributes that are not supported are mentioned in the deviation files, which can be found under "yang-files/openconfig" on GitHub. For more details, refer to section [2.1.3 OpenConfig Datamodels](#). To see the actual supported OpenConfig datamodels and attributes, refer to section [2.1.3.1 OpenConfig Pyang Tree](#).
- OpenConfig support is available only through the NetConf. As of the current date, OcNOS does not support the gNMI interface. Therefore, access configuration and operational data of OcNOS in OpenConfig format only via NetConf.

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- **openconfig**
 - acl
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 - openconfig-acl@2023-01-29
 - openconfig-icmpv4-types@2023-01-26
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 - openconfig-aft-mpls@2022-06-16
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 - openconfig-bgp-common-structure@2022-12-12
 - openconfig-bgp-errors@2021-08-06
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 - openconfig-bgp-neighbor@2022-12-12
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 - openconfig-if-aggregate@2022-06-28
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 - openconfig-isis-routing@2023-03-20
 - openconfig-isis-types@2022-02-11
 - keychain
 - openconfig-keychain@2022-11-05
 - openconfig-keychain-types@2022-03-01
 - lacp
 - ipi-oc-lacp-deviations@2023-05-04
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 - lldp
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 - openconfig-lldp@2018-11-21

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 - openconfig-mpls-rsvp@2022-03-27
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 - openconfig-network-instance-types@2021-07-14
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 - ipi-oc-terminal-device-deviations@2024-02-01
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 - openconfig-terminal-device@2021-07-29
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 - openconfig-ospf-types@2018-11-21
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 - openconfig-ospfv2-common@2022-02-10
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 - ipi-oc-platform-deviations@2024-04-09
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 - ipi-oc-platform-types-deviations@2021-01-29
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- openconfig-platform-types@2022-07-28
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 - openconfig-pf-forwarding-policies@2022-01-25
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- rib
 - openconfig-rib-bgp@2022-12-20
 - openconfig-rib-bgp-attributes@2022-12-20
 - openconfig-rib-bgp-ext@2019-04-25
 - openconfig-rib-bgp-shared-attributes@2022-12-20
 - openconfig-rib-bgp-table-attributes@2022-12-20
 - openconfig-rib-bgp-tables@2022-12-20
 - openconfig-rib-bgp-types@2019-03-14
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 - openconfig-segment-routing@2021-07-28
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 - ipi-oc-messages-deviations@2022-01-19
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 - openconfig-messages@2018-08-13
 - openconfig-procmon@2019-03-15
 - openconfig-system@2022-12-20
 - openconfig-system-logging@2022-12-29
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 - openconfig-inet-types@2023-02-06
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