ipinfusion™

OcNOS®

Open Compute Network Operating System for Data Centers

Data Model Reference

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IP Infusion Inc. Proprietary

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ABOUT THIS DOCUMENT

The OcNOS Data Model Reference provides a complete reference to the YANG-based data models supported in the OcNOS network operating system. The guide mainly explains where to obtain the model files and how they relate to network management interfaces such as NETCONF and OpenConfig.

This document serves as the central resource for understanding the hierarchical organization of OcNOS data models, how data is modeled for programmatic access, and how to interpret model elements when integrating with automation and orchestration tools. It includes references to associated command references and provides examples for navigating and using the models effectively.

Target Users

This guide is intended for:

- Network automation engineers developing integrations using YANG data models
- Developers and architects building management and orchestration tools
- Platform engineers accessing operational state and configuration via standard protocols
- Support engineers in troubleshooting data model mappings and API behaviors
- Technical planners evaluating model-based management for OcNOS deployments

Key Capabilities

This guide enables users to:

- Explore the complete set of YANG modules that define OcNOS configuration and state
- Identify where and how data models are stored on devices or accessed from repositories
- Work with both native IPI data models and OpenConfig-aligned models
- Locate model files in source repositories and on installed devices
- Reference related command references, such as NetConf and OpenConfig command payloads

Quick Links

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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.

Get the Data Models

The datamodels can be retrieved from the following locations:

- Github
- OcNOS installed devices

Data Model Location in GitHub

Users can access the YANG data models on GitHub through the following link: GitHub - IPInfusion/OcNOS: OcNOS™ Network Operating System.

Notes:

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:

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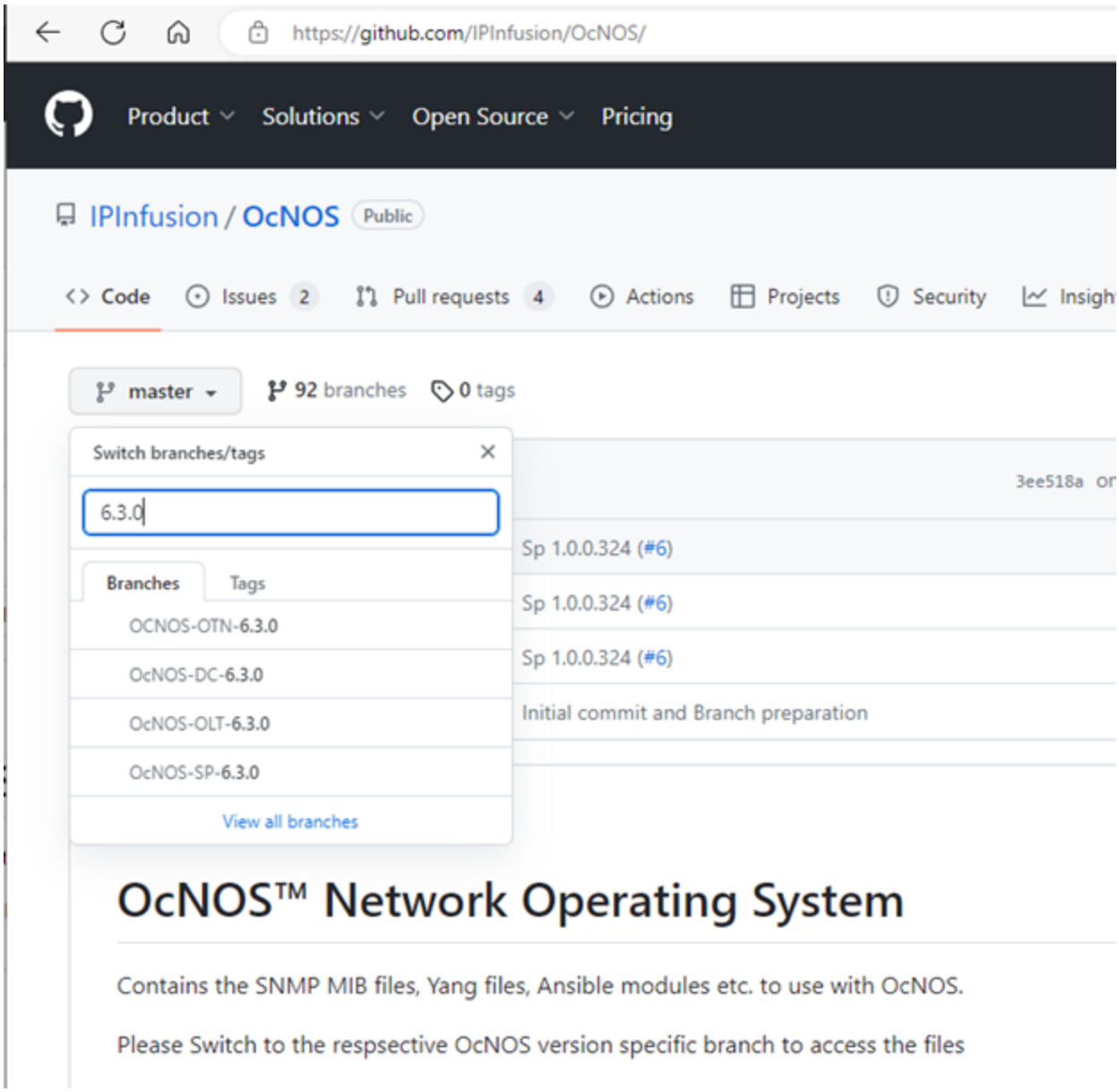

Yang Data models

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:

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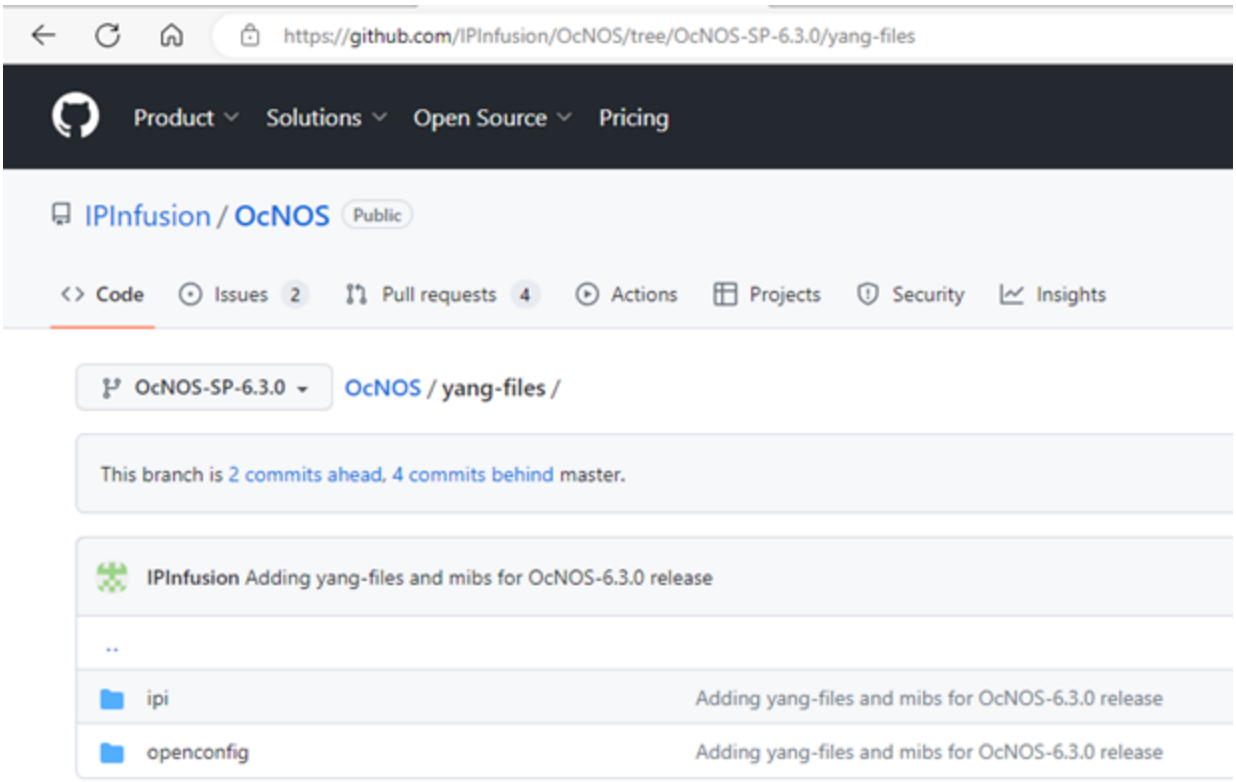

IPI Datamodels

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. The user can find these datamodels inside the "`yang-files/ipi`" folder on GitHub. Here is a snapshot for reference:

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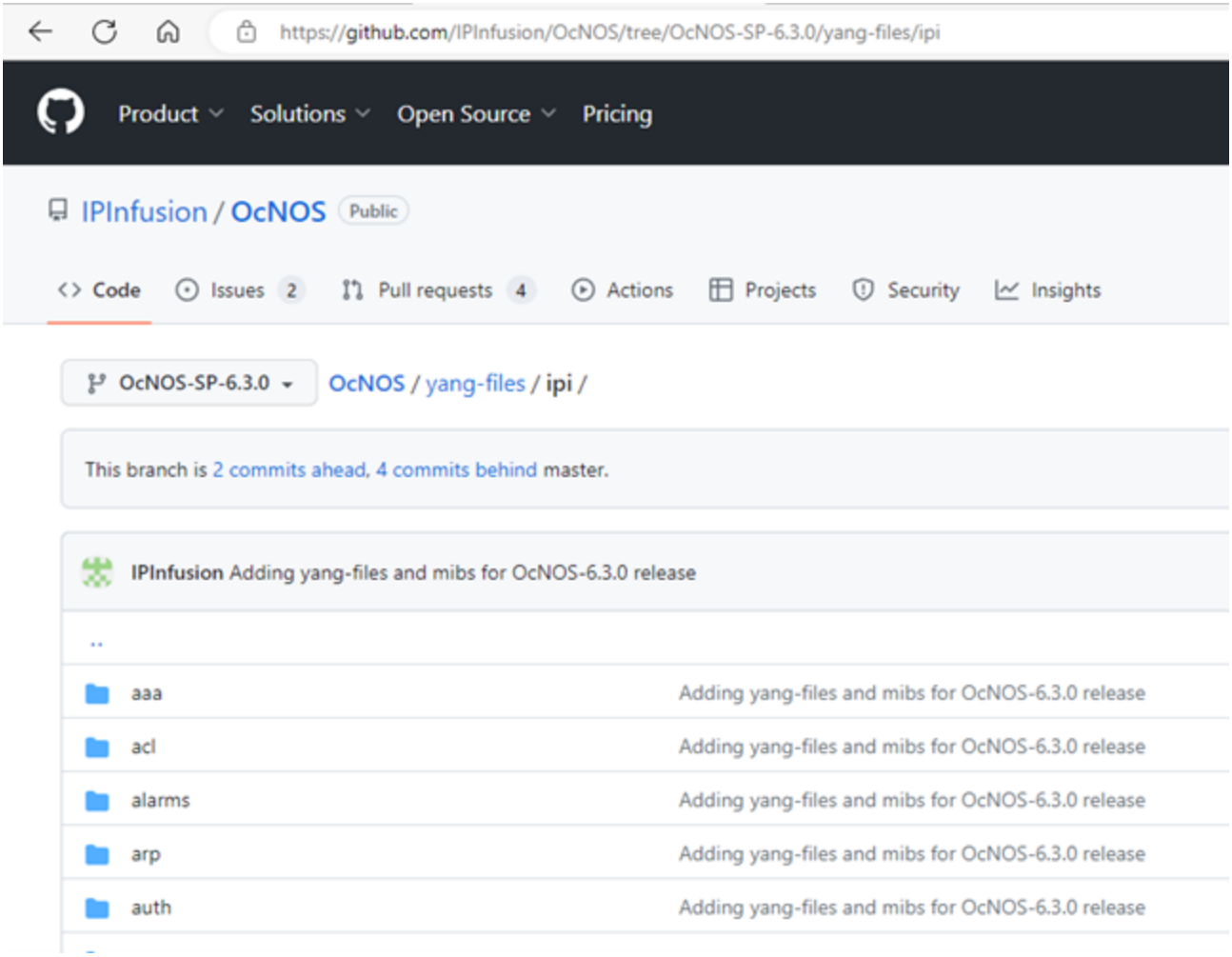
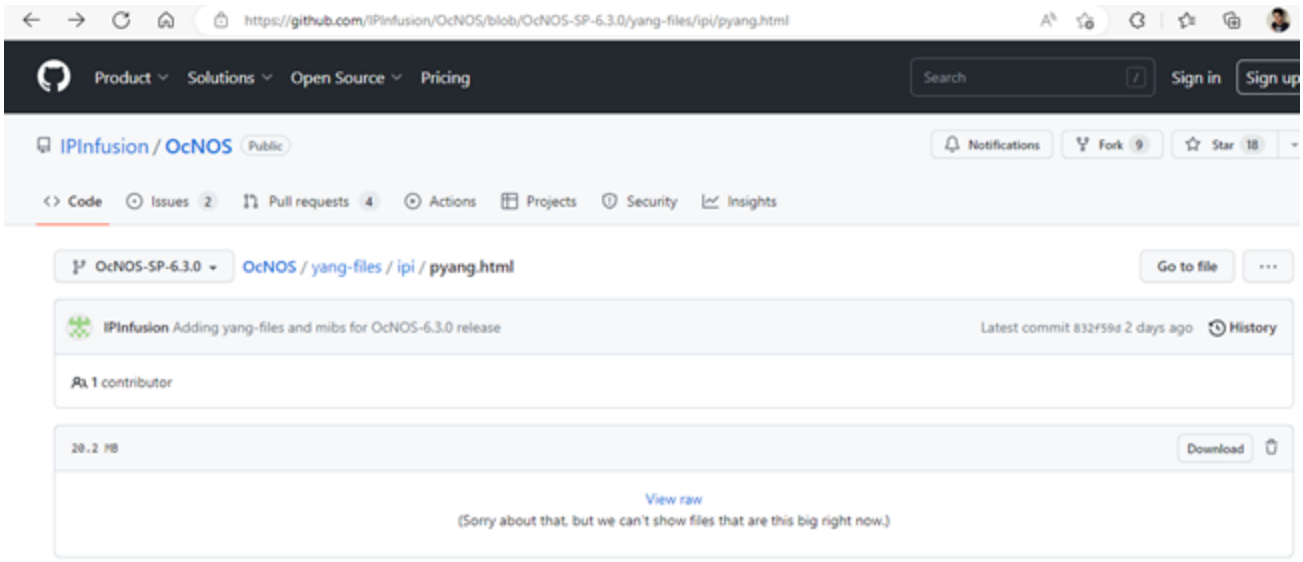


IPI Pyang Tree

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, the 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:

OpenConfig Datamodels

OcNOS supports both native IPI models and OpenConfig standard-defined data models. However, not all OpenConfig attributes are supported. Some additional attributes are added in OpenConfig for operational purposes, and these 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:

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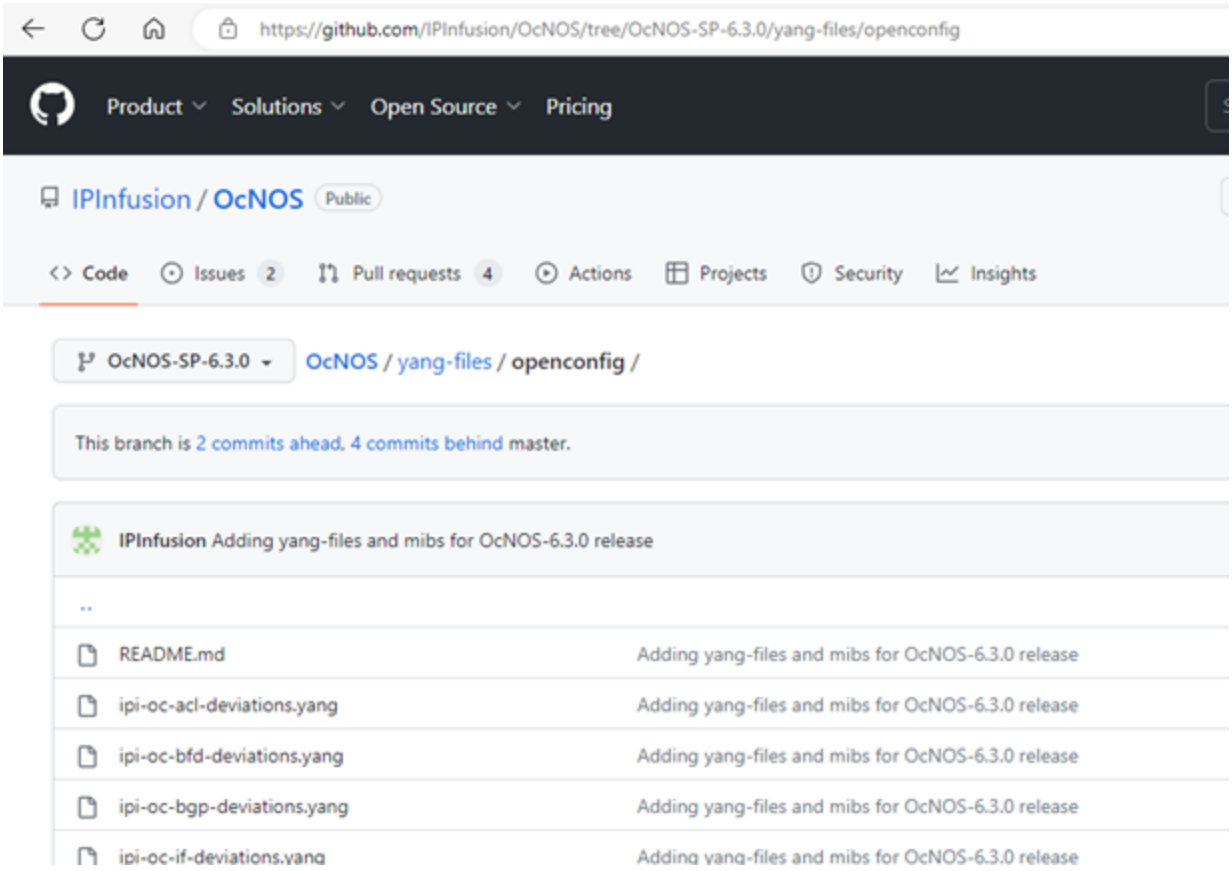

- Obtain the deviation files from the "`yang-files/openconfig`" folder on the IPInfusion GitHub.
- In this folder, a `README` file contains the OpenConfig `SHA1 or version` to be used.
- Retrieve the Yang files from the OpenConfig GitHub repository for the version specified in the IPInfusion README.

```
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/model`s" folder.

Notes:

- 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.

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 IPI Pyang Tree (page 10).

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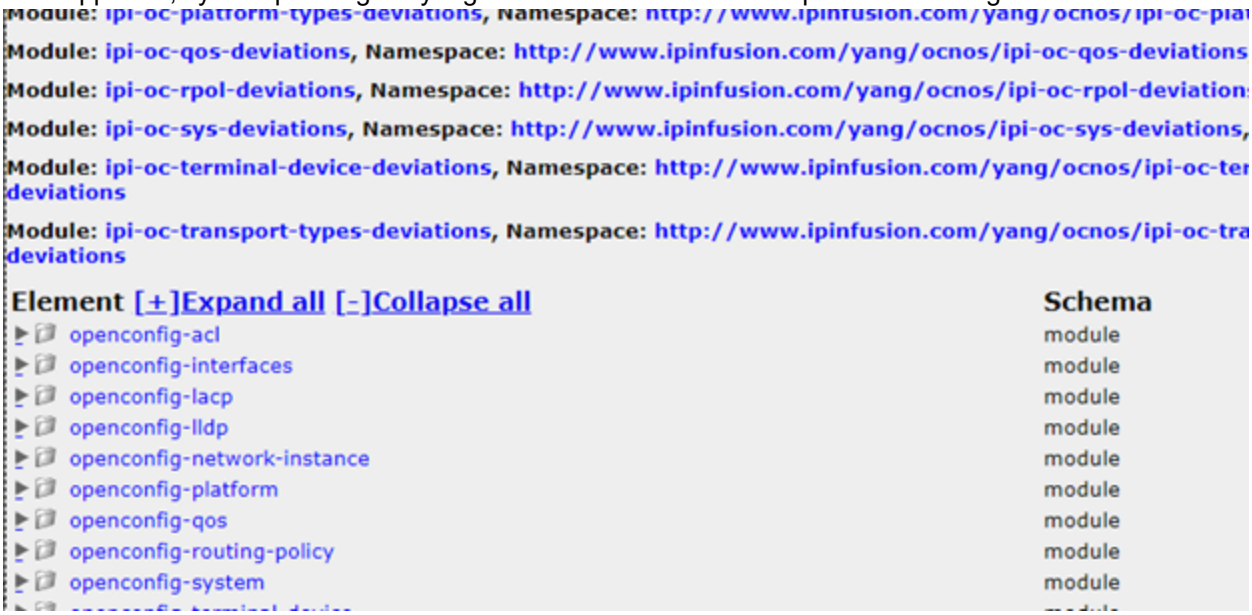
- This provides a consolidated view of OpenConfig support in OcNOS, including only the attributes that are supported, by incorporating the yang deviations. Refer to the snapshot below for guidance.



Data Model 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/[^-][^\/]*\// |/g" -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.

Data Model Documentation

NetConf Command Reference

Document name: NetConf Command Reference

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

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.

OCNOS DATAMODELS

OcNOS has three different types of Yang datamodels:

- NetConf Data Models (page 14)
- IPI OcNOS Data Models (page 15)
- OpenConfig Data Models (page 31)

NetConf Data Models

The NetConf data models 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

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- 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

IPI OcNOS Data Models

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-copp.yang
- ipi-acl-ipv6.yang
- ipi-acl-mac.yang
- ipi-acl-ports.yang
- ipi-acl-types.yang

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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

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- ipi-bgp-vrf.yang

bridge

- ipi-bridge.yang
- ipi-bridge-types.yang
- 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
- ipi-crypto-types.yang
- 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

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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

edpl

- ipi-edpl.yang
- ipi-edpl-types.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

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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

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- 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

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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

mac-limit-profile

- ipi-mac-limit.yang

mac-list

- ipi-mac-list.yang
- ipi-mac-list-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

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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

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- 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

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- 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

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- ipi-platform-power-supply.yang
- ipi-platform-profile.yang
- ipi-platform-profile-extended.yang
- ipi-platform-profile-types.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
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port-mirror

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- ipi-port-mirror-types.yang

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- ipi-qos.yang
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- ipi-rip-vrf.yang

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- ipi-ripng-vrf.yang

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sbfd

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source-interface

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- ipi-streaming-telemetry.yang
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- ipi-logging-remote.yang
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- ipi-system.yang
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- ipi-sys-update-types.yang
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urpf

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- ipi-role-based-access-control.yang
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- ipi-user-management-types.yang

vlan

- ipi-port-vlan.yang
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- ipi-vrrp-common.yang
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xstp

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- ipi-xstp-types.yang

OpenConfig Data Models

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 About This Document (page 6). To see the actual supported OpenConfig datamodels and attributes, refer to section About This Document (page 6).
- 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.
  `Date: 06/04/2024`
  `Version tag: v4.2.0`
  `SHA1: c00868ed96e8e48993e26d8fba20f093722c0e39`

openconfig

acl

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bfd

- ipi-oc-bfd-deviations.yang

interfaces

- ipi-oc-if-deviations.yang

lacp

- ipi-oc-lacp-deviations.yang

lldp

- ipi-oc-lldp-deviations.yang

system

- ipi-oc-messages-deviations.yang

ni

- ipi-oc-ni-augments.yang
- ipi-oc-ni-deviations.yang

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platform

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- ipi-oc-platform-transceiver-deviations.yang
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platform

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system

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terminal device

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- ipi-oc-terminal-device-properties-augments.yang
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