



Extreme ONE OS Switching v22.2.0.0 YANG Reference Guide

OpenConfig Modules, Extensions, and Configuration Paths

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Preface

Read the following topics to learn about:

- The meanings of text formats used in this document.
- Where you can find additional information and help.
- How to reach us with questions and comments.

Text Conventions

Unless otherwise noted, information in this document applies to all supported environments for the products in question. Exceptions, like command keywords associated with a specific software version, are identified in the text.

When a feature, function, or operation pertains to a specific hardware product, the product name is used. When features, functions, and operations are the same across an entire product family, such as Extreme Switching switches or routers, the product is referred to as *the switch* or *the router*.

Table 1: Notes and warnings

Icon	Notice Type	Alerts you to...
	Tip	Helpful tips and notices for using the product
	Note	Useful information or instructions
	Important	Important features and instructions
	Caution	Risk of personal injury, system damage, or loss of data
	Warning	Risk of severe personal injury

Table 2: Text

Convention	Description
screen displays	This typeface indicates command syntax, or represents information as it is displayed on the screen.

The words <i>enter</i> and <i>type</i>	When you see the word <i>enter</i> in this guide, you must type something, and then press the Return or Enter key. Do not press the Return or Enter key when an instruction simply says <i>type</i> .
Key names	Key names are written in boldface, for example Ctrl or Esc . If you must press two or more keys simultaneously, the key names are linked with a plus sign (+). Example: Press Ctrl+Alt+Del
<i>Words in italicized type</i>	Italics emphasize a point or denote new terms at the place where they are defined in the text. Italics are also used when referring to publication titles.
NEW!	New information. In a PDF, this is searchable text.

Table 3: Command syntax

Convention	Description
bold text	Bold text indicates command names, keywords, and command options.
<i>italic text</i>	Italic text indicates variable content.
[]	Syntax components displayed within square brackets are optional. Default responses to system prompts are enclosed in square brackets.
{ x y z }	A choice of required parameters is enclosed in curly brackets separated by vertical bars. You must select one of the options.
x y	A vertical bar separates mutually exclusive elements.
< >	Nonprinting characters, such as passwords, are enclosed in angle brackets.
...	Repeat the previous element, for example, <i>member [member...]</i> .
\	In command examples, the backslash indicates a “soft” line break. When a backslash separates two lines of a command input, enter the entire command at the prompt without the backslash.

Documentation and Training

Find Extreme Networks product information at the following locations:

[Current Product Documentation](#)

[Release Notes](#)

[Hardware and software Compatibility](#) for Extreme Networks products

[Extreme Optics Compatibility](#)

[Other resources](#) such as white papers, data sheets, and case studies

Extreme Networks offers product training courses, both online and in person, as well as specialized certifications. For details, visit www.extremenetworks.com/education/.

Getting Help

If you require assistance, contact Extreme Networks using one of the following methods:

Extreme Portal

Search the GTAC (Global Technical Assistance Center) knowledge base, manage support cases and service contracts, download software, and obtain product licensing, training, and certifications.

The Hub

A forum for Extreme Networks Tenants to connect with one another, answer questions, and share ideas and feedback. This community is monitored by Extreme Networks employees but is not intended to replace specific guidance from GTAC.

Call GTAC

For immediate support: (800) 998 2408 (toll-free in U.S. and Canada) or 1 (408) 579 2826.

For the support phone number in your country, visit:

www.extremenetworks.com/support/contact

Before contacting Extreme Networks for technical support, have the following information ready:

- Your Extreme Networks service contract number and/or serial numbers for all involved Extreme Networks products
- A description of the failure
- A description of any action(s) already taken to resolve the problem
- A description of your network environment (such as layout, cable type, other relevant environmental information)
- Network load at the time of trouble (if known)

- The device history (for example, if you have returned the device before, or if this is a recurring problem)
- Any related RMA (Return Material Authorization) numbers

Subscribe to Product Announcements

You can subscribe to email notifications for product and software release announcements, Field Notices, and Vulnerability Notices.

1. Go to [The Hub](#).
2. In the list of categories, expand the **Product Announcements** list.
3. Select a product for which you would like to receive notifications.
4. Select **Subscribe**.
5. To select additional products, return to the **Product Announcements** list and repeat steps 3 and 4.

You can modify your product selections or unsubscribe at any time.

Providing Feedback

The Information Development team at Extreme Networks has made every effort to ensure the accuracy and completeness of this document. We are always striving to improve our documentation and help you work better, so we want to hear from you. We welcome all feedback, but we especially want to know about:

- Content errors, or confusing or conflicting information.
- Improvements that would help you find relevant information in the document.
- Broken links or usability issues.

If you would like to provide feedback, you can do so in three ways:

- In a web browser, select the feedback icon and complete the online feedback form.
- Access the feedback form at <https://www.extremenetworks.com/documentation-feedback/>.
- Email us at documentation@extremenetworks.com.

Provide the publication title, part number, and as much detail as possible, including the topic heading and page number if applicable, as well as your suggestions for improvement.

Abstract

The Extreme ONE OS Switching v22.1.6.0 YANG Reference Guide provides comprehensive technical specifications and implementation guidelines for YANG modules within the Extreme ONE OS Switching. It specifies the structure and behavior of OpenConfig-compliant modules and vendor-specific extensions used to manage network instances, interfaces, protocols, VLANs, static routes, transceivers, and system services. The guide includes detailed path hierarchies, configuration containers, and operational state nodes for elements such as VXLAN overlays, EVPN instances, BGP peer groups, L2VPN MAC learning, and tunnel encapsulation. It also documents telemetry counters for interface statistics, CPU and memory utilization, and optical metrics like laser bias current and chromatic dispersion. Advanced constructs include programming error tracking, route policy actions, and authentication mechanisms via AAA, RADIUS, TACACS+, and LDAP. System-level configurations cover SNMP, NTP, DNS, ZTP, SSH, GRUB, and CLI behavior. Designed for integration with NETCONF/RESTCONF-based management systems, the guide supports automation and validation workflows in SDN environments and assumes familiarity with YANG modeling and OpenConfig conventions.

YANG Module – Extreme ONE OS Base

The following table captures the OpenConfig YANG data modules that are supported by Extreme ONE OS Base.

Module Name	Version
openconfig-platform	0.30.0
openconfig-lldp	0.2.1
openconfig-system	0.16.1
openconfig-network-instance	4.0.0
openconfig-interfaces	2.5.0
openconfig-keychain	0.4.0

module: openconfig-network-instance

+--rw network-instances

+---rw network-instance* [name]

+---rw name -> ../config/name

+---rw config

| +---rw name? string

| +---rw type identityref

| +---rw description? string

| +---rw router-id? oc-yang:dotted-quad

| +---rw fallback-network-instance? network-instance-ref

| +---rw extr-ni-ext:sub-type? identityref

| +---rw extr-ni-ext:statistics? boolean

+---ro state

| +---ro name? string

| +---ro type identityref

| +---ro description? string

| +---ro router-id? oc-yang:dotted-quad

| +---ro fallback-network-instance? network-instance-ref

| +---ro extr-ni-ext:network-instance-id? uint32

| +---ro extr-ni-ext:sub-type? identityref

| +---ro extr-ni-ext:statistics? boolean

| +---ro extr-ni-ext:counters

| +---ro extr-ni-ext:in-octets? oc-yang:counter64

| +---ro extr-ni-ext:in-pkts? oc-yang:counter64

| +---ro extr-ni-ext:out-octets? oc-yang:counter64

| +---ro extr-ni-ext:out-pkts? oc-yang:counter64

+---rw table-connections

| +---rw table-connection* [src-protocol dst-protocol address-family]

```

|   +--rw src-protocol   -> ../config/src-protocol
|   +--rw dst-protocol   -> ../config/dst-protocol
|   +--rw address-family -> ../config/address-family
|   +--rw config
|   |   +--rw src-protocol?      -> ../../../../tables/table/config/protocol
|   |   |   +--rw address-family?      -> ../../../../tables/table[protocol=current()]/../src-
protocol]/config/address-family
|   |   |   +--rw dst-protocol?      -> ../../../../tables/table/config/protocol
|   |   |   +--rw disable-metric-propagation? boolean
|   |   |   +--rw default-import-policy? default-policy-type
|   |   +--ro state
|   |       +--ro src-protocol?      -> ../../../../tables/table/config/protocol
|   |       +--ro address-family?      -> ../../../../tables/table[protocol=current()]/../src-
protocol]/config/address-family
|   |       +--ro dst-protocol?      -> ../../../../tables/table/config/protocol
|   |       +--ro disable-metric-propagation? boolean
|   |       +--ro default-import-policy? default-policy-type
+--rw interfaces
|   +--rw interface* [id]
|   |   +--rw id   -> ../config/id
|   |   +--rw config
|   |   |   +--rw id?          oc-if:interface-id
|   |   |   +--rw interface?   -> /oc-if:interfaces/interface/name
|   |   |   |   +--rw subinterface?          -> /oc-if:interfaces/interface[oc-
if:name=current()]/../interface]/subinterfaces/subinterface/index
|   |   |   |   |   +--rw associated-address-families* identityref
|   |   |   |   |   +--rw mac-pinning?          boolean
|   |   |   |   |   +--rw irb-anycast-gateway?    enumeration
|   |   |   +--ro state
|   |   |       +--ro id?          oc-if:interface-id
|   |   |       +--ro interface?   -> /oc-if:interfaces/interface/name
|   |   |       +--ro subinterface?          -> /oc-if:interfaces/interface[oc-
if:name=current()]/../interface]/subinterfaces/subinterface/index
|   |   |       +--ro associated-address-families* identityref
|   |   |       +--ro mac-pinning?          boolean
|   |   |       +--ro irb-anycast-gateway?    enumeration
+--rw tables
|   +--rw table* [protocol address-family]
|   |   +--rw protocol   -> ../config/protocol
|   |   +--rw address-family -> ../config/address-family
|   |   +--rw config
|   |   |   +--rw protocol?   -> ../../../../protocols/protocol/config/identifier

```

```

| | +--rw address-family? identityref
| +--ro state
|   +--ro protocol?    -> ../../../../protocols/protocol/config/identifier
|   +--ro address-family? identityref
+--rw connection-points
| +--rw connection-point* [connection-point-id]
|   +--rw connection-point-id -> ../config/connection-point-id
|   +--rw config
|     | +--rw connection-point-id? string
|     +--ro state
|       | +--ro connection-point-id? string
|       +--rw endpoints
|         +--rw endpoint* [endpoint-id]
|           +--rw endpoint-id -> ../config/endpoint-id
|           +--rw config
|             | +--rw endpoint-id? string
|             | +--rw precedence? uint16
|             | +--rw type?      identityref
|             +--ro state
|               | +--ro endpoint-id? string
|               | +--ro precedence? uint16
|               | +--ro type?      identityref
|               | +--ro active?    boolean
|             +--rw local
|               | +--rw config
|                 | | +--rw interface?          -> /oc-if:interfaces/interface/name
|                 | | | +--rw subinterface?      -> /oc-if:interfaces/interface[oc-
if:name=current()/../interface]/subinterfaces/subinterface/index
|                 | | | +--rw site-id?          uint16
|                 | | | +--rw site-label-block-offset? uint16
|                 | | | +--rw site-label-block-size? uint16
|                 | | +--ro state
|                 |   +--ro interface?          -> /oc-if:interfaces/interface/name
|                 |   +--ro subinterface?      -> /oc-if:interfaces/interface[oc-
if:name=current()/../interface]/subinterfaces/subinterface/index
|                 |   +--ro site-id?          uint16
|                 |   +--ro site-label-block-offset? uint16
|                 |   +--ro site-label-block-size? uint16
|                 +--rw remote
|                   +--rw config
|                     | | +--rw remote-system?      oc-inet:ip-address
|                     | | +--rw virtual-circuit-identifier? uint32

```

```

|   | | +--rw site-id?          uint16
|   | +--ro state
|   |   +--ro remote-system?      oc-inet:ip-address
|   |   +--ro virtual-circuit-identifier? uint32
|   |   +--ro site-id?          uint16
| +--rw vxlan
|   +--rw config
|   | +--rw description?    string
|   | +--rw enabled?        boolean
|   | +--rw source-interface? string
|   +--ro state
|   | +--ro description?    string
|   | +--ro enabled?        boolean
|   | +--ro source-interface? string
|   +--ro endpoint-peers
|   | +--ro endpoint-peer* [peer-address]
|   |   +--ro peer-address -> ../state/peer-address
|   |   +--ro state
|   |   | +--ro peer-address?    oc-inet:ip-address
|   |   | +--ro peer-state?      enumeration
|   |   | +--ro uptime?          oc-types:timeticks64
|   |   | x--ro control-plane-vnis* oc-evpn-types:vni-id
|   |   | x--ro router-mac?      oc-yang:mac-address
|   +--ro endpoint-vnis
|   | +--ro endpoint-vni* [vni]
|   |   +--ro vni -> ../state/vni
|   |   +--ro state
|   |   | +--ro vni?              oc-evpn-types:evi-id
|   |   | +--ro vni-type?          enumeration
|   |   | +--ro bridge-domain?      uint32
|   |   | +--ro l3-vrf-name?        string
|   |   | +--ro multideestination-traffic? union
|   |   | +--ro learning-mode?      oc-evpn-types:learning-mode
|   |   | +--ro vni-state?          enumeration
|   |   | +--ro svi-state?          enumeration
+--rw vlans
| +--rw vlan* [vlan-id]
|   +--rw vlan-id -> ../config/vlan-id
|   +--rw config
|   | +--rw vlan-id? oc-vlan-types:vlan-id
|   | +--rw name?    string
|   | +--rw status?  enumeration

```

```

|   +--ro state
|   |   +--ro vlan-id?  oc-vlan-types:vlan-id
|   |   +--ro name?    string
|   |   +--ro status?  enumeration
|   +--rw members
|   |   +--ro member* []
|   |   |   +--ro state
|   |   |   |   +--ro interface?  base-interface-ref
+--rw protocols
| +--rw protocol* [identifier name]
|   +--rw identifier  -> ../config/identifier
|   +--rw name        -> ../config/name
|   +--rw config
|   |   +--rw identifier?          identityref
|   |   +--rw name?               string
|   |   +--rw enabled?            boolean
|   |   +--rw default-metric?     uint32
|   |   +--rw extr-ni-ext:default-distance?  uint32
|   +--ro state
|   |   +--ro identifier?          identityref
|   |   +--ro name?               string
|   |   +--ro enabled?            boolean
|   |   +--ro default-metric?     uint32
|   |   +--ro extr-ni-ext:default-distance?  uint32
|   +--rw static-routes
|   |   +--rw static* [prefix]
|   |   |   +--rw prefix  -> ../config/prefix
|   |   |   +--rw config
|   |   |   |   +--rw prefix?  inet:ip-prefix
|   |   |   |   +--rw set-tag?  uint32
|   |   |   |   +--rw description? string
|   |   |   +--ro state
|   |   |   |   +--ro prefix?  inet:ip-prefix
|   |   |   |   +--ro set-tag?  uint32
|   |   |   |   +--ro description? string
|   |   +--rw next-hops
|   |   |   +--rw next-hop* [index]
|   |   |   |   +--rw index  -> ../config/index
|   |   |   |   +--rw config
|   |   |   |   |   +--rw index?          string
|   |   |   |   |   +--rw next-hop?       union
|   |   |   |   |   +--rw recurse?       boolean

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```

|         | +--rw metric?          uint32
|         | +--rw preference?      uint32
|         | +--rw extr-ni-ext:admin-distance?  uint32
|         +--ro state
|         | +--ro index?          string
|         | +--ro next-hop?       union
|         | +--ro recurse?        boolean
|         | +--ro metric?         uint32
|         | +--ro preference?     uint32
|         | +--ro extr-ni-ext:admin-distance?  uint32
|         +--rw interface-ref
|         +--rw config
|         | +--rw interface?      -> /oc-if:interfaces/interface[name
|         |                       | +--rw subinterface?      -> /oc-if:interfaces/interface[oc-
if:name=current()/../interface]/subinterfaces/subinterface/index
|         | +--ro state
|         | +--ro interface?      -> /oc-if:interfaces/interface[name
|         |                       | +--ro subinterface?      -> /oc-if:interfaces/interface[oc-
if:name=current()/../interface]/subinterfaces/subinterface/index
|         +--rw oc-pgrrmerrs:programming-errors
|         | +--rw oc-pgrrmerrs:ip-routes
|         | +--rw oc-pgrrmerrs:config
|         | | +--rw oc-pgrrmerrs:enabled?  boolean
|         | +--ro oc-pgrrmerrs:state
|         | | +--ro oc-pgrrmerrs:total-errors?  oc-yang:counter64
|         | | +--ro oc-pgrrmerrs:enabled?      boolean
|         | +--ro oc-pgrrmerrs:failed-routes
|         | | +--ro oc-pgrrmerrs:failed* [prefix]
|         | | +--ro oc-pgrrmerrs:prefix  -> ../state/prefix
|         | | +--ro oc-pgrrmerrs:state
|         | | | +--ro oc-pgrrmerrs:prefix?      oc-inet:ip-prefix
|         | | | +--ro oc-pgrrmerrs:time?        oc-types:timeticks64
|         | | | +--ro oc-pgrrmerrs:dest-component* -> /oc-platform:components/component/name
|         | +--ro oc-pgrrmerrs:stale-routes
|         | | +--ro oc-pgrrmerrs:stale* [prefix]
|         | | +--ro oc-pgrrmerrs:prefix  -> ../state/prefix
|         | | +--ro oc-pgrrmerrs:state
|         | | | +--ro oc-pgrrmerrs:prefix?      oc-inet:ip-prefix
|         | | | +--ro oc-pgrrmerrs:time?        oc-types:timeticks64
|         | | | +--ro oc-pgrrmerrs:dest-component* -> /oc-platform:components/component/name
|         +--ro oc-pgrrmerrs:drop-routes
|         | +--ro oc-pgrrmerrs:drop* [prefix]

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|      +--ro oc-pgrmerrs:prefix -> ../state/prefix
|      +--ro oc-pgrmerrs:state
|          +--ro oc-pgrmerrs:prefix?      oc-inet:ip-prefix
|          +--ro oc-pgrmerrs:time?        oc-types:timeticks64
|          +--ro oc-pgrmerrs:dest-component* -> /oc-platform:components/component/name
+--ro extr-ni-tables-network-ext:tables-network
| +--ro extr-ni-tables-network-ext:ipv4-unicast
| | +--ro extr-ni-tables-network-ext:ipv4-entry* [prefix-len prefix]
| |   +--ro extr-ni-tables-network-ext:prefix-len -> ../state/prefix-len
| |   +--ro extr-ni-tables-network-ext:prefix -> ../state/prefix
| |   +--ro extr-ni-tables-network-ext:state
| |       +--ro extr-ni-tables-network-ext:prefix-len?      uint8
| |       +--ro extr-ni-tables-network-ext:prefix?          oc-inet:ipv4-prefix
| |       +--ro extr-ni-tables-network-ext:route-info* [origin-protocol]
| |           | +--ro extr-ni-tables-network-ext:origin-protocol -> ../state/origin-protocol
| |           | +--ro extr-ni-tables-network-ext:state
| |           |     +--ro extr-ni-tables-network-ext:origin-protocol? identityref
| |           |     +--ro extr-ni-tables-network-ext:type?          identityref
| |           |     +--ro extr-ni-tables-network-ext:tag?          uint32
| |           |     +--ro extr-ni-tables-network-ext:admin-distance? uint8
| |           |     +--ro extr-ni-tables-network-ext:metric?      uint32
| |           |     +--ro extr-ni-tables-network-ext:last-updated? oc-types:timeticks64
| |           |     +--ro extr-ni-tables-network-ext:next-hop-group? -> ../../../../next-hop-
groups/next-hop-group/state/id
| |           +--ro extr-ni-tables-network-ext:best-origin-protocol? identityref
| |           +--ro extr-ni-tables-network-ext:hardware-status?    identityref
| +--ro extr-ni-tables-network-ext:ipv6-unicast
| | +--ro extr-ni-tables-network-ext:ipv6-entry* [prefix-len prefix]
| |   +--ro extr-ni-tables-network-ext:prefix-len -> ../state/prefix-len
| |   +--ro extr-ni-tables-network-ext:prefix -> ../state/prefix
| |   +--ro extr-ni-tables-network-ext:state
| |       +--ro extr-ni-tables-network-ext:prefix-len?      uint8
| |       +--ro extr-ni-tables-network-ext:prefix?          oc-inet:ipv6-prefix
| |       +--ro extr-ni-tables-network-ext:route-info* [origin-protocol]
| |           | +--ro extr-ni-tables-network-ext:origin-protocol -> ../state/origin-protocol
| |           | +--ro extr-ni-tables-network-ext:state
| |           |     +--ro extr-ni-tables-network-ext:origin-protocol? identityref
| |           |     +--ro extr-ni-tables-network-ext:type?          identityref
| |           |     +--ro extr-ni-tables-network-ext:tag?          uint32
| |           |     +--ro extr-ni-tables-network-ext:admin-distance? uint8
| |           |     +--ro extr-ni-tables-network-ext:metric?      uint32
| |           |     +--ro extr-ni-tables-network-ext:last-updated? oc-types:timeticks64

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```

| | | +--ro extr-ni-tables-network-ext:next-hop-group? -> ../../../../next-hop-
groups/next-hop-group/state/id
| | +--ro extr-ni-tables-network-ext:best-origin-protocol? identityref
| | +--ro extr-ni-tables-network-ext:hardware-status? identityref
| +--ro extr-ni-tables-network-ext:ethernet
| | +--ro extr-ni-tables-network-ext:mac-entry* [mac-address]
| | +--ro extr-ni-tables-network-ext:mac-address -> ../state/mac-address
| | +--ro extr-ni-tables-network-ext:state
| | +--ro extr-ni-tables-network-ext:mac-address? oc-yang:mac-address
| | +--ro extr-ni-tables-network-ext:route-info* [origin-protocol]
| | | +--ro extr-ni-tables-network-ext:origin-protocol -> ../state/origin-protocol
| | | +--ro extr-ni-tables-network-ext:state
| | | +--ro extr-ni-tables-network-ext:origin-protocol? identityref
| | | +--ro extr-ni-tables-network-ext:type? identityref
| | | +--ro extr-ni-tables-network-ext:last-updated? oc-types:timeticks64
| | | +--ro extr-ni-tables-network-ext:seq-no? uint32
| | | +--ro extr-ni-tables-network-ext:next-hop-group? -> ../../../../next-hop-
groups/next-hop-group/state/id
| | +--ro extr-ni-tables-network-ext:best-origin-protocol? identityref
| | +--ro extr-ni-tables-network-ext:hardware-status? identityref
| +--ro extr-ni-tables-network-ext:ipv4-neighbor
| | +--ro extr-ni-tables-network-ext:ipv4-nbr-entry* [nbr-address]
| | +--ro extr-ni-tables-network-ext:nbr-address -> ../state/nbr-address
| | +--ro extr-ni-tables-network-ext:state
| | +--ro extr-ni-tables-network-ext:nbr-address? oc-inet:ipv4-prefix
| | +--ro extr-ni-tables-network-ext:route-info* [origin-protocol]
| | | +--ro extr-ni-tables-network-ext:origin-protocol -> ../state/origin-protocol
| | | +--ro extr-ni-tables-network-ext:state
| | | +--ro extr-ni-tables-network-ext:origin-protocol? identityref
| | | +--ro extr-ni-tables-network-ext:type? identityref
| | | +--ro extr-ni-tables-network-ext:last-updated? oc-types:timeticks64
| | | +--ro extr-ni-tables-network-ext:seq-no? uint32
| | | +--ro extr-ni-tables-network-ext:mac-address? oc-yang:mac-address
| | | +--ro extr-ni-tables-network-ext:interface-ref
| | | +--ro extr-ni-tables-network-ext:interface? -> /oc-if:interfaces/interface/name
| | | +--ro extr-ni-tables-network-ext:subinterface? -> /oc-if:interfaces/interface[oc-
if:name=current()]/../interface]/subinterfaces/subinterface/index
| | | +--ro extr-ni-tables-network-ext:l3-interface? -> /oc-if:interfaces/interface/name
| | +--ro extr-ni-tables-network-ext:best-origin-protocol? identityref
| | +--ro extr-ni-tables-network-ext:hardware-status? identityref
| +--ro extr-ni-tables-network-ext:ipv6-neighbor
| | +--ro extr-ni-tables-network-ext:ipv6-nbr-entry* [nbr-address]

```



```

| | +--ro extr-ni-tables-network-ext:nbr-address -> ../state/nbr-address
| | +--ro extr-ni-tables-network-ext:state
| |   +--ro extr-ni-tables-network-ext:nbr-address?      oc-inet:ipv6-prefix
| |   +--ro extr-ni-tables-network-ext:route-info* [origin-protocol]
| |     | +--ro extr-ni-tables-network-ext:origin-protocol -> ../state/origin-protocol
| |     | +--ro extr-ni-tables-network-ext:state
| |     |   +--ro extr-ni-tables-network-ext:origin-protocol? identityref
| |     |   +--ro extr-ni-tables-network-ext:type?      identityref
| |     |   +--ro extr-ni-tables-network-ext:last-updated? oc-types:timeticks64
| |     |   +--ro extr-ni-tables-network-ext:seq-no?      uint32
| |     |   +--ro extr-ni-tables-network-ext:mac-address? oc-yang:mac-address
| |     |   +--ro extr-ni-tables-network-ext:interface-ref
| |     |     +--ro extr-ni-tables-network-ext:interface? -> /oc-if:interfaces/interface/name
| |     |     +--ro extr-ni-tables-network-ext:subinterface? -> /oc-if:interfaces/interface[oc-
if:name=current()/../interface]/subinterfaces/subinterface/index
| |       +--ro extr-ni-tables-network-ext:l3-interface? -> /oc-if:interfaces/interface/name
| |   +--ro extr-ni-tables-network-ext:best-origin-protocol? identityref
| |   +--ro extr-ni-tables-network-ext:hardware-status?      identityref
| +--ro extr-ni-tables-network-ext:next-hop-groups
| | +--ro extr-ni-tables-network-ext:next-hop-group* [id]
| |   +--ro extr-ni-tables-network-ext:id -> ../state/id
| |   +--ro extr-ni-tables-network-ext:state
| |     +--ro extr-ni-tables-network-ext:id?      uint64
| |     +--ro extr-ni-tables-network-ext:next-hops* -> ../../../../next-hops/next-
hop/state/index
| |       +--ro extr-ni-tables-network-ext:protocol-next-hops* -> ../../../../next-hops/next-
hop/state/index
| |         +--ro extr-ni-tables-network-ext:next-hops
| |         +--ro extr-ni-tables-network-ext:next-hop* [index]
| |           +--ro extr-ni-tables-network-ext:index -> ../state/index
| |           +--ro extr-ni-tables-network-ext:state
| |             +--ro extr-ni-tables-network-ext:index?      uint64
| |             +--ro extr-ni-tables-network-ext:type?      extr-ni-types:next-hop-type
| |             +--ro extr-ni-tables-network-ext:network-instance-name? string
| |             +--ro extr-ni-tables-network-ext:ip-address? oc-inet:ip-address
| |             +--ro extr-ni-tables-network-ext:mac-address? oc-yang:mac-address
| |           +--ro extr-ni-tables-network-ext:interface-ref
| |             +--ro extr-ni-tables-network-ext:interface? -> /oc-if:interfaces/interface/name
| |             +--ro extr-ni-tables-network-ext:subinterface? -> /oc-if:interfaces/interface[oc-
if:name=current()/../interface]/subinterfaces/subinterface/index
| |               +--ro extr-ni-tables-network-ext:l3-interface? -> /oc-if:interfaces/interface/name
+--rw extr-ni-ext:vni-domains

```

```

+--rw extr-ni-ext:vni-domain* [name]
  +--rw extr-ni-ext:name    -> ../config/name
  +--rw extr-ni-ext:config
    | +--rw extr-ni-ext:name?  string
    | +--rw extr-ni-ext:vni?  uint32
  +--ro extr-ni-ext:state
    +--ro extr-ni-ext:name?  string
    +--ro extr-ni-ext:vni?  uint32

```

module: openconfig-platform

```

+--rw components
  +--rw component* [name]
    +--rw name                -> ../config/name
    +--rw config
      | +--rw name?  string
    +--ro state
      | +--ro name?          string
      | +--ro type?          union
      | x--ro id?            string
      | x--ro location?      string
      | +--ro install-position?  string
      | +--ro install-component? -> ../name
      | +--ro software-version?  string
      | +--ro part-no?          string
      | +--ro model-name        string
      | +--ro clei-code?        string
      | +--ro oper-status?      identityref
      | +--ro redundant-role?    oc-platform-types:component-redundant-role
      | +--ro last-poweroff-reason
      | | +--ro trigger?  component-last-poweroff-reason-trigger
      | | +--ro details?  string
      | +--ro last-poweroff-time?  oc-types:timeticks64
      | +--ro last-switchover-reason
      | | +--ro trigger?  component-redundant-role-switchover-reason-trigger
      | | +--ro details?  string
      | +--ro last-switchover-time?  oc-types:timeticks64
      | +--ro last-reboot-reason?    identityref
      | +--ro last-reboot-time?      oc-types:timeticks64
      | +--ro switchover-ready?      boolean
      | +--ro base-mac-address?      oc-yang:mac-address
      | +--ro memory
      | | +--ro available?  uint64

```

```

| | +--ro utilized?  uint64
| +--ro used-power?      uint32
| +--ro pcie
| | +--ro fatal-errors
| | | +--ro total-errors?      oc-yang:counter64
| | | +--ro undefined-errors?   oc-yang:counter64
| | | +--ro data-link-errors?   oc-yang:counter64
| | | +--ro surprise-down-errors? oc-yang:counter64
| | | +--ro poisoned-tlp-errors? oc-yang:counter64
| | | +--ro flow-control-protocol-errors? oc-yang:counter64
| | | +--ro completion-timeout-errors? oc-yang:counter64
| | | +--ro completion-abort-errors? oc-yang:counter64
| | | +--ro unexpected-completion-errors? oc-yang:counter64
| | | +--ro receiver-overflow-errors? oc-yang:counter64
| | | +--ro malformed-tlp-errors? oc-yang:counter64
| | | +--ro ecrc-errors?        oc-yang:counter64
| | | +--ro unsupported-request-errors? oc-yang:counter64
| | | +--ro acs-violation-errors? oc-yang:counter64
| | | +--ro internal-errors?     oc-yang:counter64
| | | +--ro blocked-tlp-errors?  oc-yang:counter64
| | | +--ro atomic-op-blocked-errors? oc-yang:counter64
| | | +--ro tlp-prefix-blocked-errors? oc-yang:counter64
| | +--ro non-fatal-errors
| | | +--ro total-errors?      oc-yang:counter64
| | | +--ro undefined-errors?   oc-yang:counter64
| | | +--ro data-link-errors?   oc-yang:counter64
| | | +--ro surprise-down-errors? oc-yang:counter64
| | | +--ro poisoned-tlp-errors? oc-yang:counter64
| | | +--ro flow-control-protocol-errors? oc-yang:counter64
| | | +--ro completion-timeout-errors? oc-yang:counter64
| | | +--ro completion-abort-errors? oc-yang:counter64
| | | +--ro unexpected-completion-errors? oc-yang:counter64
| | | +--ro receiver-overflow-errors? oc-yang:counter64
| | | +--ro malformed-tlp-errors? oc-yang:counter64
| | | +--ro ecrc-errors?        oc-yang:counter64
| | | +--ro unsupported-request-errors? oc-yang:counter64
| | | +--ro acs-violation-errors? oc-yang:counter64
| | | +--ro internal-errors?     oc-yang:counter64
| | | +--ro blocked-tlp-errors?  oc-yang:counter64
| | | +--ro atomic-op-blocked-errors? oc-yang:counter64
| | | +--ro tlp-prefix-blocked-errors? oc-yang:counter64
| | +--ro correctable-errors

```

```

| | +--ro total-errors?          oc-yang:counter64
| | +--ro receiver-errors?      oc-yang:counter64
| | +--ro bad-tlp-errors?       oc-yang:counter64
| | +--ro bad-dllp-errors?      oc-yang:counter64
| | +--ro relay-rollover-errors? oc-yang:counter64
| | +--ro replay-timeout-errors? oc-yang:counter64
| | +--ro advisory-non-fatal-errors? oc-yang:counter64
| | +--ro internal-errors?      oc-yang:counter64
| | +--ro hdr-log-overflow-errors? oc-yang:counter64
| +--ro oc-platform-ext:entity-id? uint32
+--rw properties
| +--rw property* [name]
|   +--rw name    -> ../config/name
|   +--rw config
|     | +--rw name?  string
|     | +--rw value? union
|     +--ro state
|       +--ro name?   string
|       +--ro value?  union
|       +--ro configurable? boolean
+--rw subcomponents
| +--rw subcomponent* [name]
|   +--rw name    -> ../config/name
|   +--rw config
|     | +--rw name? -> ../../../../component/config/name
|     +--ro state
|       +--ro name? -> ../../../../component/config/name
+--rw chassis
| +--rw config
| +--ro state
| +--rw utilization
|   +--rw resources
|     +--rw resource* [name]
|       +--rw name    -> ../config/name
|       +--rw config
|         | +--rw name?                string
|         | +--rw used-threshold-upper?          oc-types:percentage
|         | +--rw used-threshold-upper-clear?      oc-types:percentage
|         | +--rw extr-platform-common-ext:poll-interval? uint16
|         | +--rw extr-platform-common-ext:poll-retry?  uint16
|         | +--rw extr-platform-common-ext:action?      resource-action
|       +--ro state

```

```

|      +--ro name?                               string
|      +--ro used-threshold-upper?                oc-types:percentage
|      +--ro used-threshold-upper-clear?          oc-types:percentage
|      +--ro used?                                uint64
|      +--ro committed?                           uint64
|      +--ro free?                                uint64
|      +--ro max-limit?                           uint64
|      +--ro high-watermark?                       uint64
|      +--ro last-high-watermark?                  oc-types:timeticks64
|      +--ro used-threshold-upper-exceeded?        boolean
|      +--ro extr-platform-common-ext:poll-interval? uint16
|      +--ro extr-platform-common-ext:poll-retry?  uint16
|      +--ro extr-platform-common-ext:action?      resource-action
+---rw port
| +---rw config
| | +---rw extr-port-config-ext:default-fec-mode?  extreme-eth-ext:fec-mode-type
| | +---rw extr-port-config-ext:default-speed?     identityref
| | +---rw extr-port-config-ext:supported-speed*    identityref
| | +---rw extr-port-config-ext:supported-fec*      extreme-eth-ext:fec-mode-type
| | +---rw extr-port-config-ext:port-group*         string
| | +---rw extr-port-config-ext:breakout-capabilities
| |   +---rw extr-port-config-ext:capabilities* [index]
| |     +---rw extr-port-config-ext:index            uint8
| |     +---rw extr-port-config-ext:num-breakouts?   uint8
| |     +---rw extr-port-config-ext:breakout-speed?  identityref
| |     +---rw extr-port-config-ext:num-physical-channels? uint8
| |     +---rw extr-port-config-ext:affected-port?   string
| +---ro state
| | +---ro extr-port-config-ext:default-fec-mode?  extreme-eth-ext:fec-mode-type
| | +---ro extr-port-config-ext:default-speed?     identityref
| | +---ro extr-port-config-ext:supported-speed*    identityref
| | +---ro extr-port-config-ext:supported-fec*      extreme-eth-ext:fec-mode-type
| | +---ro extr-port-config-ext:port-group*         string
| | +---ro extr-port-config-ext:breakout-capabilities
| |   +---ro extr-port-config-ext:capabilities* [index]
| |     +---ro extr-port-config-ext:index            uint8
| |     +---ro extr-port-config-ext:num-breakouts?   uint8
| |     +---ro extr-port-config-ext:breakout-speed?  identityref
| |     +---ro extr-port-config-ext:num-physical-channels? uint8
| |     +---ro extr-port-config-ext:affected-port?   string
+---rw oc-port:breakout-mode
| | +---rw oc-port:groups

```

```

| | +--rw oc-port:group* [index]
| |   +--rw oc-port:index  -> ../config/index
| |   +--rw oc-port:config
| |     | +--rw oc-port:index?          uint8
| |     | +--rw oc-port:num-breakouts?   uint8
| |     | +--rw oc-port:breakout-speed?  identityref
| |     | +--rw oc-port:num-physical-channels? uint8
| |   +--ro oc-port:state
| |     +--ro oc-port:index?          uint8
| |     +--ro oc-port:num-breakouts?   uint8
| |     +--ro oc-port:breakout-speed?  identityref
| |     +--ro oc-port:num-physical-channels? uint8
| +--rw oc-line-com:optical-port
|   +--rw oc-line-com:config
|     | +--rw oc-line-com:admin-state? oc-opt-types:admin-state-type
|   +--ro oc-line-com:state
|     +--ro oc-line-com:admin-state?   oc-opt-types:admin-state-type
|     +--ro oc-line-com:optical-port-type? identityref
|     +--ro oc-line-com:tilt?          decimal64
|     +--ro oc-line-com:input-power
|       | +--ro oc-line-com:instant? decimal64
|       | +--ro oc-line-com:avg?    decimal64
|       | +--ro oc-line-com:min?    decimal64
|       | +--ro oc-line-com:max?    decimal64
|       | +--ro oc-line-com:interval? oc-types:stat-interval
|       | +--ro oc-line-com:min-time? oc-types:timeticks64
|       | +--ro oc-line-com:max-time? oc-types:timeticks64
|     +--ro oc-line-com:output-power
|       +--ro oc-line-com:instant? decimal64
|       +--ro oc-line-com:avg?    decimal64
|       +--ro oc-line-com:min?    decimal64
|       +--ro oc-line-com:max?    decimal64
|       +--ro oc-line-com:interval? oc-types:stat-interval
|       +--ro oc-line-com:min-time? oc-types:timeticks64
|       +--ro oc-line-com:max-time? oc-types:timeticks64
+--rw power-supply
| +--rw config
| | +--rw oc-platform-psu:enabled? boolean
| +--ro state
|   +--ro oc-platform-psu:enabled?    boolean
|   +--ro oc-platform-psu:capacity?   oc-types:ieeefloat32
|   +--ro oc-platform-psu:input-current? oc-types:ieeefloat32

```

```

|   +--ro oc-platform-psu:input-voltage?  oc-types:ieeefloat32
|   +--ro oc-platform-psu:output-current?  oc-types:ieeefloat32
|   +--ro oc-platform-psu:output-voltage?  oc-types:ieeefloat32
|   +--ro oc-platform-psu:output-power?   oc-types:ieeefloat32
+--rw fan
|   +--rw config
|   +--ro state
|       +--ro oc-fan:speed?  uint32
+--rw cpu
|   +--rw config
|   +--ro state
|   +--rw oc-cpu:utilization
|       +--ro oc-cpu:state
|           +--ro oc-cpu:instant?  oc-types:percentage
|           +--ro oc-cpu:avg?      oc-types:percentage
|           +--ro oc-cpu:min?      oc-types:percentage
|           +--ro oc-cpu:max?      oc-types:percentage
|           +--ro oc-cpu:interval? oc-types:stat-interval
|           +--ro oc-cpu:min-time? oc-types:timeticks64
|           +--ro oc-cpu:max-time? oc-types:timeticks64
+--rw software-module
|   +--rw config
|   +--ro state
|       +--ro oc-sw-module:module-type? identityref
+--rw controller-card
|   +--rw config
|   |   +--rw oc-ctrl-card:power-admin-state? oc-platform-types:component-power-type
|   +--ro state
|       +--ro oc-ctrl-card:power-admin-state? oc-platform-types:component-power-type
+--rw oc-transceiver:transceiver
|   +--rw oc-transceiver:config
|   |   +--rw oc-transceiver:enabled?          boolean
|   |   +--rw oc-transceiver:form-factor-preconf?  identityref
|   |   +--rw oc-transceiver:ethernet-pmd-preconf? identityref
|   |   +--rw oc-transceiver:fec-mode?           identityref
|   |   +--rw oc-transceiver:module-functional-type? identityref
|   +--ro oc-transceiver:state
|   |   +--ro oc-transceiver:enabled?          boolean
|   |   +--ro oc-transceiver:form-factor-preconf?  identityref
|   |   +--ro oc-transceiver:ethernet-pmd-preconf? identityref
|   |   +--ro oc-transceiver:fec-mode?           identityref
|   |   +--ro oc-transceiver:module-functional-type? identityref

```

+--ro oc-transceiver:present?	enumeration
+--ro oc-transceiver:form-factor?	identityref
+--ro oc-transceiver:connector-type?	identityref
+--ro oc-transceiver:vendor?	string
+--ro oc-transceiver:vendor-part?	string
+--ro oc-transceiver:vendor-rev?	string
+--ro oc-transceiver:ethernet-pmd?	identityref
+--ro oc-transceiver:sonet-sdh-compliance-code?	identityref
+--ro oc-transceiver:otn-compliance-code?	identityref
+--ro oc-transceiver:serial-no?	string
+--ro oc-transceiver:date-code?	oc-yang:date-and-time
+--ro oc-transceiver:fault-condition?	boolean
+--ro oc-transceiver:fec-status?	identityref
+--ro oc-transceiver:fec-uncorrectable-blocks?	yang:counter64
+--ro oc-transceiver:fec-uncorrectable-words?	yang:counter64
+--ro oc-transceiver:fec-corrected-bytes?	yang:counter64
+--ro oc-transceiver:fec-corrected-bits?	yang:counter64
+--ro oc-transceiver:pre-fec-ber	
+--ro oc-transceiver:instant?	decimal64
+--ro oc-transceiver:avg?	decimal64
+--ro oc-transceiver:min?	decimal64
+--ro oc-transceiver:max?	decimal64
+--ro oc-transceiver:interval?	oc-types:stat-interval
+--ro oc-transceiver:min-time?	oc-types:timeticks64
+--ro oc-transceiver:max-time?	oc-types:timeticks64
+--ro oc-transceiver:post-fec-ber	
+--ro oc-transceiver:instant?	decimal64
+--ro oc-transceiver:avg?	decimal64
+--ro oc-transceiver:min?	decimal64
+--ro oc-transceiver:max?	decimal64
+--ro oc-transceiver:interval?	oc-types:stat-interval
+--ro oc-transceiver:min-time?	oc-types:timeticks64
+--ro oc-transceiver:max-time?	oc-types:timeticks64
+--ro oc-transceiver:supply-voltage	
+--ro oc-transceiver:instant?	decimal64
+--ro oc-transceiver:avg?	decimal64
+--ro oc-transceiver:min?	decimal64
+--ro oc-transceiver:max?	decimal64
+--ro oc-transceiver:interval?	oc-types:stat-interval
+--ro oc-transceiver:min-time?	oc-types:timeticks64
+--ro oc-transceiver:max-time?	oc-types:timeticks64
+--ro oc-transceiver:output-power	


```

| | | +--ro oc-transceiver:instant? decimal64
| | | +--ro oc-transceiver:avg? decimal64
| | | +--ro oc-transceiver:min? decimal64
| | | +--ro oc-transceiver:max? decimal64
| | | +--ro oc-transceiver:interval? oc-types:stat-interval
| | | +--ro oc-transceiver:min-time? oc-types:timeticks64
| | | +--ro oc-transceiver:max-time? oc-types:timeticks64
| | +--ro oc-transceiver:input-power
| | | +--ro oc-transceiver:instant? decimal64
| | | +--ro oc-transceiver:avg? decimal64
| | | +--ro oc-transceiver:min? decimal64
| | | +--ro oc-transceiver:max? decimal64
| | | +--ro oc-transceiver:interval? oc-types:stat-interval
| | | +--ro oc-transceiver:min-time? oc-types:timeticks64
| | | +--ro oc-transceiver:max-time? oc-types:timeticks64
| | +--ro oc-transceiver:laser-bias-current
| | | +--ro oc-transceiver:instant? decimal64
| | | +--ro oc-transceiver:avg? decimal64
| | | +--ro oc-transceiver:min? decimal64
| | | +--ro oc-transceiver:max? decimal64
| | | +--ro oc-transceiver:interval? oc-types:stat-interval
| | | +--ro oc-transceiver:min-time? oc-types:timeticks64
| | | +--ro oc-transceiver:max-time? oc-types:timeticks64
| | +--ro extr-transceiver-ext:temperature
| | | +--ro extr-transceiver-ext:avg? decimal64
| | | +--ro extr-transceiver-ext:min? decimal64
| | | +--ro extr-transceiver-ext:max? decimal64
| | | +--ro extr-transceiver-ext:interval? oc-types:stat-interval
| | | +--ro extr-transceiver-ext:min-time? oc-types:timeticks64
| | | +--ro extr-transceiver-ext:max-time? oc-types:timeticks64
| | +--ro extr-transceiver-ext:voltage
| | | +--ro extr-transceiver-ext:avg? decimal64
| | | +--ro extr-transceiver-ext:min? decimal64
| | | +--ro extr-transceiver-ext:max? decimal64
| | | +--ro extr-transceiver-ext:interval? oc-types:stat-interval
| | | +--ro extr-transceiver-ext:min-time? oc-types:timeticks64
| | | +--ro extr-transceiver-ext:max-time? oc-types:timeticks64
| | +--ro extr-transceiver-ext:baud-rate? uint64
| | +--ro extr-transceiver-ext:length-smf-km? string
| | +--ro extr-transceiver-ext:length-smf-m? uint64
| | +--ro extr-transceiver-ext:length50um-m? uint64
| | +--ro extr-transceiver-ext:length625um-m? uint64

```

```

| | +--ro extr-transceiver-ext:length-smf?          uint64
| | +--ro extr-transceiver-ext:length-om5?          uint64
| | +--ro extr-transceiver-ext:length-om4?          uint64
| | +--ro extr-transceiver-ext:length-om3?          uint64
| | +--ro extr-transceiver-ext:length-om2?          uint64
| | +--ro extr-transceiver-ext:length-om1?          uint64
| | +--ro extr-transceiver-ext:length-copper?       string
| | +--ro extr-transceiver-ext:vendor-rev?          string
| | +--ro extr-transceiver-ext:wavelength?          uint64
| | +--ro extr-transceiver-ext:options?             string
| | +--ro extr-transceiver-ext:br-max?              uint64
| | +--ro extr-transceiver-ext:br-min?              uint64
| | +--ro extr-transceiver-ext:supported-speeds*     identityref
| | +--ro extr-transceiver-ext:supported-fec*        extreme-eth-ext:fec-mode-type
| | +--ro extr-transceiver-ext:media-type?           string
| | +--ro extr-transceiver-ext:supports-breakout?    string
| | +--ro extr-transceiver-ext:qualified?            boolean
| | +--ro extr-transceiver-ext:qsa-adapter?          boolean
| | +--ro extr-transceiver-ext:qsa-vendor?           string
| | +--ro extr-transceiver-ext:qsa-serialnumber?     string
| | +--ro extr-transceiver-ext:qsa-partnumber?       string
| | +--ro extr-transceiver-ext:qsa-revdate?          string
| | +--ro extr-transceiver-ext:high-warn-temp-threshold? string
| | +--ro extr-transceiver-ext:high-alarm-temp-threshold? string
| +--rw oc-transceiver:physical-channels
|   +--rw oc-transceiver:channel* [index]
|     +--rw oc-transceiver:index -> ../config/index
|     +--rw oc-transceiver:config
|       | +--rw oc-transceiver:index?                uint16
|       |
|       | +--rw oc-transceiver:associated-optical-channel? -> /oc-
platform:components/component/name
|       | +--rw oc-transceiver:description?           string
|       | +--rw oc-transceiver:tx-laser?              boolean
|       | +--rw oc-transceiver:target-output-power?   decimal64
|       +--ro oc-transceiver:state
|         +--ro oc-transceiver:index?                 uint16
|         +--ro oc-transceiver:associated-optical-channel? -> /oc-
platform:components/component/name
|       +--ro oc-transceiver:description?             string
|       +--ro oc-transceiver:tx-laser?                 boolean
|       +--ro oc-transceiver:target-output-power?       decimal64
|       +--ro oc-transceiver:laser-age?                 oc-types:percentage

```

```

|      +--ro oc-transceiver:laser-temperature
|      |      +--ro oc-transceiver:instant?  decimal64
|      |      +--ro oc-transceiver:avg?      decimal64
|      |      +--ro oc-transceiver:min?      decimal64
|      |      +--ro oc-transceiver:max?      decimal64
|      |      +--ro oc-transceiver:interval? oc-types:stat-interval
|      |      +--ro oc-transceiver:min-time? oc-types:timeticks64
|      |      +--ro oc-transceiver:max-time? oc-types:timeticks64
|      +--ro oc-transceiver:target-frequency-deviation
|      |      +--ro oc-transceiver:instant?  decimal64
|      |      +--ro oc-transceiver:avg?      decimal64
|      |      +--ro oc-transceiver:min?      decimal64
|      |      +--ro oc-transceiver:max?      decimal64
|      |      +--ro oc-transceiver:interval? oc-types:stat-interval
|      |      +--ro oc-transceiver:min-time? oc-types:timeticks64
|      |      +--ro oc-transceiver:max-time? oc-types:timeticks64
|      +--ro oc-transceiver:tec-current
|      |      +--ro oc-transceiver:instant?  decimal64
|      |      +--ro oc-transceiver:avg?      decimal64
|      |      +--ro oc-transceiver:min?      decimal64
|      |      +--ro oc-transceiver:max?      decimal64
|      |      +--ro oc-transceiver:interval? oc-types:stat-interval
|      |      +--ro oc-transceiver:min-time? oc-types:timeticks64
|      |      +--ro oc-transceiver:max-time? oc-types:timeticks64
|      +--ro oc-transceiver:output-frequency?          oc-opt-types:frequency-type
|      +--ro oc-transceiver:output-power
|      |      +--ro oc-transceiver:instant?  decimal64
|      |      +--ro oc-transceiver:avg?      decimal64
|      |      +--ro oc-transceiver:min?      decimal64
|      |      +--ro oc-transceiver:max?      decimal64
|      |      +--ro oc-transceiver:interval? oc-types:stat-interval
|      |      +--ro oc-transceiver:min-time? oc-types:timeticks64
|      |      +--ro oc-transceiver:max-time? oc-types:timeticks64
|      +--ro oc-transceiver:input-power
|      |      +--ro oc-transceiver:instant?  decimal64
|      |      +--ro oc-transceiver:avg?      decimal64
|      |      +--ro oc-transceiver:min?      decimal64
|      |      +--ro oc-transceiver:max?      decimal64
|      |      +--ro oc-transceiver:interval? oc-types:stat-interval
|      |      +--ro oc-transceiver:min-time? oc-types:timeticks64
|      |      +--ro oc-transceiver:max-time? oc-types:timeticks64
|      +--ro oc-transceiver:laser-bias-current

```

```

|   | +--ro oc-transceiver:instant?  decimal64
|   | +--ro oc-transceiver:avg?     decimal64
|   | +--ro oc-transceiver:min?     decimal64
|   | +--ro oc-transceiver:max?     decimal64
|   | +--ro oc-transceiver:interval? oc-types:stat-interval
|   | +--ro oc-transceiver:min-time? oc-types:timeticks64
|   | +--ro oc-transceiver:max-time? oc-types:timeticks64
|   +--ro extr-transceiver-ext:temperature
|   | +--ro extr-transceiver-ext:avg?  decimal64
|   | +--ro extr-transceiver-ext:min?  decimal64
|   | +--ro extr-transceiver-ext:max?  decimal64
|   | +--ro extr-transceiver-ext:interval? oc-types:stat-interval
|   | +--ro extr-transceiver-ext:min-time? oc-types:timeticks64
|   | +--ro extr-transceiver-ext:max-time? oc-types:timeticks64
|   +--ro extr-transceiver-ext:voltage
|   | +--ro extr-transceiver-ext:avg?  decimal64
|   | +--ro extr-transceiver-ext:min?  decimal64
|   | +--ro extr-transceiver-ext:max?  decimal64
|   | +--ro extr-transceiver-ext:interval? oc-types:stat-interval
|   | +--ro extr-transceiver-ext:min-time? oc-types:timeticks64
|   | +--ro extr-transceiver-ext:max-time? oc-types:timeticks64
|   +--ro extr-transceiver-ext:baud-rate?      uint64
|   +--ro extr-transceiver-ext:length-smf-km?   string
|   +--ro extr-transceiver-ext:length-smf-m?    uint64
|   +--ro extr-transceiver-ext:length50um-m?   uint64
|   +--ro extr-transceiver-ext:length625um-m?  uint64
|   +--ro extr-transceiver-ext:length-smf?      uint64
|   +--ro extr-transceiver-ext:length-om5?      uint64
|   +--ro extr-transceiver-ext:length-om4?      uint64
|   +--ro extr-transceiver-ext:length-om3?      uint64
|   +--ro extr-transceiver-ext:length-om2?      uint64
|   +--ro extr-transceiver-ext:length-om1?      uint64
|   +--ro extr-transceiver-ext:length-copper?   string
|   +--ro extr-transceiver-ext:vendor-rev?     string
|   +--ro extr-transceiver-ext:wavelength?     uint64
|   +--ro extr-transceiver-ext:options?        string
|   +--ro extr-transceiver-ext:br-max?         uint64
|   +--ro extr-transceiver-ext:br-min?         uint64
|   +--ro extr-transceiver-ext:supported-speeds* identityref
|   +--ro extr-transceiver-ext:supported-fec*  extreme-eth-ext:fec-mode-type
|   +--ro extr-transceiver-ext:media-type?     string
|   +--ro extr-transceiver-ext:supports-breakout? string

```

```

|      +--ro extr-transceiver-ext:qualified?          boolean
|      +--ro extr-transceiver-ext:qsa-adapter?        boolean
|      +--ro extr-transceiver-ext:qsa-vendor?         string
|      +--ro extr-transceiver-ext:qsa-serialnumber?   string
|      +--ro extr-transceiver-ext:qsa-partnumber?     string
|      +--ro extr-transceiver-ext:qsa-revdate?        string
|      +--ro extr-transceiver-ext:high-warn-temp-threshold? string
|      +--ro extr-transceiver-ext:high-alarm-temp-threshold? string
+---rw oc-linecard:linecard
| +---rw oc-linecard:config
| | +---rw oc-linecard:power-admin-state? oc-platform-types:component-power-type
| +---ro oc-linecard:state
| | +---ro oc-linecard:power-admin-state? oc-platform-types:component-power-type
| | x--ro oc-linecard:slot-id?          string
| +---rw oc-linecard:utilization
|   +---rw oc-linecard:resources
|     +---rw oc-linecard:resource* [name]
|       +---rw oc-linecard:name    -> ../config/name
|       +---rw oc-linecard:config
|         | +---rw oc-linecard:name?          string
|         | +---rw oc-linecard:used-threshold-upper?    oc-types:percentage
|         | +---rw oc-linecard:used-threshold-upper-clear? oc-types:percentage
|       +---ro oc-linecard:state
|         +---ro oc-linecard:name?          string
|         +---ro oc-linecard:used-threshold-upper?    oc-types:percentage
|         +---ro oc-linecard:used-threshold-upper-clear? oc-types:percentage
|         +---ro oc-linecard:used?          uint64
|         +---ro oc-linecard:committed?      uint64
|         +---ro oc-linecard:free?          uint64
|         +---ro oc-linecard:max-limit?      uint64
|         +---ro oc-linecard:high-watermark?    uint64
|         +---ro oc-linecard:last-high-watermark?    oc-types:timeticks64
|         +---ro oc-linecard:used-threshold-upper-exceeded? boolean
+---rw oc-opt-term:optical-channel
| +---rw oc-opt-term:config
| | +---rw oc-opt-term:frequency?          oc-opt-types:frequency-type
| | +---rw oc-opt-term:target-output-power? decimal64
| | +---rw oc-opt-term:operational-mode?   uint16
| | +---rw oc-opt-term:line-port?         -> /oc-platform:components/component/name
| +---ro oc-opt-term:state
|   +---ro oc-opt-term:frequency?          oc-opt-types:frequency-type
|   +---ro oc-opt-term:target-output-power? decimal64

```

```

|  +--ro oc-opt-term:operational-mode?          uint16
|  +--ro oc-opt-term:line-port?                  -> /oc-platform:components/component/name
|  +--ro oc-opt-term:group-id?                   uint32
|  +--ro oc-opt-term:output-power
|  |  +--ro oc-opt-term:instant?  decimal64
|  |  +--ro oc-opt-term:avg?      decimal64
|  |  +--ro oc-opt-term:min?      decimal64
|  |  +--ro oc-opt-term:max?      decimal64
|  |  +--ro oc-opt-term:interval? oc-types:stat-interval
|  |  +--ro oc-opt-term:min-time? oc-types:timeticks64
|  |  +--ro oc-opt-term:max-time? oc-types:timeticks64
|  +--ro oc-opt-term:input-power
|  |  +--ro oc-opt-term:instant?  decimal64
|  |  +--ro oc-opt-term:avg?      decimal64
|  |  +--ro oc-opt-term:min?      decimal64
|  |  +--ro oc-opt-term:max?      decimal64
|  |  +--ro oc-opt-term:interval? oc-types:stat-interval
|  |  +--ro oc-opt-term:min-time? oc-types:timeticks64
|  |  +--ro oc-opt-term:max-time? oc-types:timeticks64
|  +--ro oc-opt-term:laser-bias-current
|  |  +--ro oc-opt-term:instant?  decimal64
|  |  +--ro oc-opt-term:avg?      decimal64
|  |  +--ro oc-opt-term:min?      decimal64
|  |  +--ro oc-opt-term:max?      decimal64
|  |  +--ro oc-opt-term:interval? oc-types:stat-interval
|  |  +--ro oc-opt-term:min-time? oc-types:timeticks64
|  |  +--ro oc-opt-term:max-time? oc-types:timeticks64
|  +--ro oc-opt-term:chromatic-dispersion
|  |  +--ro oc-opt-term:instant?  decimal64
|  |  +--ro oc-opt-term:avg?      decimal64
|  |  +--ro oc-opt-term:min?      decimal64
|  |  +--ro oc-opt-term:max?      decimal64
|  |  +--ro oc-opt-term:interval? oc-types:stat-interval
|  |  +--ro oc-opt-term:min-time? oc-types:timeticks64
|  |  +--ro oc-opt-term:max-time? oc-types:timeticks64
|  +--ro oc-opt-term:polarization-mode-dispersion
|  |  +--ro oc-opt-term:instant?  decimal64
|  |  +--ro oc-opt-term:avg?      decimal64
|  |  +--ro oc-opt-term:min?      decimal64
|  |  +--ro oc-opt-term:max?      decimal64
|  |  +--ro oc-opt-term:interval? oc-types:stat-interval
|  |  +--ro oc-opt-term:min-time? oc-types:timeticks64

```

```

| | +--ro oc-opt-term:max-time? oc-types:timeticks64
| +--ro oc-opt-term:second-order-polarization-mode-dispersion
| | +--ro oc-opt-term:instant? decimal64
| | +--ro oc-opt-term:avg? decimal64
| | +--ro oc-opt-term:min? decimal64
| | +--ro oc-opt-term:max? decimal64
| | +--ro oc-opt-term:interval? oc-types:stat-interval
| | +--ro oc-opt-term:min-time? oc-types:timeticks64
| | +--ro oc-opt-term:max-time? oc-types:timeticks64
| +--ro oc-opt-term:polarization-dependent-loss
| | +--ro oc-opt-term:instant? decimal64
| | +--ro oc-opt-term:avg? decimal64
| | +--ro oc-opt-term:min? decimal64
| | +--ro oc-opt-term:max? decimal64
| | +--ro oc-opt-term:interval? oc-types:stat-interval
| | +--ro oc-opt-term:min-time? oc-types:timeticks64
| | +--ro oc-opt-term:max-time? oc-types:timeticks64
| +--ro oc-opt-term:modulator-bias-xi
| | +--ro oc-opt-term:instant? decimal64
| | +--ro oc-opt-term:avg? decimal64
| | +--ro oc-opt-term:min? decimal64
| | +--ro oc-opt-term:max? decimal64
| | +--ro oc-opt-term:interval? oc-types:stat-interval
| | +--ro oc-opt-term:min-time? oc-types:timeticks64
| | +--ro oc-opt-term:max-time? oc-types:timeticks64
| +--ro oc-opt-term:modulator-bias-xq
| | +--ro oc-opt-term:instant? decimal64
| | +--ro oc-opt-term:avg? decimal64
| | +--ro oc-opt-term:min? decimal64
| | +--ro oc-opt-term:max? decimal64
| | +--ro oc-opt-term:interval? oc-types:stat-interval
| | +--ro oc-opt-term:min-time? oc-types:timeticks64
| | +--ro oc-opt-term:max-time? oc-types:timeticks64
| +--ro oc-opt-term:modulator-bias-yi
| | +--ro oc-opt-term:instant? decimal64
| | +--ro oc-opt-term:avg? decimal64
| | +--ro oc-opt-term:min? decimal64
| | +--ro oc-opt-term:max? decimal64
| | +--ro oc-opt-term:interval? oc-types:stat-interval
| | +--ro oc-opt-term:min-time? oc-types:timeticks64
| | +--ro oc-opt-term:max-time? oc-types:timeticks64
| +--ro oc-opt-term:modulator-bias-yq

```

```

| | +--ro oc-opt-term:instant? decimal64
| | +--ro oc-opt-term:avg? decimal64
| | +--ro oc-opt-term:min? decimal64
| | +--ro oc-opt-term:max? decimal64
| | +--ro oc-opt-term:interval? oc-types:stat-interval
| | +--ro oc-opt-term:min-time? oc-types:timeticks64
| | +--ro oc-opt-term:max-time? oc-types:timeticks64
| +--ro oc-opt-term:modulator-bias-x-phase
| | +--ro oc-opt-term:instant? decimal64
| | +--ro oc-opt-term:avg? decimal64
| | +--ro oc-opt-term:min? decimal64
| | +--ro oc-opt-term:max? decimal64
| | +--ro oc-opt-term:interval? oc-types:stat-interval
| | +--ro oc-opt-term:min-time? oc-types:timeticks64
| | +--ro oc-opt-term:max-time? oc-types:timeticks64
| +--ro oc-opt-term:modulator-bias-y-phase
| | +--ro oc-opt-term:instant? decimal64
| | +--ro oc-opt-term:avg? decimal64
| | +--ro oc-opt-term:min? decimal64
| | +--ro oc-opt-term:max? decimal64
| | +--ro oc-opt-term:interval? oc-types:stat-interval
| | +--ro oc-opt-term:min-time? oc-types:timeticks64
| | +--ro oc-opt-term:max-time? oc-types:timeticks64
| +--ro oc-opt-term:osnr
| | +--ro oc-opt-term:instant? decimal64
| | +--ro oc-opt-term:avg? decimal64
| | +--ro oc-opt-term:min? decimal64
| | +--ro oc-opt-term:max? decimal64
| | +--ro oc-opt-term:interval? oc-types:stat-interval
| | +--ro oc-opt-term:min-time? oc-types:timeticks64
| | +--ro oc-opt-term:max-time? oc-types:timeticks64
| +--ro oc-opt-term:carrier-frequency-offset
| | +--ro oc-opt-term:instant? decimal64
| | +--ro oc-opt-term:avg? decimal64
| | +--ro oc-opt-term:min? decimal64
| | +--ro oc-opt-term:max? decimal64
| | +--ro oc-opt-term:interval? oc-types:stat-interval
| | +--ro oc-opt-term:min-time? oc-types:timeticks64
| | +--ro oc-opt-term:max-time? oc-types:timeticks64
| +--ro oc-opt-term:sop-roc
| | +--ro oc-opt-term:instant? decimal64
| | +--ro oc-opt-term:avg? decimal64

```



```

| | +--ro oc-opt-term:min?    decimal64
| | +--ro oc-opt-term:max?    decimal64
| | +--ro oc-opt-term:interval? oc-types:stat-interval
| | +--ro oc-opt-term:min-time? oc-types:timeticks64
| | +--ro oc-opt-term:max-time? oc-types:timeticks64
| +--ro oc-opt-term:modulation-error-ratio
| | +--ro oc-opt-term:instant? decimal64
| | +--ro oc-opt-term:avg?    decimal64
| | +--ro oc-opt-term:min?    decimal64
| | +--ro oc-opt-term:max?    decimal64
| | +--ro oc-opt-term:interval? oc-types:stat-interval
| | +--ro oc-opt-term:min-time? oc-types:timeticks64
| | +--ro oc-opt-term:max-time? oc-types:timeticks64
| +--ro oc-opt-term:fec-uncorrectable-blocks? yang:counter64
| +--ro oc-opt-term:pre-fec-ber
| | +--ro oc-opt-term:instant? decimal64
| | +--ro oc-opt-term:avg?    decimal64
| | +--ro oc-opt-term:min?    decimal64
| | +--ro oc-opt-term:max?    decimal64
| | +--ro oc-opt-term:interval? oc-types:stat-interval
| | +--ro oc-opt-term:min-time? oc-types:timeticks64
| | +--ro oc-opt-term:max-time? oc-types:timeticks64
| +--ro oc-opt-term:post-fec-ber
| | +--ro oc-opt-term:instant? decimal64
| | +--ro oc-opt-term:avg?    decimal64
| | +--ro oc-opt-term:min?    decimal64
| | +--ro oc-opt-term:max?    decimal64
| | +--ro oc-opt-term:interval? oc-types:stat-interval
| | +--ro oc-opt-term:min-time? oc-types:timeticks64
| | +--ro oc-opt-term:max-time? oc-types:timeticks64
| +--ro oc-opt-term:q-value
| | +--ro oc-opt-term:instant? decimal64
| | +--ro oc-opt-term:avg?    decimal64
| | +--ro oc-opt-term:min?    decimal64
| | +--ro oc-opt-term:max?    decimal64
| | +--ro oc-opt-term:interval? oc-types:stat-interval
| | +--ro oc-opt-term:min-time? oc-types:timeticks64
| | +--ro oc-opt-term:max-time? oc-types:timeticks64
| +--ro oc-opt-term:esnr
|   +--ro oc-opt-term:instant? decimal64
|   +--ro oc-opt-term:avg?    decimal64
|   +--ro oc-opt-term:min?    decimal64

```

```

|   +--ro oc-opt-term:max?    decimal64
|   +--ro oc-opt-term:interval? oc-types:stat-interval
|   +--ro oc-opt-term:min-time? oc-types:timeticks64
|   +--ro oc-opt-term:max-time? oc-types:timeticks64
+--rw extr-bmc:bmc
+--rw extr-bmc:interfaces
+--rw extr-bmc:interface* [id]
+--rw extr-bmc:id    -> ../config/id
+--rw extr-bmc:config
| +--rw extr-bmc:id?    uint32
| +--rw extr-bmc:ip-mode? string
| +--rw extr-bmc:ip-gateway? oc-inet:ipv4-address
| +--rw extr-bmc:netmask? oc-inet:ipv4-address
| +--rw extr-bmc:ip-address? oc-inet:ipv4-address
| +--rw extr-bmc:enable? boolean
+--ro extr-bmc:state
+--ro extr-bmc:id?    uint32
+--ro extr-bmc:ip-mode? string
+--ro extr-bmc:ip-gateway? oc-inet:ipv4-address
+--ro extr-bmc:netmask? oc-inet:ipv4-address
+--ro extr-bmc:ip-address? oc-inet:ipv4-address
+--ro extr-bmc:enable? boolean

```

module: openconfig-interfaces

```

+--rw interfaces
+--rw interface* [name]
+--rw name    -> ../config/name
+--rw config
| +--rw name?    string
| +--rw type    identityref
| +--rw mtu?    uint16
| +--rw loopback-mode? oc-opt-types:loopback-mode-type
| +--rw description? string
| +--rw enabled? boolean
| +--rw oc-vlan:tpid? identityref
| +--rw oc-if-sdn:forwarding-viable? boolean
+--ro state
| +--ro name?    string
| +--ro type    identityref
| +--ro mtu?    uint16
| +--ro loopback-mode? oc-opt-types:loopback-mode-type
| +--ro description? string

```

```

| +--ro enabled?                boolean
| +--ro ifindex?                uint32
| +--ro admin-status            enumeration
| +--ro oper-status             enumeration
| +--ro last-change?            oc-types:timeticks64
| +--ro management?            boolean
| +--ro cpu?                    boolean
| +--ro counters
| | +--ro in-octets?            oc-yang:counter64
| | +--ro in-pkts?              oc-yang:counter64
| | +--ro in-unicast-pkts?      oc-yang:counter64
| | +--ro in-broadcast-pkts?    oc-yang:counter64
| | +--ro in-multicast-pkts?    oc-yang:counter64
| | +--ro in-errors?            oc-yang:counter64
| | +--ro in-discards?          oc-yang:counter64
| | +--ro out-octets?           oc-yang:counter64
| | +--ro out-pkts?             oc-yang:counter64
| | +--ro out-unicast-pkts?      oc-yang:counter64
| | +--ro out-broadcast-pkts?    oc-yang:counter64
| | +--ro out-multicast-pkts?    oc-yang:counter64
| | +--ro out-discards?          oc-yang:counter64
| | +--ro out-errors?            oc-yang:counter64
| | +--ro last-clear?           oc-types:timeticks64
| | +--ro in-unknown-protos?     oc-yang:counter64
| | +--ro in-fcs-errors?         oc-yang:counter64
| | +--ro carrier-transitions?   oc-yang:counter64
| | +--ro extr-if-ext:if-mib-counter
| |   +--ro extr-if-ext:if-counter-discontinuity-time? string
| +--ro oc-vlan:tpid?            identityref
| +--ro oc-port:hardware-port?    -> /oc-platform:components/component/name
|   +--ro oc-transceiver:transceiver?    -> /oc-platform:components/component[oc-
platform:name=current()]/../oc-port:hardware-port]/oc-
platform:subcomponents/subcomponent/name
|     +--ro oc-transceiver:physical-channel*    -> /oc-platform:components/component[oc-
platform:name=current()]/../oc-transceiver:transceiver]/transceiver/physical-
channels/channel/index
|   +--ro oc-if-sdn:forwarding-viable?    boolean
|   +--ro extr-if-ext:if-mib
|     +--ro extr-if-ext:if-last-change?    string
|   +--ro extr-if-ext:oper-down-reason?    identityref
|   +--ro extr-if-ext:max-supported-speed* identityref
+--rw subinterfaces

```

```

| +--rw subinterface* [index]
|   +--rw index      -> ../config/index
|   +--rw config
|     | +--rw index?      uint32
|     | +--rw description? string
|     | +--rw enabled?    boolean
|     | +--rw extr-if-ext:if-mode? identityref
|     +--ro state
|       | +--ro index?      uint32
|       | +--ro description? string
|       | +--ro enabled?    boolean
|       | +--ro name?      string
|       | +--ro ifindex?    uint32
|       | +--ro admin-status enumeration
|       | +--ro oper-status enumeration
|       | +--ro last-change? oc-types:timeticks64
|       | +--ro logical?    boolean
|       | +--ro management? boolean
|       | +--ro cpu?        boolean
|       | +--ro counters
|       | | +--ro in-octets?  oc-yang:counter64
|       | | +--ro in-pkts?   oc-yang:counter64
|       | | +--ro in-unicast-pkts? oc-yang:counter64
|       | | +--ro in-broadcast-pkts? oc-yang:counter64
|       | | +--ro in-multicast-pkts? oc-yang:counter64
|       | | +--ro in-errors?  oc-yang:counter64
|       | | +--ro in-discards? oc-yang:counter64
|       | | +--ro out-octets?  oc-yang:counter64
|       | | +--ro out-pkts?   oc-yang:counter64
|       | | +--ro out-unicast-pkts? oc-yang:counter64
|       | | +--ro out-broadcast-pkts? oc-yang:counter64
|       | | +--ro out-multicast-pkts? oc-yang:counter64
|       | | +--ro out-discards? oc-yang:counter64
|       | | +--ro out-errors?  oc-yang:counter64
|       | | +--ro last-clear?  oc-types:timeticks64
|       | | x--ro in-unknown-protos? oc-yang:counter64
|       | | x--ro in-fcs-errors?  oc-yang:counter64
|       | | x--ro carrier-transitions? oc-yang:counter64
|       | +--ro extr-if-ext:oper-down-reason? identityref
|       | +--ro extr-if-ext:if-mode?    identityref
|     +--rw oc-vlan:vlan
|     | +--rw oc-vlan:config

```

```

| | | x--rw oc-vlan:vlan-id? union
| | | +--ro oc-vlan:state
| | | x--ro oc-vlan:vlan-id? union
| | | +--rw oc-vlan:match
| | | +--rw oc-vlan:single-tagged
| | | | +--rw oc-vlan:config
| | | | | +--rw oc-vlan:vlan-id? oc-vlan-types:vlan-id
| | | | | +--ro oc-vlan:state
| | | | | +--ro oc-vlan:vlan-id? oc-vlan-types:vlan-id
| | | | +--rw oc-vlan:single-tagged-list
| | | | +--rw oc-vlan:config
| | | | | +--rw oc-vlan:vlan-ids* oc-vlan-types:vlan-id
| | | | | +--ro oc-vlan:state
| | | | | +--ro oc-vlan:vlan-ids* oc-vlan-types:vlan-id
| | | | +--rw oc-vlan:single-tagged-range
| | | | +--rw oc-vlan:config
| | | | | +--rw oc-vlan:low-vlan-id? oc-vlan-types:vlan-id
| | | | | +--rw oc-vlan:high-vlan-id? oc-vlan-types:vlan-id
| | | | | +--ro oc-vlan:state
| | | | | +--ro oc-vlan:low-vlan-id? oc-vlan-types:vlan-id
| | | | | +--ro oc-vlan:high-vlan-id? oc-vlan-types:vlan-id
| | | | +--rw oc-vlan:double-tagged
| | | | | +--rw oc-vlan:config
| | | | | | +--rw oc-vlan:inner-vlan-id? oc-vlan-types:vlan-id
| | | | | | +--rw oc-vlan:outer-vlan-id? oc-vlan-types:vlan-id
| | | | | | +--ro oc-vlan:state
| | | | | | +--ro oc-vlan:inner-vlan-id? oc-vlan-types:vlan-id
| | | | | | +--ro oc-vlan:outer-vlan-id? oc-vlan-types:vlan-id
| | | | +--rw oc-vlan:double-tagged-inner-list
| | | | | +--rw oc-vlan:config
| | | | | | +--rw oc-vlan:inner-vlan-ids* oc-vlan-types:vlan-id
| | | | | | +--rw oc-vlan:outer-vlan-id? oc-vlan-types:vlan-id
| | | | | | +--ro oc-vlan:state
| | | | | | +--ro oc-vlan:inner-vlan-ids* oc-vlan-types:vlan-id
| | | | | | +--ro oc-vlan:outer-vlan-id? oc-vlan-types:vlan-id
| | | | +--rw oc-vlan:double-tagged-outer-list
| | | | | +--rw oc-vlan:config
| | | | | | +--rw oc-vlan:inner-vlan-id? oc-vlan-types:vlan-id
| | | | | | +--rw oc-vlan:outer-vlan-ids* oc-vlan-types:vlan-id
| | | | | | +--ro oc-vlan:state
| | | | | | +--ro oc-vlan:inner-vlan-id? oc-vlan-types:vlan-id
| | | | | | +--ro oc-vlan:outer-vlan-ids* oc-vlan-types:vlan-id

```

```

| | | +--rw oc-vlan:double-tagged-inner-range
| | | | +--rw oc-vlan:config
| | | | | +--rw oc-vlan:inner-low-vlan-id? oc-vlan-types:vlan-id
| | | | | +--rw oc-vlan:inner-high-vlan-id? oc-vlan-types:vlan-id
| | | | | +--rw oc-vlan:outer-vlan-id* oc-vlan-types:vlan-id
| | | | +--ro oc-vlan:state
| | | | | +--ro oc-vlan:inner-low-vlan-id? oc-vlan-types:vlan-id
| | | | | +--ro oc-vlan:inner-high-vlan-id? oc-vlan-types:vlan-id
| | | | | +--ro oc-vlan:outer-vlan-id* oc-vlan-types:vlan-id
| | | +--rw oc-vlan:double-tagged-outer-range
| | | | +--rw oc-vlan:config
| | | | | +--rw oc-vlan:inner-vlan-id? oc-vlan-types:vlan-id
| | | | | +--rw oc-vlan:outer-low-vlan-id? oc-vlan-types:vlan-id
| | | | | +--rw oc-vlan:outer-high-vlan-id? oc-vlan-types:vlan-id
| | | | +--ro oc-vlan:state
| | | | | +--ro oc-vlan:inner-vlan-id? oc-vlan-types:vlan-id
| | | | | +--ro oc-vlan:outer-low-vlan-id? oc-vlan-types:vlan-id
| | | | | +--ro oc-vlan:outer-high-vlan-id? oc-vlan-types:vlan-id
| | | +--rw oc-vlan:double-tagged-inner-outer-range
| | | | +--rw oc-vlan:config
| | | | | +--rw oc-vlan:inner-low-vlan-id? oc-vlan-types:vlan-id
| | | | | +--rw oc-vlan:inner-high-vlan-id? oc-vlan-types:vlan-id
| | | | | +--rw oc-vlan:outer-low-vlan-id? oc-vlan-types:vlan-id
| | | | | +--rw oc-vlan:outer-high-vlan-id? oc-vlan-types:vlan-id
| | | | +--ro oc-vlan:state
| | | | | +--ro oc-vlan:inner-low-vlan-id? oc-vlan-types:vlan-id
| | | | | +--ro oc-vlan:inner-high-vlan-id? oc-vlan-types:vlan-id
| | | | | +--ro oc-vlan:outer-low-vlan-id? oc-vlan-types:vlan-id
| | | | | +--ro oc-vlan:outer-high-vlan-id? oc-vlan-types:vlan-id
| | | +--rw extr-vlan-ext:un-tagged
| | | | +--rw extr-vlan-ext:config
| | | | | +--rw extr-vlan-ext:vlan-id? oc-vlan-types:vlan-id
| | | | | +--rw extr-vlan-ext:accept-mode? identityref
| | | | +--ro extr-vlan-ext:state
| | | | | +--ro extr-vlan-ext:vlan-id? oc-vlan-types:vlan-id
| | | | | +--ro extr-vlan-ext:accept-mode? identityref
| | | +--rw oc-vlan:ingress-mapping
| | | | +--rw oc-vlan:config
| | | | | +--rw oc-vlan:vlan-stack-action? oc-vlan-types:vlan-stack-action
| | | | | +--rw oc-vlan:vlan-id? oc-vlan-types:vlan-id
| | | | | +--rw oc-vlan:tpid? identityref
| | | | +--ro oc-vlan:state

```

```

| | | +--ro oc-vlan:vlan-stack-action? oc-vlan-types:vlan-stack-action
| | | +--ro oc-vlan:vlan-id?          oc-vlan-types:vlan-id
| | | +--ro oc-vlan:tpid?            identityref
| | +--rw oc-vlan:egress-mapping
| |   +--rw oc-vlan:config
| |     | +--rw oc-vlan:vlan-stack-action? oc-vlan-types:vlan-stack-action
| |     | +--rw oc-vlan:vlan-id?          oc-vlan-types:vlan-id
| |     | +--rw oc-vlan:tpid?            identityref
| |     +--ro oc-vlan:state
| |       +--ro oc-vlan:vlan-stack-action? oc-vlan-types:vlan-stack-action
| |       +--ro oc-vlan:vlan-id?          oc-vlan-types:vlan-id
| |       +--ro oc-vlan:tpid?            identityref
| +--rw oc-ip:ipv4
| | +--rw oc-ip:addresses
| | | +--rw oc-ip:address* [ip]
| | |   +--rw oc-ip:ip    -> ../config/ip
| | |   +--rw oc-ip:config
| | |     | +--rw oc-ip:ip?          oc-inet:ipv4-address
| | |     | +--rw oc-ip:prefix-length? uint8
| | |     | +--rw extr-ip-ext:secondary? boolean
| | |     +--ro oc-ip:state
| | |       +--ro oc-ip:ip?          oc-inet:ipv4-address
| | |       +--ro oc-ip:prefix-length? uint8
| | |       +--ro oc-ip:origin?      ip-address-origin
| | |       +--ro extr-ip-ext:secondary? boolean
| | |       +--ro extr-ip-ext:status? enumeration
| | +--rw oc-ip:neighbors
| | | +--rw oc-ip:neighbor* [ip]
| | |   +--rw oc-ip:ip    -> ../config/ip
| | |   +--rw oc-ip:config
| | |     | +--rw oc-ip:ip?          oc-inet:ipv4-address
| | |     | +--rw oc-ip:link-layer-address oc-yang:phys-address
| | |     +--ro oc-ip:state
| | |       +--ro oc-ip:ip?          oc-inet:ipv4-address
| | |       +--ro oc-ip:link-layer-address oc-yang:phys-address
| | |       +--ro oc-ip:origin?      neighbor-origin
| | +--rw oc-ip:config
| | | +--rw oc-ip:enabled?          boolean
| | | +--rw oc-ip:mtu?              uint16
| | | +--rw oc-ip:dhcp-client?      boolean
| | | +--rw extr-ip-ext:neighbor-reachable-time? uint16
| | +--ro oc-ip:state

```

```

| | +--ro oc-ip:enabled?          boolean
| | +--ro oc-ip:mtu?             uint16
| | +--ro oc-ip:dhcp-client?     boolean
| | +--ro oc-ip:counters
| | | +--ro oc-ip:in-pkts?       oc-yang:counter64
| | | +--ro oc-ip:in-octets?     oc-yang:counter64
| | | +--ro oc-ip:in-error-pkts? oc-yang:counter64
| | | +--ro oc-ip:in-forwarded-pkts? oc-yang:counter64
| | | +--ro oc-ip:in-forwarded-octets? oc-yang:counter64
| | | +--ro oc-ip:in-discarded-pkts? oc-yang:counter64
| | | +--ro oc-ip:out-pkts?      oc-yang:counter64
| | | +--ro oc-ip:out-octets?    oc-yang:counter64
| | | +--ro oc-ip:out-error-pkts? oc-yang:counter64
| | | +--ro oc-ip:out-forwarded-pkts? oc-yang:counter64
| | | +--ro oc-ip:out-forwarded-octets? oc-yang:counter64
| | | +--ro oc-ip:out-discarded-pkts? oc-yang:counter64
| | +--ro extr-ip-ext:neighbor-reachabletime? uint16
| +--rw oc-ip:ipv6
| | +--rw oc-ip:addresses
| | | +--rw oc-ip:address* [ip]
| | | | +--rw oc-ip:ip -> ../config/ip
| | | | +--rw oc-ip:config
| | | | | +--rw oc-ip:ip?          oc-inet:ipv6-address
| | | | | +--rw oc-ip:prefix-length uint8
| | | | | +--rw extr-ip-ext:secondary? boolean
| | | | | +--rw extr-ip-ext:eui-64? boolean
| | | +--ro oc-ip:state
| | | | +--ro oc-ip:ip?          oc-inet:ipv6-address
| | | | +--ro oc-ip:prefix-length uint8
| | | | +--ro oc-ip:origin?      ip-address-origin
| | | | +--ro oc-ip:status?      enumeration
| | | | +--ro extr-ip-ext:secondary? boolean
| | | | +--ro extr-ip-ext:eui-64? boolean
| +--rw oc-ip:neighbors
| | +--rw oc-ip:neighbor* [ip]
| | | +--rw oc-ip:ip -> ../config/ip
| | | +--rw oc-ip:config
| | | | +--rw oc-ip:ip?          oc-inet:ipv6-address
| | | | +--rw oc-ip:link-layer-address oc-yang:phys-address
| | | +--ro oc-ip:state
| | | | +--ro oc-ip:ip?          oc-inet:ipv6-address
| | | | +--ro oc-ip:link-layer-address oc-yang:phys-address

```



```

| | +--ro oc-ip:origin?      neighbor-origin
| | +--ro oc-ip:is-router?   boolean
| | +--ro oc-ip:neighbor-state? enumeration
| +--rw oc-ip:config
| | +--rw oc-ip:enabled?      boolean
| | +--rw oc-ip:mtu?          uint32
| | +--rw oc-ip:dup-addr-detect-transmits? uint32
| | +--rw oc-ip:dhcp-client?  boolean
| | +--rw extr-ip-ext:neighbor-reachabletime? uint16
| +--ro oc-ip:state
| | +--ro oc-ip:enabled?      boolean
| | +--ro oc-ip:mtu?          uint32
| | +--ro oc-ip:dup-addr-detect-transmits? uint32
| | +--ro oc-ip:dhcp-client?  boolean
| | +--ro oc-ip:counters
| | | +--ro oc-ip:in-pkts?      oc-yang:counter64
| | | +--ro oc-ip:in-octets?    oc-yang:counter64
| | | +--ro oc-ip:in-error-pkts? oc-yang:counter64
| | | +--ro oc-ip:in-forwarded-pkts? oc-yang:counter64
| | | +--ro oc-ip:in-forwarded-octets? oc-yang:counter64
| | | +--ro oc-ip:in-discarded-pkts? oc-yang:counter64
| | | +--ro oc-ip:out-pkts?      oc-yang:counter64
| | | +--ro oc-ip:out-octets?    oc-yang:counter64
| | | +--ro oc-ip:out-error-pkts? oc-yang:counter64
| | | +--ro oc-ip:out-forwarded-pkts? oc-yang:counter64
| | | +--ro oc-ip:out-forwarded-octets? oc-yang:counter64
| | | +--ro oc-ip:out-discarded-pkts? oc-yang:counter64
| | +--ro extr-ip-ext:neighbor-reachabletime? uint16
| +--rw oc-ip-ext:autoconf
| | +--rw oc-ip-ext:config
| | | +--rw oc-ip-ext:create-global-addresses? boolean
| | | +--rw oc-ip-ext:create-temporary-addresses? boolean
| | | +--rw oc-ip-ext:temporary-valid-lifetime? uint32
| | | +--rw oc-ip-ext:temporary-preferred-lifetime? uint32
| | +--ro oc-ip-ext:state
| | | +--ro oc-ip-ext:create-global-addresses? boolean
| | | +--ro oc-ip-ext:create-temporary-addresses? boolean
| | | +--ro oc-ip-ext:temporary-valid-lifetime? uint32
| | | +--ro oc-ip-ext:temporary-preferred-lifetime? uint32
+--rw oc-eth:ethernet
| +--rw oc-eth:config
| | +--rw oc-eth:mac-address?      oc-yang:mac-address

```

	++rw oc-eth:enable-flow-control?	boolean
	++rw oc-eth:auto-negotiate?	boolean
	++rw oc-eth:standalone-link-training?	boolean
	++rw oc-eth:duplex-mode?	enumeration
	++rw oc-eth:port-speed?	identityref
	++rw oc-eth:fec-mode?	identityref
	++rw oc-lag:aggregate-id?	-> /oc-if:interfaces/interface/name
	++rw extr-eth-ext:ethernet-link-dampening	
	++rw extr-eth-ext:enable?	boolean
	++rw extr-eth-ext:suppress-threshold?	uint32
	++rw extr-eth-ext:reuse-threshold?	uint32
	++rw extr-eth-ext:max-penalty?	uint32
	++rw extr-eth-ext:decay-half-life?	uint32
	++rw extr-eth-ext:max-suppress-time?	uint32
	++rw extr-eth-ext:fec	
	++rw extr-eth-ext:fec-mode?	fec-mode-type
	++rw extr-eth-ext:link-fault-signaling?	boolean
	++rw extr-eth-ext:interfaces-auto?	boolean
	++rw extr-eth-ext:interfaces-auto-negotiation?	boolean
	++rw extr-eth-ext:interfaces-loopback-mode?	boolean
	++ro oc-eth:state	
	++ro oc-eth:mac-address?	oc-yang:mac-address
	++ro oc-eth:enable-flow-control?	boolean
	++ro oc-eth:auto-negotiate?	boolean
	++ro oc-eth:standalone-link-training?	boolean
	++ro oc-eth:duplex-mode?	enumeration
	++ro oc-eth:port-speed?	identityref
	++ro oc-eth:fec-mode?	identityref
	++ro oc-eth:hw-mac-address?	oc-yang:mac-address
	++ro oc-eth:negotiated-duplex-mode?	enumeration
	++ro oc-eth:negotiated-port-speed?	identityref
	++ro oc-eth:counters	
	++ro oc-eth:in-mac-control-frames?	oc-yang:counter64
	++ro oc-eth:in-mac-pause-frames?	oc-yang:counter64
	++ro oc-eth:in-oversize-frames?	oc-yang:counter64
	++ro oc-eth:in-undersize-frames?	oc-yang:counter64
	++ro oc-eth:in-jabber-frames?	oc-yang:counter64
	++ro oc-eth:in-fragment-frames?	oc-yang:counter64
	++ro oc-eth:in-8021q-frames?	oc-yang:counter64
	++ro oc-eth:in-crc-errors?	oc-yang:counter64
	++ro oc-eth:in-block-errors?	oc-yang:counter64
	++ro oc-eth:in-carrier-errors?	oc-yang:counter64

```

| | | +--ro oc-eth:in-interrupted-tx?      oc-yang:counter64
| | | +--ro oc-eth:in-late-collision?      oc-yang:counter64
| | | +--ro oc-eth:in-mac-errors-rx?      oc-yang:counter64
| | | +--ro oc-eth:in-single-collision?    oc-yang:counter64
| | | +--ro oc-eth:in-symbol-error?       oc-yang:counter64
| | | +--ro oc-eth:in-maxsize-exceeded?    oc-yang:counter64
| | | +--ro oc-eth:out-mac-control-frames? oc-yang:counter64
| | | +--ro oc-eth:out-mac-pause-frames?   oc-yang:counter64
| | | +--ro oc-eth:out-8021q-frames?       oc-yang:counter64
| | | +--ro oc-eth:out-mac-errors-tx?      oc-yang:counter64
| | | +--ro oc-eth-ext:in-distribution
| | | | +--ro oc-eth-ext:in-frames-64-octets?  oc-yang:counter64
| | | | +--ro oc-eth-ext:in-frames-65-127-octets? oc-yang:counter64
| | | | +--ro oc-eth-ext:in-frames-128-255-octets? oc-yang:counter64
| | | | +--ro oc-eth-ext:in-frames-256-511-octets? oc-yang:counter64
| | | | +--ro oc-eth-ext:in-frames-512-1023-octets? oc-yang:counter64
| | | | +--ro oc-eth-ext:in-frames-1024-1518-octets? oc-yang:counter64
| | | +--ro extr-eth-ext:bandwidth-utilization
| | | | +--ro extr-eth-ext:in-pkts-per-sec?      uint64
| | | | +--ro extr-eth-ext:out-pkts-per-sec?     uint64
| | | | +--ro extr-eth-ext:in-bits-per-sec?      uint64
| | | | +--ro extr-eth-ext:out-bits-per-sec?     uint64
| | | | +--ro extr-eth-ext:in-bandwidth-percentage? oc-types:percentage
| | | | +--ro extr-eth-ext:out-bandwidth-percentage? oc-types:percentage
| | | +--ro extr-eth-ext:eth-fec-counters
| | | | +--ro extr-eth-ext:fec-uncorrected-pkts? oc-yang:counter64
| | | | +--ro extr-eth-ext:fec-corrected-pkts?  oc-yang:counter64
| | | +--ro extr-eth-ext:in-overflow-frames?    oc-yang:counter64
| | | +--ro extr-eth-ext:out-carrier-errors-tx?  oc-yang:counter64
| | | +--ro extr-eth-ext:out-collisions-tx?     oc-yang:counter64
| | +--ro oc-lag:aggregate-id?                  -> /oc-if:interfaces/interface/name
| | +--ro extr-eth-ext:ethernet-link-dampening
| | | +--ro extr-eth-ext:enable?                 boolean
| | | +--ro extr-eth-ext:suppress-threshold?     uint32
| | | +--ro extr-eth-ext:reuse-threshold?        uint32
| | | +--ro extr-eth-ext:max-penalty?            uint32
| | | +--ro extr-eth-ext:decay-half-life?        uint32
| | | +--ro extr-eth-ext:max-suppress-time?      uint32
| | +--ro extr-eth-ext:ethernet-link-dampening-status
| | | +--ro extr-eth-ext:link-dampening-status?  uint32
| | | +--ro extr-eth-ext:last-updated?          oc-types:timeticks64
| | +--ro extr-eth-ext:fec

```

```

| | | +--ro extr-eth-ext:fec-mode? fec-mode-type
| | +--ro extr-eth-ext:link-fault-signaling? boolean
| | +--ro extr-eth-ext:link-fault-status? string
| | +--ro extr-eth-ext:local-fault-count? uint64
| | +--ro extr-eth-ext:remote-fault-count? uint64
| | +--ro extr-eth-ext:last-local-fault? oc-types:timeticks64
| | +--ro extr-eth-ext:last-remote-fault? oc-types:timeticks64
| | +--ro extr-eth-ext:interfaces-auto? boolean
| | +--ro extr-eth-ext:interfaces-auto-negotiation? boolean
| | +--ro extr-eth-ext:interfaces-loopback-mode? boolean
| +--rw oc-1x:dot1x
| | +--rw oc-1x:config
| | | +--rw oc-1x:authenticate-port? boolean
| | | +--rw oc-1x:host-mode? enumeration
| | | +--rw oc-1x:reauthenticate-interval? uint16
| | | +--rw oc-1x:retransmit-interval? uint16
| | | +--rw oc-1x:supplicant-timeout? uint16
| | | +--rw oc-1x:max-requests? uint16
| | | +--rw oc-1x:server-fail-vlan? union
| | | +--rw oc-1x:auth-fail-vlan? union
| | +--ro oc-1x:state
| | | +--ro oc-1x:authenticate-port? boolean
| | | +--ro oc-1x:host-mode? enumeration
| | | +--ro oc-1x:reauthenticate-interval? uint16
| | | +--ro oc-1x:retransmit-interval? uint16
| | | +--ro oc-1x:supplicant-timeout? uint16
| | | +--ro oc-1x:max-requests? uint16
| | | +--ro oc-1x:server-fail-vlan? union
| | | +--ro oc-1x:auth-fail-vlan? union
| +--rw oc-1x:authenticated-sessions
| | +--ro oc-1x:authenticated-session* [mac]
| | | +--ro oc-1x:mac -> ../state/mac
| | | +--ro oc-1x:state
| | | | +--ro oc-1x:mac? oc-yang:mac-address
| | | | +--ro oc-1x:session-id? string
| | | | +--ro oc-1x:status? enumeration
| +--rw oc-poe:poe
| | +--rw oc-poe:config
| | | +--rw oc-poe:enabled? boolean
| | +--ro oc-poe:state
| | | +--ro oc-poe:enabled? boolean
| | +--ro oc-poe:power-used? decimal64

```

```

|   +--ro oc-poe:power-class?  uint8
+--rw oc-lag:aggregation
|   +--rw oc-lag:config
|   |   +--rw oc-lag:lag-type?          aggregation-type
|   |   +--rw oc-lag:min-links?         uint16
|   |   +--rw extr-lag-ext:lag-load-balance-method? aggregation-load-balance-method
|   +--ro oc-lag:state
|   |   +--ro oc-lag:lag-type?          aggregation-type
|   |   +--ro oc-lag:min-links?         uint16
|   |   +--ro oc-lag:lag-speed?         uint32
|   |   +--ro oc-lag:member*            oc-if:base-interface-ref
|   |   +--ro extr-lag-ext:member-list*  oc-if:base-interface-ref
|   |   +--ro extr-lag-ext:active-member-list*  oc-if:base-interface-ref
|   |   +--ro extr-lag-ext:lag-load-balance-method? aggregation-load-balance-method
+--rw oc-vlan:routed-vlan
|   +--rw oc-vlan:config
|   |   +--rw oc-vlan:vlan?  union
|   +--ro oc-vlan:state
|   |   +--ro oc-vlan:vlan?  union
|   +--rw oc-ip:ipv4
|   |   +--rw oc-ip:addresses
|   |   |   +--rw oc-ip:address* [ip]
|   |   |   |   +--rw oc-ip:ip      -> ../config/ip
|   |   |   |   +--rw oc-ip:config
|   |   |   |   |   +--rw oc-ip:ip?          oc-inet:ipv4-address
|   |   |   |   |   +--rw oc-ip:prefix-length?  uint8
|   |   |   |   |   +--rw extr-ip-ext:secondary?  boolean
|   |   |   |   |   +--rw extr-ip-ext:anycast-gateway? boolean
|   |   |   |   +--ro oc-ip:state
|   |   |   |   |   +--ro oc-ip:ip?          oc-inet:ipv4-address
|   |   |   |   |   +--ro oc-ip:prefix-length?  uint8
|   |   |   |   |   +--ro oc-ip:origin?         ip-address-origin
|   |   |   |   |   +--ro extr-ip-ext:secondary?  boolean
|   |   |   |   |   +--ro extr-ip-ext:anycast-gateway? boolean
|   |   |   |   |   +--ro extr-ip-ext:status?    enumeration
|   |   +--rw oc-ip:neighbors
|   |   |   +--rw oc-ip:neighbor* [ip]
|   |   |   |   +--rw oc-ip:ip      -> ../config/ip
|   |   |   |   +--rw oc-ip:config
|   |   |   |   |   +--rw oc-ip:ip?          oc-inet:ipv4-address
|   |   |   |   |   +--rw oc-ip:link-layer-address  oc-yang:phys-address
|   |   +--ro oc-ip:state

```

```

| | |   +--ro oc-ip:ip?          oc-inet:ipv4-address
| | |   +--ro oc-ip:link-layer-address  oc-yang:phys-address
| | |   +--ro oc-ip:origin?       neighbor-origin
| | +--rw oc-ip:config
| | | +--rw oc-ip:enabled?        boolean
| | | +--rw oc-ip:mtu?           uint16
| | | +--rw oc-ip:dhcp-client?    boolean
| | | +--rw extr-ip-ext:neighbor-reachabletime? uint16
| | +--ro oc-ip:state
| |   +--ro oc-ip:enabled?        boolean
| |   +--ro oc-ip:mtu?           uint16
| |   +--ro oc-ip:dhcp-client?    boolean
| |   +--ro oc-ip:counters
| | |   +--ro oc-ip:in-pkts?       oc-yang:counter64
| | |   +--ro oc-ip:in-octets?     oc-yang:counter64
| | |   +--ro oc-ip:in-error-pkts? oc-yang:counter64
| | |   +--ro oc-ip:in-forwarded-pkts? oc-yang:counter64
| | |   +--ro oc-ip:in-forwarded-octets? oc-yang:counter64
| | |   +--ro oc-ip:in-discarded-pkts? oc-yang:counter64
| | |   +--ro oc-ip:out-pkts?      oc-yang:counter64
| | |   +--ro oc-ip:out-octets?    oc-yang:counter64
| | |   +--ro oc-ip:out-error-pkts? oc-yang:counter64
| | |   +--ro oc-ip:out-forwarded-pkts? oc-yang:counter64
| | |   +--ro oc-ip:out-forwarded-octets? oc-yang:counter64
| | |   +--ro oc-ip:out-discarded-pkts? oc-yang:counter64
| |   +--ro extr-ip-ext:neighbor-reachabletime? uint16
| +--rw oc-ip:ipv6
|   +--rw oc-ip:addresses
| |   +--rw oc-ip:address* [ip]
| |   +--rw oc-ip:ip    -> ../config/ip
| |   +--rw oc-ip:config
| | |   +--rw oc-ip:ip?          oc-inet:ipv6-address
| | |   +--rw oc-ip:prefix-length  uint8
| | |   +--rw extr-ip-ext:secondary? boolean
| | |   +--rw extr-ip-ext:anycast-gateway? boolean
| | |   +--rw extr-ip-ext:eui-64?  boolean
| |   +--ro oc-ip:state
| | |   +--ro oc-ip:ip?          oc-inet:ipv6-address
| | |   +--ro oc-ip:prefix-length  uint8
| | |   +--ro oc-ip:origin?       ip-address-origin
| | |   +--ro oc-ip:status?       enumeration
| | |   +--ro extr-ip-ext:secondary? boolean

```

```

| |   +--ro extr-ip-ext:anycast-gateway?  boolean
| |   +--ro extr-ip-ext:eui-64?           boolean
| +--rw oc-ip:neighbors
| |   +--rw oc-ip:neighbor* [ip]
| |   +--rw oc-ip:ip      -> ../config/ip
| |   +--rw oc-ip:config
| | |   +--rw oc-ip:ip?          oc-inet:ipv6-address
| | |   +--rw oc-ip:link-layer-address  oc-yang:phys-address
| |   +--ro oc-ip:state
| |   +--ro oc-ip:ip?          oc-inet:ipv6-address
| |   +--ro oc-ip:link-layer-address  oc-yang:phys-address
| |   +--ro oc-ip:origin?      neighbor-origin
| |   +--ro oc-ip:is-router?    boolean
| |   +--ro oc-ip:neighbor-state? enumeration
| +--rw oc-ip:config
| |   +--rw oc-ip:enabled?      boolean
| |   +--rw oc-ip:mtu?          uint32
| |   +--rw oc-ip:dup-addr-detect-transmits?  uint32
| |   +--rw oc-ip:dhcp-client?  boolean
| |   +--rw extr-ip-ext:neighbor-reachabletime? uint16
| +--ro oc-ip:state
| |   +--ro oc-ip:enabled?      boolean
| |   +--ro oc-ip:mtu?          uint32
| |   +--ro oc-ip:dup-addr-detect-transmits?  uint32
| |   +--ro oc-ip:dhcp-client?  boolean
| +--ro oc-ip:counters
| |   +--ro oc-ip:in-pkts?      oc-yang:counter64
| |   +--ro oc-ip:in-octets?    oc-yang:counter64
| |   +--ro oc-ip:in-error-pkts?  oc-yang:counter64
| |   +--ro oc-ip:in-forwarded-pkts?  oc-yang:counter64
| |   +--ro oc-ip:in-forwarded-octets?  oc-yang:counter64
| |   +--ro oc-ip:in-discarded-pkts?  oc-yang:counter64
| |   +--ro oc-ip:out-pkts?      oc-yang:counter64
| |   +--ro oc-ip:out-octets?    oc-yang:counter64
| |   +--ro oc-ip:out-error-pkts?  oc-yang:counter64
| |   +--ro oc-ip:out-forwarded-pkts?  oc-yang:counter64
| |   +--ro oc-ip:out-forwarded-octets?  oc-yang:counter64
| |   +--ro oc-ip:out-discarded-pkts?  oc-yang:counter64
|   +--ro extr-ip-ext:neighbor-reachabletime? uint16
+--rw oc-tun:tunnel
| +--rw oc-tun:config
| | +--rw oc-tun:src?  oc-inet:ip-address

```

```

| | +--rw oc-tun:dst?  oc-inet:ip-address
| | +--rw oc-tun:ttl?  uint8
| +--ro oc-tun:state
| | +--ro oc-tun:src?  oc-inet:ip-address
| | +--ro oc-tun:dst?  oc-inet:ip-address
| | +--ro oc-tun:ttl?  uint8
| +--rw oc-tun:ipv4
| | +--rw oc-tun:addresses
| | | +--rw oc-tun:address* [ip]
| | |   +--rw oc-tun:ip      -> ../config/ip
| | |   +--rw oc-tun:config
| | |     | +--rw oc-tun:ip?      oc-inet:ipv4-address
| | |     | +--rw oc-tun:prefix-length?  uint8
| | |     +--ro oc-tun:state
| | |       +--ro oc-tun:ip?      oc-inet:ipv4-address
| | |       +--ro oc-tun:prefix-length?  uint8
| | |       +--ro oc-tun:origin?   ip-address-origin
| | |       +--ro extr-ip-ext:secondary?  boolean
| | |       +--ro extr-ip-ext:status?  enumeration
| | +--rw oc-tun:neighbors
| | | +--rw oc-tun:neighbor* [ip]
| | |   +--rw oc-tun:ip      -> ../config/ip
| | |   +--rw oc-tun:config
| | |     | +--rw oc-tun:ip?      oc-inet:ipv4-address
| | |     | +--rw oc-tun:link-layer-address  oc-yang:phys-address
| | |     +--ro oc-tun:state
| | |       +--ro oc-tun:ip?      oc-inet:ipv4-address
| | |       +--ro oc-tun:link-layer-address  oc-yang:phys-address
| | |       +--ro oc-tun:origin?   neighbor-origin
| | +--rw oc-tun:config
| | | +--rw oc-tun:enabled?  boolean
| | | +--rw oc-tun:mtu?      uint16
| | | +--rw oc-tun:dhcp-client?  boolean
| | +--ro oc-tun:state
| |   +--ro oc-tun:enabled?  boolean
| |   +--ro oc-tun:mtu?      uint16
| |   +--ro oc-tun:dhcp-client?  boolean
| |   +--ro oc-tun:counters
| |     +--ro oc-tun:in-pkts?      oc-yang:counter64
| |     +--ro oc-tun:in-octets?    oc-yang:counter64
| |     +--ro oc-tun:in-error-pkts?  oc-yang:counter64
| |     +--ro oc-tun:in-forwarded-pkts?  oc-yang:counter64

```



```

| |   +--ro oc-tun:in-forwarded-octets?  oc-yang:counter64
| |   +--ro oc-tun:in-discarded-pkts?   oc-yang:counter64
| |   +--ro oc-tun:out-pkts?             oc-yang:counter64
| |   +--ro oc-tun:out-octets?           oc-yang:counter64
| |   +--ro oc-tun:out-error-pkts?       oc-yang:counter64
| |   +--ro oc-tun:out-forwarded-pkts?   oc-yang:counter64
| |   +--ro oc-tun:out-forwarded-octets? oc-yang:counter64
| |   +--ro oc-tun:out-discarded-pkts?   oc-yang:counter64
| +--rw oc-tun:ipv6
|   +--rw oc-tun:addresses
|     +--rw oc-tun:address* [ip]
|       +--rw oc-tun:ip      -> ../config/ip
|       +--rw oc-tun:config
|         | +--rw oc-tun:ip?      oc-inet:ipv6-address
|         | +--rw oc-tun:prefix-length  uint8
|         +--ro oc-tun:state
|           +--ro oc-tun:ip?      oc-inet:ipv6-address
|           +--ro oc-tun:prefix-length  uint8
|           +--ro oc-tun:origin?     ip-address-origin
|           +--ro oc-tun:status?     enumeration
| +--rw oc-tun:neighbors
|   +--rw oc-tun:neighbor* [ip]
|     +--rw oc-tun:ip      -> ../config/ip
|     +--rw oc-tun:config
|       | +--rw oc-tun:ip?      oc-inet:ipv6-address
|       | +--rw oc-tun:link-layer-address  oc-yang:phys-address
|       +--ro oc-tun:state
|         +--ro oc-tun:ip?      oc-inet:ipv6-address
|         +--ro oc-tun:link-layer-address  oc-yang:phys-address
|         +--ro oc-tun:origin?     neighbor-origin
|         +--ro oc-tun:is-router?    boolean
|         +--ro oc-tun:neighbor-state? enumeration
| +--rw oc-tun:config
|   +--rw oc-tun:enabled?          boolean
|   +--rw oc-tun:mtu?              uint32
|   +--rw oc-tun:dup-addr-detect-transmits?  uint32
|   +--rw oc-tun:dhcp-client?      boolean
| +--ro oc-tun:state
|   +--ro oc-tun:enabled?          boolean
|   +--ro oc-tun:mtu?              uint32
|   +--ro oc-tun:dup-addr-detect-transmits?  uint32
|   +--ro oc-tun:dhcp-client?      boolean

```

```

|   +--ro oc-tun:counters
|   |   +--ro oc-tun:in-pkts?          oc-yang:counter64
|   |   +--ro oc-tun:in-octets?       oc-yang:counter64
|   |   +--ro oc-tun:in-error-pkts?   oc-yang:counter64
|   |   +--ro oc-tun:in-forwarded-pkts? oc-yang:counter64
|   |   +--ro oc-tun:in-forwarded-octets? oc-yang:counter64
|   |   +--ro oc-tun:in-discarded-pkts? oc-yang:counter64
|   |   +--ro oc-tun:out-pkts?        oc-yang:counter64
|   |   +--ro oc-tun:out-octets?      oc-yang:counter64
|   |   +--ro oc-tun:out-error-pkts?   oc-yang:counter64
|   |   +--ro oc-tun:out-forwarded-pkts? oc-yang:counter64
|   |   +--ro oc-tun:out-forwarded-octets? oc-yang:counter64
|   |   +--ro oc-tun:out-discarded-pkts? oc-yang:counter64
+--rw oc-line-com:sonet

```

module: openconfig-lldp

```

+--rw lldp
+--rw config
|   +--rw enabled?          boolean
|   +--rw hello-timer?      uint64
|   +--rw suppress-tlv-advertisement* identityref
|   +--rw system-name?      string
|   +--rw system-description? string
|   +--rw chassis-id?       string
|   +--rw chassis-id-type?   oc-lldp-types:chassis-id-type
|   +--rw extr-lldp-ext:holdtime? uint16
|   +--rw extr-lldp-ext:transmit? boolean
|   +--rw extr-lldp-ext:receive? boolean
|   +--rw extr-lldp-ext:management-address? oc-inet:ip-address
+--ro state
|   +--ro enabled?          boolean
|   +--ro hello-timer?      uint64
|   +--ro suppress-tlv-advertisement* identityref
|   +--ro system-name?      string
|   +--ro system-description? string
|   +--ro chassis-id?       string
|   +--ro chassis-id-type?   oc-lldp-types:chassis-id-type
|   +--ro counters
|   |   +--ro frame-in?      yang:counter64
|   |   +--ro frame-out?     yang:counter64
|   |   +--ro frame-error-in? yang:counter64
|   |   +--ro frame-discard? yang:counter64

```

```

| | +--ro tlv-discard?    yang:counter64
| | +--ro tlv-unknown?    yang:counter64
| | +--ro last-clear?     yang:date-and-time
| | +--ro tlv-accepted?   yang:counter64
| | +--ro entries-aged-out? yang:counter64
| +--ro extr-ldp-ext:holdtime?    uint16
| +--ro extr-ldp-ext:transmit?    boolean
| +--ro extr-ldp-ext:receive?     boolean
| +--ro extr-ldp-ext:management-address? oc-inet:ip-address
+--rw interfaces
+--rw interface* [name]
+--rw name      -> ../config/name
+--rw config
| +--rw name?          oc-if:base-interface-ref
| +--rw enabled?       boolean
| +--rw extr-ldp-ext:transmit?    boolean
| +--rw extr-ldp-ext:receive?     boolean
| +--rw extr-ldp-ext:management-address?    oc-inet:ip-address
| +--rw extr-ldp-ext:suppress-tlv-advertisement* identityref
+--ro state
| +--ro name?          oc-if:base-interface-ref
| +--ro enabled?       boolean
| +--ro counters
| | +--ro frame-in?    yang:counter64
| | +--ro frame-out?   yang:counter64
| | +--ro frame-error-in? yang:counter64
| | +--ro frame-discard? yang:counter64
| | +--ro tlv-discard? yang:counter64
| | +--ro tlv-unknown? yang:counter64
| | +--ro last-clear?  yang:date-and-time
| | +--ro frame-error-out? yang:counter64
| +--ro extr-ldp-ext:transmit?    boolean
| +--ro extr-ldp-ext:receive?     boolean
| +--ro extr-ldp-ext:management-address?    oc-inet:ip-address
| +--ro extr-ldp-ext:suppress-tlv-advertisement* identityref
+--ro neighbors
+--ro neighbor* [id]
+--ro id      -> ../state/id
+--ro config
+--ro state
| +--ro system-name?    string
| +--ro system-description? string

```

```

| +--ro chassis-id?      string
| +--ro chassis-id-type? oc-lldp-types:chassis-id-type
| +--ro id?              string
| +--ro last-update?     int64
| +--ro ttl?             uint16
| +--ro port-id?         string
| +--ro port-id-type?    oc-lldp-types:port-id-type
| +--ro port-description? string
| +--ro management-address? string
| +--ro management-address-type? string
+--ro custom-tlvs
| +--ro tlv* [type oui oui-subtype]
|   +--ro type      -> ../state/type
|   +--ro oui       -> ../state/oui
|   +--ro oui-subtype -> ../state/oui-subtype
|   +--ro config
|   +--ro state
|     +--ro type?    int32
|     +--ro oui?     string
|     +--ro oui-subtype? string
|     +--ro value?   binary
+--ro capabilities
  +--ro capability* [name]
    +--ro name      -> ../state/name
    +--ro config
    +--ro state
      +--ro name?    identityref
      +--ro enabled? boolean

```

module: openconfig-keychain

```

+--rw keychains
  +--rw keychain* [name]
    +--rw name      -> ../config/name
    +--rw config
      | +--rw name?    string
      | +--rw tolerance? union
    +--ro state
      | +--ro name?    string
      | +--ro tolerance? union
    +--rw keys
      +--rw key* [key-id]
        +--rw key-id      -> ../config/key-id

```

```

+--rw config
| +--rw key-id?      union
| +--rw secret-key?  string
| +--rw crypto-algorithm? identityref
+--ro state
| +--ro key-id?      union
| +--ro secret-key?  string
| +--ro crypto-algorithm? identityref
+--rw send-lifetime
| +--rw config
| | +--rw start-time?    oc-types:timeticks64
| | +--rw end-time?      oc-types:timeticks64
| | +--rw send-and-receive? boolean
| +--ro state
|   +--ro start-time?    oc-types:timeticks64
|   +--ro end-time?      oc-types:timeticks64
|   +--ro send-and-receive? boolean
+--rw receive-lifetime
  +--rw config
  | +--rw start-time?    oc-types:timeticks64
  | +--rw end-time?      oc-types:timeticks64
  +--ro state
    +--ro start-time?    oc-types:timeticks64
    +--ro end-time?      oc-types:timeticks64

```

module: openconfig-system

```

+--rw system
  +--rw config
  | +--rw hostname?    oc-inet:domain-name
  | +--rw domain-name? oc-inet:domain-name
  | +--rw login-banner? string
  | +--rw motd-banner? string
  +--ro state
  | +--ro hostname?      oc-inet:domain-name
  | +--ro domain-name?   oc-inet:domain-name
  | +--ro login-banner?  string
  | +--ro motd-banner?   string
  | +--ro current-datetime? oc-yang:date-and-time
  | +--ro boot-time?     oc-types:timeticks64
  | +--ro software-version? string
  | +--ro last-configuration-timestamp? oc-types:timeticks64
  +--ro mount-points

```

```

| +--ro mount-point* [name]
|   +--ro name    -> ../state/name
|   +--ro state
|       +--ro name?          string
|       +--ro storage-component? -> /oc-platform:components/component/name
|       +--ro size?          uint64
|       +--ro available?     uint64
|       +--ro utilized?      uint64
+--rw aaa
| +--rw authentication
| | +--rw config
| | | +--rw authentication-method* union
| | +--ro state
| | | +--ro authentication-method* union
| | +--rw admin-user
| | | +--rw config
| | | | +--rw admin-password?          string
| | | | +--rw admin-password-hashed?   oc-aaa-types:crypt-password-type
| | | | +--rw extr-aaa-ext:admin-username? string
| | | +--ro state
| | | | +--ro admin-password?          string
| | | | +--ro admin-password-hashed?   oc-aaa-types:crypt-password-type
| | | | +--ro admin-username?          string
| | +--rw users
| | | +--rw user* [username]
| | | | +--rw username    -> ../config/username
| | | | +--rw config
| | | | | +--rw username?          string
| | | | | +--rw password?          string
| | | | | +--rw password-hashed?   oc-aaa-types:crypt-password-type
| | | | | +--rw role              union
| | | | | +--rw extr-aaa-ext:inactivity-expiry-period? uint8
| | | | | +--rw extr-aaa-ext:inactivity-warning-period? uint8
| | | | +--ro state
| | | | | +--ro username?          string
| | | | | +--ro password?          string
| | | | | +--ro password-hashed?   oc-aaa-types:crypt-password-type
| | | | | +--ro role              union
| | | | | +--ro extr-aaa-ext:inactivity-expiry-period? uint8
| | | | | +--ro extr-aaa-ext:inactivity-warning-period? uint8
| | +--rw extr-aaa-ext:password-attributes
| | +--rw extr-aaa-ext:config

```

```

| | | +--rw extr-aaa-ext:min-length?      uint8
| | | +--rw extr-aaa-ext:min-uppercase?   passwd-attr-type
| | | +--rw extr-aaa-ext:min-lowercase?   passwd-attr-type
| | | +--rw extr-aaa-ext:min-numeric?     passwd-attr-type
| | | +--rw extr-aaa-ext:min-special?     passwd-attr-type
| | | +--rw extr-aaa-ext:max-password-age? uint16
| | | +--rw extr-aaa-ext:max-retry?       uint8
| | | +--rw extr-aaa-ext:lockout-duration? uint32
| | +--ro extr-aaa-ext:state
| | | +--ro extr-aaa-ext:min-length?      uint8
| | | +--ro extr-aaa-ext:min-uppercase?   passwd-attr-type
| | | +--ro extr-aaa-ext:min-lowercase?   passwd-attr-type
| | | +--ro extr-aaa-ext:min-numeric?     passwd-attr-type
| | | +--ro extr-aaa-ext:min-special?     passwd-attr-type
| | | +--ro extr-aaa-ext:max-password-age? uint16
| | | +--ro extr-aaa-ext:max-retry?       uint8
| | | +--ro extr-aaa-ext:lockout-duration? uint32
| | +--rw extr-aaa-ext:expiry-alert
| |   +--rw extr-aaa-ext:config
| |     | +--rw extr-aaa-ext:info?      alert-period
| |     | +--rw extr-aaa-ext:minor?    alert-period
| |     | +--rw extr-aaa-ext:major?    alert-period
| |     | +--rw extr-aaa-ext:critical?  alert-period
| |     +--ro extr-aaa-ext:state
| |       +--ro extr-aaa-ext:info?      alert-period
| |       +--ro extr-aaa-ext:minor?    alert-period
| |       +--ro extr-aaa-ext:major?    alert-period
| |       +--ro extr-aaa-ext:critical?  alert-period
| +--rw accounting
| | +--rw config
| | | +--rw accounting-method* union
| | +--ro state
| | | +--ro accounting-method* union
| | +--rw events
| |   +--rw event* [event-type]
| |     +--rw event-type -> ../config/event-type
| |     +--rw config
| |       | +--rw event-type? identityref
| |       | +--rw record?   enumeration
| |       +--ro state
| |         +--ro event-type? identityref
| |         +--ro record?   enumeration

```

```

| +--rw server-groups
| | +--rw server-group* [name]
| |   +--rw name      -> ../config/name
| |   +--rw config
| |     | +--rw name?  string
| |     | +--rw type?  identityref
| |     +--ro state
| |       | +--ro name? string
| |       | +--ro type? identityref
| |   +--rw servers
| |     +--rw server* [address]
| |       | +--rw address      -> ../config/address
| |       | +--rw config
| |       | | +--rw name?    string
| |       | | +--rw address? oc-inet:ip-address
| |       | | +--ro state
| |       | | | +--ro name?  string
| |       | | | +--ro address? oc-inet:ip-address
| |       | +--rw tacacs
| |       | | +--rw config
| |       | | | +--rw secret-key?          oc-types:routing-password
| |       | | | +--rw extr-aaa-ext:network-instance? oc-ni:network-instance-ref
| |       | | | +--rw extr-aaa-ext:source-interface? string
| |       | | | +--ro state
| |       | | |   +--ro secret-key?          oc-types:routing-password
| |       | | |   +--ro extr-aaa-ext:network-instance? oc-ni:network-instance-ref
| |       | | |   +--ro extr-aaa-ext:source-interface? string
| |       | +--rw radius
| |       | | +--rw config
| |       | | | +--rw secret-key?          oc-types:routing-password
| |       | | | +--rw extr-aaa-ext:radsec?    boolean
| |       | | | +--rw extr-aaa-ext:ssl-profile-id? string
| |       | | | +--rw extr-aaa-ext:network-instance? oc-ni:network-instance-ref
| |       | | | +--rw extr-aaa-ext:source-interface? string
| |       | | | +--ro state
| |       | | |   +--ro secret-key?          oc-types:routing-password
| |       | | |   +--ro extr-aaa-ext:radsec?    boolean
| |       | | |   +--ro extr-aaa-ext:ssl-profile-id? string
| |       | | |   +--ro extr-aaa-ext:network-instance? oc-ni:network-instance-ref
| |       | | |   +--ro extr-aaa-ext:source-interface? string
| |       | +--rw extr-aaa-ext:ldap
| |       | +--rw extr-aaa-ext:config

```



```

| | | | +--rw extr-aaa-ext:port?          oc-inet:port-number
| | | | +--rw extr-aaa-ext:ldaps?         boolean
| | | | +--rw extr-aaa-ext:ssl-profile-id? string
| | | | +--rw extr-aaa-ext:base-dn?       string
| | | | +--rw extr-aaa-ext:network-instance? oc-ni:network-instance-ref
| | | | +--rw extr-aaa-ext:source-interface? string
| | | +--ro extr-aaa-ext:state
| | |   +--ro extr-aaa-ext:port?          oc-inet:port-number
| | |   +--ro extr-aaa-ext:ldaps?         boolean
| | |   +--ro extr-aaa-ext:ssl-profile-id? string
| | |   +--ro extr-aaa-ext:base-dn?       string
| | |   +--ro extr-aaa-ext:network-instance? oc-ni:network-instance-ref
| | |   +--ro extr-aaa-ext:source-interface? string
| | +--rw extr-aaa-ext:ldap-groups
| |   +--rw extr-aaa-ext:ldap-group* [name]
| |     +--rw extr-aaa-ext:name -> ../config/name
| |     +--rw extr-aaa-ext:config
| |       | +--rw extr-aaa-ext:name? string
| |       | +--rw extr-aaa-ext:role? union
| |       +--ro extr-aaa-ext:state
| |         +--ro extr-aaa-ext:name? string
| |         +--ro extr-aaa-ext:role? union
| +--rw extr-aaa-token-ext:token-validators
|   +--rw extr-aaa-token-ext:token-validator* [name]
|     +--rw extr-aaa-token-ext:name -> ../config/name
|     +--rw extr-aaa-token-ext:config
|       | +--rw extr-aaa-token-ext:name? string
|       | +--rw extr-aaa-token-ext:ssl-profile-id? string
|       | +--rw extr-aaa-token-ext:type? enumeration
|       +--ro extr-aaa-token-ext:state
|         +--ro extr-aaa-token-ext:name? string
|         +--ro extr-aaa-token-ext:ssl-profile-id? string
|         +--ro extr-aaa-token-ext:type? enumeration
+--rw logging
| +--rw console
| | +--rw config
| | | +--rw extr-system-logging-ext:monitor? boolean
| | | +--rw extr-system-logging-ext:console? boolean
| | | +--rw extr-system-logging-ext:monitor-severity? syslog-severity
| | | +--rw extr-system-logging-ext:console-severity? syslog-severity
| | +--ro state
| +--rw selectors

```

```

| | +--rw selector* [facility severity]
| |   +--rw facility -> ../config/facility
| |   +--rw severity -> ../config/severity
| |   +--rw config
| |     | +--rw facility? identityref
| |     | +--rw severity? syslog-severity
| |     +--ro state
| |       +--ro facility? identityref
| |       +--ro severity? syslog-severity
| +--rw remote-servers
| | +--rw remote-server* [host]
| | | +--rw host -> ../config/host
| | | +--rw config
| | | | +--rw host? oc-inet:host
| | | | +--rw source-address? oc-inet:ip-address
| | | | +--rw network-instance? oc-ni:network-instance-ref
| | | | +--rw remote-port? oc-inet:port-number
| | | | +--rw tls-profile-id? string
| | | | +--rw extr-system-logging-ext:transport? syslog-remote-server-transport
| | | | | +--rw extr-system-logging-ext:secure-forwarding? syslog-remote-server-secure-
forwarding
| | | | +--rw extr-system-logging-ext:network-instance? oc-ni:network-instance-ref
| | | +--ro state
| | | +--ro host? oc-inet:host
| | | +--ro source-address? oc-inet:ip-address
| | | +--ro network-instance? oc-ni:network-instance-ref
| | | +--ro remote-port? oc-inet:port-number
| | | +--ro tls-profile-id? string
| | | +--ro extr-system-logging-ext:transport? syslog-remote-server-transport
| | | | +--ro extr-system-logging-ext:secure-forwarding? syslog-remote-server-secure-
forwarding
| | | +--ro extr-system-logging-ext:network-instance? oc-ni:network-instance-ref
| | +--rw extr-system-logging-ext:ca-cert? string
| +--rw extr-system-logging-ext:services
| | +--rw extr-system-logging-ext:service* [facility]
| |   +--rw extr-system-logging-ext:facility -> ../config/facility
| |   +--rw extr-system-logging-ext:config
| |     | +--rw extr-system-logging-ext:facility? identityref
| |     | +--rw extr-system-logging-ext:severity? syslog-severity
| |   +--ro extr-system-logging-ext:state
| |     +--ro extr-system-logging-ext:facility? identityref
| |     +--ro extr-system-logging-ext:severity? syslog-severity

```

```

+--rw processes
| +--ro process* [pid]
|   +--ro pid    -> ../state/pid
|   +--ro state
|       +--ro pid?          uint64
|       +--ro name?         string
|       +--ro args*         string
|       +--ro start-time?    oc-types:timeticks64
|       +--ro cpu-usage-user? oc-yang:counter64
|       +--ro cpu-usage-system? oc-yang:counter64
|       +--ro cpu-utilization? oc-types:percentage
|       +--ro memory-usage?   uint64
|       +--ro memory-utilization? oc-types:percentage
+--rw messages
| +--rw config
| | +--rw severity? oc-log:syslog-severity
| +--ro state
| | +--ro severity? oc-log:syslog-severity
| | +--ro message
| |   +--ro msg?    string
| |   +--ro priority? uint8
| |   +--ro app-name? string
| |   +--ro procid?  string
| |   +--ro msgid?   string
| +--rw debug-entries
|   +--rw debug-service* [service]
|     +--rw service -> ../config/service
|     +--rw config
|       | +--rw service? identityref
|       | +--rw enabled? boolean
|       +--ro state
|         +--ro service? identityref
|         +--ro enabled? boolean
+--rw clock
| +--rw config
| | +--rw timezone-name? timezone-name-type
| +--ro state
|   +--ro timezone-name? timezone-name-type
+--ro cpus
| +--ro cpu* [index]
|   +--ro index -> ../state/index
|   +--ro state

```

```

|   +--ro index?          union
|   +--ro total
|   |   +--ro instant?   oc-types:percentage
|   |   +--ro avg?       oc-types:percentage
|   |   +--ro min?       oc-types:percentage
|   |   +--ro max?       oc-types:percentage
|   |   +--ro interval?  oc-types:stat-interval
|   |   +--ro min-time?  oc-types:timeticks64
|   |   +--ro max-time?  oc-types:timeticks64
|   +--ro user
|   |   +--ro instant?   oc-types:percentage
|   |   +--ro avg?       oc-types:percentage
|   |   +--ro min?       oc-types:percentage
|   |   +--ro max?       oc-types:percentage
|   |   +--ro interval?  oc-types:stat-interval
|   |   +--ro min-time?  oc-types:timeticks64
|   |   +--ro max-time?  oc-types:timeticks64
|   +--ro kernel
|   |   +--ro instant?   oc-types:percentage
|   |   +--ro avg?       oc-types:percentage
|   |   +--ro min?       oc-types:percentage
|   |   +--ro max?       oc-types:percentage
|   |   +--ro interval?  oc-types:stat-interval
|   |   +--ro min-time?  oc-types:timeticks64
|   |   +--ro max-time?  oc-types:timeticks64
|   +--ro nice
|   |   +--ro instant?   oc-types:percentage
|   |   +--ro avg?       oc-types:percentage
|   |   +--ro min?       oc-types:percentage
|   |   +--ro max?       oc-types:percentage
|   |   +--ro interval?  oc-types:stat-interval
|   |   +--ro min-time?  oc-types:timeticks64
|   |   +--ro max-time?  oc-types:timeticks64
|   +--ro idle
|   |   +--ro instant?   oc-types:percentage
|   |   +--ro avg?       oc-types:percentage
|   |   +--ro min?       oc-types:percentage
|   |   +--ro max?       oc-types:percentage
|   |   +--ro interval?  oc-types:stat-interval
|   |   +--ro min-time?  oc-types:timeticks64
|   |   +--ro max-time?  oc-types:timeticks64
|   +--ro wait

```

```

| | +--ro instant?  oc-types:percentage
| | +--ro avg?      oc-types:percentage
| | +--ro min?      oc-types:percentage
| | +--ro max?      oc-types:percentage
| | +--ro interval? oc-types:stat-interval
| | +--ro min-time? oc-types:timeticks64
| | +--ro max-time? oc-types:timeticks64
| +--ro hardware-interrupt
| | +--ro instant?  oc-types:percentage
| | +--ro avg?      oc-types:percentage
| | +--ro min?      oc-types:percentage
| | +--ro max?      oc-types:percentage
| | +--ro interval? oc-types:stat-interval
| | +--ro min-time? oc-types:timeticks64
| | +--ro max-time? oc-types:timeticks64
| +--ro software-interrupt
|   +--ro instant?  oc-types:percentage
|   +--ro avg?      oc-types:percentage
|   +--ro min?      oc-types:percentage
|   +--ro max?      oc-types:percentage
|   +--ro interval? oc-types:stat-interval
|   +--ro min-time? oc-types:timeticks64
|   +--ro max-time? oc-types:timeticks64
+--rw dns
| +--rw config
| | +--rw search*  oc-inet:domain-name
| +--ro state
| | +--ro search*  oc-inet:domain-name
| +--rw servers
|   +--rw server* [address]
|     +--rw address  -> ../config/address
|     +--rw config
|       | +--rw address?  oc-inet:ip-address
|       | +--rw port?     oc-inet:port-number
|       +--ro state
|         +--ro address?  oc-inet:ip-address
|         +--ro port?     oc-inet:port-number
+--rw mac-address
| +--rw config
| | +--rw routing-mac?  oc-yang:mac-address
| +--ro state
|   +--ro routing-mac?  oc-yang:mac-address

```

```

+--rw memory
| +--rw config
| +--ro state
|   +--ro counters
|     | +--ro correctable-ecc-errors?  uint64
|     | +--ro uncorrectable-ecc-errors? uint64
|     | +--ro total-ecc-errors?      uint64
|   +--ro physical?  uint64
|   +--ro reserved?  uint64
|   +--ro used?      uint64
|   +--ro free?      uint64
+--rw ntp
| +--rw config
| | +--rw enabled?          boolean
| | +--rw extr-sys-ext:use-vrf? string
| +--ro state
| | +--ro enabled?          boolean
| | +--ro extr-sys-ext:use-vrf? string
| | +--ro extr-sys-ext:active-server? string
| | +--ro extr-sys-ext:active-server-offset? uint64
| +--rw servers
|   +--rw server* [address]
|     +--rw address  -> ../config/address
|     +--rw config
|       | +--rw address?      oc-inet:host
|       | +--rw port?         oc-inet:port-number
|       | +--rw version?      uint8
|       | +--rw association-type? enumeration
|       | +--rw iburst?       boolean
|       | +--rw prefer?       boolean
|     +--ro state
|       +--ro address?      oc-inet:host
|       +--ro port?         oc-inet:port-number
|       +--ro version?      uint8
|       +--ro association-type? enumeration
|       +--ro iburst?       boolean
|       +--ro prefer?       boolean
|       +--ro stratum?      uint8
|       +--ro root-delay?   int64
|       +--ro root-dispersion? int64
|       +--ro offset?      int64
|       +--ro poll-interval? uint32

```

```

+--rw oc-sys-grpc:grpc-servers
| +--rw oc-sys-grpc:grpc-server* [name]
|   +--rw oc-sys-grpc:name    -> ../config/name
|   +--rw oc-sys-grpc:config
|     | +--rw oc-sys-grpc:name?          string
|     | +--rw oc-sys-grpc:services*      identityref
|     | +--rw oc-sys-grpc:enable?        boolean
|     | +--rw oc-sys-grpc:port?          oc-inet:port-number
|     | +--rw oc-sys-grpc:transport-security?  boolean
|     | +--rw oc-sys-grpc:certificate-id?   string
|     | +--rw oc-sys-grpc:metadata-authentication?  boolean
|     | +--rw oc-sys-grpc:listen-addresses*  union
|     | +--rw oc-sys-grpc:network-instance?  oc-ni:network-instance-ref
|     | +--rw extr-system-grpc:mutual-tls?   boolean
|   +--ro oc-sys-grpc:state
|     +--ro oc-sys-grpc:name?          string
|     +--ro oc-sys-grpc:services*      identityref
|     +--ro oc-sys-grpc:enable?        boolean
|     +--ro oc-sys-grpc:port?          oc-inet:port-number
|     +--ro oc-sys-grpc:transport-security?  boolean
|     +--ro oc-sys-grpc:certificate-id?   string
|     +--ro oc-sys-grpc:metadata-authentication?  boolean
|     +--ro oc-sys-grpc:listen-addresses*  union
|     +--ro oc-sys-grpc:network-instance?  oc-ni:network-instance-ref
|     +--ro extr-system-grpc:mutual-tls?   boolean
+--rw extr-sys-snmp:snmp-servers
| +--rw extr-sys-snmp:snmp-server* [name]
|   +--rw extr-sys-snmp:name    -> ../config/name
|   +--rw extr-sys-snmp:config
|     | +--rw extr-sys-snmp:name?  string
|   +--rw extr-sys-snmp:state
|     | +--rw extr-sys-snmp:name?  string
|   +--rw extr-sys-snmp:vrf*
|     | +--rw extr-sys-snmp:vrf* [name]
|     |   +--rw extr-sys-snmp:name    -> ../config/name
|     |   +--rw extr-sys-snmp:config
|     |     | +--rw extr-sys-snmp:name?  string
|     |     | +--rw extr-sys-snmp:enable?  boolean
|     |     +--rw extr-sys-snmp:state
|     |       | +--rw extr-sys-snmp:name?  string
|     |       | +--rw extr-sys-snmp:enable?  boolean
|     |     +--rw extr-sys-snmp:hosts

```

```

| | +--rw extr-sys-snmp:host* [hostname community-or-user-name]
| |   +--rw extr-sys-snmp:hostname          -> ../config/hostname
| |   +--rw extr-sys-snmp:community-or-user-name -> ../config/community-or-user-name
| |   +--rw extr-sys-snmp:config
| |     | +--rw extr-sys-snmp:hostname?          oc-inet-types:host
| |     | +--rw extr-sys-snmp:community-or-user-name? string
| |     | +--rw extr-sys-snmp:udp-port?          uint16
| |     | +--rw extr-sys-snmp:version?          version-type
| |     | +--rw extr-sys-snmp:source-interface?  string
| |     +--rw extr-sys-snmp:state
| |       +--rw extr-sys-snmp:hostname?          oc-inet-types:host
| |       +--rw extr-sys-snmp:community-or-user-name? string
| |       +--rw extr-sys-snmp:udp-port?          uint16
| |       +--rw extr-sys-snmp:version?          version-type
| |       +--rw extr-sys-snmp:source-interface?  string
| +--rw extr-sys-snmp:communities
| | +--rw extr-sys-snmp:community* [community-name]
| |   +--rw extr-sys-snmp:community-name -> ../config/community-name
| |   +--rw extr-sys-snmp:config
| |     | +--rw extr-sys-snmp:community-name? string
| |     +--rw extr-sys-snmp:state
| |       +--rw extr-sys-snmp:community-name? string
| +--rw extr-sys-snmp:users
| | +--rw extr-sys-snmp:user* [name]
| |   +--rw extr-sys-snmp:name -> ../config/name
| |   +--rw extr-sys-snmp:config
| |     | +--rw extr-sys-snmp:name?          string
| |     | +--rw extr-sys-snmp:auth          auth-type
| |     | +--rw extr-sys-snmp:auth-password? string
| |     | +--rw extr-sys-snmp:auth-password-hashed? string
| |     | +--rw extr-sys-snmp:priv?          priv-type
| |     | +--rw extr-sys-snmp:priv-password? string
| |     | +--rw extr-sys-snmp:priv-password-hashed? string
| |     +--rw extr-sys-snmp:state
| |       +--rw extr-sys-snmp:name?          string
| |       +--rw extr-sys-snmp:auth          auth-type
| |       +--rw extr-sys-snmp:auth-password? string
| |       +--rw extr-sys-snmp:auth-password-hashed? string
| |       +--rw extr-sys-snmp:priv?          priv-type
| |       +--rw extr-sys-snmp:priv-password? string
| |       +--rw extr-sys-snmp:priv-password-hashed? string
+--rw extr-system-ztp:ztp

```



```

| +--ro extr-system-ztp:dhcp-based
|   +--ro extr-system-ztp:remote-servers
|     | +--ro extr-system-ztp:remote-server* [address]
|     |   +--ro extr-system-ztp:address      -> ../state/address
|     |   +--ro extr-system-ztp:state
|     |     | +--ro extr-system-ztp:address?    oc-inet-types:host
|     |     | +--ro extr-system-ztp:transfer-mode? transfer-mode-type
|     |     | +--ro extr-system-ztp:ztp-file?   string
|     |   +--ro extr-system-ztp:source-interface
|     |     | +--ro extr-system-ztp:state
|     |     |   +--ro extr-system-ztp:name?    string
|     |     |   +--ro extr-system-ztp:ip-address? oc-inet-types:host
|     |   +--ro extr-system-ztp:file-path
|     |     | +--ro extr-system-ztp:state
|     |     |   +--ro extr-system-ztp:config-file? string
|     |     |   +--ro extr-system-ztp:exec-file?  string
|     |   +--ro extr-system-ztp:firmware
|     |     | +--ro extr-system-ztp:state
|     |     |   +--ro extr-system-ztp:path?    string
|     |     |   +--ro extr-system-ztp:status?  firmware-install-status-type
|   +--ro extr-system-ztp:state
|     +--ro extr-system-ztp:ztp-status? string
|     +--ro extr-system-ztp:client-id?  string
+--rw extr-sys-ext:global
| +--rw extr-sys-ext:config
|   | +--rw extr-sys-ext:ipv4-anycast-gateway-mac? oc-yang:mac-address
|   | +--rw extr-sys-ext:ipv6-anycast-gateway-mac? oc-yang:mac-address
|   | +--rw extr-sys-ext:l2-mtu?                  uint16
|   | +--rw extr-sys-ext:ip-mtu?                  uint16
|   | +--rw extr-sys-ext:contact?                  string
|   | +--rw extr-sys-ext:location?                  string
| +--ro extr-sys-ext:state
|   +--ro extr-sys-ext:ipv4-anycast-gateway-mac? oc-yang:mac-address
|   +--ro extr-sys-ext:ipv6-anycast-gateway-mac? oc-yang:mac-address
|   +--ro extr-sys-ext:l2-mtu?                      uint16
|   +--ro extr-sys-ext:ip-mtu?                      uint16
|   +--ro extr-sys-ext:contact?                      string
|   +--ro extr-sys-ext:location?                      string
+--rw extr-sys-ext:cli
| +--rw extr-sys-ext:config
|   | +--rw extr-sys-ext:unhide-secrets* identityref
| +--rw extr-sys-ext:state

```

```

|   +--rw extr-sys-ext:unhide-secrets*  identityref
+--rw extr-sys-ext:rme
|   +--rw extr-sys-ext:config
|   |   +--rw extr-sys-ext:port?          oc-if:base-interface-ref
|   |   +--rw extr-sys-ext:performance-mode? oc-if:base-interface-ref
|   +--ro extr-sys-ext:state
|   |   +--ro extr-sys-ext:port?          oc-if:base-interface-ref
|   |   +--ro extr-sys-ext:performance-mode? oc-if:base-interface-ref
|   |   +--ro extr-sys-ext:redundancy?     string
|   |   +--ro extr-sys-ext:active?         string
|   |   +--ro extr-sys-ext:memberset?      string
|   |   +--ro extr-sys-ext:primary?        string
+--rw extr-sys-ext:grub
|   +--rw extr-sys-ext:config
|   |   +--rw extr-sys-ext:username?       string
|   |   +--rw extr-sys-ext:password?       string
|   |   +--rw extr-sys-ext:password-hashed? oc-aaa-types:crypt-password-type
|   +--ro extr-sys-ext:state
|   |   +--ro extr-sys-ext:username?       string
|   |   +--ro extr-sys-ext:password?       string
|   |   +--ro extr-sys-ext:password-hashed? oc-aaa-types:crypt-password-type
+--rw extr-sys-term-ext:ssh-servers
|   +--rw extr-sys-term-ext:ssh-server* [name]
|   |   +--rw extr-sys-term-ext:name      -> ../config/name
|   |   +--rw extr-sys-term-ext:config
|   |   |   +--rw extr-sys-term-ext:name?      string
|   |   |   +--rw extr-sys-term-ext:enable?     boolean
|   |   |   +--rw extr-sys-term-ext:network-instance? oc-ni:network-instance-ref
|   |   |   +--rw extr-sys-term-ext:cipher*      identityref
|   |   |   +--rw extr-sys-term-ext:mac*         identityref
|   |   |   +--rw extr-sys-term-ext:key-exchange* identityref
|   |   |   +--rw extr-sys-term-ext:client-alive? uint16
|   |   +--ro extr-sys-term-ext:state
|   |   |   +--ro extr-sys-term-ext:name?      string
|   |   |   +--ro extr-sys-term-ext:enable?     boolean
|   |   |   +--ro extr-sys-term-ext:network-instance? oc-ni:network-instance-ref
|   |   |   +--ro extr-sys-term-ext:cipher*      identityref
|   |   |   +--ro extr-sys-term-ext:mac*         identityref
|   |   |   +--ro extr-sys-term-ext:key-exchange* identityref
|   |   |   +--ro extr-sys-term-ext:client-alive? uint16
|   |   +--rw extr-sys-term-ext:key
|   |   +--rw extr-sys-term-ext:config

```

```

|   | +--rw extr-sys-term-ext:rsa?   common-types:rsa-bits-size
|   | +--rw extr-sys-term-ext:ecdsa? common-types:ecdsa-bits-size
|   +--ro extr-sys-term-ext:state
|       +--ro extr-sys-term-ext:rsa?   common-types:rsa-bits-size
|       +--ro extr-sys-term-ext:ecdsa? common-types:ecdsa-bits-size
+--rw extr-sys-term-ext:telnet-servers
| +--rw extr-sys-term-ext:telnet-server* [name]
| +--rw extr-sys-term-ext:name    -> ../config/name
| +--rw extr-sys-term-ext:config
|   | +--rw extr-sys-term-ext:name?      string
|   | +--rw extr-sys-term-ext:enable?    boolean
|   | +--rw extr-sys-term-ext:network-instance? oc-ni:network-instance-ref
|   +--ro extr-sys-term-ext:state
|       +--ro extr-sys-term-ext:name?      string
|       +--ro extr-sys-term-ext:enable?    boolean
|       +--ro extr-sys-term-ext:network-instance? oc-ni:network-instance-ref
+--rw extr-cert-mgr-ext:certificate-manager
  +--rw extr-cert-mgr-ext:expiry-alert
    +--rw extr-cert-mgr-ext:config
      | +--rw extr-cert-mgr-ext:info?   alert-period
      | +--rw extr-cert-mgr-ext:minor?  alert-period
      | +--rw extr-cert-mgr-ext:major?  alert-period
      | +--rw extr-cert-mgr-ext:critical? alert-period
    +--ro extr-cert-mgr-ext:state
      +--ro extr-cert-mgr-ext:info?   alert-period
      +--ro extr-cert-mgr-ext:minor?  alert-period
      +--ro extr-cert-mgr-ext:major?  alert-period
      +--ro extr-cert-mgr-ext:critical? alert-period

```

YANG Module – Extreme ONE OS Switching

The following table captures the OpenConfig YANG data modules that are supported by Extreme ONE OS Switching.

Module Name	Version
openconfig-acl	1.3.1
openconfig-bfd	0.2.4
openconfig-lldp	0.2.1
openconfig-qos	0.6.0
openconfig-system	0.16.1
openconfig-routingpolicy	3.3.0
openconfig-lacp	1.2.0
openconfig-interface	2.5.0

module: openconfig-qos

```

+--rw qos
  +--rw config
  +--ro state
  +--rw interfaces
    | +--rw interface* [interface-id]
    |   +--rw interface-id -> ../config/interface-id
    |   +--rw config
    |     | +--rw interface-id? string
    |     +--ro state
    |       | +--ro interface-id? string
    |       +--rw input
    |         | +--rw config
    |         | | +--rw extr-qos-ext:traffic-class-map? string
    |         | | +--rw extr-qos-ext:trust-cos?      boolean
    |         | | +--rw extr-qos-ext:trust-dscp?     boolean
    |         | +--ro state
    |         | | +--ro extr-qos-ext:traffic-class-map? string
    |         | | +--ro extr-qos-ext:trust-cos?      boolean
    |         | | +--ro extr-qos-ext:trust-dscp?     boolean
    |         +--rw output
    |           +--rw config
    |             | +--rw extr-qos-ext:remark-map? string
    |             | +--rw extr-qos-ext:remark-cos?  boolean
    |             | +--rw extr-qos-ext:remark-dscp? boolean
    |             +--ro state

```

```

| | +--ro extr-qos-ext:remark-map? string
| | +--ro extr-qos-ext:remark-cos? boolean
| | +--ro extr-qos-ext:remark-dscp? boolean
| +--rw queues
|   +--rw queue* [name]
|     +--rw name -> ../config/name
|     +--rw config
|       | +--rw name? string
|       +--ro state
|         +--ro name? string
|         +--ro transmit-pkts? oc-yang:counter64
|         +--ro transmit-octets? oc-yang:counter64
|         +--ro dropped-pkts? oc-yang:counter64
|         +--ro dropped-octets? oc-yang:counter64
+--rw queues
| +--rw queue* [name]
|   +--rw name -> ../config/name
|   +--rw config
|     | +--rw name? string
|     +--ro state
|       +--ro name? string
+--rw extr-qos-ext:maps
| +--rw extr-qos-ext:traffic-class-maps
| | +--rw extr-qos-ext:traffic-class-map* [name]
| |   +--rw extr-qos-ext:name -> ../config/name
| |   +--rw extr-qos-ext:config
| |     | +--rw extr-qos-ext:name? string
| |     | +--rw extr-qos-ext:default-traffic-class? uint8
| |     +--ro extr-qos-ext:state
| |       | +--ro extr-qos-ext:name? string
| |       | +--ro extr-qos-ext:default-traffic-class? uint8
| |       +--rw extr-qos-ext:cos-maps
| |         | +--rw extr-qos-ext:cos-map* [cos]
| |         |   +--rw extr-qos-ext:cos -> ../config/cos
| |         |   +--rw extr-qos-ext:config
| |         |     | +--rw extr-qos-ext:cos? uint8
| |         |     | +--rw extr-qos-ext:traffic-class? uint8
| |         |     +--ro extr-qos-ext:state
| |         |       +--ro extr-qos-ext:cos? uint8
| |         |       +--ro extr-qos-ext:traffic-class? uint8
| |         +--rw extr-qos-ext:dscp-maps
| |         +--rw extr-qos-ext:dscp-map* [dscp]

```

```

| |      +--rw extr-qos-ext:dscp    -> ../config/dscp
| |      +--rw extr-qos-ext:config
| |      | +--rw extr-qos-ext:dscp?    oc-inet:dscp
| |      | +--rw extr-qos-ext:traffic-class? uint8
| |      +--ro extr-qos-ext:state
| |      +--ro extr-qos-ext:dscp?    oc-inet:dscp
| |      +--ro extr-qos-ext:traffic-class? uint8
| +--rw extr-qos-ext:remark-maps
|   +--rw extr-qos-ext:remark-map* [name]
|     +--rw extr-qos-ext:name        -> ../config/name
|     +--rw extr-qos-ext:config
|       | +--rw extr-qos-ext:name? string
|       +--ro extr-qos-ext:state
|       | +--ro extr-qos-ext:name? string
|       +--rw extr-qos-ext:traffic-class-maps
|         +--rw extr-qos-ext:traffic-class-map* [traffic-class]
|           +--rw extr-qos-ext:traffic-class -> ../config/traffic-class
|           +--rw extr-qos-ext:config
|             | +--rw extr-qos-ext:traffic-class? uint8
|             | +--rw extr-qos-ext:cos?    uint8
|             | +--rw extr-qos-ext:dscp?    oc-inet:dscp
|             +--ro extr-qos-ext:state
|               +--ro extr-qos-ext:traffic-class? uint8
|               +--ro extr-qos-ext:cos?    uint8
|               +--ro extr-qos-ext:dscp?    oc-inet:dscp
+--rw extr-qos-ext:nvos
  +--rw extr-qos-ext:nvo* [name]
    +--rw extr-qos-ext:name        -> ../config/name
    +--rw extr-qos-ext:config
      | +--rw extr-qos-ext:name? string
      +--ro extr-qos-ext:state
      | +--ro extr-qos-ext:name? string
    +--rw extr-qos-ext:tunnel-mode
      +--rw extr-qos-ext:config
        | +--rw extr-qos-ext:encapsulation? extr-qos-types:tunnel-mode-type
        | +--rw extr-qos-ext:dscp?    oc-inet:dscp
        | +--rw extr-qos-ext:decapsulation? extr-qos-types:tunnel-mode-type
      +--ro extr-qos-ext:state
        +--ro extr-qos-ext:encapsulation? extr-qos-types:tunnel-mode-type
        +--ro extr-qos-ext:dscp?    oc-inet:dscp
        +--ro extr-qos-ext:decapsulation? extr-qos-types:tunnel-mode-type

```

module: openconfig-bfd

```

+--rw bfd
  +--rw interfaces
    | +--rw interface* [id]
    |   +--rw id      -> ../config/id
    |   +--rw config
    |     | +--rw id?          oc-if:interface-id
    |     | +--rw enabled?     boolean
    |     | +--rw extr-bfd-ext:profile?  profile-ref
    |     +--ro state
    |       | +--ro id?          oc-if:interface-id
    |       | +--ro enabled?     boolean
    |       | +--ro extr-bfd-ext:session-count?  uint16
    |       | +--ro extr-bfd-ext:profile?  profile-ref
    |     +--rw peers
    |       +--ro peer* [local-discriminator]
    |         +--ro local-discriminator  -> ../state/local-discriminator
    |         +--ro state
    |           +--ro local-address?          oc-inet:ip-address
    |           +--ro remote-address?         oc-inet:ip-address
    |           +--ro subscribed-protocols*   identityref
    |           +--ro session-state?          bfd-session-state
    |           +--ro remote-session-state?   bfd-session-state
    |           +--ro last-failure-time?      oc-types:timeticks64
    |           +--ro failure-transitions?    uint64
    |           +--ro local-discriminator?    string
    |           +--ro remote-discriminator?   string
    |           +--ro local-diagnostic-code?  bfd-diagnostic-code
    |           +--ro remote-diagnostic-code? bfd-diagnostic-code
    |           +--ro remote-minimum-receive-interval?  uint32
    |           +--ro demand-mode-requested?   boolean
    |           +--ro remote-authentication-enabled?  boolean
    |           +--ro remote-control-plane-independent?  boolean
    |         +--ro async
    |           | +--ro last-packet-transmitted?  uint64
    |           | +--ro last-packet-received?    uint64
    |           | +--ro transmitted-packets?    uint64
    |           | +--ro received-packets?      uint64
    |           | +--ro up-transitions?         uint64
    |           +--ro extr-bfd-ext:profiles* [subscribed-protocol]
    |             | +--ro extr-bfd-ext:subscribed-protocol  identityref
    |             | +--ro extr-bfd-ext:proto-profiles*    string

```

```

|      +--ro extr-bfd-ext:applied-profile?      string
|      +--ro extr-bfd-ext:session-id?          uint32
|      +--ro extr-bfd-ext:vrf-name?            string
|      +--ro extr-bfd-ext:local-minimum-tx-interval?  uint32
|      +--ro extr-bfd-ext:local-minimum-rx-interval?  uint32
|      +--ro extr-bfd-ext:local-detection-multiplier?  uint8
|      +--ro extr-bfd-ext:remote-minimum-transmit-interval?  uint32
|      +--ro extr-bfd-ext:remote-detection-multiplier?  uint32
|      +--ro extr-bfd-ext:authentication-failure?      boolean
|      +--ro extr-bfd-ext:last-up-time?              oc-types:timeticks64
+--rw extr-bfd-ext:bfd-profiles
| +--rw extr-bfd-ext:bfd-profile* [name]
|   +--rw extr-bfd-ext:name    -> ../config/name
|   +--rw extr-bfd-ext:config
|     | +--rw extr-bfd-ext:name?          string
|     | +--rw extr-bfd-ext:desired-minimum-tx-interval?  uint32
|     | +--rw extr-bfd-ext:required-minimum-receive?  uint32
|     | +--rw extr-bfd-ext:detection-multiplier?      uint8
|     +--ro extr-bfd-ext:state
|       +--ro extr-bfd-ext:name?          string
|       +--ro extr-bfd-ext:desired-minimum-tx-interval?  uint32
|       +--ro extr-bfd-ext:required-minimum-receive?  uint32
|       +--ro extr-bfd-ext:detection-multiplier?      uint8
+--rw extr-bfd-ext:global
  +--rw extr-bfd-ext:state
    +--rw extr-bfd-ext:session-count-above-system-limit?  uint16

```

module: openconfig-acl

```

+--rw acl
  +--rw config
  | +--rw extr-acl-ext:count?  boolean
  +--ro state
  | +--ro extr-acl-ext:count?  boolean
  +--rw acl-sets
  | +--rw acl-set* [name type]
  |   +--rw name    -> ../config/name
  |   +--rw type    -> ../config/type
  |   +--rw config
  |     | +--rw name?  string
  |     | +--rw type?  identityref
  |     +--ro state
  |       | +--ro name?  string

```



```

| | +--ro type? identityref
| +--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
|         | +--ro matched-packets? oc-yang:counter64
|         | +--ro matched-octets? oc-yang:counter64
|       +--rw actions
|         | +--rw config
|         | | +--rw forwarding-action identityref
|         | | +--rw extr-acl-ext:count? boolean
|         | +--ro state
|         | | +--ro forwarding-action identityref
|         | | +--ro extr-acl-ext:count? boolean
|       +--rw extr-acl-mac-ext:acl-mac
|         | +--rw extr-acl-mac-ext:config
|         | | +--rw extr-acl-mac-ext:source-mac?      oc-yang:mac-address
|         | | +--rw extr-acl-mac-ext:source-mac-mask? oc-yang:mac-address
|         | | +--rw extr-acl-mac-ext:destination-mac? oc-yang:mac-address
|         | | +--rw extr-acl-mac-ext:destination-mac-mask? oc-yang:mac-address
|         | | +--rw extr-acl-mac-ext:pcp?            uint8
|         | | +--rw extr-acl-mac-ext:ethertype?      oc-pkt-match-types:ethertype-type
|         | | +--rw extr-acl-mac-ext:vlan-tag?       uint16
|         | +--ro extr-acl-mac-ext:state
|         | | +--ro extr-acl-mac-ext:source-mac?      oc-yang:mac-address
|         | | +--ro extr-acl-mac-ext:source-mac-mask? oc-yang:mac-address
|         | | +--ro extr-acl-mac-ext:destination-mac? oc-yang:mac-address
|         | | +--ro extr-acl-mac-ext:destination-mac-mask? oc-yang:mac-address
|         | | +--ro extr-acl-mac-ext:pcp?            uint8
|         | | +--ro extr-acl-mac-ext:ethertype?      oc-pkt-match-types:ethertype-type
|         | | +--ro extr-acl-mac-ext:vlan-tag?       uint16
|       +--rw extr-acl-ipv6-ext:acl-ipv6
|         | +--rw extr-acl-ipv6-ext:config
|         | | +--rw extr-acl-ipv6-ext:source-ipv6?      oc-inet:ipv6-address
|         | | +--rw extr-acl-ipv6-ext:source-ipv6-mask? oc-inet:ipv6-address
|         | | +--rw extr-acl-ipv6-ext:destination-ipv6? oc-inet:ipv6-address
|         | | +--rw extr-acl-ipv6-ext:destination-ipv6-mask? oc-inet:ipv6-address
|         | | +--rw extr-acl-ipv6-ext:dscp?            oc-inet:dscp
|         | | +--rw extr-acl-ipv6-ext:protocol?       oc-pkt-match-types:ip-protocol-type

```

```

| | | +--rw extr-acl-ipv6-ext:vlan-tag?      uint16
| | | +--rw extr-acl-ipv6-ext:source-port?    oc-pkt-match-types:port-num-range
| | | +--rw extr-acl-ipv6-ext:destination-port? oc-pkt-match-types:port-num-range
| | | +--rw extr-acl-ipv6-ext:tcp-flags*      identityref
| | +--ro extr-acl-ipv6-ext:state
| |   +--ro extr-acl-ipv6-ext:source-ipv6?    oc-inet:ipv6-address
| |   +--ro extr-acl-ipv6-ext:source-ipv6-mask? oc-inet:ipv6-address
| |   +--ro extr-acl-ipv6-ext:destination-ipv6? oc-inet:ipv6-address
| |   +--ro extr-acl-ipv6-ext:destination-ipv6-mask? oc-inet:ipv6-address
| |   +--ro extr-acl-ipv6-ext:dscp?          oc-inet:dscp
| |   +--ro extr-acl-ipv6-ext:protocol?      oc-pkt-match-types:ip-protocol-type
| |   +--ro extr-acl-ipv6-ext:vlan-tag?      uint16
| |   +--ro extr-acl-ipv6-ext:source-port?    oc-pkt-match-types:port-num-range
| |   +--ro extr-acl-ipv6-ext:destination-port? oc-pkt-match-types:port-num-range
| |   +--ro extr-acl-ipv6-ext:tcp-flags*      identityref
| +--rw extr-acl-ipv4-ext:acl-ipv4
|   +--rw extr-acl-ipv4-ext:config
|     +--rw extr-acl-ipv4-ext:source-ipv4?    oc-inet:ipv4-address
|     +--rw extr-acl-ipv4-ext:source-ipv4-mask? oc-inet:ipv4-address
|     +--rw extr-acl-ipv4-ext:destination-ipv4? oc-inet:ipv4-address
|     +--rw extr-acl-ipv4-ext:destination-ipv4-mask? oc-inet:ipv4-address
|     +--rw extr-acl-ipv4-ext:dscp?          oc-inet:dscp
|     +--rw extr-acl-ipv4-ext:protocol?      oc-pkt-match-types:ip-protocol-type
|     +--rw extr-acl-ipv4-ext:vlan-tag?      uint16
|     +--rw extr-acl-ipv4-ext:source-port?    oc-pkt-match-types:port-num-range
|     +--rw extr-acl-ipv4-ext:destination-port? oc-pkt-match-types:port-num-range
|     +--rw extr-acl-ipv4-ext:tcp-flags*      identityref
|   +--ro extr-acl-ipv4-ext:state
|     +--ro extr-acl-ipv4-ext:source-ipv4?    oc-inet:ipv4-address
|     +--ro extr-acl-ipv4-ext:source-ipv4-mask? oc-inet:ipv4-address
|     +--ro extr-acl-ipv4-ext:destination-ipv4? oc-inet:ipv4-address
|     +--ro extr-acl-ipv4-ext:destination-ipv4-mask? oc-inet:ipv4-address
|     +--ro extr-acl-ipv4-ext:dscp?          oc-inet:dscp
|     +--ro extr-acl-ipv4-ext:protocol?      oc-pkt-match-types:ip-protocol-type
|     +--ro extr-acl-ipv4-ext:vlan-tag?      uint16
|     +--ro extr-acl-ipv4-ext:source-port?    oc-pkt-match-types:port-num-range
|     +--ro extr-acl-ipv4-ext:destination-port? oc-pkt-match-types:port-num-range
|     +--ro extr-acl-ipv4-ext:tcp-flags*      identityref
+--rw interfaces
| +--rw interface* [id]
|   +--rw id          -> ../config/id
|   +--rw config

```

```

| | +--rw id? oc-if:interface-id
| +--ro state
| | +--ro id? oc-if:interface-id
| +--rw ingress-acl-sets
| | +--rw ingress-acl-set* [set-name type]
| |   +--rw set-name -> ../config/set-name
| |   +--rw type -> ../config/type
| |   +--rw config
| |     | +--rw set-name? -> ../../../../acl-sets/acl-set/config/name
| |     | +--rw type? -> ../../../../acl-sets/acl-set[name=current()]/../set-name/config/type
| |     +--ro state
| |       +--ro set-name? -> ../../../../acl-sets/acl-set/config/name
| |       +--ro type? -> ../../../../acl-sets/acl-set[name=current()]/../set-name/config/type
| +--rw egress-acl-sets
|   +--rw egress-acl-set* [set-name type]
|   +--rw set-name -> ../config/set-name
|   +--rw type -> ../config/type
|   +--rw config
|     | +--rw set-name? -> ../../../../acl-sets/acl-set/config/name
|     | +--rw type? -> ../../../../acl-sets/acl-set[name=current()]/../set-name/config/type
|     +--ro state
|       +--ro set-name? -> ../../../../acl-sets/acl-set/config/name
|       +--ro type? -> ../../../../acl-sets/acl-set[name=current()]/../set-name/config/type
+--rw extr-acl-ext:rbid-maps
  +--rw extr-acl-ext:rbid-map* [rbid]
  +--rw extr-acl-ext:rbid -> ../config/rbid
  +--rw extr-acl-ext:config
  | +--rw extr-acl-ext:rbid? uint64
  +--ro extr-acl-ext:state
    +--ro extr-acl-ext:rbid? uint64
    +--ro extr-acl-ext:acl-type? -> /oc-acl:acl/acl-sets/acl-set/type
    +--ro extr-acl-ext:acl-name? -> /oc-acl:acl/acl-sets/acl-set/name
    +--ro extr-acl-ext:acl-direction? direction-enum
    +--ro extr-acl-ext:acl-seq-id? -> /oc-acl:acl/acl-sets/acl-set/acl-entries/acl-
entry/sequence-id
    +--ro extr-acl-ext:feature-name? string
    +--ro extr-acl-ext:feature-type? feature-type-enum
    +--ro extr-acl-ext:feature-seq-id? uint16
    +--ro extr-acl-ext:service-intf-index? uint32
    +--ro extr-acl-ext:attachment-point-type? attachment-point-type-enum

```

module: openconfig-lacp

```

+--rw lacp
  +--rw config
    | +--rw system-priority?    uint16
    | +--rw extr-lacp-ext:enabled? boolean
  +--ro state
    | +--ro system-priority?    uint16
    | +--ro extr-lacp-ext:enabled? boolean
  +--rw interfaces
    +--rw interface* [name]
      +--rw name    -> ../config/name
      +--rw config
        | +--rw name?      oc-if:base-interface-ref
        | +--rw interval?  lacp-period-type
        | +--rw lacp-mode?  lacp-activity-type
        | +--rw system-id-mac? oc-yang:mac-address
        | +--rw system-priority? uint16
      +--ro state
        | +--ro name?      oc-if:base-interface-ref
        | +--ro interval?  lacp-period-type
        | +--ro lacp-mode?  lacp-activity-type
        | +--ro system-id-mac? oc-yang:mac-address
        | +--ro system-priority? uint16
      +--rw members
        +--rw member* [interface]
          +--rw interface    -> ../config/interface
          +--rw config
            | +--rw interface?  oc-if:base-interface-ref
            | +--rw port-priority? uint16
          +--ro state
            +--ro interface?      oc-if:base-interface-ref
            +--ro activity?      lacp-activity-type
            +--ro timeout?      lacp-timeout-type
            +--ro synchronization? lacp-synchronization-type
            +--ro aggregatable?  boolean
            +--ro collecting?    boolean
            +--ro distributing?  boolean
            +--ro system-id?     oc-yang:mac-address
            +--ro oper-key?      uint16
            +--ro partner-id?    oc-yang:mac-address
            +--ro partner-key?   uint16
            +--ro port-num?      uint16
            +--ro partner-port-num? uint16

```

```

+--ro last-change?                oc-types:timeticks64
+--ro counters
| +--ro lacp-in-pkts?             oc-yang:counter64
| +--ro lacp-out-pkts?           oc-yang:counter64
| +--ro lacp-rx-errors?          oc-yang:counter64
| +--ro lacp-tx-errors?          oc-yang:counter64
| +--ro lacp-unknown-errors?     oc-yang:counter64
| +--ro lacp-errors?             oc-yang:counter64
| +--ro lacp-timeout-transitions? oc-yang:counter64
+--ro extr-lacp-ext:rx-machine?   rx-machine-state
+--ro extr-lacp-ext:rx-time?      uint32
+--ro extr-lacp-ext:tx-machine?   tx-machine-state
+--ro extr-lacp-ext:mux-machine?  mux-machine-state
+--ro extr-lacp-ext:mux-reason?   string
+--ro extr-lacp-ext:actor-churn-machine? churn-machine-state
+--ro extr-lacp-ext:partner-churn-machine? churn-machine-state
+--ro extr-lacp-ext:actor-churn-count? oc-yang:counter64
+--ro extr-lacp-ext:partner-churn-count? oc-yang:counter64
+--ro extr-lacp-ext:actor-sync-transition-count? oc-yang:counter64
+--ro extr-lacp-ext:partner-sync-transition-count? oc-yang:counter64
+--ro extr-lacp-ext:actor-change-count? oc-yang:counter64
+--ro extr-lacp-ext:partner-change-count? oc-yang:counter64
+--ro extr-lacp-ext:actor-cds-churn-machine? churn-machine-state
+--ro extr-lacp-ext:partner-cds-churn-machine? churn-machine-state
+--ro extr-lacp-ext:actor-cds-churn-count? oc-yang:counter64
+--ro extr-lacp-ext:partner-cds-churn-count? oc-yang:counter64

```

module: openconfig-network-instance

```

+--rw network-instances
+--rw network-instance* [name]
+--rw name                -> ../config/name
+--rw config
| +--rw name?             string
| +--rw type              identityref
| +--rw description?      string
| +--rw router-id?        oc-yang:dotted-quad
| +--rw route-distinguisher? oc-ni-types:route-distinguisher
| +--rw extr-ni-ext:resilient-hash? boolean
| +--rw extr-ni-ext:ecmp-max-path? uint8
| +--rw extr-ni-ext:sub-type? identityref
| +--rw extr-ni-ext:statistics? boolean
+--ro state

```

```

| +--ro name?                string
| +--ro type                 identityref
| +--ro description?         string
| +--ro router-id?           oc-yang:dotted-quad
| +--ro route-distinguisher? oc-ni-types:route-distinguisher
| +--ro extr-ni-ext:network-instance-id? uint32
| +--ro extr-ni-ext:resilient-hash?    boolean
| +--ro extr-ni-ext:ecmp-max-path?     uint8
| +--ro extr-ni-ext:sub-type?          identityref
| +--ro extr-ni-ext:statistics?        boolean
| +--ro extr-ni-ext:counters
|   +--ro extr-ni-ext:in-octets? oc-yang:counter64
|   +--ro extr-ni-ext:in-pkts?  oc-yang:counter64
|   +--ro extr-ni-ext:out-octets? oc-yang:counter64
|   +--ro extr-ni-ext:out-pkts?  oc-yang:counter64
+--rw fdb
| +--rw config
| | +--rw mac-learning?          boolean
| | +--rw mac-aging-time?        uint16
| | +--rw maximum-entries?       uint16
| | +--rw anycast-gateway-mac?   oc-yang:mac-address
| | +--rw flood-unknown-unicast-supression? boolean
| +--ro state
| | +--ro mac-learning?          boolean
| | +--ro mac-aging-time?        uint16
| | +--ro maximum-entries?       uint16
| | +--ro anycast-gateway-mac?   oc-yang:mac-address
| | +--ro flood-unknown-unicast-supression? boolean
| +--rw mac-table
| | +--rw entries
| |   +--rw entry* [mac-address vlan]
| |     +--rw mac-address -> ../config/mac-address
| |     +--rw vlan       -> ../config/vlan
| |     +--rw config
| |       | +--rw mac-address? oc-yang:mac-address
| |       | +--rw vlan?       -> ../../../../vlangs/vlan/config/vlan-id
| |       +--ro state
| |         | +--ro mac-address? oc-yang:mac-address
| |         | +--ro vlan?       -> ../../../../vlangs/vlan/config/vlan-id
| |       +--rw interface
| |         +--rw interface-ref
| |         +--rw config

```

```

| | | | +--rw interface? -> /oc-if:interfaces/interface/name
| | | | +--rw subinterface? -> /oc-if:interfaces/interface[oc-
if:name=current()/../interface]/subinterfaces/subinterface/index
| | | +--ro state
| | | +--ro interface? -> /oc-if:interfaces/interface/name
| | | +--ro subinterface? -> /oc-if:interfaces/interface[oc-
if:name=current()/../interface]/subinterfaces/subinterface/index
| | +--rw mac-mobility
| | | +--rw config
| | | | +--rw mac-mobility? boolean
| | | | +--rw mac-mobility-window? uint16
| | | | +--rw mac-mobility-threshold? uint8
| | | | +--rw ip-mobility-threshold? uint16
| | | | +--rw duplicate-ip-detection-interval? uint16
| | | +--ro state
| | | | +--ro mac-mobility? boolean
| | | | +--ro mac-mobility-window? uint16
| | | | +--ro mac-mobility-threshold? uint8
| | | | +--ro ip-mobility-threshold? uint16
| | | | +--ro duplicate-ip-detection-interval? uint16
| | +--rw arp-proxy
| | | +--rw config
| | | | +--rw arp-suppression? boolean
| | | | +--rw extr-ni-ext:arp-snooping? boolean
| | | | +--rw extr-ni-ext:arp-agetime? uint16
| | | +--ro state
| | | | +--ro arp-suppression? boolean
| | | | +--ro extr-ni-ext:arp-snooping? boolean
| | | | +--ro extr-ni-ext:arp-agetime? uint16
| | +--rw nd-proxy
| | | +--rw config
| | | | +--rw nd-suppression? boolean
| | | | +--rw extr-ni-ext:nd-snooping? boolean
| | | | +--rw extr-ni-ext:nd-agetime? uint16
| | | +--ro state
| | | | +--ro nd-suppression? boolean
| | | | +--ro extr-ni-ext:nd-snooping? boolean
| | | | +--ro extr-ni-ext:nd-agetime? uint16
+--rw evpn
| +--rw evpn-instances
| | +--rw evpn-instance* [evi]
| | | +--rw evi -> ../config/evi

```

```

|   +--rw config
|   |   +--rw evi?                string
|   |   +--rw encapsulation-type? identityref
|   |   +--rw service-type?       identityref
|   |   +--rw multicast-group?    oc-inet:ip-address
|   |   +--rw multicast-mask?    oc-inet:ip-address
|   |   +--rw replication-mode?   enumeration
|   |   +--rw route-distinguisher? union
|   |   +--rw extr-ni-evpn-ext:nve? string
|   |   +--rw extr-ni-evpn-ext:bridge-domain* oc-ni:network-instance-ref
|   |   +--rw extr-ni-evpn-ext:ignore-as? boolean
|   +--ro state
|   |   +--ro evi?                string
|   |   +--ro encapsulation-type? identityref
|   |   +--ro service-type?       identityref
|   |   +--ro multicast-group?    oc-inet:ip-address
|   |   +--ro multicast-mask?    oc-inet:ip-address
|   |   +--ro replication-mode?   enumeration
|   |   +--ro route-distinguisher? union
|   |   +--ro extr-ni-evpn-ext:nve? string
|   |   +--ro extr-ni-evpn-ext:bridge-domain* oc-ni:network-instance-ref
|   |   +--ro extr-ni-evpn-ext:ignore-as? boolean
|   |   +--ro extr-ni-evpn-ext:bridge-domains* [bd-id]
|   |   |   +--ro extr-ni-evpn-ext:bd-id -> ../state/bd-id
|   |   |   +--ro extr-ni-evpn-ext:state
|   |   |   |   +--ro extr-ni-evpn-ext:bd-id? uint32
|   |   |   |   +--ro extr-ni-evpn-ext:active? boolean
|   |   |   |   +--ro extr-ni-evpn-ext:name? string
|   |   |   |   +--ro extr-ni-evpn-ext:linked? boolean
|   |   |   +--ro extr-ni-evpn-ext:refresh-reason? string
|   |   |   +--ro extr-ni-evpn-ext:rd-auto? boolean
|   |   |   +--ro extr-ni-evpn-ext:import-rt-auto? boolean
|   |   |   +--ro extr-ni-evpn-ext:export-rt-auto? boolean
|   |   |   +--ro extr-ni-evpn-ext:tunnel-src? string
|   |   |   +--ro extr-ni-evpn-ext:router-id? string
|   |   |   +--ro extr-ni-evpn-ext:active? boolean
|   +--rw import-export-policy
|   |   +--rw config
|   |   |   +--rw export-route-target* union
|   |   |   +--rw import-route-target* union
|   |   +--ro state
|   |   |   +--ro export-route-target* union

```



```

|   |   +--ro import-route-target* union
|   +--rw vxlan
|   |   +--rw config
|   |   |   +--rw vni?                oc-evpn-types:vni-id
|   |   |   |   +--rw overlay-endpoint-network-instance? -> /network-instances/network-
instance/name
|   |   |   |   +--rw overlay-endpoint?                -> /network-instances/network-
instance[name=current()/../overlay-endpoint-network-instance]/connection-points/connection-
point/endpoints/endpoint/config/endpoint-id
|   |   |   |   |   +--rw host-reachability-bgp?        boolean
|   |   |   |   |   +--rw multicast-group?              oc-inet:ip-address
|   |   |   |   |   +--rw multicast-mask?              oc-inet:ip-address
|   |   |   |   |   +--ro state
|   |   |   |   |   +--ro vni?                oc-evpn-types:vni-id
|   |   |   |   |   +--ro overlay-endpoint-network-instance? -> /network-instances/network-
instance/name
|   |   |   |   |   +--ro overlay-endpoint?                -> /network-instances/network-
instance[name=current()/../overlay-endpoint-network-instance]/connection-points/connection-
point/endpoints/endpoint/config/endpoint-id
|   |   |   |   |   |   +--ro host-reachability-bgp?        boolean
|   |   |   |   |   |   +--ro multicast-group?              oc-inet:ip-address
|   |   |   |   |   |   +--ro multicast-mask?              oc-inet:ip-address
|   |   |   |   |   |   +--rw anycast-source-interface
|   |   |   |   |   |   +--rw config
|   |   |   |   |   |   |   +--rw interface?  -> /oc-if:interfaces/interface/name
|   |   |   |   |   |   |   |   +--rw subinterface?  -> /oc-if:interfaces/interface[oc-
if:name=current()/../interface]/subinterfaces/subinterface/index
|   |   |   |   |   |   |   |   +--ro state
|   |   |   |   |   |   |   |   +--ro interface?  -> /oc-if:interfaces/interface/name
|   |   |   |   |   |   |   |   +--ro subinterface?  -> /oc-if:interfaces/interface[oc-
if:name=current()/../interface]/subinterfaces/subinterface/index
|   |   |   |   |   |   |   |   +--rw pbb
|   |   |   |   |   |   |   |   |   +--rw b-component* [b-component-name]
|   |   |   |   |   |   |   |   |   +--rw b-component-name -> ../config/b-component-name
|   |   |   |   |   |   |   |   |   +--rw config
|   |   |   |   |   |   |   |   |   |   +--rw b-component-name? string
|   |   |   |   |   |   |   |   |   |   +--rw backbone-src-mac? oc-yang:mac-address
|   |   |   |   |   |   |   |   |   |   +--ro state
|   |   |   |   |   |   |   |   |   |   |   +--ro b-component-name? string
|   |   |   |   |   |   |   |   |   |   |   +--ro backbone-src-mac? oc-yang:mac-address
|   |   |   |   |   |   |   |   |   |   +--rw i-components
|   |   |   |   |   |   |   |   |   |   |   +--rw i-component* [i-sid]

```

```

| |      +--rw i-sid    -> ../config/i-sid
| |      +--rw config
| |      | +--rw i-sid?  uint32
| |      +--ro state
| |      +--ro i-sid?   uint32
| +--rw extr-ni-evpn-ext:duplicate-host-detection
|   +--rw extr-ni-evpn-ext:mac-detection
|     | +--rw extr-ni-evpn-ext:config
|     | | +--rw extr-ni-evpn-ext:move-count?   uint32
|     | | +--rw extr-ni-evpn-ext:detection-time? uint32
|     | | +--rw extr-ni-evpn-ext:dampening-time? uint32
|     | +--rw extr-ni-evpn-ext:state
|     |   +--rw extr-ni-evpn-ext:move-count?   uint32
|     |   +--rw extr-ni-evpn-ext:detection-time? uint32
|     |   +--rw extr-ni-evpn-ext:dampening-time? uint32
| +--rw extr-ni-evpn-ext:ipv4-detection
|   | +--rw extr-ni-evpn-ext:config
|   | | +--rw extr-ni-evpn-ext:move-count?   uint32
|   | | +--rw extr-ni-evpn-ext:detection-time? uint32
|   | | +--rw extr-ni-evpn-ext:dampening-time? uint32
|   | +--rw extr-ni-evpn-ext:state
|   |   +--rw extr-ni-evpn-ext:move-count?   uint32
|   |   +--rw extr-ni-evpn-ext:detection-time? uint32
|   |   +--rw extr-ni-evpn-ext:dampening-time? uint32
| +--rw extr-ni-evpn-ext:ipv6-detection
|   +--rw extr-ni-evpn-ext:config
|     | +--rw extr-ni-evpn-ext:move-count?   uint32
|     | +--rw extr-ni-evpn-ext:detection-time? uint32
|     | +--rw extr-ni-evpn-ext:dampening-time? uint32
|     +--rw extr-ni-evpn-ext:state
|       +--rw extr-ni-evpn-ext:move-count?   uint32
|       +--rw extr-ni-evpn-ext:detection-time? uint32
|       +--rw extr-ni-evpn-ext:dampening-time? uint32
+--rw table-connections
| +--rw table-connection* [src-protocol dst-protocol address-family]
|   +--rw src-protocol    -> ../config/src-protocol
|   +--rw dst-protocol    -> ../config/dst-protocol
|   +--rw address-family  -> ../config/address-family
|   +--rw config
|     | +--rw src-protocol?      -> ../../../../tables/table/config/protocol
|     | +--rw address-family?    -> ../../../../tables/table[protocol=current()]/../src-
protocol]/config/address-family

```

```

| | +--rw dst-protocol?          -> ../../../../tables/table/config/protocol
| | +--rw disable-metric-propagation? boolean
| | +--rw import-policy*         -> /oc-rpol:routing-policy/policy-definitions/policy-
definition/name
| | +--rw default-import-policy?  default-policy-type
| +--ro state
|   +--ro src-protocol?          -> ../../../../tables/table/config/protocol
|   +--ro address-family?        -> ../../../../tables/table[protocol=current()]/../src-
protocol]/config/address-family
|   +--ro dst-protocol?          -> ../../../../tables/table/config/protocol
|   +--ro disable-metric-propagation? boolean
|   +--ro import-policy*         -> /oc-rpol:routing-policy/policy-definitions/policy-
definition/name
|   +--ro default-import-policy?  default-policy-type
+--rw interfaces
| +--rw interface* [id]
|   +--rw id      -> ../config/id
|   +--rw config
|     | +--rw id?      oc-if:interface-id
|     | +--rw interface? -> /oc-if:interfaces/interface/name
|     |   +--rw subinterface? -> /oc-if:interfaces/interface[oc-
if:name=current()]/../interface]/subinterfaces/subinterface/index
|     +--ro state
|     +--ro id?      oc-if:interface-id
|     +--ro interface? -> /oc-if:interfaces/interface/name
|     +--ro subinterface? -> /oc-if:interfaces/interface[oc-
if:name=current()]/../interface]/subinterfaces/subinterface/index
+--rw tables
| +--rw table* [protocol address-family]
|   +--rw protocol      -> ../config/protocol
|   +--rw address-family -> ../config/address-family
|   +--rw config
|     | +--rw protocol? -> ../../../../protocols/protocol/config/identifier
|     | +--rw address-family? identityref
|     +--ro state
|     +--ro protocol? -> ../../../../protocols/protocol/config/identifier
|     +--ro address-family? identityref
+--rw connection-points
| +--rw connection-point* [connection-point-id]
|   +--rw connection-point-id -> ../config/connection-point-id
|   +--rw config
|     | +--rw connection-point-id? string

```

```

|   +--ro state
|   |   +--ro connection-point-id? string
|   +--rw endpoints
|   |   +--rw endpoint* [endpoint-id]
|   |   |   +--rw endpoint-id -> ../config/endpoint-id
|   |   |   +--rw config
|   |   |   |   +--rw endpoint-id? string
|   |   |   |   +--rw precedence? uint16
|   |   |   |   +--rw type? identityref
|   |   +--ro state
|   |   |   +--ro endpoint-id? string
|   |   |   +--ro precedence? uint16
|   |   |   +--ro type? identityref
|   |   |   +--ro active? boolean
|   |   +--rw local
|   |   |   +--rw config
|   |   |   |   +--rw interface? -> /oc-if:interfaces/interface/name
|   |   |   |   |   +--rw subinterface? -> /oc-if:interfaces/interface[oc-
if:name=current()/../interface]/subinterfaces/subinterface/index
|   |   |   |   |   +--rw site-id? uint16
|   |   |   |   |   +--rw site-label-block-offset? uint16
|   |   |   |   |   +--rw site-label-block-size? uint16
|   |   |   |   +--ro state
|   |   |   |   |   +--ro interface? -> /oc-if:interfaces/interface/name
|   |   |   |   |   +--ro subinterface? -> /oc-if:interfaces/interface[oc-
if:name=current()/../interface]/subinterfaces/subinterface/index
|   |   |   |   |   +--ro site-id? uint16
|   |   |   |   |   +--ro site-label-block-offset? uint16
|   |   |   |   |   +--ro site-label-block-size? uint16
|   |   +--rw remote
|   |   |   +--rw config
|   |   |   |   +--rw remote-system? oc-inet:ip-address
|   |   |   |   +--rw virtual-circuit-identifier? uint32
|   |   |   |   +--rw site-id? uint16
|   |   |   +--ro state
|   |   |   |   +--ro remote-system? oc-inet:ip-address
|   |   |   |   +--ro virtual-circuit-identifier? uint32
|   |   |   |   +--ro site-id? uint16
|   +--rw vxlan
|   |   +--rw config
|   |   |   +--rw description? string
|   |   |   +--rw enabled? boolean

```

```

|         | +--rw source-interface? string
|         +--ro state
|         | +--ro description? string
|         | +--ro enabled? boolean
|         | +--ro source-interface? string
|         +--ro endpoint-peers
|         | +--ro endpoint-peer* [peer-address]
|         |   +--ro peer-address -> ../state/peer-address
|         |   +--ro state
|         |     +--ro peer-address? oc-inet:ip-address
|         |     +--ro peer-state? enumeration
|         |     +--ro uptime? oc-types:timeticks64
|         |     x--ro control-plane-vnis* oc-evpn-types:vni-id
|         |     x--ro router-mac? oc-yang:mac-address
|         +--ro endpoint-vnis
|         +--ro endpoint-vni* [vni]
|         +--ro vni -> ../state/vni
|         +--ro state
|         +--ro vni? oc-evpn-types:evi-id
|         +--ro vni-type? enumeration
|         +--ro bridge-domain? uint32
|         +--ro l3-vrf-name? string
|         +--ro multideestination-traffic? union
|         +--ro learning-mode? oc-evpn-types:learning-mode
|         +--ro vni-state? enumeration
|         +--ro svi-state? enumeration
+--rw vlans
| +--rw vlan* [vlan-id]
|   +--rw vlan-id -> ../config/vlan-id
|   +--rw config
|   | +--rw vlan-id? oc-vlan-types:vlan-id
|   +--ro state
|   | +--ro vlan-id? oc-vlan-types:vlan-id
|   +--rw members
|   +--ro member* []
|   +--ro state
|   +--ro interface? base-interface-ref
+--rw protocols
| +--rw protocol* [identifier name]
|   +--rw identifier -> ../config/identifier
|   +--rw name -> ../config/name
|   +--rw config

```

```

| | +--rw identifier?          identityref
| | +--rw name?               string
| | +--rw enabled?            boolean
| | +--rw default-metric?     uint32
| | +--rw extr-ni-ext:default-distance? uint32
| +--ro state
| | +--ro identifier?          identityref
| | +--ro name?               string
| | +--ro enabled?            boolean
| | +--ro default-metric?     uint32
| | +--ro extr-ni-ext:default-distance? uint32
| +--rw static-routes
| | +--rw static* [prefix]
| | | +--rw prefix    -> ../config/prefix
| | | +--rw config
| | | | +--rw prefix?  inet:ip-prefix
| | | | +--rw set-tag?  uint32
| | | | +--rw description? string
| | | +--ro state
| | | | +--ro prefix?  inet:ip-prefix
| | | | +--ro set-tag?  uint32
| | | | +--ro description? string
| | | +--rw next-hops
| | | | +--rw next-hop* [index]
| | | | | +--rw index    -> ../config/index
| | | | | +--rw config
| | | | | | +--rw index?      string
| | | | | | +--rw next-hop?   union
| | | | | | +--rw recurse?    boolean
| | | | | | +--rw metric?     uint32
| | | | | | +--rw preference?  uint32
| | | | | | +--rw extr-ni-ext:admin-distance? uint32
| | | | +--ro state
| | | | | +--ro index?      string
| | | | | +--ro next-hop?   union
| | | | | +--ro recurse?    boolean
| | | | | +--ro metric?     uint32
| | | | | +--ro preference?  uint32
| | | | | +--ro extr-ni-ext:admin-distance? uint32
| | | +--rw enable-bfd
| | | | +--rw config
| | | | | +--rw enabled?      boolean

```

```

| | | | +--rw extr-bfd-ext:profile?          profile-ref
| | | | +--rw extr-static-bfd-ext:source-interface? oc-if:base-interface-ref
| | | | +--ro state
| | | | +--ro enabled?                        boolean
| | | | +--ro extr-bfd-ext:profile?          profile-ref
| | | | +--ro extr-static-bfd-ext:session-id? uint32
| | | | +--ro extr-static-bfd-ext:session-status? uint8
| | | | +--ro extr-static-bfd-ext:last-updated? oc-types:timeticks64
| | | | +--ro extr-static-bfd-ext:source-addr? oc-inet:ip-address
| | | | +--ro extr-static-bfd-ext:source-subinterface? uint64
| | | | +--ro extr-static-bfd-ext:source-interface? oc-if:base-interface-ref
| | | +--rw interface-ref
| | | +--rw config
| | | | +--rw interface? -> /oc-if:interfaces/interface/name
| | | | +--rw subinterface? -> /oc-if:interfaces/interface[oc-
if:name=current()/../interface]/subinterfaces/subinterface/index
| | | | +--ro state
| | | | +--ro interface? -> /oc-if:interfaces/interface/name
| | | | +--ro subinterface? -> /oc-if:interfaces/interface[oc-
if:name=current()/../interface]/subinterfaces/subinterface/index
| | +--rw bgp
| | +--rw global
| | | +--rw config
| | | | +--rw as                oc-inet:as-number
| | | | +--rw router-id?       oc-yang:dotted-quad
| | | | +--rw extr-bgp-ext:as-notation? extr-bgp-types:as-notation-type
| | | | +--rw extr-bgp-ext:route-distinguisher? oc-ni-types:route-distinguisher
| | | | +--ro state
| | | | | +--ro as                oc-inet:as-number
| | | | | +--ro router-id?       oc-yang:dotted-quad
| | | | | +--ro total-paths?     uint32
| | | | | +--ro total-prefixes?  uint32
| | | | | +--ro extr-bgp-ext:as-notation? extr-bgp-types:as-notation-type
| | | | | +--ro extr-bgp-ext:route-distinguisher? oc-ni-types:route-distinguisher
| | | | +--rw confederation
| | | | | +--rw config
| | | | | | +--rw identifier? oc-inet:as-number
| | | | | | +--rw member-as*   oc-inet:as-number
| | | | | | +--ro state
| | | | | | | +--ro identifier? oc-inet:as-number
| | | | | | | +--ro member-as*   oc-inet:as-number
| | | +--rw graceful-restart

```

```

| | | +--rw config
| | | | +--rw enabled?      boolean
| | | | +--rw restart-time?  uint16
| | | | +--rw stale-routes-time? uint16
| | | | +--rw helper-only?   boolean
| | | +--ro state
| | | | +--ro enabled?      boolean
| | | | +--ro restart-time?  uint16
| | | | +--ro stale-routes-time? uint16
| | | | +--ro helper-only?   boolean
| | +--rw use-multiple-paths
| | | +--rw config
| | | | +--rw enabled?  boolean
| | | +--ro state
| | | | +--ro enabled?  boolean
| | | +--rw ebgp
| | | | +--rw config
| | | | | +--rw allow-multiple-as?  boolean
| | | | | +--rw maximum-paths?    uint32
| | | | +--ro state
| | | | | +--ro allow-multiple-as?  boolean
| | | | | +--ro maximum-paths?    uint32
| | | +--rw ibgp
| | | | +--rw config
| | | | | +--rw maximum-paths?  uint32
| | | | +--ro state
| | | | | +--ro maximum-paths?  uint32
| | +--rw afi-safis
| | | +--rw afi-safi* [afi-safi-name]
| | | | +--rw afi-safi-name          -> ../config/afi-safi-name
| | | | +--rw config
| | | | | +--rw afi-safi-name?  identityref
| | | | | +--rw enabled?      boolean
| | | | +--ro state
| | | | | +--ro afi-safi-name?  identityref
| | | | | +--ro enabled?      boolean
| | | | | +--ro total-paths?   uint32
| | | | | +--ro total-prefixes? uint32
| | | +--rw graceful-restart
| | | | +--rw config
| | | | | +--rw enabled?  boolean
| | | | +--ro state

```



```

|   |   |   |   +--ro enabled?  boolean
|   |   |   +--rw use-multiple-paths
|   |   |   |   +--rw config
|   |   |   |   |   +--rw enabled?  boolean
|   |   |   |   +--ro state
|   |   |   |   |   +--ro enabled?  boolean
|   |   |   |   +--rw ebgp
|   |   |   |   |   +--rw config
|   |   |   |   |   |   +--rw allow-multiple-as?  boolean
|   |   |   |   |   |   +--rw maximum-paths?    uint32
|   |   |   |   |   +--ro state
|   |   |   |   |   |   +--ro allow-multiple-as?  boolean
|   |   |   |   |   |   +--ro maximum-paths?    uint32
|   |   |   |   +--rw ibgp
|   |   |   |   |   +--rw config
|   |   |   |   |   |   +--rw maximum-paths?  uint32
|   |   |   |   +--ro state
|   |   |   |   |   +--ro maximum-paths?  uint32
|   |   |   +--rw add-paths
|   |   |   |   +--rw config
|   |   |   |   |   +--rw receive?  boolean
|   |   |   |   +--ro state
|   |   |   |   |   +--ro receive?  boolean
|   |   |   +--rw ipv4-unicast
|   |   |   |   +--rw config
|   |   |   |   |   +--rw send-default-route?          boolean
|   |   |   |   |   +--rw extr-bgp-ext:next-hop-recursion?  boolean
|   |   |   |   |   +--rw extr-bgp-ext:next-hop-enable-default?  boolean
|   |   |   |   +--ro state
|   |   |   |   |   +--ro send-default-route?          boolean
|   |   |   |   |   +--ro extr-bgp-ext:next-hop-recursion?  boolean
|   |   |   |   |   +--ro extr-bgp-ext:next-hop-enable-default?  boolean
|   |   |   +--rw ipv6-unicast
|   |   |   |   +--rw config
|   |   |   |   |   +--rw send-default-route?          boolean
|   |   |   |   |   +--rw extr-bgp-ext:next-hop-recursion?  boolean
|   |   |   |   |   +--rw extr-bgp-ext:next-hop-enable-default?  boolean
|   |   |   |   +--ro state
|   |   |   |   |   +--ro send-default-route?          boolean
|   |   |   |   |   +--ro extr-bgp-ext:next-hop-recursion?  boolean
|   |   |   |   |   +--ro extr-bgp-ext:next-hop-enable-default?  boolean
|   |   |   +--rw l2vpn-evpn

```

```

|   |   |   | +--rw extr-bgp-ext:config
|   |   |   | | +--rw extr-bgp-ext:retain-route-target-all? boolean
|   |   |   | +--rw extr-bgp-ext:state
|   |   |   |   +--rw extr-bgp-ext:retain-route-target-all? boolean
|   |   |   +--rw extr-bgp-ext:prefix-independent-convergence
|   |   |   | +--rw extr-bgp-ext:config
|   |   |   | | +--rw extr-bgp-ext:enabled? boolean
|   |   |   | +--ro extr-bgp-ext:state
|   |   |   |   +--ro extr-bgp-ext:enabled? boolean
|   |   |   +--rw extr-bgp-ext:network* [prefix]
|   |   |       +--rw extr-bgp-ext:prefix -> ../config/prefix
|   |   |       +--rw extr-bgp-ext:config
|   |   |           | +--rw extr-bgp-ext:prefix? oc-inet:ip-prefix
|   |   |           | +--rw extr-bgp-ext:policy? string
|   |   |           +--ro extr-bgp-ext:state
|   |   |               +--ro extr-bgp-ext:prefix? oc-inet:ip-prefix
|   |   |               +--ro extr-bgp-ext:policy? string
|   |   +--rw dynamic-neighbor-prefixes
|   |       +--rw dynamic-neighbor-prefix* [prefix]
|   |           +--rw prefix -> ../config/prefix
|   |           +--rw config
|   |               | +--rw prefix? oc-inet:ip-prefix
|   |               | +--rw peer-group? -> ../../../../peer-groups/peer-group/config/peer-
group-name
|   |                   | +--rw extr-bgp-ext:listen-limit? uint16
|   |                   | +--ro state
|   |                   |   +--ro prefix? oc-inet:ip-prefix
|   |                   |   +--ro peer-group? -> ../../../../peer-groups/peer-group/config/peer-
group-name
|   |                   +--ro extr-bgp-ext:listen-limit? uint16
|   |       +--rw extr-bgp-ext:evpn
|   |           +--rw extr-bgp-ext:nves
|   |               +--rw extr-bgp-ext:nve* [name]
|   |                   +--rw extr-bgp-ext:name -> ../config/name
|   |                   +--rw extr-bgp-ext:config
|   |                       | +--rw extr-bgp-ext:name? string
|   |                       | +--rw extr-bgp-ext:l3vni? uint32
|   |                       +--ro extr-bgp-ext:state
|   |                           | +--ro extr-bgp-ext:name? string
|   |                           | +--ro extr-bgp-ext:l3vni? uint32
|   |                           +--rw extr-bgp-ext:afi-safis
|   |                               +--rw extr-bgp-ext:afi-safi* [afi-safi-name]

```

```

| | +--rw extr-bgp-ext:afi-safi-name      -> ../config/afi-safi-name
| | +--rw extr-bgp-ext:config
| | | +--rw extr-bgp-ext:afi-safi-name?  identityref
| | | +--rw extr-bgp-ext:ignore-as?      boolean
| | +--ro extr-bgp-ext:state
| | | +--ro extr-bgp-ext:afi-safi-name?  identityref
| | | +--ro extr-bgp-ext:ignore-as?      boolean
| | +--rw extr-bgp-ext:import-export-policy
| | | +--rw extr-bgp-ext:config
| | | | +--rw extr-bgp-ext:export-route-target*  union
| | | | +--rw extr-bgp-ext:import-route-target*  union
| | | +--ro extr-bgp-ext:state
| | | | +--ro extr-bgp-ext:export-route-target*  union
| | | | +--ro extr-bgp-ext:import-route-target*  union
| +--rw neighbors
| | +--rw neighbor* [neighbor-address]
| | | +--rw neighbor-address  -> ../config/neighbor-address
| | | +--rw config
| | | | +--rw peer-group?      -> ../../../../peer-groups/peer-group/peer-group-name
| | | | +--rw neighbor-address?  oc-inet:ip-address
| | | | +--rw neighbor-port?     oc-inet:port-number
| | | | +--rw peer-as?          oc-inet:as-number
| | | | +--rw description?      string
| | | | +--rw extr-bgp-ext:admin-down?  boolean
| | | +--ro state
| | | | +--ro peer-group?      -> ../../../../peer-groups/peer-group/peer-
group-name
| | | | +--ro neighbor-address?  oc-inet:ip-address
| | | | +--ro neighbor-port?     oc-inet:port-number
| | | | +--ro peer-as?          oc-inet:as-number
| | | | +--ro local-as?         oc-inet:as-number
| | | | +--ro session-state?     enumeration
| | | | +--ro last-established?  oc-types:timeticks64
| | | | +--ro established-transitions?  oc-yang:counter64
| | | | +--ro supported-capabilities*  identityref
| | | | +--ro messages
| | | | | +--ro sent
| | | | | | +--ro UPDATE?        uint64
| | | | | | +--ro NOTIFICATION?  uint64
| | | | | | +--ro last-notification-time?  oc-types:timeticks64
| | | | | | +--ro last-notification-error-code?  identityref
| | | | | | +--ro last-notification-error-subcode?  identityref

```

```

|   |   |   | +--ro received
|   |   |   |   +--ro UPDATE?          uint64
|   |   |   |   +--ro NOTIFICATION?      uint64
|   |   |   |   +--ro last-notification-time?  oc-types:timeticks64
|   |   |   |   +--ro last-notification-error-code?  identityref
|   |   |   |   +--ro last-notification-error-subcode?  identityref
|   |   |   |   +--ro dynamically-configured?      boolean
|   |   |   |   +--ro extr-bgp-ext:router-id?      oc-yang:dotted-quad
|   |   |   |   +--ro extr-bgp-ext:admin-down?      boolean
|   |   |   |   +--ro extr-bgp-ext:advertised-capabilities*  identityref
|   |   |   |   +--ro extr-bgp-ext:received-capabilities*  identityref
|   |   |   |   +--ro extr-bgp-ext:negotiated-capabilities*  identityref
|   |   |   |   +--ro extr-bgp-ext:advertised-afi-safi-capabilities?  string
|   |   |   |   +--ro extr-bgp-ext:received-afi-safi-capabilities?  string
|   |   |   |   +--ro extr-bgp-ext:negotiated-afi-safi-capabilities?  string
|   |   |   +--rw timers
|   |   |   |   +--rw config
|   |   |   |   |   +--rw connect-retry?      uint16
|   |   |   |   |   +--rw hold-time?          uint16
|   |   |   |   |   +--rw keepalive-interval?  uint16
|   |   |   |   |   +--rw minimum-advertisement-interval?  uint16
|   |   |   |   +--ro state
|   |   |   |   |   +--ro connect-retry?      uint16
|   |   |   |   |   +--ro hold-time?          uint16
|   |   |   |   |   +--ro keepalive-interval?  uint16
|   |   |   |   |   +--ro negotiated-hold-time?  uint16
|   |   |   |   |   +--ro extr-bgp-ext:remaining-keepalive?  oc-types:timeticks64
|   |   |   |   |   +--ro extr-bgp-ext:remaining-holdtime?  oc-types:timeticks64
|   |   |   |   |   +--ro extr-bgp-ext:remaining-connect-retry?  oc-types:timeticks64
|   |   |   +--rw transport
|   |   |   |   +--rw config
|   |   |   |   |   +--rw local-address?  union
|   |   |   |   +--ro state
|   |   |   |   |   +--ro local-address?  union
|   |   |   |   |   +--ro local-port?    oc-inet:port-number
|   |   |   |   |   +--ro remote-port?   oc-inet:port-number
|   |   |   +--rw graceful-restart
|   |   |   |   +--rw config
|   |   |   |   |   +--rw enabled?        boolean
|   |   |   |   |   +--rw restart-time?    uint16
|   |   |   |   |   +--rw stale-routes-time?  uint16
|   |   |   |   +--rw helper-only?        boolean

```

```

| | | +--ro state
| | |   +--ro enabled?          boolean
| | |   +--ro restart-time?      uint16
| | |   +--ro stale-routes-time?  uint16
| | |   +--ro helper-only?       boolean
| | |   +--ro peer-restart-time?  uint16
| | |   +--ro peer-restarting?    boolean
| | |   +--ro local-restarting?   boolean
| | |   +--ro extr-bgp-ext:peer-restart-timer-start-time? oc-types:timeticks64
| | |   +--ro extr-bgp-ext:stale-routes-timer-start-time? oc-types:timeticks64
| | +--rw ebgp-multihop
| | | +--rw config
| | | | +--rw enabled?    boolean
| | | | +--rw multihop-ttl? uint8
| | | +--ro state
| | | | +--ro enabled?    boolean
| | | | +--ro multihop-ttl? uint8
| | +--rw afi-safis
| | | +--rw afi-safi* [afi-safi-name]
| | | | +--rw afi-safi-name  -> ../config/afi-safi-name
| | | | +--rw config
| | | | | +--rw afi-safi-name? identityref
| | | | +--ro state
| | | | | +--ro afi-safi-name? identityref
| | | | | +--ro enabled?    boolean
| | | | | +--ro active?     boolean
| | | | | +--ro prefixes
| | | | |   +--ro received?  uint32
| | | | |   +--ro sent?     uint32
| | | | +--rw graceful-restart
| | | | | +--rw config
| | | | | | +--rw enabled?  boolean
| | | | | +--ro state
| | | | | | +--ro enabled?    boolean
| | | | | | +--ro received?    boolean
| | | | | | +--ro advertised?  boolean
| | | | | | +--ro extr-bgp-ext:eor-sent?  boolean
| | | | | | +--ro extr-bgp-ext:eor-received? boolean
| | | +--rw add-paths
| | | | +--ro state
| | | | | +--ro receive?    boolean
| | | | | +--ro send?      boolean

```

```

| | | +--ro extr-bgp-ext:peer-receive? boolean
| | | +--ro extr-bgp-ext:peer-send?   boolean
| | +--rw enable-bfd
| |   +--rw config
| |     | +--rw enabled?           boolean
| |     | +--rw extr-bfd-ext:profile? profile-ref
| |   +--ro state
| |     +--ro enabled?             boolean
| |     +--ro extr-bfd-ext:profile? profile-ref
| |     +--ro extr-bfd-ext:session-id? uint32
| |     +--ro extr-bfd-ext:vrf-id?   uint32
| |     +--ro extr-bfd-ext:source-ip? oc-inet:ip-prefix
| |     +--ro extr-bfd-ext:destination-ip? oc-inet:ip-prefix
| |     +--ro extr-bfd-ext:registration-status? boolean
| |     +--ro extr-bfd-ext:session-status? uint8
| |     +--ro extr-bfd-ext:status-code?  uint8
| |     +--ro extr-bfd-ext:time-stamp?   oc-types:timeticks64
| +--rw peer-groups
| | +--rw peer-group* [peer-group-name]
| |   +--rw peer-group-name -> ../config/peer-group-name
| |   +--rw config
| |     | +--rw peer-group-name?      string
| |     | +--rw peer-as?              oc-inet:as-number
| |     | +--rw local-as?             oc-inet:as-number
| |     | +--rw peer-type?            oc-bgp-types:peer-type
| |     | +--rw auth-password?        oc-types:routing-password
| |     | +--rw description?          string
| |     | +--rw extr-bgp-ext:admin-down? boolean
| |     | +--rw extr-bgp-ext:peer-group-af-type? identityref
| |     | +--rw extr-bgp-ext:nvo?      string
| |     | +--rw extr-bgp-ext:local-as-forced? uint16
| |     | +--rw extr-bgp-ext:fast-external-failover? boolean
| |   +--ro state
| |     | +--ro peer-group-name?      string
| |     | +--ro peer-as?              oc-inet:as-number
| |     | +--ro auth-password?        oc-types:routing-password
| |     | +--ro description?          string
| |     | +--ro extr-bgp-ext:admin-down? boolean
| |     | +--ro extr-bgp-ext:peer-group-af-type? identityref
| |     | +--ro extr-bgp-ext:nvo?      string
| |     | +--ro extr-bgp-ext:local-as-forced? uint16
| |     | +--ro extr-bgp-ext:fast-external-failover? boolean

```

```

| | +--rw timers
| | | +--rw config
| | | | +--rw connect-retry? uint16
| | | | +--rw hold-time? uint16
| | | | +--rw keepalive-interval? uint16
| | | +--ro state
| | | | +--ro connect-retry? uint16
| | | | +--ro hold-time? uint16
| | | | +--ro keepalive-interval? uint16
| | +--rw transport
| | | +--rw config
| | | | +--rw local-address? union
| | | | +--ro state
| | | | +--ro local-address? union
| | +--rw graceful-restart
| | | +--rw config
| | | | +--rw enabled? boolean
| | | | +--rw restart-time? uint16
| | | | +--rw stale-routes-time? uint16
| | | | +--rw helper-only? boolean
| | | | +--ro state
| | | | | +--ro enabled? boolean
| | | | | +--ro restart-time? uint16
| | | | | +--ro stale-routes-time? uint16
| | | | | +--ro helper-only? boolean
| | +--rw ebgp-multihop
| | | +--rw config
| | | | +--rw enabled? boolean
| | | | +--rw multihop-ttl? uint8
| | | | +--ro state
| | | | | +--ro enabled? boolean
| | | | | +--ro multihop-ttl? uint8
| | +--rw route-reflector
| | | +--rw config
| | | | +--rw route-reflector-cluster-id? oc-bgp-types:rr-cluster-id-type
| | | | +--rw route-reflector-client? boolean
| | | | +--ro state
| | | | | +--ro route-reflector-cluster-id? oc-bgp-types:rr-cluster-id-type
| | | | | +--ro route-reflector-client? boolean
| | +--rw as-path-options
| | | +--rw config
| | | | +--rw allow-own-as? uint8

```

```

| | | +--rw disable-peer-as-filter? boolean
| | | +--ro state
| | |   +--ro allow-own-as?      uint8
| | |   +--ro disable-peer-as-filter? boolean
| | +--rw use-multiple-paths
| | | +--rw config
| | | | +--rw enabled? boolean
| | | | +--ro state
| | | | +--ro enabled? boolean
| | | +--rw ebgp
| | |   +--rw config
| | | | +--rw allow-multiple-as? boolean
| | | | +--rw maximum-paths?   uint32
| | |   +--ro state
| | |     +--ro allow-multiple-as? boolean
| | |     +--ro maximum-paths?   uint32
| | +--rw apply-policy
| | | +--rw config
| | | | +--rw import-policy* -> /oc-rpol:routing-policy/policy-definitions/policy-
definition/name
| | | | +--rw export-policy* -> /oc-rpol:routing-policy/policy-definitions/policy-
definition/name
| | | | +--ro state
| | | |   +--ro import-policy* -> /oc-rpol:routing-policy/policy-definitions/policy-
definition/name
| | | |   +--ro export-policy* -> /oc-rpol:routing-policy/policy-definitions/policy-
definition/name
| | +--rw afi-safis
| | | +--rw afi-safi* [afi-safi-name]
| | |   +--rw afi-safi-name -> ../config/afi-safi-name
| | |   +--rw config
| | | | +--rw afi-safi-name?      identityref
| | | | +--rw enabled?           boolean
| | | | +--rw extr-bgp-ext:nexthop-self? boolean
| | | | +--rw extr-bgp-ext:nexthop-unchanged? boolean
| | |   +--ro state
| | | | +--ro afi-safi-name?      identityref
| | | | +--ro enabled?           boolean
| | | | +--ro extr-bgp-ext:nexthop-self? boolean
| | | | +--ro extr-bgp-ext:nexthop-unchanged? boolean
| | |   +--rw graceful-restart
| | |   +--rw config

```



```

| | | | | +--rw enabled? boolean
| | | | | +--ro state
| | | | | +--ro enabled? boolean
| | | | +--rw add-paths
| | | | | +--rw config
| | | | | | +--rw receive? boolean
| | | | | | +--ro state
| | | | | | +--ro receive? boolean
| | | | +--rw apply-policy
| | | | | +--rw config
| | | | | | +--rw import-policy* -> /oc-rpol:routing-policy/policy-definitions/policy-
definition/name
| | | | | | +--rw export-policy* -> /oc-rpol:routing-policy/policy-definitions/policy-
definition/name
| | | | | | +--ro state
| | | | | | +--ro import-policy* -> /oc-rpol:routing-policy/policy-definitions/policy-
definition/name
| | | | | | +--ro export-policy* -> /oc-rpol:routing-policy/policy-definitions/policy-
definition/name
| | | | +--rw ipv4-unicast
| | | | | +--rw config
| | | | | | +--rw send-default-route? boolean
| | | | | | +--ro state
| | | | | | +--ro send-default-route? boolean
| | | | +--rw ipv6-unicast
| | | | | +--rw config
| | | | | | +--rw send-default-route? boolean
| | | | | | +--ro state
| | | | | | +--ro send-default-route? boolean
| | | | +--rw l2vpn-evpn
| | | | +--rw enable-bfd
| | | | | +--rw config
| | | | | | +--rw enabled? boolean
| | | | | | +--rw extr-bfd-ext:profile? profile-ref
| | | | | | +--ro state
| | | | | | +--ro enabled? boolean
| | | | | | +--ro extr-bfd-ext:profile? profile-ref
| | | | | | +--ro extr-bfd-ext:session-id? uint32
| | | | | | +--ro extr-bfd-ext:vrf-id? uint32
| | | | | | +--ro extr-bfd-ext:source-ip? oc-inet:ip-prefix
| | | | | | +--ro extr-bfd-ext:destination-ip? oc-inet:ip-prefix
| | | | | | +--ro extr-bfd-ext:registration-status? boolean

```

```

| | | +--ro extr-bfd-ext:session-status?   uint8
| | | +--ro extr-bfd-ext:status-code?     uint8
| | | +--ro extr-bfd-ext:time-stamp?      oc-types:timeticks64
| | +--rw extr-bgp-ext:neighbors
| |   +--rw extr-bgp-ext:neighbor* [neighbor-address]
| |     +--rw extr-bgp-ext:neighbor-address -> ../config/neighbor-address
| |     +--rw extr-bgp-ext:config
| |       | +--rw extr-bgp-ext:neighbor-address? oc-inet:ip-address
| |       +--rw extr-bgp-ext:state
| |         +--rw extr-bgp-ext:neighbor-address? oc-inet:ip-address
| +--ro rib
| | +--ro attr-sets
| | | +--ro attr-set* [index]
| | | | +--ro index          -> ../state/index
| | | | +--ro state
| | | | | +--ro index?      uint64
| | | | | +--ro origin?    oc-bgpt:bgp-origin-attr-type
| | | | | +--ro next-hop?  oc-inet:ip-address
| | | | | +--ro med?       uint32
| | | | | +--ro local-pref? uint32
| | | | | +--ro originator-id? oc-inet:ipv4-address
| | | | | +--ro cluster-list* oc-inet:ipv4-address
| | | | +--ro extr-rib-bgp-ext:as-path-str
| | | |   +--ro extr-rib-bgp-ext:state
| | | |     +--ro extr-rib-bgp-ext:as-path? string
| | | +--ro communities
| | | | +--ro community* [index]
| | | | | +--ro index -> ../state/index
| | | | | +--ro state
| | | | | | +--ro index?   uint64
| | | | | | +--ro community* union
| | | +--ro ext-communities
| | | | +--ro ext-community* [index]
| | | | | +--ro index -> ../state/index
| | | | | +--ro state
| | | | | | +--ro index?   uint64
| | | | | | +--ro ext-community* oc-bgpt:bgp-ext-community-recv-type
| | +--ro afi-safis
| | | +--ro afi-safi* [afi-safi-name]
| | | | +--ro afi-safi-name -> ../state/afi-safi-name
| | | | +--ro state
| | | | | +--ro afi-safi-name? identityref

```

```

| | +--ro ipv4-unicast
| | | +--ro loc-rib
| | | | +--ro state
| | | | +--ro routes
| | | | +--ro route* [prefix origin path-id]
| | | | +--ro prefix -> ../state/prefix
| | | | +--ro origin -> ../state/origin
| | | | +--ro path-id -> ../state/path-id
| | | | +--ro state
| | | | +--ro prefix? oc-inet:ipv4-prefix
| | | | +--ro origin? union
| | | | +--ro path-id? uint32
| | | | +--ro attr-index? -> ../../../../attr-sets/attr-set/state/index
| | | | +--ro community-index? ->
../../../../communities/community/state/index
| | | | +--ro ext-community-index? -> ../../../../ext-communities/ext-
community/state/index
| | | | +--ro last-modified? oc-types:timeticks64
| | | | +--ro valid-route? boolean
| | | | +--ro invalid-reason? identityref
| | | | +--ro extr-rib-bgp-ext:multi-path? boolean
| | | | +--ro extr-rib-bgp-ext:stale? boolean
| | | | +--ro extr-rib-bgp-ext:primary? boolean
| | | | +--ro extr-rib-bgp-ext:secondary? boolean
| | | | +--ro extr-rib-bgp-ext:internal? boolean
| | | | +--ro extr-rib-bgp-ext:extrenal? boolean
| | | | +--ro extr-rib-bgp-ext:local? boolean
| | | | +--ro extr-rib-bgp-ext:redist? boolean
| | | +--ro neighbors
| | | | +--ro neighbor* [neighbor-address]
| | | | +--ro neighbor-address -> ../state/neighbor-address
| | | | +--ro state
| | | | | +--ro neighbor-address? oc-inet:ip-address
| | | | +--ro adj-rib-in-post
| | | | +--ro state
| | | | +--ro routes
| | | | +--ro route* [prefix path-id]
| | | | +--ro prefix -> ../state/prefix
| | | | +--ro path-id -> ../state/path-id
| | | | +--ro state
| | | | +--ro prefix? oc-inet:ipv4-prefix
| | | | +--ro path-id? uint32

```

```

| | | | | +--ro attr-index? -> ../../../../../../../attr-sets/attr-
set/state/index
| | | | | +--ro community-index? ->
../../../../../communities/community/state/index
| | | | | +--ro ext-community-index? -> ../../../../../../../ext-communities/ext-
community/state/index
| | | | | +--ro last-modified? oc-types:timeticks64
| | | | | +--ro valid-route? boolean
| | | | | +--ro invalid-reason? identityref
| | | | | +--ro best-path? boolean
| | | | +--ro extr-rib-bgp-ext:peer-groups
| | | | +--ro extr-rib-bgp-ext:peer-group* [peer-group-name]
| | | | +--ro extr-rib-bgp-ext:peer-group-name string
| | | | +--ro extr-rib-bgp-ext:adj-rib-out-post
| | | | +--ro extr-rib-bgp-ext:state
| | | | +--ro extr-rib-bgp-ext:routes
| | | | +--ro extr-rib-bgp-ext:route* [prefix path-id]
| | | | +--ro extr-rib-bgp-ext:prefix -> ./state/prefix
| | | | +--ro extr-rib-bgp-ext:path-id -> ./state/path-id
| | | | +--ro extr-rib-bgp-ext:state
| | | | +--ro extr-rib-bgp-ext:prefix? oc-inet:ipv4-prefix
| | | | +--ro extr-rib-bgp-ext:path-id? uint32
| | | | +--ro extr-rib-bgp-ext:attr-index? -> ../../../../../../../attr-
sets/attr-set/state/index
| | | | | +--ro extr-rib-bgp-ext:community-index? ->
../../../../../communities/community/state/index
| | | | | +--ro extr-rib-bgp-ext:ext-community-index? -> ../../../../../../../ext-
communities/ext-community/state/index
| | | | | +--ro extr-rib-bgp-ext:last-modified? oc-types:timeticks64
| | | | | +--ro extr-rib-bgp-ext:valid-route? boolean
| | | | | +--ro extr-rib-bgp-ext:invalid-reason? identityref
| | | | +--ro ipv6-unicast
| | | | +--ro loc-rib
| | | | +--ro state
| | | | +--ro routes
| | | | +--ro route* [prefix origin path-id]
| | | | +--ro prefix -> ./state/prefix
| | | | +--ro origin -> ./state/origin
| | | | +--ro path-id -> ./state/path-id
| | | | +--ro state
| | | | +--ro prefix? oc-inet:ipv6-prefix
| | | | +--ro origin? union

```

```

| | | | +--ro path-id? uint32
| | | | +--ro attr-index? -> ../../../../attr-sets/attr-set/state/index
| | | | +--ro community-index? ->
../../../../communities/community/state/index
| | | | +--ro ext-community-index? -> ../../../../ext-communities/ext-
community/state/index
| | | | +--ro last-modified? oc-types:timeticks64
| | | | +--ro valid-route? boolean
| | | | +--ro invalid-reason? identityref
| | | | +--ro extr-rib-bgp-ext:multi-path? boolean
| | | | +--ro extr-rib-bgp-ext:stale? boolean
| | | | +--ro extr-rib-bgp-ext:primary? boolean
| | | | +--ro extr-rib-bgp-ext:secondary? boolean
| | | | +--ro extr-rib-bgp-ext:internal? boolean
| | | | +--ro extr-rib-bgp-ext:extrenal? boolean
| | | | +--ro extr-rib-bgp-ext:local? boolean
| | | | +--ro extr-rib-bgp-ext:redist? boolean
| | | +--ro neighbors
| | | | +--ro neighbor* [neighbor-address]
| | | | +--ro neighbor-address -> ../state/neighbor-address
| | | | +--ro state
| | | | | +--ro neighbor-address? oc-inet:ip-address
| | | | +--ro adj-rib-in-post
| | | | +--ro routes
| | | | | +--ro route* [prefix path-id]
| | | | | +--ro prefix -> ../state/prefix
| | | | | +--ro path-id -> ../state/path-id
| | | | | +--ro state
| | | | | +--ro prefix? oc-inet:ipv6-prefix
| | | | | +--ro path-id? uint32
| | | | +--ro attr-index? -> ../../../../attr-sets/attr-
set/state/index
| | | | +--ro community-index? ->
../../../../communities/community/state/index
| | | | +--ro ext-community-index? -> ../../../../ext-communities/ext-
community/state/index
| | | | +--ro last-modified? oc-types:timeticks64
| | | | +--ro valid-route? boolean
| | | | +--ro invalid-reason? identityref
| | | | +--ro best-path? boolean
| | | +--ro extr-rib-bgp-ext:peer-groups
| | | | +--ro extr-rib-bgp-ext:peer-group* [peer-group-name]

```

```

| | | +--ro extr-rib-bgp-ext:peer-group-name string
| | | +--ro extr-rib-bgp-ext:adj-rib-out-post
| | | +--ro extr-rib-bgp-ext:routes
| | | +--ro extr-rib-bgp-ext:route* [prefix path-id]
| | | +--ro extr-rib-bgp-ext:prefix -> ../state/prefix
| | | +--ro extr-rib-bgp-ext:path-id -> ../state/path-id
| | | +--ro extr-rib-bgp-ext:state
| | | +--ro extr-rib-bgp-ext:prefix? oc-inet:ipv6-prefix
| | | +--ro extr-rib-bgp-ext:path-id? uint32
| | | +--ro extr-rib-bgp-ext:attr-index? -> ../..../attr-
sets/attr-set/state/index
| | | +--ro extr-rib-bgp-ext:community-index? ->
../..../communities/community/state/index
| | | +--ro extr-rib-bgp-ext:ext-community-index? -> ../..../ext-
communities/ext-community/state/index
| | | +--ro extr-rib-bgp-ext:last-modified? oc-types:timeticks64
| | | +--ro extr-rib-bgp-ext:valid-route? boolean
| | | +--ro extr-rib-bgp-ext:invalid-reason? identityref
| | +--ro l2vpn-evpn
| | +--ro neighbors
| | | +--ro neighbor* [neighbor-address]
| | | +--ro neighbor-address -> ../state/neighbor-address
| | | +--ro state
| | | | +--ro neighbor-address? oc-inet:ip-address
| | | +--ro adj-rib-in-post
| | | | +--ro extr-rib-bgp-ext:type-two-mac-ip-advertisement
| | | | +--ro extr-rib-bgp-ext:type-two-route* [ethernet-tag mac-address mac-
length ip-prefix ip-length]
| | | | +--ro extr-rib-bgp-ext:ethernet-tag -> ../state/ethernet-tag
| | | | +--ro extr-rib-bgp-ext:mac-address -> ../state/mac-address
| | | | +--ro extr-rib-bgp-ext:mac-length -> ../state/mac-length
| | | | +--ro extr-rib-bgp-ext:ip-prefix -> ../state/ip-prefix
| | | | +--ro extr-rib-bgp-ext:ip-length -> ../state/ip-length
| | | | +--ro extr-rib-bgp-ext:state
| | | | | +--ro extr-rib-bgp-ext:ethernet-tag? oc-evpn-types:ethernet-tag
| | | | | +--ro extr-rib-bgp-ext:mac-address? oc-yang:mac-address
| | | | | +--ro extr-rib-bgp-ext:mac-length? uint32
| | | | | +--ro extr-rib-bgp-ext:ip-prefix? oc-inet:ip-prefix
| | | | | +--ro extr-rib-bgp-ext:ip-length? uint32
| | | | +--ro extr-rib-bgp-ext:paths
| | | | +--ro extr-rib-bgp-ext:path* [peer-ip peer-path-id source-route-
distinguisher source-address-family]

```

```

| | | | | +--ro extr-rib-bgp-ext:peer-ip -> ../state/peer-ip
| | | | | +--ro extr-rib-bgp-ext:peer-path-id -> ../state/peer-path-id
| | | | | +--ro extr-rib-bgp-ext:source-route-distinguisher -> ../state/source-
route-distinguisher
| | | | | +--ro extr-rib-bgp-ext:source-address-family -> ../state/source-
address-family
| | | | | +--ro extr-rib-bgp-ext:state
| | | | | +--ro extr-rib-bgp-ext:peer-ip? oc-inet:ip-address
| | | | | +--ro extr-rib-bgp-ext:peer-path-id? uint32
| | | | | +--ro extr-rib-bgp-ext:source-route-distinguisher? oc-ni-types:route-
distinguisher
| | | | | +--ro extr-rib-bgp-ext:source-address-family? identityref
| | | | | +--ro extr-rib-bgp-ext:label? string
| | | | | +--ro extr-rib-bgp-ext:label2? string
| | | | | +--ro extr-rib-bgp-ext:bestpath? boolean
| | | | | +--ro extr-rib-bgp-ext:last-modified? oc-types:timeticks64
| | | | | +--ro extr-rib-bgp-ext:valid-route? boolean
| | | | | +--ro extr-rib-bgp-ext:attr-index? ->
../state/attr-sets/attr-set/state/index
| | | | | +--ro extr-rib-bgp-ext:community-index? ->
../state/communities/community/state/index
| | | | | +--ro extr-rib-bgp-ext:ext-community-index? ->
../state/ext-communities/ext-community/state/index
| | | | | +--ro extr-rib-bgp-ext:type-three-inclusive-multicast-ethernet-tag
| | | | | +--ro extr-rib-bgp-ext:type-three-route* [ethernet-tag originating-router-
ip originator-ip-length]
| | | | | +--ro extr-rib-bgp-ext:ethernet-tag -> ../state/ethernet-tag
| | | | | +--ro extr-rib-bgp-ext:originating-router-ip -> ../state/originating-
router-ip
| | | | | +--ro extr-rib-bgp-ext:originator-ip-length -> ../state/originator-ip-
length
| | | | | +--ro extr-rib-bgp-ext:state
| | | | | +--ro extr-rib-bgp-ext:ethernet-tag? oc-evpn-types:ethernet-tag
| | | | | +--ro extr-rib-bgp-ext:originating-router-ip? oc-inet:ip-prefix
| | | | | +--ro extr-rib-bgp-ext:originator-ip-length? uint32
| | | | | +--ro extr-rib-bgp-ext:paths
| | | | | +--ro extr-rib-bgp-ext:path* [peer-ip peer-path-id source-route-
distinguisher source-address-family]
| | | | | +--ro extr-rib-bgp-ext:peer-ip -> ../state/peer-ip
| | | | | +--ro extr-rib-bgp-ext:peer-path-id -> ../state/peer-path-id
| | | | | +--ro extr-rib-bgp-ext:source-route-distinguisher -> ../state/source-
route-distinguisher

```

					+++ro extr-rib-bgp-ext:source-address-family	-> ../state/source-
address-family						
					+++ro extr-rib-bgp-ext:state	
					+++ro extr-rib-bgp-ext:peer-ip?	oc-inet:ip-address
					+++ro extr-rib-bgp-ext:peer-path-id?	uint32
					+++ro extr-rib-bgp-ext:source-route-distinguisher?	oc-ni-types:route-
distinguisher						
					+++ro extr-rib-bgp-ext:source-address-family?	identityref
					+++ro extr-rib-bgp-ext:label?	string
					+++ro extr-rib-bgp-ext:label2?	string
					+++ro extr-rib-bgp-ext:bestpath?	boolean
					+++ro extr-rib-bgp-ext:last-modified?	oc-types:timeticks64
					+++ro extr-rib-bgp-ext:valid-route?	boolean
					+++ro extr-rib-bgp-ext:attr-index?	->
../state/attr-sets/attr-set/state/index						
					+++ro extr-rib-bgp-ext:community-index?	->
../state/communities/community/state/index						
					+++ro extr-rib-bgp-ext:ext-community-index?	->
../state/ext-communities/ext-community/state/index						
					+++ro extr-rib-bgp-ext:type-five-ip-prefix	
					+++ro extr-rib-bgp-ext:type-five-route* [ethernet-tag ip-prefix-length ip-	
prefix]						
					+++ro extr-rib-bgp-ext:ethernet-tag	-> ../state/ethernet-tag
					+++ro extr-rib-bgp-ext:ip-prefix-length	-> ../state/ip-prefix-length
					+++ro extr-rib-bgp-ext:ip-prefix	-> ../state/ip-prefix
					+++ro extr-rib-bgp-ext:state	
					+++ro extr-rib-bgp-ext:ethernet-tag?	oc-evpn-types:ethernet-tag
					+++ro extr-rib-bgp-ext:ip-prefix-length?	string
					+++ro extr-rib-bgp-ext:ip-prefix?	oc-inet:ip-prefix
					+++ro extr-rib-bgp-ext:paths	
					+++ro extr-rib-bgp-ext:path* [peer-ip peer-path-id source-route-	
distinguisher source-address-family]						
					+++ro extr-rib-bgp-ext:peer-ip	-> ../state/peer-ip
					+++ro extr-rib-bgp-ext:peer-path-id	-> ../state/peer-path-id
					+++ro extr-rib-bgp-ext:source-route-distinguisher	-> ../state/source-
route-distinguisher						
					+++ro extr-rib-bgp-ext:source-address-family	-> ../state/source-
address-family						
					+++ro extr-rib-bgp-ext:state	
					+++ro extr-rib-bgp-ext:gateway-ip-address?	oc-inet:ip-prefix
					+++ro extr-rib-bgp-ext:peer-ip?	oc-inet:ip-address
					+++ro extr-rib-bgp-ext:peer-path-id?	uint32


```

| | | | +--ro extr-rib-bgp-ext:source-route-distinguisher? oc-ni-types:route-
distinguisher
| | | | +--ro extr-rib-bgp-ext:source-address-family? identityref
| | | | +--ro extr-rib-bgp-ext:label? string
| | | | +--ro extr-rib-bgp-ext:label2? string
| | | | +--ro extr-rib-bgp-ext:bestpath? boolean
| | | | +--ro extr-rib-bgp-ext:last-modified? oc-types:timeticks64
| | | | +--ro extr-rib-bgp-ext:valid-route? boolean
| | | | +--ro extr-rib-bgp-ext:attr-index? ->
../../../../../../../../../../../../../attr-sets/attr-set/state/index
| | | | +--ro extr-rib-bgp-ext:community-index? ->
../../../../../../../../../../../../communities/community/state/index
| | | | +--ro extr-rib-bgp-ext:ext-community-index? ->
../../../../../../../../../../../../ext-communities/ext-community/state/index
| | | +--ro adj-rib-out-pre
| | | +--ro adj-rib-out-post
| | +--ro extr-rib-bgp-ext:local-rib-nvo
| | +--ro extr-rib-bgp-ext:state
| | +--ro extr-rib-bgp-ext:routes
| | +--ro extr-rib-bgp-ext:table* [nvo-name route-distinguisher]
| | +--ro extr-rib-bgp-ext:nvo-name -> ../state/nvo-name
| | +--ro extr-rib-bgp-ext:route-distinguisher -> ../state/route-
distinguisher
| | +--ro extr-rib-bgp-ext:state
| | | +--ro extr-rib-bgp-ext:nvo-name? string
| | | +--ro extr-rib-bgp-ext:route-distinguisher? oc-ni-types:route-distinguisher
| | | +--ro extr-rib-bgp-ext:type-two-mac-ip-advertisement
| | | +--ro extr-rib-bgp-ext:type-two-route* [ethernet-tag mac-address mac-
length ip-prefix ip-length]
| | | +--ro extr-rib-bgp-ext:ethernet-tag -> ../state/ethernet-tag
| | | +--ro extr-rib-bgp-ext:mac-address -> ../state/mac-address
| | | +--ro extr-rib-bgp-ext:mac-length -> ../state/mac-length
| | | +--ro extr-rib-bgp-ext:ip-prefix -> ../state/ip-prefix
| | | +--ro extr-rib-bgp-ext:ip-length -> ../state/ip-length
| | | +--ro extr-rib-bgp-ext:state
| | | | +--ro extr-rib-bgp-ext:ethernet-tag? oc-evpn-types:ethernet-tag
| | | | +--ro extr-rib-bgp-ext:mac-address? oc-yang:mac-address
| | | | +--ro extr-rib-bgp-ext:mac-length? uint32
| | | | +--ro extr-rib-bgp-ext:ip-prefix? oc-inet:ip-prefix
| | | | +--ro extr-rib-bgp-ext:ip-length? uint32
| | | +--ro extr-rib-bgp-ext:paths

```

```

| | | | | +--ro extr-rib-bgp-ext:path* [peer-ip peer-path-id source-route-
distinguisher source-address-family]
| | | | | +--ro extr-rib-bgp-ext:peer-ip -> ../state/peer-ip
| | | | | +--ro extr-rib-bgp-ext:peer-path-id -> ../state/peer-path-id
| | | | | +--ro extr-rib-bgp-ext:source-route-distinguisher -> ../state/source-
route-distinguisher
| | | | | +--ro extr-rib-bgp-ext:source-address-family -> ../state/source-
address-family
| | | | | +--ro extr-rib-bgp-ext:state
| | | | | +--ro extr-rib-bgp-ext:peer-ip? oc-inet:ip-address
| | | | | +--ro extr-rib-bgp-ext:peer-path-id? uint32
| | | | | +--ro extr-rib-bgp-ext:source-route-distinguisher? oc-ni-types:route-
distinguisher
| | | | | +--ro extr-rib-bgp-ext:source-address-family? identityref
| | | | | +--ro extr-rib-bgp-ext:label? string
| | | | | +--ro extr-rib-bgp-ext:label2? string
| | | | | +--ro extr-rib-bgp-ext:bestpath? boolean
| | | | | +--ro extr-rib-bgp-ext:last-modified? oc-types:timeticks64
| | | | | +--ro extr-rib-bgp-ext:valid-route? boolean
| | | | | +--ro extr-rib-bgp-ext:attr-index? ->
../state/attr-sets/attr-set/state/index
| | | | | +--ro extr-rib-bgp-ext:community-index? ->
../state/communities/community/state/index
| | | | | +--ro extr-rib-bgp-ext:ext-community-index? ->
../state/ext-communities/ext-community/state/index
| | | | | +--ro extr-rib-bgp-ext:multi-path? boolean
| | | | | +--ro extr-rib-bgp-ext:stale? boolean
| | | | | +--ro extr-rib-bgp-ext:primary? boolean
| | | | | +--ro extr-rib-bgp-ext:secondary? boolean
| | | | | +--ro extr-rib-bgp-ext:internal? boolean
| | | | | +--ro extr-rib-bgp-ext:extrenal? boolean
| | | | | +--ro extr-rib-bgp-ext:local? boolean
| | | | | +--ro extr-rib-bgp-ext:redist? boolean
| | | | | +--ro extr-rib-bgp-ext:type-three-inclusive-multicast-ethernet-tag
| | | | | +--ro extr-rib-bgp-ext:type-three-route* [ethernet-tag originating-router-
ip originator-ip-length]
| | | | | +--ro extr-rib-bgp-ext:ethernet-tag -> ../state/ethernet-tag
| | | | | +--ro extr-rib-bgp-ext:originating-router-ip -> ../state/originating-router-
ip
| | | | | +--ro extr-rib-bgp-ext:originator-ip-length -> ../state/originator-ip-
length
| | | | | +--ro extr-rib-bgp-ext:state

```

```

| | | | | +--ro extr-rib-bgp-ext:ethernet-tag?      oc-evpn-types:ethernet-tag
| | | | | +--ro extr-rib-bgp-ext:originating-router-ip?  oc-inet:ip-prefix
| | | | | +--ro extr-rib-bgp-ext:originator-ip-length?  uint32
| | | | | +--ro extr-rib-bgp-ext:paths
| | | | | +--ro extr-rib-bgp-ext:path* [peer-ip peer-path-id source-route-
distinguisher source-address-family]
| | | | | +--ro extr-rib-bgp-ext:peer-ip              -> ../state/peer-ip
| | | | | +--ro extr-rib-bgp-ext:peer-path-id          -> ../state/peer-path-id
| | | | | +--ro extr-rib-bgp-ext:source-route-distinguisher -> ../state/source-
route-distinguisher
| | | | | +--ro extr-rib-bgp-ext:source-address-family -> ../state/source-
address-family
| | | | | +--ro extr-rib-bgp-ext:state
| | | | | +--ro extr-rib-bgp-ext:peer-ip?              oc-inet:ip-address
| | | | | +--ro extr-rib-bgp-ext:peer-path-id?         uint32
| | | | | +--ro extr-rib-bgp-ext:source-route-distinguisher? oc-ni-types:route-
distinguisher
| | | | | +--ro extr-rib-bgp-ext:source-address-family?  identityref
| | | | | +--ro extr-rib-bgp-ext:label?                string
| | | | | +--ro extr-rib-bgp-ext:label2?               string
| | | | | +--ro extr-rib-bgp-ext:bestpath?             boolean
| | | | | +--ro extr-rib-bgp-ext:last-modified?        oc-types:timeticks64
| | | | | +--ro extr-rib-bgp-ext:valid-route?          boolean
| | | | | +--ro extr-rib-bgp-ext:attr-index?           ->
../state/attr-sets/attr-set/state/index
| | | | | +--ro extr-rib-bgp-ext:community-index?      ->
../state/communities/community/state/index
| | | | | +--ro extr-rib-bgp-ext:ext-community-index?  ->
../state/ext-communities/ext-community/state/index
| | | | | +--ro extr-rib-bgp-ext:multi-path?           boolean
| | | | | +--ro extr-rib-bgp-ext:stale?                boolean
| | | | | +--ro extr-rib-bgp-ext:primary?              boolean
| | | | | +--ro extr-rib-bgp-ext:secondary?            boolean
| | | | | +--ro extr-rib-bgp-ext:internal?             boolean
| | | | | +--ro extr-rib-bgp-ext:extrenal?             boolean
| | | | | +--ro extr-rib-bgp-ext:local?               boolean
| | | | | +--ro extr-rib-bgp-ext:redist?               boolean
| | | | | +--ro extr-rib-bgp-ext:type-five-ip-prefix
| | | | | +--ro extr-rib-bgp-ext:type-five-route* [ethernet-tag ip-prefix-length ip-
prefix]
| | | | | +--ro extr-rib-bgp-ext:ethernet-tag          -> ../state/ethernet-tag
| | | | | +--ro extr-rib-bgp-ext:ip-prefix-length      -> ../state/ip-prefix-length

```

```

| | | +--ro extr-rib-bgp-ext:ip-prefix -> ../state/ip-prefix
| | | +--ro extr-rib-bgp-ext:state
| | | | +--ro extr-rib-bgp-ext:ethernet-tag? oc-evpn-types:ethernet-tag
| | | | +--ro extr-rib-bgp-ext:ip-prefix-length? string
| | | | +--ro extr-rib-bgp-ext:ip-prefix? oc-inet:ip-prefix
| | | +--ro extr-rib-bgp-ext:paths
| | | | +--ro extr-rib-bgp-ext:path* [peer-ip peer-path-id source-route-
distinguisher source-address-family]
| | | +--ro extr-rib-bgp-ext:peer-ip -> ../state/peer-ip
| | | +--ro extr-rib-bgp-ext:peer-path-id -> ../state/peer-path-id
| | | +--ro extr-rib-bgp-ext:source-route-distinguisher -> ../state/source-
route-distinguisher
| | | +--ro extr-rib-bgp-ext:source-address-family -> ../state/source-
address-family
| | | +--ro extr-rib-bgp-ext:state
| | | | +--ro extr-rib-bgp-ext:gateway-ip-address? oc-inet:ip-prefix
| | | | +--ro extr-rib-bgp-ext:peer-ip? oc-inet:ip-address
| | | | +--ro extr-rib-bgp-ext:peer-path-id? uint32
| | | | +--ro extr-rib-bgp-ext:source-route-distinguisher? oc-ni-types:route-
distinguisher
| | | | +--ro extr-rib-bgp-ext:source-address-family? identityref
| | | | +--ro extr-rib-bgp-ext:label? string
| | | | +--ro extr-rib-bgp-ext:label2? string
| | | | +--ro extr-rib-bgp-ext:bestpath? boolean
| | | | +--ro extr-rib-bgp-ext:last-modified? oc-types:timeticks64
| | | | +--ro extr-rib-bgp-ext:valid-route? boolean
| | | | +--ro extr-rib-bgp-ext:attr-index? ->
../state/attr-sets/attr-set/state/index
| | | | +--ro extr-rib-bgp-ext:community-index? ->
../state/communities/community/state/index
| | | | +--ro extr-rib-bgp-ext:ext-community-index? ->
../state/ext-communities/ext-community/state/index
| | | +--ro extr-rib-bgp-ext:multi-path? boolean
| | | +--ro extr-rib-bgp-ext:stale? boolean
| | | +--ro extr-rib-bgp-ext:primary? boolean
| | | +--ro extr-rib-bgp-ext:secondary? boolean
| | | +--ro extr-rib-bgp-ext:internal? boolean
| | | +--ro extr-rib-bgp-ext:extrenal? boolean
| | | +--ro extr-rib-bgp-ext:local? boolean
| | | +--ro extr-rib-bgp-ext:redist? boolean
| | | +--ro extr-rib-bgp-ext:mac-vrf
| | | +--ro extr-rib-bgp-ext:state

```

```

| | | +--ro extr-rib-bgp-ext:routes
| | |   +--ro extr-rib-bgp-ext:table* [evi-name bd-id]
| | |     +--ro extr-rib-bgp-ext:evi-name -> ../state/evi-name
| | |     +--ro extr-rib-bgp-ext:bd-id -> ../state/bd-id
| | |     +--ro extr-rib-bgp-ext:state
| | |       | +--ro extr-rib-bgp-ext:evi-name? string
| | |       | +--ro extr-rib-bgp-ext:bd-id? uint32
| | |       +--ro extr-rib-bgp-ext:type-two-mac-ip-advertisement
| | |         | +--ro extr-rib-bgp-ext:type-two-route* [ethernet-tag mac-address mac-
length ip-prefix ip-length]
| | |           | +--ro extr-rib-bgp-ext:ethernet-tag -> ../state/ethernet-tag
| | |           | +--ro extr-rib-bgp-ext:mac-address -> ../state/mac-address
| | |           | +--ro extr-rib-bgp-ext:mac-length -> ../state/mac-length
| | |           | +--ro extr-rib-bgp-ext:ip-prefix -> ../state/ip-prefix
| | |           | +--ro extr-rib-bgp-ext:ip-length -> ../state/ip-length
| | |           +--ro extr-rib-bgp-ext:state
| | |             | +--ro extr-rib-bgp-ext:ethernet-tag? oc-evpn-types:ethernet-tag
| | |             | +--ro extr-rib-bgp-ext:mac-address? oc-yang:mac-address
| | |             | +--ro extr-rib-bgp-ext:mac-length? uint32
| | |             | +--ro extr-rib-bgp-ext:ip-prefix? oc-inet:ip-prefix
| | |             | +--ro extr-rib-bgp-ext:ip-length? uint32
| | |             | +--ro extr-rib-bgp-ext:multi-path? boolean
| | |             | +--ro extr-rib-bgp-ext:stale? boolean
| | |             | +--ro extr-rib-bgp-ext:primary? boolean
| | |             | +--ro extr-rib-bgp-ext:secondary? boolean
| | |             | +--ro extr-rib-bgp-ext:internal? boolean
| | |             | +--ro extr-rib-bgp-ext:extrenal? boolean
| | |             | +--ro extr-rib-bgp-ext:local? boolean
| | |             | +--ro extr-rib-bgp-ext:redist? boolean
| | |             +--ro extr-rib-bgp-ext:paths
| | |               | +--ro extr-rib-bgp-ext:path* [peer-ip peer-path-id source-route-
distinguisher source-address-family]
| | |                 | +--ro extr-rib-bgp-ext:peer-ip -> ../state/peer-ip
| | |                 | +--ro extr-rib-bgp-ext:peer-path-id -> ../state/peer-path-id
| | |                 | +--ro extr-rib-bgp-ext:source-route-distinguisher -> ../state/source-
route-distinguisher
| | |                 +--ro extr-rib-bgp-ext:source-address-family -> ../state/source-
address-family
| | |                   | +--ro extr-rib-bgp-ext:state
| | |                   | +--ro extr-rib-bgp-ext:peer-ip? oc-inet:ip-address
| | |                   | +--ro extr-rib-bgp-ext:peer-path-id? uint32

```

```

| | | | +--ro extr-rib-bgp-ext:source-route-distinguisher? oc-ni-types:route-
distinguisher
| | | | +--ro extr-rib-bgp-ext:source-address-family? identityref
| | | | +--ro extr-rib-bgp-ext:label? string
| | | | +--ro extr-rib-bgp-ext:label2? string
| | | | +--ro extr-rib-bgp-ext:bestpath? boolean
| | | | +--ro extr-rib-bgp-ext:last-modified? oc-types:timeticks64
| | | | +--ro extr-rib-bgp-ext:valid-route? boolean
| | | | | +--ro extr-rib-bgp-ext:attr-index? ->
../../../../../../../../../../../../../attr-sets/attr-set/state/index
| | | | | +--ro extr-rib-bgp-ext:community-index? ->
../../../../../../../../../../../../communities/community/state/index
| | | | | +--ro extr-rib-bgp-ext:ext-community-index? ->
../../../../../../../../../../../../ext-communities/ext-community/state/index
| | | | +--ro extr-rib-bgp-ext:ifname? string
| | | | +--ro extr-rib-bgp-ext:type-three-inclusive-multicast-ethernet-tag
| | | | +--ro extr-rib-bgp-ext:type-three-route* [ethernet-tag originating-router-
ip originator-ip-length]
| | | | +--ro extr-rib-bgp-ext:ethernet-tag -> ../state/ethernet-tag
| | | | +--ro extr-rib-bgp-ext:originating-router-ip -> ../state/originating-router-
ip
| | | | +--ro extr-rib-bgp-ext:originator-ip-length -> ../state/originator-ip-
length
| | | | +--ro extr-rib-bgp-ext:state
| | | | | +--ro extr-rib-bgp-ext:ethernet-tag? oc-evpn-types:ethernet-tag
| | | | | +--ro extr-rib-bgp-ext:originating-router-ip? oc-inet:ip-prefix
| | | | | +--ro extr-rib-bgp-ext:originator-ip-length? uint32
| | | | +--ro extr-rib-bgp-ext:paths
| | | | | +--ro extr-rib-bgp-ext:path* [peer-ip peer-path-id source-route-
distinguisher source-address-family]
| | | | +--ro extr-rib-bgp-ext:peer-ip -> ../state/peer-ip
| | | | +--ro extr-rib-bgp-ext:peer-path-id -> ../state/peer-path-id
| | | | +--ro extr-rib-bgp-ext:source-route-distinguisher -> ../state/source-
route-distinguisher
| | | | +--ro extr-rib-bgp-ext:source-address-family -> ../state/source-
address-family
| | | | +--ro extr-rib-bgp-ext:state
| | | | | +--ro extr-rib-bgp-ext:peer-ip? oc-inet:ip-address
| | | | | +--ro extr-rib-bgp-ext:peer-path-id? uint32
| | | | +--ro extr-rib-bgp-ext:source-route-distinguisher? oc-ni-types:route-
distinguisher
| | | | +--ro extr-rib-bgp-ext:source-address-family? identityref

```

```

| | | | +--ro extr-rib-bgp-ext:label? string
| | | | +--ro extr-rib-bgp-ext:label2? string
| | | | +--ro extr-rib-bgp-ext:bestpath? boolean
| | | | +--ro extr-rib-bgp-ext:last-modified? oc-types:timeticks64
| | | | +--ro extr-rib-bgp-ext:valid-route? boolean
| | | | | +--ro extr-rib-bgp-ext:attr-index? ->
../../../../../../../../attr-sets/attr-set/state/index
| | | | | +--ro extr-rib-bgp-ext:community-index? ->
../../../../../../../../communities/community/state/index
| | | | | +--ro extr-rib-bgp-ext:ext-community-index? ->
../../../../../../../../ext-communities/ext-community/state/index
| | | | +--ro extr-rib-bgp-ext:ifname? string
| | | | +--ro extr-rib-bgp-ext:type-five-ip-prefix
| | | | +--ro extr-rib-bgp-ext:type-five-route* [ethernet-tag ip-prefix-length ip-
prefix]
| | | | +--ro extr-rib-bgp-ext:ethernet-tag -> ../state/ethernet-tag
| | | | +--ro extr-rib-bgp-ext:ip-prefix-length -> ../state/ip-prefix-length
| | | | +--ro extr-rib-bgp-ext:ip-prefix -> ../state/ip-prefix
| | | | +--ro extr-rib-bgp-ext:state
| | | | | +--ro extr-rib-bgp-ext:ethernet-tag? oc-evpn-types:ethernet-tag
| | | | | +--ro extr-rib-bgp-ext:ip-prefix-length? string
| | | | | +--ro extr-rib-bgp-ext:ip-prefix? oc-inet:ip-prefix
| | | | +--ro extr-rib-bgp-ext:paths
| | | | | +--ro extr-rib-bgp-ext:path* [peer-ip peer-path-id source-route-
distinguisher source-address-family]
| | | | +--ro extr-rib-bgp-ext:peer-ip -> ../state/peer-ip
| | | | +--ro extr-rib-bgp-ext:peer-path-id -> ../state/peer-path-id
| | | | +--ro extr-rib-bgp-ext:source-route-distinguisher -> ../state/source-
route-distinguisher
| | | | +--ro extr-rib-bgp-ext:source-address-family -> ../state/source-
address-family
| | | | +--ro extr-rib-bgp-ext:state
| | | | +--ro extr-rib-bgp-ext:gateway-ip-address? oc-inet:ip-prefix
| | | | +--ro extr-rib-bgp-ext:peer-ip? oc-inet:ip-address
| | | | +--ro extr-rib-bgp-ext:peer-path-id? uint32
| | | | +--ro extr-rib-bgp-ext:source-route-distinguisher? oc-ni-types:route-
distinguisher
| | | | +--ro extr-rib-bgp-ext:source-address-family? identityref
| | | | +--ro extr-rib-bgp-ext:label? string
| | | | +--ro extr-rib-bgp-ext:label2? string
| | | | +--ro extr-rib-bgp-ext:bestpath? boolean
| | | | +--ro extr-rib-bgp-ext:last-modified? oc-types:timeticks64

```

```

| | | +--ro extr-rib-bgp-ext:valid-route? boolean
| | | +--ro extr-rib-bgp-ext:attr-index? ->
../../../../../../../../attr-sets/attr-set/state/index
| | | +--ro extr-rib-bgp-ext:community-index? ->
../../../../../../../../communities/community/state/index
| | | +--ro extr-rib-bgp-ext:ext-community-index? ->
../../../../../../../../ext-communities/ext-community/state/index
| | +--ro extr-rib-bgp-ext:peer-groups
| | +--ro extr-rib-bgp-ext:peer-group* [peer-group-name]
| | +--ro extr-rib-bgp-ext:peer-group-name string
| | +--ro extr-rib-bgp-ext:adj-rib-out-post
| | +--ro extr-rib-bgp-ext:type-two-mac-ip-advertisement
| | | +--ro extr-rib-bgp-ext:type-two-route* [ethernet-tag mac-address mac-
length ip-prefix ip-length]
| | | +--ro extr-rib-bgp-ext:ethernet-tag -> ../state/ethernet-tag
| | | +--ro extr-rib-bgp-ext:mac-address -> ../state/mac-address
| | | +--ro extr-rib-bgp-ext:mac-length -> ../state/mac-length
| | | +--ro extr-rib-bgp-ext:ip-prefix -> ../state/ip-prefix
| | | +--ro extr-rib-bgp-ext:ip-length -> ../state/ip-length
| | | +--ro extr-rib-bgp-ext:state
| | | | +--ro extr-rib-bgp-ext:ethernet-tag? oc-evpn-types:ethernet-tag
| | | | +--ro extr-rib-bgp-ext:mac-address? oc-yang:mac-address
| | | | +--ro extr-rib-bgp-ext:mac-length? uint32
| | | | +--ro extr-rib-bgp-ext:ip-prefix? oc-inet:ip-prefix
| | | | +--ro extr-rib-bgp-ext:ip-length? uint32
| | | +--ro extr-rib-bgp-ext:paths
| | | | +--ro extr-rib-bgp-ext:path* [peer-ip peer-path-id source-route-
distinguisher source-address-family]
| | | | +--ro extr-rib-bgp-ext:peer-ip -> ../state/peer-ip
| | | | +--ro extr-rib-bgp-ext:peer-path-id -> ../state/peer-path-id
| | | | +--ro extr-rib-bgp-ext:source-route-distinguisher -> ../state/source-
route-distinguisher
| | | | +--ro extr-rib-bgp-ext:source-address-family -> ../state/source-
address-family
| | | | +--ro extr-rib-bgp-ext:state
| | | | | +--ro extr-rib-bgp-ext:peer-ip? oc-inet:ip-address
| | | | | +--ro extr-rib-bgp-ext:peer-path-id? uint32
| | | | | +--ro extr-rib-bgp-ext:source-route-distinguisher? oc-ni-types:route-
distinguisher
| | | | | +--ro extr-rib-bgp-ext:source-address-family? identityref
| | | | | +--ro extr-rib-bgp-ext:label? string
| | | | | +--ro extr-rib-bgp-ext:label2? string

```



```

| | | +--ro extr-rib-bgp-ext:bestpath? boolean
| | | +--ro extr-rib-bgp-ext:last-modified? oc-types:timeticks64
| | | +--ro extr-rib-bgp-ext:valid-route? boolean
| | | +--ro extr-rib-bgp-ext:attr-index? ->
../../../../../../../../attr-sets/attr-set/state/index
| | | +--ro extr-rib-bgp-ext:community-index? ->
../../../../../../../../communities/community/state/index
| | | +--ro extr-rib-bgp-ext:ext-community-index? ->
../../../../../../../../ext-communities/ext-community/state/index
| | | +--ro extr-rib-bgp-ext:type-three-inclusive-multicast-ethernet-tag
| | | +--ro extr-rib-bgp-ext:type-three-route* [ethernet-tag originating-router-
ip originator-ip-length]
| | | +--ro extr-rib-bgp-ext:ethernet-tag -> ../state/ethernet-tag
| | | +--ro extr-rib-bgp-ext:originating-router-ip -> ../state/originating-router-
ip
| | | +--ro extr-rib-bgp-ext:originator-ip-length -> ../state/originator-ip-length
| | | +--ro extr-rib-bgp-ext:state
| | | | +--ro extr-rib-bgp-ext:ethernet-tag? oc-evpn-types:ethernet-tag
| | | | +--ro extr-rib-bgp-ext:originating-router-ip? oc-inet:ip-prefix
| | | | +--ro extr-rib-bgp-ext:originator-ip-length? uint32
| | | | +--ro extr-rib-bgp-ext:paths
| | | | +--ro extr-rib-bgp-ext:path* [peer-ip peer-path-id source-route-
distinguisher source-address-family]
| | | | +--ro extr-rib-bgp-ext:peer-ip -> ../state/peer-ip
| | | | +--ro extr-rib-bgp-ext:peer-path-id -> ../state/peer-path-id
| | | | +--ro extr-rib-bgp-ext:source-route-distinguisher -> ../state/source-
route-distinguisher
| | | | +--ro extr-rib-bgp-ext:source-address-family -> ../state/source-
address-family
| | | | +--ro extr-rib-bgp-ext:state
| | | | | +--ro extr-rib-bgp-ext:peer-ip? oc-inet:ip-address
| | | | | +--ro extr-rib-bgp-ext:peer-path-id? uint32
| | | | | +--ro extr-rib-bgp-ext:source-route-distinguisher? oc-ni-types:route-
distinguisher
| | | | | +--ro extr-rib-bgp-ext:source-address-family? identityref
| | | | | +--ro extr-rib-bgp-ext:label? string
| | | | | +--ro extr-rib-bgp-ext:label2? string
| | | | | +--ro extr-rib-bgp-ext:bestpath? boolean
| | | | | +--ro extr-rib-bgp-ext:last-modified? oc-types:timeticks64
| | | | | +--ro extr-rib-bgp-ext:valid-route? boolean
| | | | | +--ro extr-rib-bgp-ext:attr-index? ->
../../../../../../../../attr-sets/attr-set/state/index

```

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```

|     +--rw extr-bgp-ext:tunnel* [nve dst-ip]
|     +--rw extr-bgp-ext:nve      -> ../state/nve
|     +--rw extr-bgp-ext:dst-ip   -> ../state/dst-ip
|     +--rw extr-bgp-ext:state
|         +--rw extr-bgp-ext:tunnel-type?   extr-bgp-types:tunnel-types
|         +--rw extr-bgp-ext:nve?           string
|         +--rw extr-bgp-ext:dst-ip?        string
|         +--rw extr-bgp-ext:ifname?        string
|         +--rw extr-bgp-ext:src-ip?        string
|         +--rw extr-bgp-ext:ifindex?       uint32
|         +--rw extr-bgp-ext:oper-state?    boolean
|         +--rw extr-bgp-ext:bridge-domains* oc-ni:network-instance-ref
+--rw oc-pgrmerrs:programming-errors
| +--rw oc-pgrmerrs:ip-routes
|   +--rw oc-pgrmerrs:config
|   | +--rw oc-pgrmerrs:enabled? boolean
|   +--ro oc-pgrmerrs:state
|   | +--ro oc-pgrmerrs:total-errors? oc-yang:counter64
|   | +--ro oc-pgrmerrs:enabled?    boolean
|   +--ro oc-pgrmerrs:failed-routes
|   | +--ro oc-pgrmerrs:failed* [prefix]
|   |   +--ro oc-pgrmerrs:prefix -> ../state/prefix
|   |   +--ro oc-pgrmerrs:state
|   |     +--ro oc-pgrmerrs:prefix? oc-inet:ip-prefix
|   |     +--ro oc-pgrmerrs:time?  oc-types:timeticks64
|   +--ro oc-pgrmerrs:stale-routes
|   | +--ro oc-pgrmerrs:stale* [prefix]
|   |   +--ro oc-pgrmerrs:prefix -> ../state/prefix
|   |   +--ro oc-pgrmerrs:state
|   |     +--ro oc-pgrmerrs:prefix? oc-inet:ip-prefix
|   |     +--ro oc-pgrmerrs:time?  oc-types:timeticks64
|   +--ro oc-pgrmerrs:drop-routes
|   | +--ro oc-pgrmerrs:drop* [prefix]
|   |   +--ro oc-pgrmerrs:prefix -> ../state/prefix
|   |   +--ro oc-pgrmerrs:state
|   |     +--ro oc-pgrmerrs:prefix? oc-inet:ip-prefix
|   |     +--ro oc-pgrmerrs:time?  oc-types:timeticks64
+--ro extr-ni-tables-network-ext:tables-network
| +--ro extr-ni-tables-network-ext:ipv4-unicast
| | +--ro extr-ni-tables-network-ext:ipv4-entry* [prefix-len prefix]
| |   +--ro extr-ni-tables-network-ext:prefix-len -> ../state/prefix-len
| |   +--ro extr-ni-tables-network-ext:prefix    -> ../state/prefix

```

```

| | +--ro extr-ni-tables-network-ext:state
| |   +--ro extr-ni-tables-network-ext:prefix-len?      uint8
| |   +--ro extr-ni-tables-network-ext:prefix?          oc-inet:ipv4-prefix
| |   +--ro extr-ni-tables-network-ext:route-info* [origin-protocol]
| |     | +--ro extr-ni-tables-network-ext:origin-protocol -> ../state/origin-protocol
| |     | +--ro extr-ni-tables-network-ext:state
| |     |   +--ro extr-ni-tables-network-ext:origin-protocol? identityref
| |     |   +--ro extr-ni-tables-network-ext:type?          identityref
| |     |   +--ro extr-ni-tables-network-ext:tag?           uint32
| |     |   +--ro extr-ni-tables-network-ext:admin-distance? uint8
| |     |   +--ro extr-ni-tables-network-ext:metric?        uint32
| |     |   +--ro extr-ni-tables-network-ext:last-updated?  oc-types:timeticks64
| |     |   +--ro extr-ni-tables-network-ext:next-hop-group? -> ../../../../next-hop-
groups/next-hop-group/state/id
| |       +--ro extr-ni-tables-network-ext:best-origin-protocol? identityref
| |       +--ro extr-ni-tables-network-ext:hardware-status?   identityref
| | +--ro extr-ni-tables-network-ext:ipv6-unicast
| | +--ro extr-ni-tables-network-ext:ipv6-entry* [prefix-len prefix]
| |   +--ro extr-ni-tables-network-ext:prefix-len -> ../state/prefix-len
| |   +--ro extr-ni-tables-network-ext:prefix -> ../state/prefix
| |   +--ro extr-ni-tables-network-ext:state
| |     +--ro extr-ni-tables-network-ext:prefix-len?      uint8
| |     +--ro extr-ni-tables-network-ext:prefix?          oc-inet:ipv6-prefix
| |     +--ro extr-ni-tables-network-ext:route-info* [origin-protocol]
| |       | +--ro extr-ni-tables-network-ext:origin-protocol -> ../state/origin-protocol
| |       | +--ro extr-ni-tables-network-ext:state
| |       |   +--ro extr-ni-tables-network-ext:origin-protocol? identityref
| |       |   +--ro extr-ni-tables-network-ext:type?          identityref
| |       |   +--ro extr-ni-tables-network-ext:tag?           uint32
| |       |   +--ro extr-ni-tables-network-ext:admin-distance? uint8
| |       |   +--ro extr-ni-tables-network-ext:metric?        uint32
| |       |   +--ro extr-ni-tables-network-ext:last-updated?  oc-types:timeticks64
| |       |   +--ro extr-ni-tables-network-ext:next-hop-group? -> ../../../../next-hop-
groups/next-hop-group/state/id
| |         +--ro extr-ni-tables-network-ext:best-origin-protocol? identityref
| |         +--ro extr-ni-tables-network-ext:hardware-status?   identityref
| | +--ro extr-ni-tables-network-ext:ethernet
| | +--ro extr-ni-tables-network-ext:mac-entry* [mac-address]
| |   +--ro extr-ni-tables-network-ext:mac-address -> ../state/mac-address
| |   +--ro extr-ni-tables-network-ext:state
| |     +--ro extr-ni-tables-network-ext:mac-address?      oc-yang:mac-address
| |     +--ro extr-ni-tables-network-ext:route-info* [origin-protocol]

```

```

| | | +--ro extr-ni-tables-network-ext:origin-protocol -> ../state/origin-protocol
| | | +--ro extr-ni-tables-network-ext:state
| | |   +--ro extr-ni-tables-network-ext:origin-protocol? identityref
| | |   +--ro extr-ni-tables-network-ext:type? identityref
| | |   +--ro extr-ni-tables-network-ext:last-updated? oc-types:timeticks64
| | |   +--ro extr-ni-tables-network-ext:seq-no? uint32
| | |   +--ro extr-ni-tables-network-ext:next-hop-group? -> ../../../../next-hop-
groups/next-hop-group/state/id
| |   +--ro extr-ni-tables-network-ext:best-origin-protocol? identityref
| |   +--ro extr-ni-tables-network-ext:hardware-status? identityref
| +--ro extr-ni-tables-network-ext:ipv4-neighbor
| | +--ro extr-ni-tables-network-ext:ipv4-nbr-entry* [nbr-address]
| |   +--ro extr-ni-tables-network-ext:nbr-address -> ../state/nbr-address
| |   +--ro extr-ni-tables-network-ext:state
| |     +--ro extr-ni-tables-network-ext:nbr-address? oc-inet:ipv4-prefix
| |     +--ro extr-ni-tables-network-ext:route-info* [origin-protocol]
| |       +--ro extr-ni-tables-network-ext:origin-protocol -> ../state/origin-protocol
| |       +--ro extr-ni-tables-network-ext:state
| |         +--ro extr-ni-tables-network-ext:origin-protocol? identityref
| |         +--ro extr-ni-tables-network-ext:type? identityref
| |         +--ro extr-ni-tables-network-ext:last-updated? oc-types:timeticks64
| |         +--ro extr-ni-tables-network-ext:seq-no? uint32
| |         +--ro extr-ni-tables-network-ext:mac-address? oc-yang:mac-address
| |         +--ro extr-ni-tables-network-ext:interface-ref
| |           +--ro extr-ni-tables-network-ext:interface? -> /oc-if:interfaces/interface/name
| |           +--ro extr-ni-tables-network-ext:subinterface? -> /oc-if:interfaces/interface[oc-
if:name=current()]/../interface]/subinterfaces/subinterface/index
| |     +--ro extr-ni-tables-network-ext:l3-interface? -> /oc-if:interfaces/interface/name
| |     +--ro extr-ni-tables-network-ext:best-origin-protocol? identityref
| +--ro extr-ni-tables-network-ext:ipv6-neighbor
| | +--ro extr-ni-tables-network-ext:ipv6-nbr-entry* [nbr-address]
| |   +--ro extr-ni-tables-network-ext:nbr-address -> ../state/nbr-address
| |   +--ro extr-ni-tables-network-ext:state
| |     +--ro extr-ni-tables-network-ext:nbr-address? oc-inet:ipv6-prefix
| |     +--ro extr-ni-tables-network-ext:route-info* [origin-protocol]
| |       +--ro extr-ni-tables-network-ext:origin-protocol -> ../state/origin-protocol
| |       +--ro extr-ni-tables-network-ext:state
| |         +--ro extr-ni-tables-network-ext:origin-protocol? identityref
| |         +--ro extr-ni-tables-network-ext:type? identityref
| |         +--ro extr-ni-tables-network-ext:last-updated? oc-types:timeticks64
| |         +--ro extr-ni-tables-network-ext:seq-no? uint32
| |         +--ro extr-ni-tables-network-ext:mac-address? oc-yang:mac-address

```

```

| | | +--ro extr-ni-tables-network-ext:interface-ref
| | | +--ro extr-ni-tables-network-ext:interface? -> /oc-if:interfaces/interface/name
| | | +--ro extr-ni-tables-network-ext:subinterface? -> /oc-if:interfaces/interface[oc-
if:name=current()/../interface]/subinterfaces/subinterface/index
| | | +--ro extr-ni-tables-network-ext:l3-interface? -> /oc-if:interfaces/interface/name
| | +--ro extr-ni-tables-network-ext:best-origin-protocol? identityref
| +--ro extr-ni-tables-network-ext:next-hop-groups
| | +--ro extr-ni-tables-network-ext:next-hop-group* [id]
| | +--ro extr-ni-tables-network-ext:id -> ../state/id
| | +--ro extr-ni-tables-network-ext:state
| | +--ro extr-ni-tables-network-ext:id? uint64
| | +--ro extr-ni-tables-network-ext:secondary-active? boolean
| | +--ro extr-ni-tables-network-ext:next-hops* -> ../../../../next-hops/next-
hop/state/index
| | +--ro extr-ni-tables-network-ext:protocol-next-hops* -> ../../../../next-hops/next-
hop/state/index
| | +--ro extr-ni-tables-network-ext:secondary-protocol-next-hops* -> ../../../../next-
hops/next-hop/state/index
| +--ro extr-ni-tables-network-ext:next-hops
| | +--ro extr-ni-tables-network-ext:next-hop* [index]
| | +--ro extr-ni-tables-network-ext:index -> ../state/index
| | +--ro extr-ni-tables-network-ext:state
| | | +--ro extr-ni-tables-network-ext:index? uint64
| | | +--ro extr-ni-tables-network-ext:type? extr-ni-types:next-hop-type
| | | +--ro extr-ni-tables-network-ext:network-instance-name? string
| | | +--ro extr-ni-tables-network-ext:ip-address? oc-inet:ip-address
| | | +--ro extr-ni-tables-network-ext:mac-address? oc-yang:mac-address
| | +--ro extr-ni-tables-network-ext:interface-ref
| | +--ro extr-ni-tables-network-ext:interface? -> /oc-if:interfaces/interface/name
| | +--ro extr-ni-tables-network-ext:subinterface? -> /oc-if:interfaces/interface[oc-
if:name=current()/../interface]/subinterfaces/subinterface/index
| | +--ro extr-ni-tables-network-ext:l3-interface? -> /oc-if:interfaces/interface/name
+--rw extr-ni-ext:vni-domains
+--rw extr-ni-ext:vni-domain* [name]
+--rw extr-ni-ext:name -> ../config/name
+--rw extr-ni-ext:config
| +--rw extr-ni-ext:name? string
| +--rw extr-ni-ext:vni? uint32
+--ro extr-ni-ext:state
+--ro extr-ni-ext:name? string
+--ro extr-ni-ext:vni? uint32

```

module: openconfig-system

```

+--rw system
  +--rw extr-sys-ext:global
    | +--rw extr-sys-ext:l2
    | | +--rw extr-sys-ext:mac-move-detection
    | |   +--rw extr-sys-ext:config
    | |     | +--rw extr-sys-ext:enable?          boolean
    | |     | +--rw extr-sys-ext:interval?        uint16
    | |     | +--rw extr-sys-ext:threshold?       uint16
    | |     | +--rw extr-sys-ext:action?          mac-move-action
    | |     | +--rw extr-sys-ext:auto-recovery-time? uint16
    | |   +--ro extr-sys-ext:state
    | |     | +--ro extr-sys-ext:enable?          boolean
    | |     | +--ro extr-sys-ext:interval?        uint16
    | |     | +--ro extr-sys-ext:threshold?       uint16
    | |     | +--ro extr-sys-ext:action?          mac-move-action
    | |     | +--ro extr-sys-ext:auto-recovery-time? uint16
    | |   +--rw extr-sys-ext:ports
    | |     +--rw extr-sys-ext:port* [interface subinterface]
    | |       +--rw extr-sys-ext:interface -> /oc-if:interfaces/interface/name
    | |         +--rw extr-sys-ext:subinterface -> /oc-if:interfaces/interface[oc-
if:name=current()/../interface]/subinterfaces/subinterface/index
    | |           +--ro extr-sys-ext:state
    | |           +--ro extr-sys-ext:interface? -> /oc-if:interfaces/interface/name
    | |           +--ro extr-sys-ext:subinterface? -> /oc-if:interfaces/interface[oc-
if:name=current()/../interface]/subinterfaces/subinterface/index
    | |             +--ro extr-sys-ext:bd-id?      uint16
    | |             +--ro extr-sys-ext:no-shut-time? int64
    | +--rw extr-sys-ext:config
    | | +--rw extr-sys-ext:ipv4-anycast-gateway-mac? oc-yang:mac-address
    | | +--rw extr-sys-ext:ipv6-anycast-gateway-mac? oc-yang:mac-address
    | | +--rw extr-sys-ext:ecmp-max-path?          uint8
    | | +--rw extr-sys-ext:mac-aging-time?         uint32
    | | +--rw extr-sys-ext:l2-mtu?                 uint16
    | | +--rw extr-sys-ext:ip-mtu?                 uint16
    | | +--rw extr-sys-ext:contact?                string
    | | +--rw extr-sys-ext:location?               string
    | +--ro extr-sys-ext:state
    |   +--ro extr-sys-ext:ipv4-anycast-gateway-mac? oc-yang:mac-address
    |   +--ro extr-sys-ext:ipv6-anycast-gateway-mac? oc-yang:mac-address
    |   +--ro extr-sys-ext:ecmp-max-path?          uint8
    |   +--ro extr-sys-ext:mac-aging-time?         uint32

```

```

| +--ro extr-sys-ext:l2-mtu?          uint16
| +--ro extr-sys-ext:ip-mtu?          uint16
| +--ro extr-sys-ext:contact?         string
| +--ro extr-sys-ext:location?        string
+--rw extr-sys-ext:rme
| +--rw extr-sys-ext:config
| | +--rw extr-sys-ext:port?          oc-if:base-interface-ref
| | +--rw extr-sys-ext:performance-mode? oc-if:base-interface-ref
| +--ro extr-sys-ext:state
| +--ro extr-sys-ext:port?          oc-if:base-interface-ref
| +--ro extr-sys-ext:performance-mode? oc-if:base-interface-ref
| +--ro extr-sys-ext:redundancy?     string
| +--ro extr-sys-ext:active?         string
| +--ro extr-sys-ext:memberset?      string
| +--ro extr-sys-ext:primary?        string
+--rw extr-sys-ext:maintenance-mode
| +--rw extr-sys-ext:config
| | +--rw extr-sys-ext:enable-on-reload? boolean
| +--ro extr-sys-ext:state
| +--ro extr-sys-ext:enable-on-reload? boolean
| +--ro extr-sys-ext:enabled?         boolean
| +--ro extr-sys-ext:status?         identityref
+--rw extr-sys-iah:iah
+--rw extr-sys-iah:host
| +--ro extr-sys-iah:state
| +--ro extr-sys-iah:name?           string
| +--ro extr-sys-iah:hypervisor?     string
| +--ro extr-sys-iah:hypervisor-driver-version? string
| +--ro extr-sys-iah:libvirt-version? string
| +--ro extr-sys-iah:kernel-version? string
| +--ro extr-sys-iah:cpu-model?       string
| +--ro extr-sys-iah:cpu-clock?       uint32
| +--ro extr-sys-iah:cpus?           uint32
| +--ro extr-sys-iah:sockets?        uint32
| +--ro extr-sys-iah:cores-per-socket? uint32
| +--ro extr-sys-iah:threads-per-core? uint32
| +--ro extr-sys-iah:numa-cells?     uint32
| +--ro extr-sys-iah:memory?         uint32
| +--ro extr-sys-iah:vms-limit?      uint32
| +--ro extr-sys-iah:vms-deployed?   uint32
| +--ro extr-sys-iah:vcpus-limit?    uint32
| +--ro extr-sys-iah:memory-limit?   uint32

```



```

|  +--ro extr-sys-iah:disk-space-limit?      uint32
|  +--ro extr-sys-iah:vcpus-available?      uint32
|  +--ro extr-sys-iah:memory-available?      uint32
|  +--ro extr-sys-iah:disk-space-available?  uint32
+--rw extr-sys-iah:vms
  +--rw extr-sys-iah:vm* [name]
    +--rw extr-sys-iah:name      -> ../config/name
    +--rw extr-sys-iah:config
      |  +--rw extr-sys-iah:name?      string
      |  +--rw extr-sys-iah:description?  string
      |  +--rw extr-sys-iah:deploy?      boolean
      |  +--rw extr-sys-iah:auto-boot?    boolean
      |  +--rw extr-sys-iah:activate-network?  boolean
      |  +--rw extr-sys-iah:cpus?      uint32
      |  +--rw extr-sys-iah:ram?      uint32
    +--ro extr-sys-iah:state
      |  +--ro extr-sys-iah:name?      string
      |  +--ro extr-sys-iah:description?  string
      |  +--ro extr-sys-iah:deploy?      boolean
      |  +--ro extr-sys-iah:auto-boot?    boolean
      |  +--ro extr-sys-iah:activate-network?  boolean
      |  +--ro extr-sys-iah:cpus?      uint32
      |  +--ro extr-sys-iah:ram?      uint32
      |  +--ro extr-sys-iah:id?      uint32
      |  +--ro extr-sys-iah:deploy-status?  string
      |  +--ro extr-sys-iah:vm-status?    enumeration
      |  +--ro extr-sys-iah:last-error?    string
    +--rw extr-sys-iah:disks
      |  +--rw extr-sys-iah:disk* [name]
      |  +--rw extr-sys-iah:name      -> ../config/name
      |  +--rw extr-sys-iah:config
      |    |  +--rw extr-sys-iah:name?      string
      |    |  +--rw extr-sys-iah:size?      uint32
      |    |  +--rw extr-sys-iah:source-file?  string
      |    |  +--rw extr-sys-iah:file-format?  enumeration
      |    |  +--rw extr-sys-iah:bus-type?    enumeration
      |    +--ro extr-sys-iah:state
      |      |  +--ro extr-sys-iah:name?      string
      |      |  +--ro extr-sys-iah:size?      uint32
      |      |  +--ro extr-sys-iah:source-file?  string
      |      |  +--ro extr-sys-iah:file-format?  enumeration
      |      |  +--ro extr-sys-iah:bus-type?    enumeration

```

```

+--rw extr-sys-iah:networks
| +--rw extr-sys-iah:network* [name]
|   +--rw extr-sys-iah:name    -> ../config/name
|   +--rw extr-sys-iah:config
|     | +--rw extr-sys-iah:name?      string
|     | +--rw extr-sys-iah:interface? string
|     | +--rw extr-sys-iah:mac?       oc-yang:mac-address
|     | +--rw extr-sys-iah:connector-type? enumeration
|     +--ro extr-sys-iah:state
|       +--ro extr-sys-iah:name?      string
|       +--ro extr-sys-iah:interface? string
|       +--ro extr-sys-iah:mac?       oc-yang:mac-address
|       +--ro extr-sys-iah:connector-type? enumeration
+--rw extr-sys-iah:snapshot
| +--ro extr-sys-iah:state
|   +--ro extr-sys-iah:description? string
|   +--ro extr-sys-iah:version?      string
|   +--ro extr-sys-iah:time?         yang:date-and-time
|   +--ro extr-sys-iah:size?         uint32
+--rw extr-sys-iah:tpvm
  +--rw extr-sys-iah:config
  | +--rw extr-sys-iah:user?      string
  | +--rw extr-sys-iah:password?  string
  | +--rw extr-sys-iah:hostname?  string
  | +--rw extr-sys-iah:timezone?  oc-sys:timezone-name-type
  +--rw extr-sys-iah:state
  | +--rw extr-sys-iah:user?      string
  | +--rw extr-sys-iah:password?  string
  | +--rw extr-sys-iah:hostname?  string
  | +--rw extr-sys-iah:timezone?  oc-sys:timezone-name-type
  | +--rw extr-sys-iah:version?   string
  | +--rw extr-sys-iah:os-release? string
  | +--rw extr-sys-iah:kernel-version? string
  | +--rw extr-sys-iah:ssh-passwordless? boolean
  +--rw extr-sys-iah:management
  | +--rw extr-sys-iah:config
  | | +--rw extr-sys-iah:ipv4-addr? oc-inet:ipv4-prefix
  | | +--rw extr-sys-iah:ipv4-gw?  oc-inet:ipv4-address
  | | +--rw extr-sys-iah:dhcp4?    boolean
  | | +--rw extr-sys-iah:ipv6-addr? oc-inet:ipv6-prefix
  | | +--rw extr-sys-iah:ipv6-gw?  oc-inet:ipv6-address
  | | +--rw extr-sys-iah:dhcp6?    boolean

```

```

| +--ro extr-sys-iah:state
|   +--ro extr-sys-iah:ipv4-addr?  oc-inet:ipv4-prefix
|   +--ro extr-sys-iah:ipv4-gw?   oc-inet:ipv4-address
|   +--ro extr-sys-iah:dhcp4?     boolean
|   +--ro extr-sys-iah:ipv6-addr? oc-inet:ipv6-prefix
|   +--ro extr-sys-iah:ipv6-gw?   oc-inet:ipv6-address
|   +--ro extr-sys-iah:dhcp6?     boolean
+--rw extr-sys-iah:ntp
| +--rw extr-sys-iah:servers* [server]
|   +--rw extr-sys-iah:server  -> ../config/server
|   +--rw extr-sys-iah:config
|     | +--rw extr-sys-iah:server?  oc-inet:host
|     +--rw extr-sys-iah:state
|       +--rw extr-sys-iah:server?  oc-inet:host
+--rw extr-sys-iah:ntp-data
| +--rw extr-sys-iah:state
|   +--rw extr-sys-iah:service-state?  string
|   +--rw extr-sys-iah:clock-sync?     boolean
|   +--rw extr-sys-iah:local-time?     yang:date-and-time
|   +--rw extr-sys-iah:universal-time? yang:date-and-time
|   +--rw extr-sys-iah:rtc-time?       yang:date-and-time
|   +--rw extr-sys-iah:time-zone?      oc-sys:timezone-name-type
+--rw extr-sys-iah:dns
| +--rw extr-sys-iah:config
|   | +--rw extr-sys-iah:primary-server?  oc-inet:host
|   | +--rw extr-sys-iah:secondary-server? oc-inet:host
|   | +--rw extr-sys-iah:domain?          string
|   +--rw extr-sys-iah:state
|     +--rw extr-sys-iah:primary-server?  oc-inet:host
|     +--rw extr-sys-iah:secondary-server? oc-inet:host
|     +--rw extr-sys-iah:domain?          string
+--rw extr-sys-iah:ldap
| +--rw extr-sys-iah:config
|   | +--rw extr-sys-iah:host?            oc-inet:host
|   | +--rw extr-sys-iah:port?            uint16
|   | +--rw extr-sys-iah:secure?          boolean
|   | +--rw extr-sys-iah:basedn?          string
|   | +--rw extr-sys-iah:rootdn?          string
|   | +--rw extr-sys-iah:rootdnpw?        string
|   | +--rw extr-sys-iah:rootdnpw-hashed? string
|   | +--rw extr-sys-iah:enable?          boolean
|   +--rw extr-sys-iah:state

```

```

| +--rw extr-sys-iah:host?      oc-inet:host
| +--rw extr-sys-iah:port?      uint16
| +--rw extr-sys-iah:secure?    boolean
| +--rw extr-sys-iah:basedn?    string
| +--rw extr-sys-iah:rootdn?    string
| +--rw extr-sys-iah:rootdnpw?  string
| +--rw extr-sys-iah:rootdnpw-hashed? string
| +--rw extr-sys-iah:enable?    boolean
+--rw extr-sys-iah:ldap-cacert
| +--rw extr-sys-iah:config
| | +--rw extr-sys-iah:ca-certificate? string
| +--rw extr-sys-iah:state
| +--rw extr-sys-iah:ca-certificate? string
+--rw extr-sys-iah:trusted-peer
+--rw extr-sys-iah:config
| +--rw extr-sys-iah:peer-ip?      oc-inet:ipv4-address
| +--rw extr-sys-iah:peer-ipv6?    oc-inet:ipv6-address
| +--rw extr-sys-iah:peer-sudoer?  string
| +--rw extr-sys-iah:peer-password? string
| +--rw extr-sys-iah:peer-password-hashed? string
+--rw extr-sys-iah:state
+--rw extr-sys-iah:peer-ip?      oc-inet:ipv4-address
+--rw extr-sys-iah:peer-ipv6?    oc-inet:ipv6-address
+--rw extr-sys-iah:peer-sudoer?  string
+--rw extr-sys-iah:peer-password? string
+--rw extr-sys-iah:peer-password-hashed? string

```

module: openconfig-interfaces

```

+--rw interfaces
+--rw interface* [name]
+--rw name          -> ../config/name
+--rw config
| +--rw name?      string
| +--rw type       identityref
| +--rw mtu?       uint16
| +--rw loopback-mode? oc-opt-types:loopback-mode-type
| +--rw description? string
| +--rw enabled?    boolean
+--ro state
| +--ro name?      string
| +--ro type       identityref
| +--ro mtu?       uint16

```

```

| +--ro loopback-mode?          oc-opt-types:loopback-mode-type
| +--ro description?           string
| +--ro enabled?               boolean
| +--ro ifindex?               uint32
| +--ro admin-status           enumeration
| +--ro oper-status            enumeration
| +--ro last-change?           oc-types:timeticks64
| +--ro counters
| | +--ro in-octets?           oc-yang:counter64
| | +--ro in-pkts?            oc-yang:counter64
| | +--ro in-unicast-pkts?     oc-yang:counter64
| | +--ro in-broadcast-pkts?   oc-yang:counter64
| | +--ro in-multicast-pkts?   oc-yang:counter64
| | +--ro in-errors?          oc-yang:counter64
| | +--ro in-discards?        oc-yang:counter64
| | +--ro out-octets?         oc-yang:counter64
| | +--ro out-pkts?          oc-yang:counter64
| | +--ro out-unicast-pkts?    oc-yang:counter64
| | +--ro out-broadcast-pkts?  oc-yang:counter64
| | +--ro out-multicast-pkts?  oc-yang:counter64
| | +--ro out-discards?       oc-yang:counter64
| | +--ro out-errors?         oc-yang:counter64
| | +--ro last-clear?         oc-types:timeticks64
| | +--ro in-unknown-protos?   oc-yang:counter64
| | +--ro in-fcs-errors?       oc-yang:counter64
| | +--ro carrier-transitions? oc-yang:counter64
| | +--ro extr-if-ext:if-mib-counter
| |   +--ro extr-if-ext:if-counter-discontinuity-time? string
| +--ro extr-if-ext:if-mib
| | +--ro extr-if-ext:if-last-change? string
| +--ro extr-if-ext:oper-down-reason? identityref
+--rw subinterfaces
| +--rw subinterface* [index]
|   +--rw index      -> ../config/index
|   +--rw config
|   | +--rw index?      uint32
|   | +--rw description? string
|   | +--rw enabled?    boolean
|   | +--rw extr-if-ext:if-mode? identityref
|   +--ro state
|   | +--ro index?      uint32
|   | +--ro description? string

```

		+++ro enabled?	boolean
		+++ro name?	string
		+++ro ifindex?	uint32
		+++ro admin-status	enumeration
		+++ro oper-status	enumeration
		+++ro last-change?	oc-types:timeticks64
		+++ro logical?	boolean
		+++ro management?	boolean
		+++ro cpu?	boolean
		+++ro counters	
		+++ro in-octets?	oc-yang:counter64
		+++ro in-pkts?	oc-yang:counter64
		+++ro in-unicast-pkts?	oc-yang:counter64
		+++ro in-broadcast-pkts?	oc-yang:counter64
		+++ro in-multicast-pkts?	oc-yang:counter64
		+++ro in-errors?	oc-yang:counter64
		+++ro in-discards?	oc-yang:counter64
		+++ro out-octets?	oc-yang:counter64
		+++ro out-pkts?	oc-yang:counter64
		+++ro out-unicast-pkts?	oc-yang:counter64
		+++ro out-broadcast-pkts?	oc-yang:counter64
		+++ro out-multicast-pkts?	oc-yang:counter64
		+++ro out-discards?	oc-yang:counter64
		+++ro out-errors?	oc-yang:counter64
		+++ro last-clear?	oc-types:timeticks64
		x--ro in-unknown-protos?	oc-yang:counter64
		x--ro in-fcs-errors?	oc-yang:counter64
		x--ro carrier-transitions?	oc-yang:counter64
		+++ro extr-if-ext:oper-down-reason?	identityref
		+++ro extr-if-ext:if-mode?	identityref
		+++rw oc-vlan:vlan	
		+++rw oc-vlan:match	
		+++rw oc-vlan:single-tagged	
		+++rw oc-vlan:config	
		+++rw oc-vlan:vlan-id?	oc-vlan-types:vlan-id
		+++ro oc-vlan:state	
		+++ro oc-vlan:vlan-id?	oc-vlan-types:vlan-id
		+++rw oc-vlan:double-tagged	
		+++rw oc-vlan:config	
		+++rw oc-vlan:inner-vlan-id?	oc-vlan-types:vlan-id
		+++rw oc-vlan:outer-vlan-id?	oc-vlan-types:vlan-id
		+++ro oc-vlan:state	

```

| | | +--ro oc-vlan:inner-vlan-id? oc-vlan-types:vlan-id
| | | +--ro oc-vlan:outer-vlan-id? oc-vlan-types:vlan-id
| | +--rw extr-vlan-ext:un-tagged
| | +--rw extr-vlan-ext:config
| | | +--rw extr-vlan-ext:vlan-id? oc-vlan-types:vlan-id
| | | +--rw extr-vlan-ext:accept-mode? identityref
| | +--ro extr-vlan-ext:state
| | | +--ro extr-vlan-ext:vlan-id? oc-vlan-types:vlan-id
| | | +--ro extr-vlan-ext:accept-mode? identityref
| +--rw oc-ip:ipv4
| | +--rw oc-ip:addresses
| | | +--rw oc-ip:address* [ip]
| | | +--rw oc-ip:ip -> ../config/ip
| | | +--rw oc-ip:config
| | | | +--rw oc-ip:ip? oc-inet:ipv4-address
| | | | +--rw oc-ip:prefix-length? uint8
| | | | +--rw extr-ip-ext:secondary? boolean
| | | +--ro oc-ip:state
| | | | +--ro oc-ip:ip? oc-inet:ipv4-address
| | | | +--ro oc-ip:prefix-length? uint8
| | | | +--ro oc-ip:origin? ip-address-origin
| | | | +--ro extr-ip-ext:secondary? boolean
| | | | +--ro extr-ip-ext:status? enumeration
| | +--rw oc-ip:neighbors
| | | +--rw oc-ip:neighbor* [ip]
| | | +--rw oc-ip:ip -> ../config/ip
| | | +--rw oc-ip:config
| | | | +--rw oc-ip:ip? oc-inet:ipv4-address
| | | | +--rw oc-ip:link-layer-address oc-yang:phys-address
| | | +--ro oc-ip:state
| | | | +--ro oc-ip:ip? oc-inet:ipv4-address
| | | | +--ro oc-ip:link-layer-address oc-yang:phys-address
| | | | +--ro oc-ip:origin? neighbor-origin
| | +--rw oc-ip:config
| | | +--rw oc-ip:mtu? uint16
| | | +--rw oc-ip:dhcp-client? boolean
| | | +--rw extr-ip-ext:neighbor-reachable-time? uint16
| | +--ro oc-ip:state
| | | +--ro oc-ip:mtu? uint16
| | | +--ro oc-ip:dhcp-client? boolean
| | +--ro oc-ip:counters
| | | +--ro oc-ip:in-pkts? oc-yang:counter64

```

```

| | | +--ro oc-ip:in-octets?          oc-yang:counter64
| | | +--ro oc-ip:in-error-pkts?      oc-yang:counter64
| | | +--ro oc-ip:in-forwarded-pkts?  oc-yang:counter64
| | | +--ro oc-ip:in-forwarded-octets? oc-yang:counter64
| | | +--ro oc-ip:in-discarded-pkts?  oc-yang:counter64
| | | +--ro oc-ip:out-pkts?           oc-yang:counter64
| | | +--ro oc-ip:out-octets?         oc-yang:counter64
| | | +--ro oc-ip:out-error-pkts?     oc-yang:counter64
| | | +--ro oc-ip:out-forwarded-pkts? oc-yang:counter64
| | | +--ro oc-ip:out-forwarded-octets? oc-yang:counter64
| | | +--ro oc-ip:out-discarded-pkts? oc-yang:counter64
| | +--ro extr-ip-ext:neighbor-reachable-time? uint16
| +--rw oc-ip:ipv6
|   +--rw oc-ip:addresses
|     | +--rw oc-ip:address* [ip]
|     |   +--rw oc-ip:ip      -> ../config/ip
|     |   +--rw oc-ip:config
|     |     | +--rw oc-ip:ip?          oc-inet:ipv6-address
|     |     | +--rw oc-ip:prefix-length  uint8
|     |     | +--rw extr-ip-ext:secondary? boolean
|     |     | +--rw extr-ip-ext:eui-64?  boolean
|     |     +--ro oc-ip:state
|     |       +--ro oc-ip:ip?          oc-inet:ipv6-address
|     |       +--ro oc-ip:prefix-length  uint8
|     |       +--ro oc-ip:origin?       ip-address-origin
|     |       +--ro oc-ip:status?       enumeration
|     |       +--ro extr-ip-ext:secondary? boolean
|     |       +--ro extr-ip-ext:eui-64?  boolean
|   +--rw oc-ip:router-advertisement
|     | +--rw oc-ip:config
|     |   | +--rw oc-ip:enable?          boolean
|     |   | +--rw oc-ip:interval?        uint32
|     |   | +--rw oc-ip:lifetime?        uint32
|     |   | x--rw oc-ip:suppress?        boolean
|     |   | +--rw oc-ip:mode?            enumeration
|     |   | +--rw oc-ip:managed?         boolean
|     |   | +--rw oc-ip:other-config?    boolean
|     |   | +--rw extr-ip-ext:min-interval? uint32
|     |   | +--rw extr-ip-ext:hop-limit?  uint8
|     |   +--ro oc-ip:state
|     |     | +--ro oc-ip:enable?          boolean
|     |     | +--ro oc-ip:interval?        uint32

```



```

| | | +--ro oc-ip:lifetime?      uint32
| | | x--ro oc-ip:suppress?      boolean
| | | +--ro oc-ip:mode?          enumeration
| | | +--ro oc-ip:managed?       boolean
| | | +--ro oc-ip:other-config?  boolean
| | | +--ro extr-ip-ext:min-interval? uint32
| | | +--ro extr-ip-ext:hop-limit?  uint8
| | | +--ro extr-ip-ext:last-ra-tx? oc-types:timeticks64
| | | +--ro extr-ip-ext:next-ra-tx? oc-types:timeticks64
| | +--rw oc-ip:prefixes
| |   +--rw oc-ip:prefix* [prefix]
| |     +--rw oc-ip:prefix -> ../config/prefix
| |     +--rw oc-ip:config
| |       | +--rw oc-ip:prefix?      oc-inet:ipv6-prefix
| |       | +--rw oc-ip:valid-lifetime?  uint32
| |       | +--rw oc-ip:preferred-lifetime?  uint32
| |       | +--rw oc-ip:disable-advertisement?  boolean
| |       | +--rw oc-ip:disable-autoconfiguration?  boolean
| |       | +--rw oc-ip:enable-onlink?    boolean
| |       +--ro oc-ip:state
| |         +--ro oc-ip:prefix?      oc-inet:ipv6-prefix
| |         +--ro oc-ip:valid-lifetime?  uint32
| |         +--ro oc-ip:preferred-lifetime?  uint32
| |         +--ro oc-ip:disable-advertisement?  boolean
| |         +--ro oc-ip:disable-autoconfiguration?  boolean
| |         +--ro oc-ip:enable-onlink?    boolean
| | +--rw oc-ip:neighbors
| |   +--rw oc-ip:neighbor* [ip]
| |     +--rw oc-ip:ip -> ../config/ip
| |     +--rw oc-ip:config
| |       | +--rw oc-ip:ip?      oc-inet:ipv6-address
| |       | +--rw oc-ip:link-layer-address  oc-yang:phys-address
| |       +--ro oc-ip:state
| |         +--ro oc-ip:ip?      oc-inet:ipv6-address
| |         +--ro oc-ip:link-layer-address  oc-yang:phys-address
| |         +--ro oc-ip:origin?    neighbor-origin
| |         +--ro oc-ip:is-router?  boolean
| |         +--ro oc-ip:neighbor-state?  enumeration
| | +--rw oc-ip:config
| |   +--rw oc-ip:mtu?      uint32
| |   +--rw oc-ip:dup-addr-detect-transmits?  uint32
| |   +--rw oc-ip:dhcp-client?    boolean

```

```

| | +--rw extr-ip-ext:neighbor-reachabletime? uint16
| +--ro oc-ip:state
| | +--ro oc-ip:mtu? uint32
| | +--ro oc-ip:dup-addr-detect-transmits? uint32
| | +--ro oc-ip:dhcp-client? boolean
| | +--ro oc-ip:counters
| | | +--ro oc-ip:in-pkts? oc-yang:counter64
| | | +--ro oc-ip:in-octets? oc-yang:counter64
| | | +--ro oc-ip:in-error-pkts? oc-yang:counter64
| | | +--ro oc-ip:in-forwarded-pkts? oc-yang:counter64
| | | +--ro oc-ip:in-forwarded-octets? oc-yang:counter64
| | | +--ro oc-ip:in-discarded-pkts? oc-yang:counter64
| | | +--ro oc-ip:out-pkts? oc-yang:counter64
| | | +--ro oc-ip:out-octets? oc-yang:counter64
| | | +--ro oc-ip:out-error-pkts? oc-yang:counter64
| | | +--ro oc-ip:out-forwarded-pkts? oc-yang:counter64
| | | +--ro oc-ip:out-forwarded-octets? oc-yang:counter64
| | | +--ro oc-ip:out-discarded-pkts? oc-yang:counter64
| | +--ro extr-ip-ext:neighbor-reachabletime? uint16
| +--rw oc-ip-ext:autoconf
| | +--rw oc-ip-ext:config
| | | +--rw oc-ip-ext:create-global-addresses? boolean
| | +--ro oc-ip-ext:state
| | | +--ro oc-ip-ext:create-global-addresses? boolean
+--rw oc-eth:ethernet
| +--rw oc-eth:config
| | +--rw oc-eth:mac-address? oc-yang:mac-address
| | +--rw oc-eth:auto-negotiate? boolean
| | +--rw oc-eth:duplex-mode? enumeration
| | +--rw oc-eth:port-speed? identityref
| | +--rw oc-eth:fec-mode? identityref
| | +--rw oc-lag:aggregate-id? -> /oc-if:interfaces/interface/name
| | +--rw extr-lacp-ext:port-priority? uint16
| | +--rw extr-lacp-ext:interval? oc-lacp:lacp-period-type
| | +--rw extr-lacp-ext:lacp-mode? oc-lacp:lacp-activity-type
| | +--rw extr-eth-ext:fec
| | | +--rw extr-eth-ext:fec-mode? fec-mode-type
| | +--rw extr-eth-ext:link-fault-signaling? boolean
| | +--rw extr-eth-ext:interfaces-auto? boolean
| | +--rw extr-eth-ext:interfaces-auto-negotiation? boolean
| | +--rw extr-eth-ext:interfaces-loopback-mode? boolean
| +--ro oc-eth:state

```

+--ro oc-eth:mac-address?	oc-yang:mac-address
+--ro oc-eth:auto-negotiate?	boolean
+--ro oc-eth:duplex-mode?	enumeration
+--ro oc-eth:port-speed?	identityref
+--ro oc-eth:fec-mode?	identityref
+--ro oc-eth:hw-mac-address?	oc-yang:mac-address
+--ro oc-eth:negotiated-duplex-mode?	enumeration
+--ro oc-eth:negotiated-port-speed?	identityref
+--ro oc-eth:counters	
+--ro oc-eth:in-mac-control-frames?	oc-yang:counter64
+--ro oc-eth:in-mac-pause-frames?	oc-yang:counter64
+--ro oc-eth:in-oversize-frames?	oc-yang:counter64
+--ro oc-eth:in-undersize-frames?	oc-yang:counter64
+--ro oc-eth:in-jabber-frames?	oc-yang:counter64
+--ro oc-eth:in-fragment-frames?	oc-yang:counter64
+--ro oc-eth:in-8021q-frames?	oc-yang:counter64
+--ro oc-eth:in-crc-errors?	oc-yang:counter64
+--ro oc-eth:in-block-errors?	oc-yang:counter64
+--ro oc-eth:in-carrier-errors?	oc-yang:counter64
+--ro oc-eth:in-interrupted-tx?	oc-yang:counter64
+--ro oc-eth:in-late-collision?	oc-yang:counter64
+--ro oc-eth:in-mac-errors-rx?	oc-yang:counter64
+--ro oc-eth:in-single-collision?	oc-yang:counter64
+--ro oc-eth:in-symbol-error?	oc-yang:counter64
+--ro oc-eth:in-maxsize-exceeded?	oc-yang:counter64
+--ro oc-eth:out-mac-control-frames?	oc-yang:counter64
+--ro oc-eth:out-mac-pause-frames?	oc-yang:counter64
+--ro oc-eth:out-8021q-frames?	oc-yang:counter64
+--ro oc-eth:out-mac-errors-tx?	oc-yang:counter64
+--ro oc-eth-ext:in-distribution	
+--ro oc-eth-ext:in-frames-64-octets?	oc-yang:counter64
+--ro oc-eth-ext:in-frames-65-127-octets?	oc-yang:counter64
+--ro oc-eth-ext:in-frames-128-255-octets?	oc-yang:counter64
+--ro oc-eth-ext:in-frames-256-511-octets?	oc-yang:counter64
+--ro oc-eth-ext:in-frames-512-1023-octets?	oc-yang:counter64
+--ro oc-eth-ext:in-frames-1024-1518-octets?	oc-yang:counter64
+--ro extr-eth-ext:bandwidth-utilization	
+--ro extr-eth-ext:in-pkts-per-sec?	uint64
+--ro extr-eth-ext:out-pkts-per-sec?	uint64
+--ro extr-eth-ext:in-bits-per-sec?	uint64
+--ro extr-eth-ext:out-bits-per-sec?	uint64
+--ro extr-eth-ext:in-bandwidth-percentage?	oc-types:percentage

```

| | | +--ro extr-eth-ext:out-bandwidth-percentage? oc-types:percentage
| | +--ro extr-eth-ext:eth-fec-counters
| | | +--ro extr-eth-ext:fec-uncorrected-pkts? oc-yang:counter64
| | | +--ro extr-eth-ext:fec-corrected-pkts? oc-yang:counter64
| | +--ro extr-eth-ext:in-overflow-frames? oc-yang:counter64
| | +--ro extr-eth-ext:out-carrier-errors-tx? oc-yang:counter64
| | +--ro extr-eth-ext:out-collisions-tx? oc-yang:counter64
| +--ro oc-lag:aggregate-id? -> /oc-if:interfaces/interface/name
| +--ro extr-lacp-ext:port-priority? uint16
| +--ro extr-lacp-ext:interval? oc-lacp:lacp-period-type
| +--ro extr-lacp-ext:lacp-mode? oc-lacp:lacp-activity-type
| +--ro extr-eth-ext:ethernet-link-dampening-status
| | +--ro extr-eth-ext:link-dampening-status? uint32
| | +--ro extr-eth-ext:last-updated? oc-types:timeticks64
| +--ro extr-eth-ext:fec
| | +--ro extr-eth-ext:fec-mode? fec-mode-type
| +--ro extr-eth-ext:link-fault-signaling? boolean
| +--ro extr-eth-ext:link-fault-status? string
| +--ro extr-eth-ext:local-fault-count? uint64
| +--ro extr-eth-ext:remote-fault-count? uint64
| +--ro extr-eth-ext:last-local-fault? oc-types:timeticks64
| +--ro extr-eth-ext:last-remote-fault? oc-types:timeticks64
| +--ro extr-eth-ext:interfaces-auto? boolean
| +--ro extr-eth-ext:interfaces-auto-negotiation? boolean
| +--ro extr-eth-ext:interfaces-loopback-mode? boolean
+--rw oc-lag:aggregation
| +--rw oc-lag:config
| | +--rw oc-lag:lag-type? aggregation-type
| | +--rw oc-lag:min-links? uint16
| | +--rw extr-lag-ext:lag-load-balance-method? aggregation-load-balance-method
| +--ro oc-lag:state
| +--ro oc-lag:lag-type? aggregation-type
| +--ro oc-lag:min-links? uint16
| +--ro oc-lag:lag-speed? uint32
| +--ro oc-lag:member* oc-if:base-interface-ref
| +--ro extr-lag-ext:member-list* oc-if:base-interface-ref
| +--ro extr-lag-ext:active-member-list* oc-if:base-interface-ref
| +--ro extr-lag-ext:lag-load-balance-method? aggregation-load-balance-method
+--rw oc-vlan:routed-vlan
| +--rw oc-vlan:config
| | +--rw oc-vlan:vlan? union
| +--ro oc-vlan:state

```

```

| | +--ro oc-vlan:vlan? union
| | +--rw oc-ip:ipv4
| | | +--rw oc-ip:addresses
| | | | +--rw oc-ip:address* [ip]
| | | | | +--rw oc-ip:ip -> ../config/ip
| | | | | +--rw oc-ip:config
| | | | | | +--rw oc-ip:ip? oc-inet:ipv4-address
| | | | | | +--rw oc-ip:prefix-length? uint8
| | | | | | +--rw extr-ip-ext:secondary? boolean
| | | | | | +--rw extr-ip-ext:anycast-gateway? boolean
| | | | +--ro oc-ip:state
| | | | | +--ro oc-ip:ip? oc-inet:ipv4-address
| | | | | +--ro oc-ip:prefix-length? uint8
| | | | | +--ro oc-ip:origin? ip-address-origin
| | | | | +--ro extr-ip-ext:secondary? boolean
| | | | | +--ro extr-ip-ext:anycast-gateway? boolean
| | | | | +--ro extr-ip-ext:status? enumeration
| | | +--rw oc-ip:neighbors
| | | | +--rw oc-ip:neighbor* [ip]
| | | | | +--rw oc-ip:ip -> ../config/ip
| | | | | +--rw oc-ip:config
| | | | | | +--rw oc-ip:ip? oc-inet:ipv4-address
| | | | | | +--rw oc-ip:link-layer-address oc-yang:phys-address
| | | | +--ro oc-ip:state
| | | | | +--ro oc-ip:ip? oc-inet:ipv4-address
| | | | | +--ro oc-ip:link-layer-address oc-yang:phys-address
| | | | | +--ro oc-ip:origin? neighbor-origin
| | | +--rw oc-ip:config
| | | | +--rw oc-ip:mtu? uint16
| | | | +--rw extr-ip-ext:neighbor-reachabletime? uint16
| | | +--ro oc-ip:state
| | | | +--ro oc-ip:mtu? uint16
| | | | +--ro oc-ip:counters
| | | | | +--ro oc-ip:in-pkts? oc-yang:counter64
| | | | | +--ro oc-ip:in-octets? oc-yang:counter64
| | | | | +--ro oc-ip:in-error-pkts? oc-yang:counter64
| | | | | +--ro oc-ip:in-forwarded-pkts? oc-yang:counter64
| | | | | +--ro oc-ip:in-forwarded-octets? oc-yang:counter64
| | | | | +--ro oc-ip:in-discarded-pkts? oc-yang:counter64
| | | | | +--ro oc-ip:out-pkts? oc-yang:counter64
| | | | | +--ro oc-ip:out-octets? oc-yang:counter64
| | | | | +--ro oc-ip:out-error-pkts? oc-yang:counter64

```

```

| | | +--ro oc-ip:out-forwarded-pkts?  oc-yang:counter64
| | | +--ro oc-ip:out-forwarded-octets? oc-yang:counter64
| | | +--ro oc-ip:out-discarded-pkts?  oc-yang:counter64
| | +--ro extr-ip-ext:neighbor-reachable-time? uint16
| +--rw oc-ip:ipv6
|   +--rw oc-ip:addresses
|     | +--rw oc-ip:address* [ip]
|     |   +--rw oc-ip:ip      -> ../config/ip
|     |   +--rw oc-ip:config
|     |     | +--rw oc-ip:ip?          oc-inet:ipv6-address
|     |     | +--rw oc-ip:prefix-length  uint8
|     |     | +--rw extr-ip-ext:secondary?  boolean
|     |     | +--rw extr-ip-ext:anycast-gateway? boolean
|     |     | +--rw extr-ip-ext:eui-64?    boolean
|     |   +--ro oc-ip:state
|     |     +--ro oc-ip:ip?          oc-inet:ipv6-address
|     |     +--ro oc-ip:prefix-length  uint8
|     |     +--ro oc-ip:origin?        ip-address-origin
|     |     +--ro oc-ip:status?        enumeration
|     |     +--ro extr-ip-ext:secondary?  boolean
|     |     +--ro extr-ip-ext:anycast-gateway? boolean
|     |     +--ro extr-ip-ext:eui-64?    boolean
|   +--rw oc-ip:router-advertisement
|     | +--rw oc-ip:config
|     |   | +--rw oc-ip:enable?        boolean
|     |   | +--rw oc-ip:interval?      uint32
|     |   | +--rw oc-ip:lifetime?      uint32
|     |   | x--rw oc-ip:suppress?      boolean
|     |   | +--rw oc-ip:mode?          enumeration
|     |   | +--rw oc-ip:managed?       boolean
|     |   | +--rw oc-ip:other-config?  boolean
|     |   | +--rw extr-ip-ext:min-interval? uint32
|     |   | +--rw extr-ip-ext:hop-limit?  uint8
|     |   +--ro oc-ip:state
|     |     +--ro oc-ip:enable?        boolean
|     |     +--ro oc-ip:interval?      uint32
|     |     +--ro oc-ip:lifetime?      uint32
|     |     x--ro oc-ip:suppress?      boolean
|     |     +--ro oc-ip:mode?          enumeration
|     |     +--ro oc-ip:managed?       boolean
|     |     +--ro oc-ip:other-config?  boolean
|     |     +--ro extr-ip-ext:min-interval? uint32

```

```

| | | +--ro extr-ip-ext:hop-limit?    uint8
| | | +--ro extr-ip-ext:last-ra-tx?   oc-types:timeticks64
| | | +--ro extr-ip-ext:next-ra-tx?   oc-types:timeticks64
| | +--rw oc-ip:prefixes
| |   +--rw oc-ip:prefix* [prefix]
| |     +--rw oc-ip:prefix  -> ../config/prefix
| |     +--rw oc-ip:config
| |       | +--rw oc-ip:prefix?          oc-inet:ipv6-prefix
| |       | +--rw oc-ip:valid-lifetime?   uint32
| |       | +--rw oc-ip:preferred-lifetime? uint32
| |       | +--rw oc-ip:disable-advertisement? boolean
| |       | +--rw oc-ip:disable-autoconfiguration? boolean
| |       | +--rw oc-ip:enable-onlink?    boolean
| |     +--ro oc-ip:state
| |       +--ro oc-ip:prefix?          oc-inet:ipv6-prefix
| |       +--ro oc-ip:valid-lifetime?   uint32
| |       +--ro oc-ip:preferred-lifetime? uint32
| |       +--ro oc-ip:disable-advertisement? boolean
| |       +--ro oc-ip:disable-autoconfiguration? boolean
| |       +--ro oc-ip:enable-onlink?    boolean
| +--rw oc-ip:neighbors
| |   +--rw oc-ip:neighbor* [ip]
| |     +--rw oc-ip:ip  -> ../config/ip
| |     +--rw oc-ip:config
| |       | +--rw oc-ip:ip?          oc-inet:ipv6-address
| |       | +--rw oc-ip:link-layer-address oc-yang:phys-address
| |     +--ro oc-ip:state
| |       +--ro oc-ip:ip?          oc-inet:ipv6-address
| |       +--ro oc-ip:link-layer-address oc-yang:phys-address
| |       +--ro oc-ip:origin?      neighbor-origin
| |       +--ro oc-ip:is-router?    boolean
| |       +--ro oc-ip:neighbor-state? enumeration
| +--rw oc-ip:config
| |   +--rw oc-ip:mtu?          uint32
| |   +--rw oc-ip:dup-addr-detect-transmits? uint32
| |   +--rw extr-ip-ext:neighbor-reachable-time? uint16
| +--ro oc-ip:state
| |   +--ro oc-ip:mtu?          uint32
| |   +--ro oc-ip:dup-addr-detect-transmits? uint32
| +--ro oc-ip:counters
| |   +--ro oc-ip:in-pkts?      oc-yang:counter64
| |   +--ro oc-ip:in-octets?    oc-yang:counter64

```

```

| | +--ro oc-ip:in-error-pkts?      oc-yang:counter64
| | +--ro oc-ip:in-forwarded-pkts?  oc-yang:counter64
| | +--ro oc-ip:in-forwarded-octets? oc-yang:counter64
| | +--ro oc-ip:in-discarded-pkts?  oc-yang:counter64
| | +--ro oc-ip:out-pkts?           oc-yang:counter64
| | +--ro oc-ip:out-octets?         oc-yang:counter64
| | +--ro oc-ip:out-error-pkts?     oc-yang:counter64
| | +--ro oc-ip:out-forwarded-pkts? oc-yang:counter64
| | +--ro oc-ip:out-forwarded-octets? oc-yang:counter64
| | +--ro oc-ip:out-discarded-pkts? oc-yang:counter64
|   +--ro extr-ip-ext:neighbor-reachabletime? uint16
+--rw oc-line-com:sonet
+--rw oc-tun:tunnel
| +--rw oc-tun:config
| | +--rw oc-tun:src?      oc-inet:ip-address
| | +--rw oc-tun:dst?      oc-inet:ip-address
| | +--rw oc-tun:ttl?      uint8
| | +--rw extr-if-tun-ext:nve? extr-overlay-net:base-nve-ref
| +--ro oc-tun:state
| | +--ro oc-tun:src?      oc-inet:ip-address
| | +--ro oc-tun:dst?      oc-inet:ip-address
| | +--ro oc-tun:ttl?      uint8
| | +--ro extr-if-tun-ext:nve? extr-overlay-net:base-nve-ref
| | +--ro extr-if-tun-ext:nexthops* [ip vrf]
| | | +--ro extr-if-tun-ext:ip      oc-inet:ip-address
| | | +--ro extr-if-tun-ext:vrf      oc-ni:network-instance-ref
| | | +--ro extr-if-tun-ext:l3-interface? oc-if:base-interface-ref
| | | +--ro extr-if-tun-ext:mac-address? oc-yang:mac-address
| | | +--ro extr-if-tun-ext:l2-interface? oc-if:base-interface-ref
| | | +--ro extr-if-tun-ext:bridge-domain? oc-ni:network-instance-ref
| | +--ro extr-if-tun-ext:config-source? identityref
| +--rw oc-tun:ipv4
| | +--rw oc-tun:addresses
| | | +--rw oc-tun:address* [ip]
| | |   +--rw oc-tun:ip      -> ../config/ip
| | |   +--rw oc-tun:config
| | |     | +--rw oc-tun:ip?      oc-inet:ipv4-address
| | |     | +--rw oc-tun:prefix-length? uint8
| | |     +--ro oc-tun:state
| | |       +--ro oc-tun:ip?      oc-inet:ipv4-address
| | |       +--ro oc-tun:prefix-length? uint8
| | |       +--ro oc-tun:origin?   ip-address-origin

```



```

| | |   +--ro extr-ip-ext:secondary?  boolean
| | |   +--ro extr-ip-ext:status?    enumeration
| | +--rw oc-tun:neighbors
| | | +--rw oc-tun:neighbor* [ip]
| | |   +--rw oc-tun:ip      -> ../config/ip
| | |   +--rw oc-tun:config
| | |   | +--rw oc-tun:ip?          oc-inet:ipv4-address
| | |   | +--rw oc-tun:link-layer-address  oc-yang:phys-address
| | |   +--ro oc-tun:state
| | |   +--ro oc-tun:ip?          oc-inet:ipv4-address
| | |   +--ro oc-tun:link-layer-address  oc-yang:phys-address
| | |   +--ro oc-tun:origin?      neighbor-origin
| | +--rw oc-tun:config
| | | +--rw oc-tun:mtu?  uint16
| | +--ro oc-tun:state
| | | +--ro oc-tun:mtu?    uint16
| | | +--ro oc-tun:counters
| | |   +--ro oc-tun:in-pkts?      oc-yang:counter64
| | |   +--ro oc-tun:in-octets?    oc-yang:counter64
| | |   +--ro oc-tun:in-error-pkts?  oc-yang:counter64
| | |   +--ro oc-tun:in-forwarded-pkts?  oc-yang:counter64
| | |   +--ro oc-tun:in-forwarded-octets?  oc-yang:counter64
| | |   +--ro oc-tun:in-discarded-pkts?  oc-yang:counter64
| | |   +--ro oc-tun:out-pkts?      oc-yang:counter64
| | |   +--ro oc-tun:out-octets?    oc-yang:counter64
| | |   +--ro oc-tun:out-error-pkts?  oc-yang:counter64
| | |   +--ro oc-tun:out-forwarded-pkts?  oc-yang:counter64
| | |   +--ro oc-tun:out-forwarded-octets?  oc-yang:counter64
| | |   +--ro oc-tun:out-discarded-pkts?  oc-yang:counter64
| +--rw oc-tun:ipv6
| | +--rw oc-tun:addresses
| | | +--rw oc-tun:address* [ip]
| | |   +--rw oc-tun:ip      -> ../config/ip
| | |   +--rw oc-tun:config
| | |   | +--rw oc-tun:ip?          oc-inet:ipv6-address
| | |   | +--rw oc-tun:prefix-length  uint8
| | |   +--ro oc-tun:state
| | |   +--ro oc-tun:ip?          oc-inet:ipv6-address
| | |   +--ro oc-tun:prefix-length  uint8
| | |   +--ro oc-tun:origin?      ip-address-origin
| | |   +--ro oc-tun:status?      enumeration
| | +--rw oc-tun:neighbors

```

```

| | +--rw oc-tun:neighbor* [ip]
| |   +--rw oc-tun:ip      -> ../config/ip
| |   +--rw oc-tun:config
| |     | +--rw oc-tun:ip?          oc-inet:ipv6-address
| |     | +--rw oc-tun:link-layer-address  oc-yang:phys-address
| |     +--ro oc-tun:state
| |       +--ro oc-tun:ip?          oc-inet:ipv6-address
| |       +--ro oc-tun:link-layer-address  oc-yang:phys-address
| |       +--ro oc-tun:origin?       neighbor-origin
| |       +--ro oc-tun:is-router?     boolean
| |       +--ro oc-tun:neighbor-state? enumeration
| +--rw oc-tun:config
| | +--rw oc-tun:mtu?  uint32
| +--ro oc-tun:state
| | +--ro oc-tun:mtu?    uint32
| | +--ro oc-tun:counters
| |   +--ro oc-tun:in-pkts?      oc-yang:counter64
| |   +--ro oc-tun:in-octets?    oc-yang:counter64
| |   +--ro oc-tun:in-error-pkts?  oc-yang:counter64
| |   +--ro oc-tun:in-forwarded-pkts?  oc-yang:counter64
| |   +--ro oc-tun:in-forwarded-octets?  oc-yang:counter64
| |   +--ro oc-tun:in-discarded-pkts?  oc-yang:counter64
| |   +--ro oc-tun:out-pkts?      oc-yang:counter64
| |   +--ro oc-tun:out-octets?    oc-yang:counter64
| |   +--ro oc-tun:out-error-pkts?  oc-yang:counter64
| |   +--ro oc-tun:out-forwarded-pkts?  oc-yang:counter64
| |   +--ro oc-tun:out-forwarded-octets?  oc-yang:counter64
| |   +--ro oc-tun:out-discarded-pkts?  oc-yang:counter64
+--rw extr-mirror:mirrors
  +--rw extr-mirror:mirror* [name direction]
  +--rw extr-mirror:name      string
  +--rw extr-mirror:direction  identityref
  +--rw extr-mirror:config
  | +--rw extr-mirror:name?    string
  | +--rw extr-mirror:direction?  identityref
  +--rw extr-mirror:state
  | +--rw extr-mirror:name?    string
  | +--rw extr-mirror:direction?  identityref

```

module: openconfig-ethernet-segments

```

+--rw ethernet-segments
  +--rw ethernet-segment* [name]

```

```

+--rw name      -> ../config/name
+--rw config
| +--rw name?      string
| +--rw esi-type?  oc-evpn-types:esi-type
| +--rw esi?       union
| +--rw redundancy-mode? identityref
| +--rw interface? -> /oc-if:interfaces/interface/name
|   +--rw subinterface? -> /oc-if:interfaces/interface[oc-
if:name=current()/../interface]/subinterfaces/subinterface/index
+--ro state
| +--ro name?      string
| +--ro esi-type?  oc-evpn-types:esi-type
| +--ro esi?       union
| +--ro redundancy-mode? identityref
| +--ro interface? -> /oc-if:interfaces/interface/name
|   +--ro subinterface? -> /oc-if:interfaces/interface[oc-
if:name=current()/../interface]/subinterfaces/subinterface/index
+--rw df-election
+--rw config
| +--rw df-election-method? enumeration
| +--rw preference?      uint16
| +--rw revertive?       boolean
| +--rw election-wait-time? uint32
+--ro state
+--ro df-election-method? enumeration
+--ro preference?      uint16
+--ro revertive?       boolean
+--ro election-wait-time? uint32

```

module: openconfig-routing-policy

```

+--rw routing-policy
+--rw defined-sets
| +--rw prefix-sets
| | +--rw prefix-set* [name]
| |   +--rw name      -> ../config/name
| |   +--rw config
| | | +--rw name? string
| | | +--rw mode? enumeration
| | +--ro state
| | | +--ro name? string
| | | +--ro mode? enumeration
| | +--rw prefixes

```

```

| | +--rw prefix* [ip-prefix masklength-range]
| |   +--rw ip-prefix      -> ../config/ip-prefix
| |   +--rw masklength-range -> ../config/masklength-range
| |   +--rw config
| |     | +--rw ip-prefix      oc-inet:ip-prefix
| |     | +--rw masklength-range? string
| |     +--ro state
| |       +--ro ip-prefix      oc-inet:ip-prefix
| |       +--ro masklength-range? string
| +--rw oc-bgp-pol:bgp-defined-sets
|   +--rw oc-bgp-pol:community-sets
|     | +--rw oc-bgp-pol:community-set* [community-set-name]
|     |   +--rw oc-bgp-pol:community-set-name -> ../config/community-set-name
|     |   +--rw oc-bgp-pol:config
|     |     | +--rw oc-bgp-pol:community-set-name string
|     |     | +--rw oc-bgp-pol:community-member* union
|     |     | x--rw oc-bgp-pol:match-set-options? oc-pol-types:match-set-options-type
|     |     +--ro oc-bgp-pol:state
|     |       +--ro oc-bgp-pol:community-set-name string
|     |       +--ro oc-bgp-pol:community-member* union
|     |       x--ro oc-bgp-pol:match-set-options? oc-pol-types:match-set-options-type
|     +--rw oc-bgp-pol:ext-community-sets
|       | +--rw oc-bgp-pol:ext-community-set* [ext-community-set-name]
|       |   +--rw oc-bgp-pol:ext-community-set-name -> ../config/ext-community-set-name
|       |   +--rw oc-bgp-pol:config
|       |     | +--rw oc-bgp-pol:ext-community-set-name? string
|       |     | +--rw oc-bgp-pol:ext-community-member* union
|       |     | x--rw oc-bgp-pol:match-set-options? oc-pol-types:match-set-options-type
|       |     +--ro oc-bgp-pol:state
|       |       +--ro oc-bgp-pol:ext-community-set-name? string
|       |       +--ro oc-bgp-pol:ext-community-member* union
|       |       x--ro oc-bgp-pol:match-set-options? oc-pol-types:match-set-options-type
|     +--rw oc-bgp-pol:as-path-sets
|       +--rw oc-bgp-pol:as-path-set* [as-path-set-name]
|       +--rw oc-bgp-pol:as-path-set-name -> ../config/as-path-set-name
|       +--rw oc-bgp-pol:config
|         | +--rw oc-bgp-pol:as-path-set-name? string
|         | +--rw oc-bgp-pol:as-path-set-member* string
|         +--ro oc-bgp-pol:state
|           +--ro oc-bgp-pol:as-path-set-name? string
|           +--ro oc-bgp-pol:as-path-set-member* string
+--rw policy-definitions

```

```

+--rw policy-definition* [name]
  +--rw name      -> ../config/name
  +--rw config
    | +--rw name?  string
    +--ro state
    | +--ro name?  string
  +--rw statements
    +--rw statement* [name]
      +--rw name      -> ../config/name
      +--rw config
        | +--rw name?  string
        +--ro state
        | +--ro name?  string
        +--rw conditions
          | +--rw match-prefix-set
          | | +--rw config
          | | | +--rw prefix-set?      -> ../../../../defined-sets/prefix-sets/prefix-
set/config/name
          | | | +--rw match-set-options? oc-pol-types:match-set-options-restricted-type
          | | +--ro state
          | | +--ro prefix-set?      -> ../../../../defined-sets/prefix-sets/prefix-
set/config/name
          | | +--ro match-set-options? oc-pol-types:match-set-options-restricted-type
          | +--rw oc-isis-pol:isis-conditions
          | | +--rw oc-isis-pol:config
          | | | +--rw oc-isis-pol:level-eq?  isis-types:level-number
          | | +--ro oc-isis-pol:state
          | | +--ro oc-isis-pol:level-eq?  isis-types:level-number
          | +--rw oc-ni-pol:match-protocol-instance
          | | +--rw oc-ni-pol:config
          | | | +--rw oc-ni-pol:protocol-identifier?  identityref
          | | | +--rw oc-ni-pol:protocol-name?      string
          | | +--ro oc-ni-pol:state
          | | +--ro oc-ni-pol:protocol-identifier?  identityref
          | | +--ro oc-ni-pol:protocol-name?      string
          | +--rw oc-ospf-pol:ospf-conditions
          | | +--rw oc-ospf-pol:config
          | | | +--rw oc-ospf-pol:area-eq?  oc-ospf-types:ospf-area-identifier
          | | +--ro oc-ospf-pol:state
          | | +--ro oc-ospf-pol:area-eq?  oc-ospf-types:ospf-area-identifier
          | +--rw oc-bgp-pol:bgp-conditions
          | +--rw oc-bgp-pol:config

```

```

| | +--rw oc-bgp-pol:med-eq?      uint32
| | +--rw oc-bgp-pol:origin-eq?   oc-bgp-types:bgp-origin-attr-type
| | +--rw oc-bgp-pol:next-hop-in*  oc-inet:ip-address
| | +--rw oc-bgp-pol:afi-safi-in*  identityref
| | +--rw oc-bgp-pol:local-pref-eq? uint32
| | +--rw oc-bgp-pol:route-type?   enumeration
| | x--rw oc-bgp-pol:community-set? -> /oc-rpol:routing-policy/defined-sets/oc-bgp-
pol:bgp-defined-sets/community-sets/community-set/community-set-name
| | x--rw oc-bgp-pol:ext-community-set? -> /oc-rpol:routing-policy/defined-sets/oc-
bgp-pol:bgp-defined-sets/ext-community-sets/ext-community-set/ext-community-set-name
| +--ro oc-bgp-pol:state
| | +--ro oc-bgp-pol:med-eq?      uint32
| | +--ro oc-bgp-pol:origin-eq?   oc-bgp-types:bgp-origin-attr-type
| | +--ro oc-bgp-pol:next-hop-in*  oc-inet:ip-address
| | +--ro oc-bgp-pol:afi-safi-in*  identityref
| | +--ro oc-bgp-pol:local-pref-eq? uint32
| | +--ro oc-bgp-pol:route-type?   enumeration
| | x--ro oc-bgp-pol:community-set? -> /oc-rpol:routing-policy/defined-sets/oc-bgp-
pol:bgp-defined-sets/community-sets/community-set/community-set-name
| | x--ro oc-bgp-pol:ext-community-set? -> /oc-rpol:routing-policy/defined-sets/oc-
bgp-pol:bgp-defined-sets/ext-community-sets/ext-community-set/ext-community-set-name
| +--rw oc-bgp-pol:match-as-path-set
| +--rw oc-bgp-pol:config
| | +--rw oc-bgp-pol:as-path-set? -> /oc-rpol:routing-policy/defined-sets/oc-bgp-
pol:bgp-defined-sets/as-path-sets/as-path-set/as-path-set-name
| | +--rw oc-bgp-pol:match-set-options? oc-pol-types:match-set-options-type
| +--ro oc-bgp-pol:state
| +--ro oc-bgp-pol:as-path-set? -> /oc-rpol:routing-policy/defined-sets/oc-bgp-
pol:bgp-defined-sets/as-path-sets/as-path-set/as-path-set-name
| +--ro oc-bgp-pol:match-set-options? oc-pol-types:match-set-options-type
+--rw actions
+--rw config
| +--rw policy-result? policy-result-type
+--ro state
| +--ro policy-result? policy-result-type
+--rw oc-isis-pol:isis-actions
| +--rw oc-isis-pol:config
| | +--rw oc-isis-pol:set-level?   isis-types:level-number
| | +--rw oc-isis-pol:set-metric-type? isis-types:metric-type
| | +--rw oc-isis-pol:set-metric?  isis-types:wide-metric
| +--ro oc-isis-pol:state
| +--ro oc-isis-pol:set-level?     isis-types:level-number

```

```

|   +--ro oc-isis-pol:set-metric-type?  isis-types:metric-type
|   +--ro oc-isis-pol:set-metric?       isis-types:wide-metric
+--rw oc-ospf-pol:ospf-actions
|   +--rw oc-ospf-pol:config
|   |   +--rw oc-ospf-pol:set-area?  oc-ospf-types:ospf-area-identifier
|   +--ro oc-ospf-pol:state
|   |   +--ro oc-ospf-pol:set-area?  oc-ospf-types:ospf-area-identifier
|   +--rw oc-ospf-pol:set-metric
|   |   +--rw oc-ospf-pol:config
|   |   |   +--rw oc-ospf-pol:metric-type?  enumeration
|   |   |   +--rw oc-ospf-pol:metric?       oc-ospf-types:ospf-metric
|   +--ro oc-ospf-pol:state
|   |   +--ro oc-ospf-pol:metric-type?  enumeration
|   |   +--ro oc-ospf-pol:metric?       oc-ospf-types:ospf-metric
+--rw oc-bgp-pol:bgp-actions
+--rw oc-bgp-pol:config
|   +--rw oc-bgp-pol:set-route-origin?  oc-bgp-types:bgp-origin-attr-type
|   +--rw oc-bgp-pol:set-local-pref?    uint32
|   +--rw oc-bgp-pol:set-next-hop?     bgp-next-hop-type
|   +--rw oc-bgp-pol:set-med?          bgp-set-med-type
+--ro oc-bgp-pol:state
|   +--ro oc-bgp-pol:set-route-origin?  oc-bgp-types:bgp-origin-attr-type
|   +--ro oc-bgp-pol:set-local-pref?    uint32
|   +--ro oc-bgp-pol:set-next-hop?     bgp-next-hop-type
|   +--ro oc-bgp-pol:set-med?          bgp-set-med-type
+--rw oc-bgp-pol:set-as-path-prepend
|   +--rw oc-bgp-pol:config
|   |   +--rw oc-bgp-pol:repeat-n?  uint8
|   |   +--rw oc-bgp-pol:asn?       oc-inet:as-number
|   +--ro oc-bgp-pol:state
|   |   +--ro oc-bgp-pol:repeat-n?  uint8
|   |   +--ro oc-bgp-pol:asn?       oc-inet:as-number
+--rw oc-bgp-pol:set-community
|   +--rw oc-bgp-pol:config
|   |   +--rw oc-bgp-pol:method?  enumeration
|   |   +--rw oc-bgp-pol:options? bgp-set-community-option-type
|   +--ro oc-bgp-pol:state
|   |   +--ro oc-bgp-pol:method?  enumeration
|   |   +--ro oc-bgp-pol:options? bgp-set-community-option-type
|   +--rw oc-bgp-pol:reference
|   |   +--rw oc-bgp-pol:config

```

```

| | x--rw oc-bgp-pol:community-set-ref? -> /oc-rpol:routing-policy/defined-sets/oc-
bgp-pol:bgp-defined-sets/community-sets/community-set/community-set-name
|   +--ro oc-bgp-pol:state
|     x--ro oc-bgp-pol:community-set-ref? -> /oc-rpol:routing-policy/defined-sets/oc-
bgp-pol:bgp-defined-sets/community-sets/community-set/community-set-name
+--rw oc-bgp-pol:set-ext-community
+--rw oc-bgp-pol:config
| +--rw oc-bgp-pol:method? enumeration
| +--rw oc-bgp-pol:options? bgp-set-community-option-type
+--ro oc-bgp-pol:state
| +--ro oc-bgp-pol:method? enumeration
| +--ro oc-bgp-pol:options? bgp-set-community-option-type
+--rw oc-bgp-pol:reference
+--rw oc-bgp-pol:config
|   x--rw oc-bgp-pol:ext-community-set-ref? -> /oc-rpol:routing-policy/defined-
sets/oc-bgp-pol:bgp-defined-sets/ext-community-sets/ext-community-set/ext-community-set-
name
+--ro oc-bgp-pol:state
+--ro oc-bgp-pol:ext-community-set-ref? -> /oc-rpol:routing-policy/defined-
sets/oc-bgp-pol:bgp-defined-sets/ext-community-sets/ext-community-set/ext-community-set-
name

```

module: openconfig-lldp

```

+--rw lldp
+--rw config
| +--rw enabled? boolean
| +--rw hello-timer? uint64
| +--rw suppress-tlv-advertisement* identityref
| +--rw system-name? string
| +--rw system-description? string
| +--rw chassis-id? string
| +--rw chassis-id-type? oc-lldp-types:chassis-id-type
| +--rw extr-lldp-ext:holdtime? uint16
| +--rw extr-lldp-ext:transmit? boolean
| +--rw extr-lldp-ext:receive? boolean
| +--rw extr-lldp-ext:management-address? oc-inet:ip-address
+--ro state
| +--ro enabled? boolean
| +--ro hello-timer? uint64
| +--ro suppress-tlv-advertisement* identityref
| +--ro system-name? string
| +--ro system-description? string

```



```

| +--ro chassis-id?          string
| +--ro chassis-id-type?     oc-lldp-types:chassis-id-type
| +--ro counters
| | +--ro frame-in?          yang:counter64
| | +--ro frame-out?         yang:counter64
| | +--ro frame-error-in?    yang:counter64
| | +--ro frame-discard?     yang:counter64
| | +--ro tlv-discard?       yang:counter64
| | +--ro tlv-unknown?       yang:counter64
| | +--ro last-clear?        yang:date-and-time
| | +--ro tlv-accepted?      yang:counter64
| | +--ro entries-aged-out?  yang:counter64
| +--ro extr-lldp-ext:holdtime?  uint16
| +--ro extr-lldp-ext:transmit?  boolean
| +--ro extr-lldp-ext:receive?   boolean
| +--ro extr-lldp-ext:management-address? oc-inet:ip-address
+--rw interfaces
+--rw interface* [name]
+--rw name                -> ../config/name
+--rw config
| +--rw name?              oc-if:base-interface-ref
| +--rw enabled?           boolean
| +--rw extr-lldp-ext:transmit?  boolean
| +--rw extr-lldp-ext:receive?   boolean
| +--rw extr-lldp-ext:management-address? oc-inet:ip-address
| +--rw extr-lldp-ext:suppress-tlv-advertisement* identityref
+--ro state
| +--ro name?              oc-if:base-interface-ref
| +--ro enabled?           boolean
| +--ro counters
| | +--ro frame-in?        yang:counter64
| | +--ro frame-out?       yang:counter64
| | +--ro frame-error-in?  yang:counter64
| | +--ro frame-discard?   yang:counter64
| | +--ro tlv-discard?     yang:counter64
| | +--ro tlv-unknown?     yang:counter64
| | +--ro last-clear?      yang:date-and-time
| | +--ro frame-error-out? yang:counter64
| +--ro extr-lldp-ext:transmit?  boolean
| +--ro extr-lldp-ext:receive?   boolean
| +--ro extr-lldp-ext:management-address? oc-inet:ip-address
| +--ro extr-lldp-ext:suppress-tlv-advertisement* identityref

```

```

+--ro neighbors
| +--ro neighbor* [id]
|   +--ro id      -> ../state/id
|   +--ro config
|   +--ro state
|     | +--ro system-name?      string
|     | +--ro system-description? string
|     | +--ro chassis-id?       string
|     | +--ro chassis-id-type?  oc-lldp-types:chassis-id-type
|     | +--ro id?               string
|     | +--ro last-update?       int64
|     | +--ro ttl?              uint16
|     | +--ro port-id?          string
|     | +--ro port-id-type?     oc-lldp-types:port-id-type
|     | +--ro port-description?  string
|     | +--ro management-address? string
|     | +--ro management-address-type? string
|   +--ro custom-tlvs
|     | +--ro tlv* [type oui oui-subtype]
|     |   +--ro type            -> ../state/type
|     |   +--ro oui             -> ../state/oui
|     |   +--ro oui-subtype     -> ../state/oui-subtype
|     |   +--ro config
|     |   +--ro state
|     |     | +--ro type?        int32
|     |     | +--ro oui?         string
|     |     | +--ro oui-subtype? string
|     |     | +--ro value?       binary
|     |     +--ro extr-lldp-ext:addresses
|     |       +--ro extr-lldp-ext:address* [ip]
|     |         +--ro extr-lldp-ext:ip    -> ../state/ip
|     |         +--ro extr-lldp-ext:state
|     |           +--ro extr-lldp-ext:ip?   oc-inet:ip-address
|     |           +--ro extr-lldp-ext:isis-state? string
|   +--ro capabilities
|     +--ro capability* [name]
|       +--ro name    -> ../state/name
|       +--ro config
|       +--ro state
|         +--ro name?  identityref
|         +--ro enabled? boolean
+--rw extr-lldp-ext:fabric-extend

```

```

+--rw extr-ldp-ext:config
| +--rw extr-ldp-ext:enabled?          boolean
| +--rw extr-ldp-ext:mtu?              uint16
| +--rw extr-ldp-ext:advertise-fabric-ip?  oc-inet:ip-address
| +--rw extr-ldp-ext:prefix-length?      uint8
| +--rw extr-ldp-ext:authentication-password? oc-types:routing-password
+--ro extr-ldp-ext:state
| +--ro extr-ldp-ext:enabled?          boolean
| +--ro extr-ldp-ext:mtu?              uint16
| +--ro extr-ldp-ext:advertise-fabric-ip?  oc-inet:ip-address
| +--ro extr-ldp-ext:prefix-length?      uint8
| +--ro extr-ldp-ext:authentication-password? oc-types:routing-password
+--rw extr-ldp-ext:remote-neighbors
  +--rw extr-ldp-ext:remote-neighbor* [name]
    +--rw extr-ldp-ext:name  -> ../config/name
    +--rw extr-ldp-ext:config
      | +--rw extr-ldp-ext:name?    string
      | +--rw extr-ldp-ext:ip?      oc-inet:ip-address
      | +--rw extr-ldp-ext:isis-metric? uint32
    +--ro extr-ldp-ext:state
      +--ro extr-ldp-ext:name?    string
      +--ro extr-ldp-ext:ip?      oc-inet:ip-address
      +--ro extr-ldp-ext:isis-metric? uint32
      +--ro extr-ldp-ext:status?   boolean

```

module: extreme-load-balance

```

+--rw load-balance
  +--rw ethernet
    | +--rw config
    | | +--rw load-balancing-method* ethernet-load-balancing-method
    | +--ro state
    | +--ro load-balancing-method* ethernet-load-balancing-method
  +--rw ip
    | +--rw config
    | | +--rw load-balancing-method* ip-load-balancing-method
    | +--ro state
    | +--ro load-balancing-method* ip-load-balancing-method
  +--rw ipv6
    +--rw config
    | +--rw load-balancing-method* ipv6-load-balancing-method
    +--ro state
    +--ro load-balancing-method* ipv6-load-balancing-method

```

module: extreme-mirror

```
+--rw mirrors
  +--rw mirror* [name]
    +--rw name          -> ../config/name
    +--rw config
      | +--rw name?      string
      | +--rw description? string
    +--ro state
      | +--ro name?      string
      | +--ro description? string
      | +--ro mirror-id? uint32
    +--rw mirror-dest-ports
      +--rw mirror-dest-port* [interface]
        +--rw interface -> ../config/interface
        +--rw config
          | +--rw interface? string
        +--ro state
          +--ro interface? string
```

module: extreme-overlay-networks

```
+--rw overlay-networks
  +--rw config
    | +--rw default-nve?      string
    | +--rw default-vni-offset? uint32
  +--ro state
    | +--ro default-nve?      string
    | +--ro default-vni-offset? uint32
  +--rw nvos
    | +--rw nvo* [name]
    |   +--rw name          -> ../config/name
    |   +--rw config
    |     | +--rw name?      string
    |     | +--rw member-nves* string
    |     | +--rw vni-domain? string
    |     | +--rw split-horizon? string
    |     +--ro state
    |       +--ro name?      string
    |       +--ro member-nves* string
    |       +--ro vni-domain? string
    |       +--ro split-horizon? string
  +--rw nves
```

```

| +--rw nve* [name]
|   +--rw name    -> ../config/name
|   +--rw config
|     | +--rw name?          string
|     | +--rw source-interface?  string
|     | +--rw source-subinterface? uint32
|     +--ro state
|       +--ro name?          string
|       +--ro source-interface?  string
|       +--ro source-subinterface? uint32
|       +--ro oper-status-ipv6?  identityref
|       +--ro oper-status-ipv4?  identityref
|       +--ro source-ipv4?       oc-inet:ip-address
|       +--ro source-ipv6?       oc-inet:ip-address
+--rw vni-domains
  +--rw vni-domain* [name]
    +--rw name    -> ../config/name
    +--rw config
    | +--rw name?      string
    | +--rw auto-offset? uint32
    +--ro state
      +--ro name?      string
      +--ro auto-offset? uint32

```

module: extreme-mlag

```

+--rw mlag
+--rw config
| +--rw keepalive-interval?  uint32
| +--rw keepalive-multiplier? uint16
| +--rw keepalive-delay?    uint32
| +--rw role?               mlag-role-type
| +--rw mac?                oc-yang:mac-address
| +--rw bringup-delay?      uint32
+--ro state
| +--ro keepalive-interval?  uint32
| +--ro keepalive-multiplier? uint16
| +--ro keepalive-delay?    uint32
| +--ro role?               mlag-role-type
| +--ro mac?                oc-yang:mac-address
| +--ro bringup-delay?      uint32
+--rw peers
| +--rw peer* [name]

```

```

|   +--rw name      -> ../config/name
|   +--rw config
|   |   +--rw name?          string
|   |   +--rw extend-netinst-mode?  enumeration
|   |   +--rw extend-net-instances* oc-ni:network-instance-ref
|   +--ro state
|   |   +--ro name?          string
|   |   +--ro extend-netinst-mode?  enumeration
|   |   +--ro extend-net-instances* oc-ni:network-instance-ref
|   |   +--ro mcp-state?      mlag-entity-state
|   |   +--ro peer-state?     mlag-entity-state
|   |   +--ro role?           mlag-role-type
|   |   +--ro mac?            oc-yang:mac-address
|   |   +--ro exception-state?  string
|   |   +--ro counters
|   |   |   +--ro mcp-transitions? oc-yang:counter64
|   |   |   +--ro restarts?       oc-yang:counter64
|   |   |   +--ro last-clear?     oc-types:timeticks64
|   +--rw keepalives
|   |   +--rw keepalive* [name]
|   |   +--rw name      -> ../config/name
|   |   +--rw config
|   |   |   +--rw name?          string
|   |   |   +--rw type?          mlag-keepalive-type
|   |   |   +--rw local-interface? oc-if:base-interface-ref
|   |   |   +--rw remote-address? oc-inet:ip-address
|   |   |   +--rw address-type?  keepalive-address-type
|   |   +--ro state
|   |   |   +--ro name?          string
|   |   |   +--ro type?          mlag-keepalive-type
|   |   |   +--ro local-interface? oc-if:base-interface-ref
|   |   |   +--ro remote-address? oc-inet:ip-address
|   |   |   +--ro address-type?  keepalive-address-type
|   |   |   +--ro keepalive-state? mlag-entity-state
|   |   |   +--ro fail-reason?   string
|   |   |   +--ro local-address? oc-inet:ip-address
|   |   |   +--ro first-rx?      oc-types:timeticks64
|   |   |   +--ro last-rx?      oc-types:timeticks64
|   |   +--ro counters
|   |   |   +--ro rx?            oc-yang:counter64
|   |   |   +--ro tx?            oc-yang:counter64
|   |   |   +--ro last-clear?    oc-types:timeticks64

```

```

|         | +--ro num-keepalive-transitions?  oc-yang:counter64
|         +--ro bfd
|         +--ro session-ld?   uint32
|         +--ro profile?     extr-bfd-ext:profile-ref
|         +--ro session-status? uint8
+--rw interfaces
| +--rw interface* [name]
|   +--rw name    -> ../config/name
|   +--rw config
|     | +--rw name?    oc-if:base-interface-ref
|     | +--rw auto?    boolean
|     | +--rw identifier? uint32
|     +--ro state
|       | +--ro name?    oc-if:base-interface-ref
|       | +--ro auto?    boolean
|       | +--ro identifier? uint32
|       +--rw peers
|         +--rw peer* [name]
|           +--rw name    -> /mlag/peers/peer/config/name
|           +--rw config
|             | +--rw name? string
|             +--ro state
|               +--ro name?      string
|               +--ro intf-state? mlag-entity-state
|               +--ro remote-intf-state? mlag-entity-state
|               +--ro cfg-members?  uint16
|               +--ro active-members? uint16
|               +--ro fail-reason?  string
|               +--ro counters
|                 +--ro num-peer-transitions? oc-yang:counter64
+--rw uplink-track-interfaces
  +--rw uplink-track-interface* [name]
    +--rw name    -> ../config/name
    +--rw config
      | +--rw name? oc-if:base-interface-ref
    +--ro state
      +--ro name? oc-if:base-interface-ref

```