



Extreme ONE OS Switching v22.2.1.0 YANG Reference Guide

OpenConfig Modules, Extensions, and Configuration
Paths

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December 2025

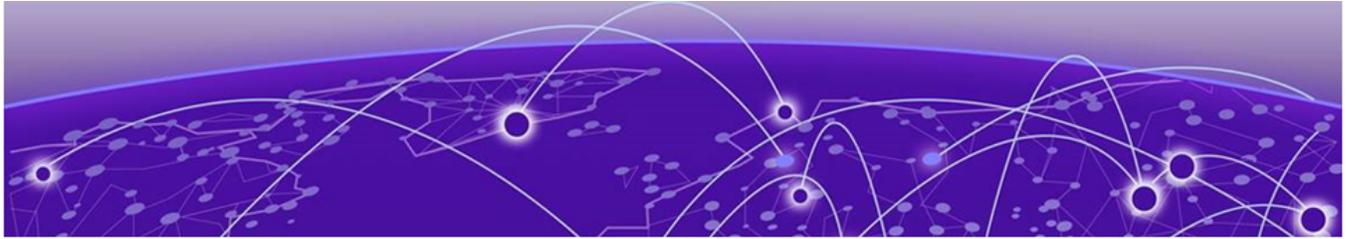


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Table of Contents

Legal Notices.....	4
Legal Notice.....	4
Trademarks.....	4
Open Source Declarations.....	4
Abstract.....	v
Preface.....	vi
Text Conventions.....	vi
Documentation and Training.....	vii
Open Source Declarations.....	viii
Training.....	viii
Help and Support.....	viii
Subscribe to Product Announcements.....	ix
Send Feedback.....	ix
What's New in this Document	10
Overview.....	11
Extreme ONE OS Base.....	11
Extreme ONE OS Switching.....	11
YANG Module - Extreme ONE OS Base.....	12
YANG Module - Extreme ONE OS Switching.....	53



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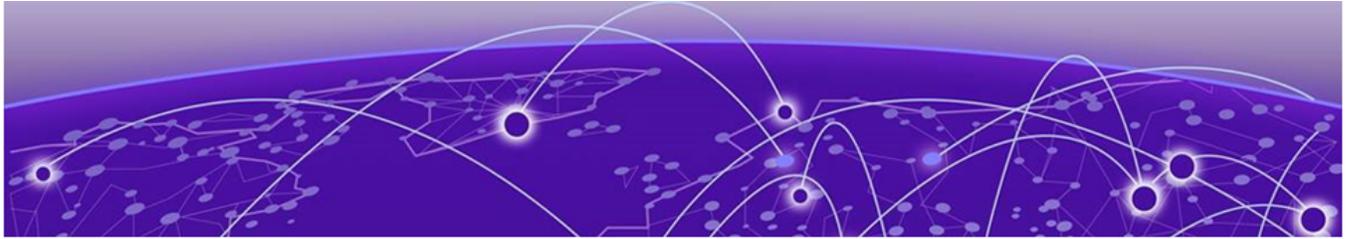
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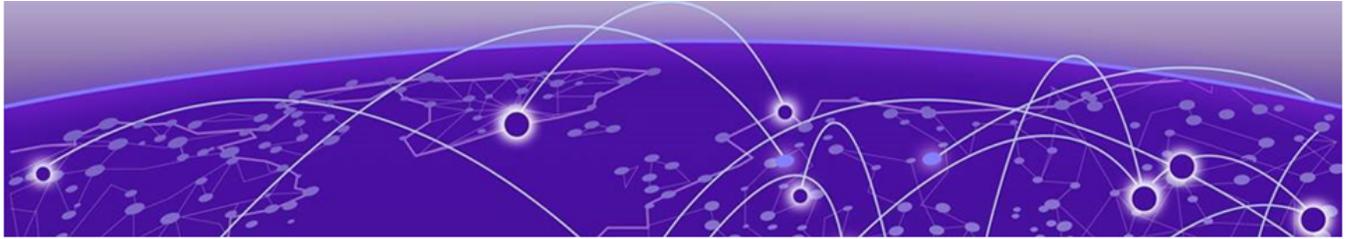
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Abstract

The Extreme ONE OS Switching v22.2.1.0 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.



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 Networks switches, the product is referred to as *the switch*.

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 or 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.

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[Current Product Documentation](#)

[Release Notes](#)

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A forum for Extreme Networks customers 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.

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

- Your Extreme Networks service contract number, or serial numbers for all involved Extreme Networks products
- A description of the failure
- A description of any actions 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

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

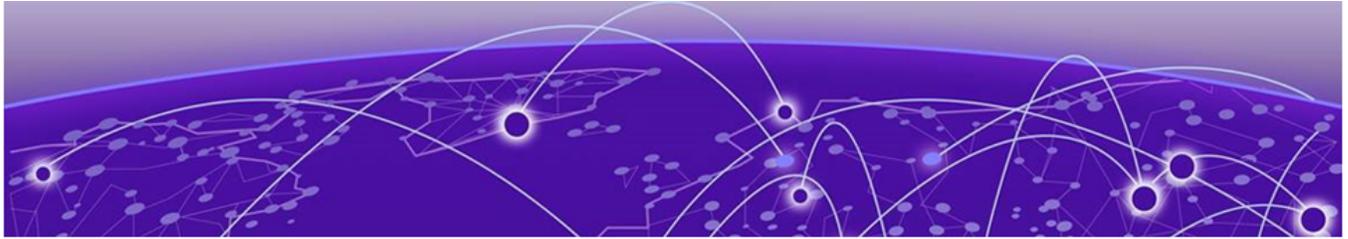
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- Content errors, or confusing or conflicting information.
- Improvements that would help you find relevant information.
- Broken links or usability issues.

To send feedback, email us at Product-Documentation@extremenetworks.com.

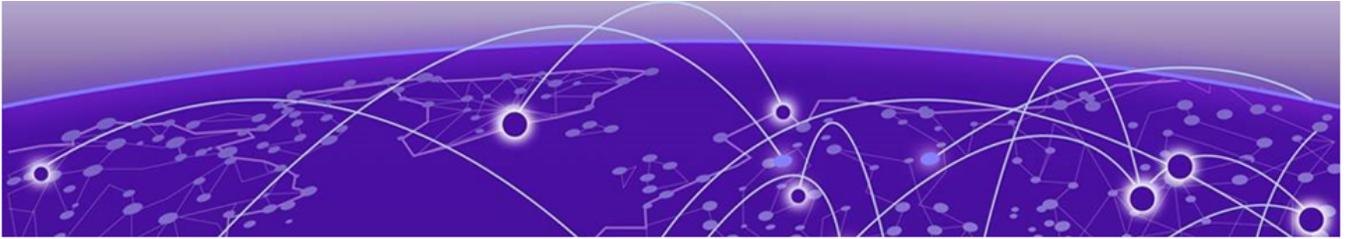
Provide as much detail as possible including the publication title, topic heading, and page number (if applicable), along with your comments and suggestions for improvement.



What's New in this Document

Extreme ONE OS Switching 22.2.1.0 supports Extreme 8520, Extreme 8720, Extreme 8730, and Extreme 8820 hardware platforms.

For more information about this release, see the *Extreme ONE OS Release Notes*.



Overview

Extreme ONE OS Switching 22.2.1.0 supports Extreme 8520, Extreme 8720, Extreme 8730, and Extreme 8820 hardware platforms.

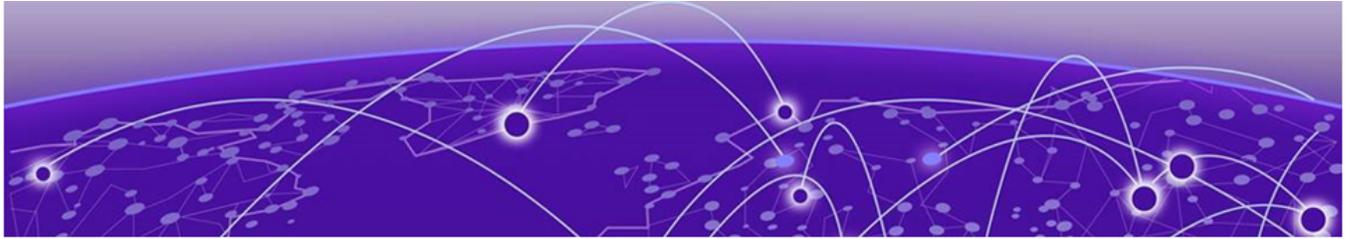
Extreme ONE OS leverages OpenConfig data models, extending them with augmentations and additional Extreme-specific YANG files that adhere to OpenConfig styling guidelines. The OS is divided into two primary components: Base OS and App.

Extreme ONE OS Base

Extreme ONE Base (Extreme ONE OS) is a standalone application that forms the base operating system for the supported hardware platforms. Extreme ONE Base is primarily for managing devices and does not provide networking protocols without the installation of additional applications such as Extreme ONE OS Switching.

Extreme ONE OS Switching

Extreme ONE OS Switching is an application that provides Switching and Routing functionality. Extreme ONE OS Switching extends the functionality of the base operating system (Extreme ONE OS) to add configurable switching and routing protocols such as QoS, EVPN for VXLAN, BGP, and so on.



YANG Module - Extreme ONE OS Base

Extreme ONE OS Base supports the following OpenConfig YANG data modules for v5.3.0:

- module: openconfig-network-instance
- module: openconfig-interfaces
- module: openconfig-lldp
- module: openconfig-system
- module: openconfig-keychain
- module: openconfig-platform

```

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/
            | +--rw address-family?             -> ../../../../tables/
            | +--rw dst-protocol?               -> ../../../../tables/table/config/
            | +--rw disable-metric-propagation? boolean
            | +--rw default-import-policy?     default-policy-type
  protocol
  table[protocol=current()/../src-protocol]/config/address-family
  protocol
  
```

```

|      +--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
|                 | +--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-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:dest-component* -> /oc-platform:components/
component/name
| | +--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:dest-component* -> /oc-platform:components/
component/name
| | +--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 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
| | | +--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* -> ../state/next-hop/
next-hops/next-hop/state/index
| | | +--ro extr-ni-tables-network-ext:protocol-next-hops* -> ../state/next-hop/
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-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
| | x--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-if-sdn:forwarding-viable?  boolean
| +--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 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

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```

| | | +--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-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: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: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

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| | +--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-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

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| | +--ro extr-eth-ext:interfaces-loopback-mode?          boolean
| +--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-lx:dot1x
| | +--rw oc-lx:config
| | | +--rw oc-lx:authenticate-port?      boolean
| | | +--rw oc-lx:host-mode?              enumeration
| | | +--rw oc-lx:reauthenticate-interval? uint16
| | | +--rw oc-lx:retransmit-interval?   uint16
| | | +--rw oc-lx:supplicant-timeout?    uint16
| | | +--rw oc-lx:max-requests?          uint16
| | | +--rw oc-lx:server-fail-vlan?      union
| | | +--rw oc-lx:auth-fail-vlan?        union
| | | +--ro oc-lx:state
| | |   +--ro oc-lx:authenticate-port?    boolean
| | |   +--ro oc-lx:host-mode?            enumeration
| | |   +--ro oc-lx:reauthenticate-interval? uint16
| | |   +--ro oc-lx:retransmit-interval?   uint16
| | |   +--ro oc-lx:supplicant-timeout?    uint16
| | |   +--ro oc-lx:max-requests?          uint16
| | |   +--ro oc-lx:server-fail-vlan?      union
| | |   +--ro oc-lx:auth-fail-vlan?        union
| +--rw oc-lx:authenticated-sessions
| | +--ro oc-lx:authenticated-session* [mac]
| | | +--ro oc-lx:mac          -> ../state/mac
| | | +--ro oc-lx:state
| | |   +--ro oc-lx:mac?          oc-yang:mac-address
| | |   +--ro oc-lx:session-id?   string
| | |   +--ro oc-lx:status?       enumeration
| +--rw extr-eth-ext:link-error-disable
| | +--rw extr-eth-ext:config
| | | +--rw extr-eth-ext:enabled?          boolean
| | | +--rw extr-eth-ext:toggle-threshold? uint16
| | | +--rw extr-eth-ext:sampling-time?    uint32
| | | +--rw extr-eth-ext:wait-time?        uint32
| | | +--ro extr-eth-ext:state
| | |   +--ro extr-eth-ext:enabled?          boolean
| | |   +--ro extr-eth-ext:toggle-threshold? uint16
| | |   +--ro extr-eth-ext:sampling-time?    uint32
| | |   +--ro extr-eth-ext:wait-time?        uint32
| | |   +--ro extr-eth-ext:active-status?    uint16
| | |   +--ro extr-eth-ext:last-updated?    oc-types:timeticks64
+--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
| | | +--rw extr-lag-ext:port-speed?        identityref
| +--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
| | +--ro extr-lag-ext:port-speed?        identityref

```

```

+--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

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| | |      +---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

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|         +--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-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 capabilities
  +--ro capability* [name]
    +--ro name      -> ../state/name
    +--ro config
    +--ro state
      +--ro name?    identityref
      +--ro enabled? boolean

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-upper-case?   passwd-attr-type
|       |       |       |       |   +--rw extr-aaa-ext:min-lower-case?   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-upper-case?   passwd-attr-type
|       |       |       |       |   +--ro extr-aaa-ext:min-lower-case?   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?
    | | | | +--rw source-address?
    | | | | +--rw network-instance?
instance-ref
    | | | | +--rw remote-port?
    | | | | +--rw tls-profile-id?
    | | | | +--rw extr-system-logging-ext:transport?
transport
    | | | | +--rw extr-system-logging-ext:secure-forwarding?
secure-forwarding
    | | | +--ro state
    | | | +--ro host?
    | | | +--ro source-address?
    | | | +--ro network-instance?
instance-ref
    | | | +--ro remote-port?
    | | | +--ro tls-profile-id?
    | | | +--ro extr-system-logging-ext:transport?
transport
    | | | +--ro extr-system-logging-ext:secure-forwarding?
secure-forwarding
    | | +--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-transport-security:transport-security
|   +--rw extr-sys-transport-security:tls
|     +--rw extr-sys-transport-security:config
|       | +--rw extr-sys-transport-security:min-version? identityref
|     +--ro extr-sys-transport-security:state
|       | +--ro extr-sys-transport-security:min-version? identityref
|     +--rw extr-sys-transport-security:services
|       +--rw extr-sys-transport-security:service* [service]
|         +--rw extr-sys-transport-security:service -> ../config/service
|         +--rw extr-sys-transport-security:config
|           | +--rw extr-sys-transport-security:service? identityref
|           | +--rw extr-sys-transport-security:min-version? identityref
|         +--ro extr-sys-transport-security:state
|           +--ro extr-sys-transport-security:service? identityref
|           +--ro extr-sys-transport-security:min-version? identityref
+--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
|     +--ro extr-sys-snmp:state
|       | +--ro 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
|       |   +--ro extr-sys-snmp:state

```

```

|     |     | +--ro extr-sys-snmp:name?      string
|     |     | +--ro 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
|     |             +--ro extr-sys-snmp:state
|     |                 +--ro extr-sys-snmp:hostname?      oc-inet-types:host
|     |                 +--ro extr-sys-snmp:community-or-user-name? string
|     |                 +--ro extr-sys-snmp:udp-port?      uint16
|     |                 +--ro extr-sys-snmp:version?       version-type
|     |                 +--ro 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
|     | | +--ro extr-sys-snmp:state
|     | | | +--ro 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
|     | | +--ro extr-sys-snmp:state
|     | | | +--ro extr-sys-snmp:name?            string
|     | | | +--ro extr-sys-snmp:auth            auth-type
|     | | | +--ro extr-sys-snmp:auth-password?  string
|     | | | +--ro extr-sys-snmp:auth-password-hashed? string
|     | | | +--ro extr-sys-snmp:priv?          priv-type
|     | | | +--ro extr-sys-snmp:priv-password?  string
|     | | | +--ro extr-sys-snmp:priv-password-hashed? 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-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:status?         ztp-dhcp-status
| | | +--ro extr-system-ztp:client-id?     string
+--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

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

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        | +--rw end-time?      oc-types:timeticks64
    +--ro state
        +--ro start-time?    oc-types:timeticks64
        +--ro end-time?      oc-types:timeticks64

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
      | x--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

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| | | +--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

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```

|           +---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
|   +---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
|   +---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 extr-port-config-ext:breakout-capabilities
|   |   +---rw extr-port-config-ext:breakout-capability* [index]
|   |   |   +---rw extr-port-config-ext:index    -> ../config/index
|   |   |   +---rw extr-port-config-ext:config
|   |   |   |   +---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 extr-port-config-ext:state
|         | +--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 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

```

time				+++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-
				+++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: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:wavelength?           uint64
|         +--ro extr-transceiver-ext:options?              uint64
|         +--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-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

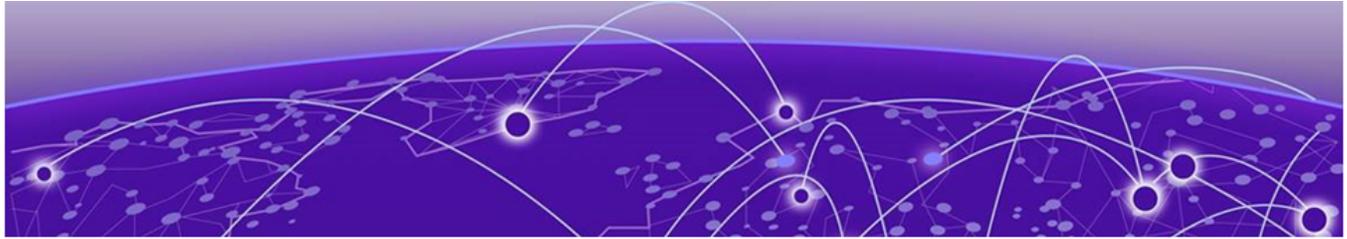
```

```

| | +--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 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 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
```



YANG Module - Extreme ONE OS Switching

Extreme ONE OS Switching supports the following OpenConfig YANG data modules for v5.3.0:

- module: openconfig-qos
- module: openconfig-bfd
- module: openconfig-acl
- module: openconfig-lacp
- module: openconfig-network-instance
- module: openconfig-system
- module: openconfig-interfaces
- module: openconfig-ethernet-segments
- module: openconfig-routing-policy
- module: openconfig-lldp
- module: extreme-load-balance
- module: extreme-mirror
- module: extreme-overlay-networks
- module: extreme-mlag

```
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
| |       |     | +--rw extr-qos-ext:drop-precedence?  extr-qos-types:drop-
precedence-level
| |       |     +--ro extr-qos-ext:state
| |       |       +--ro extr-qos-ext:cos?   uint8
| |       |       +--ro extr-qos-ext:traffic-class?  uint8
| |       |       +--ro extr-qos-ext:drop-precedence?  extr-qos-types:drop-
precedence-level
| |     +--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
| |           | +--rw extr-qos-ext:drop-precedence?  extr-qos-types:drop-
precedence-level
| |           +--ro extr-qos-ext:state
| |             +--ro extr-qos-ext:dscp?   oc-inet:dscp
| |             +--ro extr-qos-ext:traffic-class?  uint8
| |             +--ro extr-qos-ext:drop-precedence?  extr-qos-types:drop-
precedence-level
| |     +--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 drop-precedence]
|                 +--rw extr-qos-ext:traffic-class      -> ../config/traffic-class
|                 +--rw extr-qos-ext:drop-precedence    -> ../config/drop-precedence
|                 +--rw extr-qos-ext:config
|                     | +--rw extr-qos-ext:traffic-class?  uint8
|                     | +--rw extr-qos-ext:drop-precedence? extr-qos-types:drop-
precedence-level
|                     | +--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:drop-precedence? extr-qos-types:drop-
precedence-level
|                             +--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: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
code        |           | +--ro local-diagnostic-code?      bfd-diagnostic-
|           | +--ro remote-diagnostic-code?      bfd-diagnostic-
code        |           | +--ro remote-minimum-receive-interval?  uint32
|           | +--ro async
|           | | +--ro transmitted-packets?   uint64
|           | | +--ro received-packets?    uint64
|           | | x--ro up-transitions?      uint64
|           | +--ro extr-bfd-ext:session-id?   uint32
|           | +--ro extr-bfd-ext:vrf-name?    string
|           | +--ro extr-bfd-ext:remote-minimum-transmit-interval?  uint32
|           | +--ro extr-bfd-ext:remote-detection-multiplier?  uint32
|           | +--ro extr-bfd-ext:last-up-time?  oc-
types:timeticks64
|           | +--ro extr-bfd-ext:applied-profile?  string
|           +--ro extr-bfd-ext:profiles
|           +--ro extr-bfd-ext:profile* [subscribed-protocol]
|           +--ro extr-bfd-ext:subscribed-protocol -> ../state/subscribed-
protocol
|           +--ro extr-bfd-ext:state
|           +--ro extr-bfd-ext:subscribed-protocol?  identityref
|           +--ro extr-bfd-ext:proto-profiles*      string
+--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	
address		+++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-
		+++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	
address		+++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-
		+++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-
|   +---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-
|   +---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

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	+--ro collecting?	boolean
	+--ro distributing?	boolean
address	+--ro system-id?	oc-yang:mac-
	+--ro oper-key?	uint16
address	+--ro partner-id?	oc-yang:mac-
	+--ro partner-key?	uint16
	+--ro port-num?	uint16
	+--ro partner-port-num?	uint16
types:timeticks64	+--ro last-change?	oc-
	+--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
state	+--ro extr-lacp-ext:actor-churn-machine?	churn-machine-
	+--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

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|   +--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?            -> ../../../../vlans/vlan/config/vlan-id
|       |         +--ro state
|       |           |   +--ro mac-address?      oc-yang:mac-address
|       |           |   +--ro vlan?            -> ../../../../vlans/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

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|   +--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: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

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```

| | | +--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
| | | | +--ro extr-ni-evpn-ext:state
| | | | +--ro extr-ni-evpn-ext:move-count? uint32
| | | | +--ro extr-ni-evpn-ext:detection-time? uint32
| | | | +--ro 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
| | | | +--ro extr-ni-evpn-ext:state
| | | | +--ro extr-ni-evpn-ext:move-count? uint32
| | | | +--ro extr-ni-evpn-ext:detection-time? uint32
| | | | +--ro 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
| | | | +--ro extr-ni-evpn-ext:state
| | | | +--ro extr-ni-evpn-ext:move-count? uint32
| | | | +--ro extr-ni-evpn-ext:detection-time? uint32
| | | | +--ro extr-ni-evpn-ext:dampening-time? uint32
+--ro extr-ni-evpn-ext:bridge-domains
| | +--ro extr-ni-evpn-ext:bridge-domain* [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

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|           +--ro extr-ni-evpn-ext:active?  boolean
|           +--ro extr-ni-evpn-ext:name?    string
|           +--ro extr-ni-evpn-ext:linked?  boolean
+--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]

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```

|         +---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
ref				+--ro extr-bfd-ext:profile?	profile-
				+--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	


```

| | | | +--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

```



```

| | | +--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]
address | | | | +--rw extr-bgp-ext:neighbor-address -> ../config/neighbor-
| | | | +--rw extr-bgp-ext:config
| | | | | +--rw extr-bgp-ext:neighbor-address? oc-inet:ip-address
| | | | +--ro extr-bgp-ext:state
| | | | | +--ro 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 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 -> ../state/
peer-group-name
| | | | | | | | | | +--ro extr-rib-bgp-ext:state
| | | | | | | | | | | +--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?          -> ../../../../../../../../../../../../../../../../../../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]
state/ethernet-tag
|              |          |          +---ro extr-rib-bgp-ext:ethernet-tag  -> ../
state/mac-address
|              |          |          +---ro extr-rib-bgp-ext:mac-address  -> ../
state/mac-length
|              |          |          +---ro extr-rib-bgp-ext:mac-length  -> ../
state/ip-prefix
|              |          |          +---ro extr-rib-bgp-ext:ip-prefix  -> ../
state/ip-length
|              |          |          +---ro extr-rib-bgp-ext: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]
ip              |          |          |          +---ro extr-rib-bgp-ext:peer-
|              |          |          |          +---ro extr-rib-bgp-ext: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?            |          |          |          +---ro extr-rib-bgp-ext:peer-path-
|              |          |          |          |          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/	+++ro extr-rib-bgp-ext:community-
index				+++ro extr-rib-bgp-ext:ext-community-
index?			-> ../../../../../../../../../../../../../../../../../../communities/community/state/	+++ro extr-rib-bgp-ext:ext-community-
index?			-> ../../../../../../../../../../../../../../../../../../ext-communities/ext-community/	+++ro extr-rib-bgp-ext:multi-
state/index				+++ro extr-rib-bgp-
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
tag?			oc-evpn-types:ethernet-tag	+++ro extr-rib-bgp-ext:ethernet-
ip?			oc-inet:ip-prefix	+++ro extr-rib-bgp-ext:originating-router-
length?			uint32	+++ro extr-rib-bgp-ext:originator-ip-
path-id			source-route-distinguisher source-address-family	+++ro extr-rib-bgp-ext:paths
distinguisher			-> ../state/source-route-distinguisher	+++ro extr-rib-bgp-ext:path* [peer-ip peer-
family			-> ../state/source-address-family	+++ro extr-rib-bgp-ext:peer-
ip?			oc-inet:ip-address	+++ro extr-rib-bgp-ext:peer-path-
				+++ro extr-rib-bgp-ext:source-route-
				+++ro extr-rib-bgp-ext:source-address-
				+++ro extr-rib-bgp-ext:state
				+++ro extr-rib-bgp-ext:peer-

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

```



```

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      -> ../state/
peer-group-name
|         |         +---ro extr-rib-bgp-ext:state
|         |         | +---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/

```



```

|         +---ro extr-bgp-ext:ifname?          string
|         +---ro extr-bgp-ext:src-ip?          string
|         +---ro extr-bgp-ext:ifindex?         uint32
|         +---ro extr-bgp-ext:oper-state?      boolean
|         +---ro 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:route-infos
| |     +---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?
-> ../state/next-hop-groups/next-hop-group/state/id
| | |   +---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: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:route-infos
| |     +---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: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: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:route-infos
| | +--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:state
| | +--ro extr-ni-tables-network-ext:mac-address? oc-yang:mac-
address
| | +--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:route-infos
| | +--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:state
| | | +--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:state
| | | +--ro extr-ni-tables-network-ext:nbr-address? oc-inet:ipv4-
prefix
| | | +--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:route-infos
    | | | +--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:state
    | | | +--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:state
    | | +--ro extr-ni-tables-network-ext:nbr-address? oc-inet:ipv6-
prefix
    | | +--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
boolean
    | | +--ro extr-ni-tables-network-ext:secondary-active?
    | | +--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:state
    | | +--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
|   |   x--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-reachabletime? 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

```



```

| | +--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
|   |   +---rw extr-lag-ext:port-speed?               identityref
|   +---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
|   |   +---ro extr-lag-ext:port-speed?               identityref
+---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-reachable-time? 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-reachablename? 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-reachabletime? 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: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
| +--ro extr-if-tun-ext:nexthops
|   +--ro extr-if-tun-ext:nexthop* [ip vrf]
|     +--ro extr-if-tun-ext:ip      -> ../state/ip
|     +--ro extr-if-tun-ext:vrf    -> ../state/vrf
|     +--ro extr-if-tun-ext:state
|       +--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
+--rw extr-mirror:mirrors
  +--rw extr-mirror:mirror* [name direction]
    +--rw extr-mirror:name      -> ../config/name
    +--rw extr-mirror:direction -> ../config/direction
    +--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*   union
        | | | +--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*   union
        | | | +--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
| | +--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
    |      x--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 age?                             uint64
|   |   |   +--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-lldp-ext:config
    | +--rw extr-lldp-ext:enabled?          boolean
    | +--rw extr-lldp-ext:mtu?             uint16
    | +--rw extr-lldp-ext:advertise-fabric-ip? oc-inet:ip-address
    | +--rw extr-lldp-ext:prefix-length?   uint8
    | +--rw extr-lldp-ext:authentication-password? oc-types:routing-password
    +--ro extr-lldp-ext:state
    | +--ro extr-lldp-ext:enabled?          boolean
    | +--ro extr-lldp-ext:mtu?             uint16
    | +--ro extr-lldp-ext:advertise-fabric-ip? oc-inet:ip-address
    | +--ro extr-lldp-ext:prefix-length?   uint8
    | +--ro extr-lldp-ext:authentication-password? oc-types:routing-password
    +--rw extr-lldp-ext:remote-neighbors
    +--rw extr-lldp-ext:remote-neighbor* [name]
    +--rw extr-lldp-ext:name                -> ../config/name
    +--rw extr-lldp-ext:config
    | +--rw extr-lldp-ext:name?             string
    | +--rw extr-lldp-ext:ip?              oc-inet:ip-address
    | +--rw extr-lldp-ext:isis-metric?     uint32
    +--ro extr-lldp-ext:state
    +--ro extr-lldp-ext:name?              string
    +--ro extr-lldp-ext:ip?                oc-inet:ip-address
    +--ro extr-lldp-ext:isis-metric?       uint32
    +--ro extr-lldp-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

```



```
|           +--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
```