



Extreme OS ONE Switching and Routing v22.2.3.0 YANG Reference Guide

OpenConfig Modules, Extensions, and Configuration
Paths

9041126-00 Rev AA
August 2026



Copyright © 2026 Extreme Networks, Inc. All rights reserved.

Legal Notice

Extreme Networks, Inc. reserves the right to make changes in specifications and other information contained in this document and its website without prior notice. The reader should in all cases consult representatives of Extreme Networks to determine whether any such changes have been made.

The hardware, firmware, software or any specifications described or referred to in this document are subject to change without notice.

Trademarks

Extreme Networks and the Extreme Networks logo are trademarks or registered trademarks of Extreme Networks, Inc. in the United States and/or other countries.

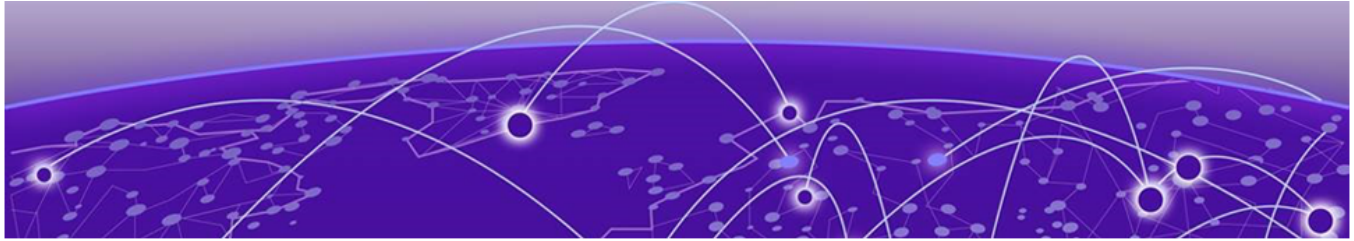
All other names (including any product names) mentioned in this document are the property of their respective owners and may be trademarks or registered trademarks of their respective companies/owners.

For additional information on Extreme Networks trademarks, see: <https://www.extremenetworks.com/about-extreme-networks/company/legal/trademarks>

Open Source Declarations

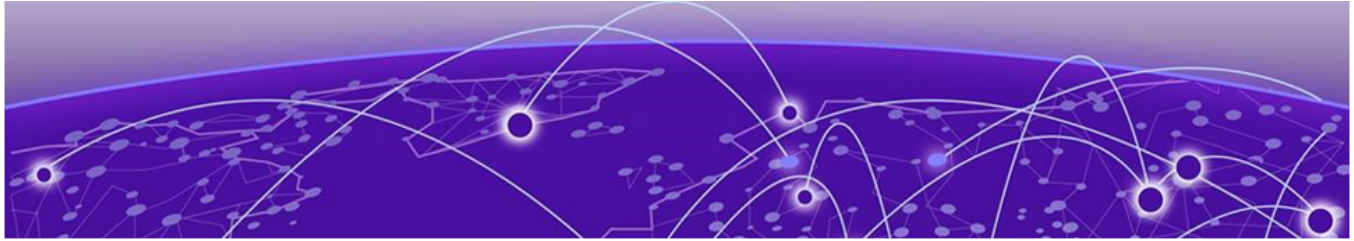
Some software files have been licensed under certain open source or third-party licenses.

End-user license agreements and open source declarations can be found at: <https://www.extremenetworks.com/support/policies/open-source-declaration/>



Abstract

The Extreme OS ONE Switching and Routing v22.2.3.0 YANG Reference Guide provides comprehensive technical specifications and implementation guidelines for YANG modules within Extreme OS ONE Switching and Routing. 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 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</i> text	Italic text indicates variable content.
[]	Syntax components displayed within square brackets are optional. Default responses to system prompts are enclosed in square brackets.
{ x y z }	A choice of required parameters is enclosed in curly brackets separated by vertical bars. You must select one of the options.
x y	A vertical bar separates mutually exclusive elements.
< >	Nonprinting characters, such as passwords, are enclosed in angle brackets.
...	Repeat the previous element, for example, <i>member[member...]</i> .
\	In command examples, the backslash indicates a “soft” line break. When a backslash separates two lines of a command input, enter the entire command at the prompt without the backslash.

Documentation and Training

Find Extreme Networks product information at the following locations:

[Current Product Documentation](#)

[Release Notes](#)

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

[Extreme Optics Compatibility](#)

[Other Resources](#) such as articles, white papers, and case studies

Open Source Declarations

Some software files have been licensed under certain open source licenses. Information is available on the [Open Source Declaration](#) page.

Training

Extreme Networks offers product training courses, both online and in person, as well as specialized certifications. For details, visit the [Extreme Networks Training](#) page.

Help and Support

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

[Extreme Portal](#)

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

[The Hub](#)

A forum for Extreme Networks 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.

[Call GTAC](#)

For immediate support: (800) 998 2408 (toll-free in U.S. and Canada) or 1 (408) 579 2800. For the support phone number in your country, visit www.extremenetworks.com/support/contact.

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

- Your Extreme Networks service contract number, 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

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

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

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

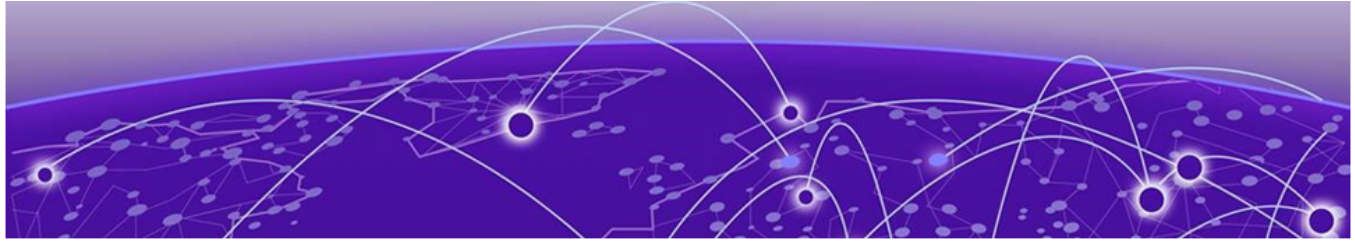
Send Feedback

The User Enablement team at Extreme Networks has made every effort to ensure that this document is accurate, complete, and easy to use. We strive to improve our documentation to help you in your work, so we want to hear from you. We welcome all feedback, but we especially want to know about:

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



Overview

Extreme OS ONE leverages OpenConfig data models, extending them with augmentations and additional Extreme-specific YANG files that adhere to OpenConfig styling guidelines.

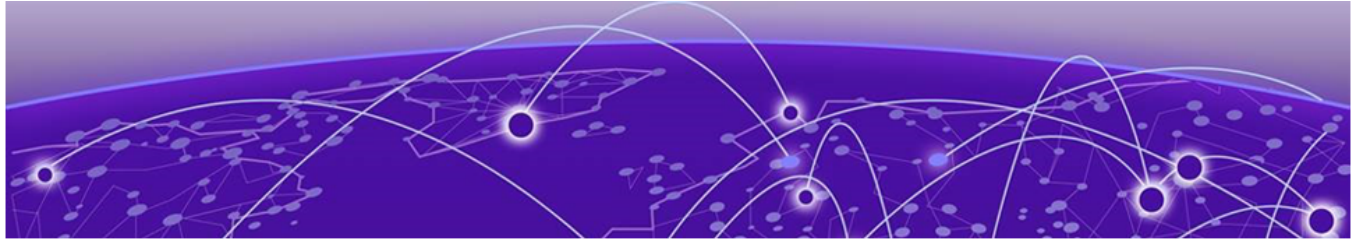
Device Capabilities

```
device# show grpc-server gnmi capabilities
gNMI version: 0.10.0
Supported YANG modules:
```

Module Name	Organization	Version
extreme-aaa-ext	Extreme Networks, Inc.	0.1.0
extreme-aaa-token-ext	Extreme Networks, Inc.	0.1.0
extreme-acl-ext	Extreme Networks, Inc.	0.2.0
extreme-acl-ipv4-ext	Extreme Networks, Inc.	0.1.0
extreme-acl-ipv6-ext	Extreme Networks, Inc.	0.1.0
extreme-acl-mac-ext	Extreme Networks, Inc.	0.1.0
extreme-bfd-ext	Extreme Networks, Inc.	0.1.0
extreme-bgp-ext	Extreme Networks, Inc.	0.2.0
extreme-certificate-manager-ext	Extreme Networks, Inc.	0.1.0
extreme-dhcp-relay	Extreme Networks, Inc.	0.1.0
extreme-eth-ext	Extreme Networks, Inc.	0.2.0
extreme-evpn-ext	Extreme Networks, Inc.	0.1.0
extreme-i2c-fault	Extreme Networks, Inc.	0.1.0
extreme-if-ext	Extreme Networks, Inc.	0.1.0
extreme-if-tun-ext	Extreme Networks, Inc.	0.1.0
extreme-ip-ext	Extreme Networks, Inc.	0.3.0
extreme-lacp-ext	Extreme Networks, Inc.	0.2.0
extreme-lag-ext	Extreme Networks, Inc.	0.1.0
extreme-lldp-ext	Extreme Networks, Inc.	0.3.0
extreme-load-balance	Extreme Networks, Inc.	0.1.0
extreme-mirror	Extreme Networks, Inc.	0.2.0
extreme-mlag	Extreme Networks, Inc.	0.2.0
extreme-ni-evpn-ext	Extreme Networks, Inc.	0.1.0
extreme-ni-tables-network-ext	Extreme Networks, Inc.	0.1.0
extreme-overlay-networks	Extreme Networks, Inc.	0.1.0
extreme-platform-bmc	Extreme Networks, Inc.	0.1.0
extreme-platform-common-ext	Extreme Networks, Inc.	0.1.0
extreme-port-config-ext	Extreme Networks, Inc.	0.1.0
extreme-qos-ext	Extreme Networks, Inc.	0.1.1
extreme-rib-bgp-ext	Extreme Networks, Inc.	0.3.0
extreme-rib-bgp-lcomm-ext	Extreme Networks, Inc.	0.1.0
extreme-static-bfd-ext	Extreme Networks, Inc.	0.1.0
extreme-stp-ext	Extreme Networks, Inc.	0.1.0
extreme-system-ext	Extreme Networks, Inc.	0.1.0
extreme-system-grpc-ext	Extreme Networks, Inc.	0.1.0
extreme-system-iah	Extreme Networks, Inc.	0.1.0
extreme-system-internal-ip	Extreme Networks, Inc.	0.1.0
extreme-system-logging-ext	Extreme Networks, Inc.	0.2.1
extreme-system-snmp	Extreme Networks, Inc.	0.4.0
extreme-system-terminal-ext	Extreme Networks, Inc.	0.1.0

extreme-system-transport-security	Extreme Networks, Inc.	0.1.0
extreme-system-ztp-ext	Extreme Networks, Inc.	0.2.0
extreme-transceiver	Extreme Networks, Inc.	0.2.0
extreme-vlan-ext	Extreme Networks, Inc.	0.1.0
openconfig-acl	OpenConfig working group	1.3.3
openconfig-bfd	OpenConfig working group	0.5.0
openconfig-bgp-policy	OpenConfig working group	8.2.0
openconfig-if-aggregate	OpenConfig working group	2.4.6
openconfig-if-ethernet	OpenConfig working group	2.17.0
openconfig-if-ethernet-ext	OpenConfig working group	0.1.1
openconfig-if-ip	OpenConfig working group	3.9.0
openconfig-if-ip-ext	OpenConfig working group	2.3.1
openconfig-if-tunnel	OpenConfig working group	0.1.1
openconfig-interfaces	OpenConfig working group	3.8.1
openconfig-keychain	OpenConfig working group	0.5.0
openconfig-lacp	OpenConfig working group	2.2.0
openconfig-lldp	OpenConfig working group	1.1.0
openconfig-network-instance	OpenConfig working group	4.6.0
openconfig-platform	OpenConfig working group	0.32.0
openconfig-platform-cpu	OpenConfig working group	0.1.1
openconfig-platform-fan	OpenConfig working group	0.2.0
openconfig-platform-port	OpenConfig working group	1.0.1
openconfig-platform-psu	OpenConfig working group	0.2.1
openconfig-platform-software	OpenConfig working group	0.1.1
openconfig-platform-transceiver	OpenConfig working group	1.0.0
openconfig-qos	OpenConfig working group	2.1.0
openconfig-relay-agent	OpenConfig working group	0.1.2
openconfig-rib-bgp-ext	OpenConfig working group	0.6.0
openconfig-routing-policy	OpenConfig working group	3.5.0
openconfig-spanning-tree	OpenConfig working group	0.3.1
openconfig-system	OpenConfig working group	3.1.0
openconfig-system-grpc	OpenConfig working group	1.1.0
openconfig-vlan	OpenConfig working group	3.2.2

Supported Encodings:
 PROTO
 JSON_IETF
 device#



YANG Module - Extreme OS ONE Switching and Routing

Extreme OS ONE Switching and Routing supports the following OpenConfig-v5.4.0 and Extreme YANG data modules:

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

```
module: openconfig-keychain
  +--rw keychains
    +--rw keychain* [name]
      +--rw name          -> ../config/name
      +--rw config
        | +--rw name?      string
        | +--rw tolerance? union
      +--ro state
        | +--ro name?      string
        | +--ro tolerance? union
      +--rw keys
        +--rw key* [key-id]
          +--rw key-id          -> ../config/key-id
          +--rw config
            | +--rw key-id?      union
            | +--rw secret-key?  string
            | +--rw crypto-algorithm? identityref
          +--ro state
            | +--ro key-id?      union
            | +--ro secret-key?  string
            | +--ro crypto-algorithm? identityref
```

```

    +--rw send-lifetime
    | +--rw config
    | | +--rw start-time?          oc-types:timeticks64
    | | +--rw end-time?            oc-types:timeticks64
    | | +--rw send-and-receive?    boolean
    | +--ro state
    |   +--ro start-time?          oc-types:timeticks64
    |   +--ro end-time?            oc-types:timeticks64
    |   +--ro send-and-receive?    boolean
    +--rw receive-lifetime
    | +--rw config
    | | +--rw start-time?          oc-types:timeticks64
    | | +--rw end-time?            oc-types:timeticks64
    | +--ro state
    |   +--ro start-time?          oc-types:timeticks64
    |   +--ro end-time?            oc-types:timeticks64

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

```

```

|         +--ro disable-metric-propagation?  boolean
|         +--ro default-import-policy?      default-policy-type
+--rw interfaces
|   +--rw interface* [id]
|     +--rw id          -> ../config/id
|     +--rw config
|       | +--rw id?          oc-if:interface-id
|       | +--rw interface?   -> /oc-if:interfaces/interface/name
|       | +--rw subinterface? -> /oc-if:interfaces/interface[oc-
if:name=current()../interface]/subinterfaces/subinterface/index
|       | +--rw associated-address-families* identityref
|       | +--rw mac-pinning?  boolean
|       | +--rw irb-anycast-gateway? enumeration
|       +--ro state
|         +--ro id?          oc-if:interface-id
|         +--ro interface?   -> /oc-if:interfaces/interface/name
|         +--ro subinterface? -> /oc-if:interfaces/interface[oc-
if:name=current()../interface]/subinterfaces/subinterface/index
|         +--ro associated-address-families* identityref
|         +--ro mac-pinning?  boolean
|         +--ro irb-anycast-gateway? enumeration
+--rw tables
|   +--rw table* [protocol address-family]
|     +--rw protocol          -> ../config/protocol
|     +--rw address-family    -> ../config/address-family
|     +--rw config
|       | +--rw protocol?     -> ../../../../protocols/protocol/config/
identifier
|       | +--rw address-family? identityref
|       +--ro state
|         +--ro protocol?     -> ../../../../protocols/protocol/config/
identifier
|         +--ro address-family? identityref
+--rw connection-points
|   +--rw connection-point* [connection-point-id]
|     +--rw connection-point-id -> ../config/connection-point-id
|     +--rw config
|       | +--rw connection-point-id? string
|       +--ro state
|         | +--rw 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
|                 | +--rw endpoint-id? string
|                 | +--rw precedence?  uint16
|                 | +--rw type?        identityref
|                 | +--rw 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: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: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:statistics
|      |      |      |      |      |      |      +--ro extr-ni-tables-network-ext:state
|      |      |      |      |      |      |      |      +--ro extr-ni-tables-network-ext:total-route-count?      uint32
|      |      |      |      |      |      |      |      +--ro extr-ni-tables-network-ext:ecmp-max-paths?      uint32
|      |      |      |      |      |      |      |      +--ro extr-ni-tables-network-ext:resilient-hash?      boolean
|      |      |      |      |      |      |      |      +--ro extr-ni-tables-network-ext:total-next-hop-groups?      uint32
|      |      |      |      |      |      |      |      +--ro extr-ni-tables-network-ext:one-path-next-hop-groups?      uint32
|      |      |      |      |      |      |      |      +--ro extr-ni-tables-network-ext:ecmp-next-hop-groups?      uint32
|      |      |      |      |      |      +--ro extr-ni-tables-network-ext:protocol-stats
|      |      |      |      |      |      |      +--ro extr-ni-tables-network-ext:protocol-stat* [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:total-route-count?      uint32
|      |      |      |      |      |      |      +--ro extr-ni-tables-network-ext:prefix-stats
|      |      |      |      |      |      |      |      +--ro extr-ni-tables-network-ext:prefix-stat* [prefix-len]
|      |      |      |      |      |      |      |      +--ro extr-ni-tables-network-ext:prefix-len      -> ../state/prefix-
len
|      |      |      |      |      |      |      +--ro extr-ni-tables-network-ext:state
|      |      |      |      |      |      |      |      +--ro extr-ni-tables-network-ext:prefix-len?      uint8
|      |      |      |      |      |      |      |      +--ro extr-ni-tables-network-ext:total-route-count?      uint32

```

```

|   +--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:statistics
|   |   |   |   +--ro extr-ni-tables-network-ext:state
|   |   |   |   |   +--ro extr-ni-tables-network-ext:total-route-count? uint32
|   |   |   |   |   +--ro extr-ni-tables-network-ext:ecmp-max-paths?   uint32
|   |   |   |   |   +--ro extr-ni-tables-network-ext:resilient-hash?    boolean
|   |   |   |   |   +--ro extr-ni-tables-network-ext:total-next-hop-groups? uint32
|   |   |   |   |   +--ro extr-ni-tables-network-ext:one-path-next-hop-groups? uint32
|   |   |   |   |   +--ro extr-ni-tables-network-ext:ecmp-next-hop-groups? uint32
|   |   |   |   +--ro extr-ni-tables-network-ext:protocol-stats
|   |   |   |   |   +--ro extr-ni-tables-network-ext:protocol-stat* [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:total-route-count? uint32
|   |   |   |   +--ro extr-ni-tables-network-ext:prefix-stats
|   |   |   |   |   +--ro extr-ni-tables-network-ext:prefix-stat* [prefix-len]
|   |   |   |   |   +--ro extr-ni-tables-network-ext:prefix-len      -> ../state/prefix-
len
|   |   |   |   +--ro extr-ni-tables-network-ext:state
|   |   |   |   |   +--ro extr-ni-tables-network-ext:prefix-len?       uint8
|   |   |   |   |   +--ro extr-ni-tables-network-ext:total-route-count? uint32
|   |   |   |   +--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-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:hardware-status? identityref
| | +--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:hardware-status? identityref
| | +--ro extr-ni-tables-network-ext:next-hop-groups
| | +--ro extr-ni-tables-network-ext:next-hop-group* [id]
| | +--ro extr-ni-tables-network-ext:id -> ../state/id

```

```

    | |      +--ro extr-ni-tables-network-ext:state
    | |      +--ro extr-ni-tables-network-ext:id?          uint64
    | |      +--ro extr-ni-tables-network-ext:next-hops*    -> ../../../../
next-hops/next-hop/state/index
    | |      +--ro extr-ni-tables-network-ext:protocol-next-hops* -> ../../../../
next-hops/next-hop/state/index
    | +--ro extr-ni-tables-network-ext:next-hops
    |   +--ro extr-ni-tables-network-ext:next-hop* [index]
    |   +--ro extr-ni-tables-network-ext:index          -> ../state/index
    |   +--ro extr-ni-tables-network-ext:state
    |     | +--ro extr-ni-tables-network-ext:index?      uint64
    |     | +--ro extr-ni-tables-network-ext:type?       extr-ni-
types:next-hop-type
    | |      +--ro extr-ni-tables-network-ext:network-instance-name? string
    | |      +--ro extr-ni-tables-network-ext:ip-address?   oc-inet:ip-
address
    | |      +--ro extr-ni-tables-network-ext:mac-address?   oc-yang:mac-
address
    | |      +--ro extr-ni-tables-network-ext:interface-ref
    | |      +--ro extr-ni-tables-network-ext: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 config
| +--rw hostname?          oc-inet:domain-name
| +--rw domain-name?      oc-inet:domain-name
| +--rw login-banner?     string
| +--rw motd-banner?      string
+--ro state
| +--ro hostname?          oc-inet:domain-name
| +--ro domain-name?      oc-inet:domain-name
| +--ro login-banner?     string
| +--ro motd-banner?      string
| +--ro current-datetime?  oc-yang:date-and-time
| +--ro boot-time?        oc-types:timeticks64
| +--ro software-version?  string
| +--ro last-configuration-timestamp? oc-types:timeticks64
+--ro mount-points
| +--ro mount-point* [name]
|   +--ro name          -> ../state/name
|   +--ro state
|     +--ro name?          string
|     +--ro storage-component? -> /oc-platform:components/component/name
|     +--ro size?          uint64
|     +--ro available?     uint64
|     +--ro utilized?      uint64
+--rw aaa
| +--rw authentication

```

```

| | +--rw config
| | | +--rw authentication-method* union
| | +--ro state
| | | +--ro authentication-method* union
| | +--rw admin-user
| | | +--rw config
| | | | +--rw admin-password? string
| | | | +--rw admin-password-hashed? oc-aaa-types:crypt-password-type
| | | | +--rw extr-aaa-ext:admin-username? string
| | | +--ro state
| | | | +--ro admin-password? string
| | | | +--ro admin-password-hashed? oc-aaa-types:crypt-password-type
| | | | +--ro admin-username? string
| | +--rw users
| | | +--rw user* [username]
| | | | +--rw username -> ../config/username
| | | | +--rw config
| | | | | +--rw username? string
| | | | | +--rw password? string
| | | | | +--rw password-hashed? oc-aaa-types:crypt-
password-type
| | | | | +--rw role union
| | | | | +--rw extr-aaa-ext:inactivity-expiry-period? uint8
| | | | | +--rw extr-aaa-ext:inactivity-warning-period? uint8
| | | | +--ro state
| | | | | +--ro username? string
| | | | | +--ro password? string
| | | | | +--ro password-hashed? oc-aaa-types:crypt-
password-type
| | | | +--ro role union
| | | | | +--ro extr-aaa-ext:inactivity-expiry-period? uint8
| | | | | +--ro extr-aaa-ext:inactivity-warning-period? uint8
| | +--rw extr-aaa-ext:password-attributes
| | | +--rw extr-aaa-ext:config
| | | | +--rw extr-aaa-ext:min-length? uint8
| | | | +--rw extr-aaa-ext:min-uppercase? passwd-attr-type
| | | | +--rw extr-aaa-ext:min-lowercase? passwd-attr-type
| | | | +--rw extr-aaa-ext:min-numeric? passwd-attr-type
| | | | +--rw extr-aaa-ext:min-special? passwd-attr-type
| | | | +--rw extr-aaa-ext:max-password-age? uint16
| | | | +--rw extr-aaa-ext:max-retry? uint8
| | | | +--rw extr-aaa-ext:max-repeat? uint8
| | | | +--rw extr-aaa-ext:max-sequence? uint8
| | | | +--rw extr-aaa-ext:history? uint8
| | | | +--rw extr-aaa-ext:lockout-duration? uint32
| | | +--ro extr-aaa-ext:state
| | | | +--ro extr-aaa-ext:min-length? uint8
| | | | +--ro extr-aaa-ext:min-uppercase? passwd-attr-type
| | | | +--ro extr-aaa-ext:min-lowercase? passwd-attr-type
| | | | +--ro extr-aaa-ext:min-numeric? passwd-attr-type
| | | | +--ro extr-aaa-ext:min-special? passwd-attr-type
| | | | +--ro extr-aaa-ext:max-password-age? uint16
| | | | +--ro extr-aaa-ext:max-retry? uint8
| | | | +--ro extr-aaa-ext:max-repeat? uint8
| | | | +--ro extr-aaa-ext:max-sequence? uint8
| | | | +--ro extr-aaa-ext:history? 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:mutual-tls?  boolean
| | | | | | +--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:mutual-tls?  boolean
| | | | | | | +--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:mutual-tls? boolean
| | | | +--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:mutual-tls? boolean
| | | | +--ro extr-aaa-ext:base-dn? string
| | | | +--ro extr-aaa-ext:network-instance? oc-ni:network-instance-
ref
| | | | +--ro extr-aaa-ext:source-interface? string
| | | +--rw extr-aaa-ext:ldap-groups
| | | | +--rw extr-aaa-ext:ldap-group* [name]
| | | | | +--rw extr-aaa-ext:name -> ../config/name
| | | | | +--rw extr-aaa-ext:config
| | | | | | +--rw extr-aaa-ext:name? string
| | | | | | +--rw extr-aaa-ext:role? union
| | | | | +--ro extr-aaa-ext:state
| | | | | +--ro extr-aaa-ext:name? string
| | | | | +--ro extr-aaa-ext:role? union
| | | +--rw extr-aaa-token-ext:token-validators
| | | | +--rw extr-aaa-token-ext:token-validator* [name]
| | | | | +--rw extr-aaa-token-ext:name -> ../config/name
| | | | | +--rw extr-aaa-token-ext:config
| | | | | | +--rw extr-aaa-token-ext:name? string
| | | | | | +--rw extr-aaa-token-ext:ssl-profile-id? string
| | | | | | +--rw extr-aaa-token-ext:type? enumeration
| | | | | +--ro extr-aaa-token-ext:state
| | | | | +--ro extr-aaa-token-ext:name? string
| | | | | +--ro extr-aaa-token-ext:ssl-profile-id? string
| | | | | +--ro extr-aaa-token-ext:type? enumeration
+--rw logging
| | +--rw console
| | | +--rw config
| | | | +--rw extr-system-logging-ext:monitor? boolean
| | | | +--rw extr-system-logging-ext:console? boolean
| | | | +--rw extr-system-logging-ext:monitor-severity? syslog-severity
| | | | +--rw extr-system-logging-ext:console-severity? syslog-severity
| | | +--ro state
| | | +--rw selectors
| | | | +--rw selector* [facility severity]
| | | | | +--rw facility -> ../config/facility
| | | | | +--rw severity -> ../config/severity
| | | | | +--rw config
| | | | | | +--rw facility? identityref
| | | | | | +--rw severity? syslog-severity
| | | | | +--ro state
| | | | | +--ro facility? identityref
| | | | | +--ro severity? syslog-severity
| | | +--rw remote-servers
| | | | +--rw remote-server* [host]
| | | | | +--rw host -> ../config/host
| | | | | +--rw config
| | | | | | +--rw host? oc-inet:host
| | | | | | +--rw source-address? oc-inet:ip-address
| | | | | | +--rw network-instance? oc-ni:network-

```

```

instance-ref
  | | | | +--rw remote-port?                oc-inet:port-number
  | | | | +--rw tls-profile-id?              string
  | | | | +--rw extr-system-logging-ext:enable? boolean
  | | | | +--rw extr-system-logging-ext:transport? syslog-remote-server-
transport
  | | | | +--rw extr-system-logging-ext:secure-forwarding? syslog-remote-server-
secure-forwarding
  | | | | +--rw extr-system-logging-ext:mutual-tls? boolean
  | | | | +--rw extr-system-logging-ext:source-interface? string
  | | | | +--rw extr-system-logging-ext:message-format? syslog-message-format
  | | | +--ro state
  | | |   +--ro host?                oc-inet:host
  | | |   +--ro source-address?      oc-inet:ip-address
  | | |   +--ro network-instance?    oc-ni:network-
instance-ref
  | | |   +--ro remote-port?          oc-inet:port-number
  | | |   +--ro tls-profile-id?        string
  | | |   +--ro extr-system-logging-ext:enable? boolean
  | | |   +--ro extr-system-logging-ext:transport? syslog-remote-server-
transport
  | | |   +--ro extr-system-logging-ext:secure-forwarding? syslog-remote-server-
secure-forwarding
  | | |   +--ro extr-system-logging-ext:mutual-tls? boolean
  | | |   +--ro extr-system-logging-ext:source-interface? string
  | | |   +--ro extr-system-logging-ext:message-format? syslog-message-format
  | | +--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 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
+--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 ntp
| +--rw config
| | +--rw enabled?      boolean
| | +--rw extr-sys-ext:use-vrf?  string
| +--ro state
| | +--ro enabled?      boolean
| | +--ro extr-sys-ext:use-vrf?  string
| | +--ro extr-sys-ext:active-server?  string
| | +--ro extr-sys-ext:active-server-offset?  uint64
| +--rw servers
|   +--rw server* [address]
|     +--rw address   -> ../config/address
|     +--rw config
|       | +--rw address?   oc-inet:host
|       | +--rw port?     oc-inet:port-number
|       | +--rw version?   uint8
|       | +--rw association-type?  enumeration
|       | +--rw iburst?    boolean
|       | +--rw prefer?    boolean
|       +--ro state
|         +--ro address?   oc-inet:host
|         +--ro port?     oc-inet:port-number
|         +--ro version?   uint8
|         +--ro association-type?  enumeration
|         +--ro iburst?    boolean
|         +--ro prefer?    boolean
|         +--ro stratum?    uint8
|         +--ro root-delay?  int64
|         +--ro root-dispersion?  int64
|         +--ro offset?    int64
|         +--ro poll-interval?  uint32
+--rw oc-sys-grpc:grpc-servers
| +--rw oc-sys-grpc:grpc-server* [name]
|   +--rw oc-sys-grpc:name   -> ../config/name
|   +--rw oc-sys-grpc:config
|     | +--rw oc-sys-grpc:name?   string
|     | +--rw oc-sys-grpc:services*  identityref
|     | +--rw oc-sys-grpc:enable?    boolean
|     | +--rw oc-sys-grpc:port?     oc-inet:port-number
|     | +--rw oc-sys-grpc:transport-security?  boolean
|     | +--rw oc-sys-grpc:certificate-id?  string
|     | +--rw oc-sys-grpc:metadata-authentication?  boolean
|     | +--rw oc-sys-grpc:listen-addresses*  union
|     | +--rw oc-sys-grpc:network-instance?  oc-ni:network-instance-ref
|     | +--rw extr-system-grpc:mutual-tls?  boolean
|     +--ro oc-sys-grpc:state
|       +--ro oc-sys-grpc:name?  string

```

```

|         +---ro oc-sys-grpc:services*                identityref
|         +---ro oc-sys-grpc:enable?                  boolean
|         +---ro oc-sys-grpc:port?                    oc-inet:port-number
|         +---ro oc-sys-grpc:transport-security?      boolean
|         +---ro oc-sys-grpc:certificate-id?          string
|         +---ro oc-sys-grpc:metadata-authentication? boolean
|         +---ro oc-sys-grpc:listen-addresses*        union
|         +---ro oc-sys-grpc:network-instance?       oc-ni:network-instance-ref
|         +---ro extr-system-grpc:mutual-tls?         boolean
+--rw extr-sys-snmp:snmp-servers
|   +--rw extr-sys-snmp:snmp-server* [name]
|   |   +--rw extr-sys-snmp:name                    -> ../config/name
|   |   +--rw extr-sys-snmp:config
|   |   |   +---ro 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
|   |   |   |   |   +---ro extr-sys-snmp:name?      string
|   |   |   |   |   +---ro 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
|   |   |   |   +---ro extr-sys-snmp:host* [hostname community-or-user-name]
|   |   |   |   |   +---ro extr-sys-snmp:hostname    -> ../config/hostname
|   |   |   |   |   +---ro extr-sys-snmp:community-or-user-name -> ../config/
community-or-user-name
|   |   |   |   |   +--rw extr-sys-snmp:config
|   |   |   |   |   |   +---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
|   |   |   |   +--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
|   |   |   |   |   +---ro 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-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-system-ztp:ztp
|   +--rw extr-system-ztp:config
|   |   x--rw extr-system-ztp:url?  string
|   |   +--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-system-ztp:cloud-based
|   +--rw extr-system-ztp:config
|   |   +--rw extr-system-ztp:url?  string
|   +--ro extr-system-ztp:state
|   |   +--ro extr-system-ztp:url?  string
|   |   +--ro extr-system-ztp:org-id?  string
|   |   +--ro extr-system-ztp:owner-id?  string
|   |   +--ro extr-system-ztp:communicator?  string
|   |   +--ro extr-system-ztp:status?  ztp-cloud-status
|   |   +--ro extr-system-ztp:inlets-endpoint?  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-ext:mgmt-acl
|   +--rw extr-sys-ext:mgmt-acl-names
|   |   +--ro extr-sys-ext:state
|   |   |   +--ro extr-sys-ext:ipv4-acl?            string
|   |   |   +--ro extr-sys-ext:ipv6-acl?            string
|   +--rw extr-sys-ext:counters
|   |   +--ro extr-sys-ext:counter* [acl-name afi-id seq-no]
|   |   +--ro extr-sys-ext:acl-name                 -> ../state/acl-name
|   |   +--ro extr-sys-ext:afi-id                   -> ../state/afi-id
|   |   +--ro extr-sys-ext:seq-no                   -> ../state/seq-no
|   |   +--ro extr-sys-ext:state
|   |   |   +--ro extr-sys-ext:acl-name?            string
|   |   |   +--ro extr-sys-ext:afi-id?              string
|   |   |   +--ro extr-sys-ext:seq-no?              uint32
|   |   |   +--ro extr-sys-ext:in-pkts?             uint64
|   |   |   +--ro extr-sys-ext:in-octets?           uint64
+--rw extr-sys-term-ext:ssh-servers
|   +--rw extr-sys-term-ext:ssh-server* [name]
|   |   +--rw extr-sys-term-ext:name                 -> ../config/name
|   |   +--rw extr-sys-term-ext:config
|   |   |   +--rw extr-sys-term-ext:name?            string
|   |   |   +--rw extr-sys-term-ext:enable?          boolean
|   |   |   +--rw extr-sys-term-ext:network-instance? oc-ni:network-instance-ref
|   |   |   +--rw extr-sys-term-ext:cipher*          identityref
|   |   |   +--rw extr-sys-term-ext:mac*             identityref
|   |   |   +--rw extr-sys-term-ext:key-exchange*     identityref
|   |   |   +--rw extr-sys-term-ext:client-alive?    uint16
|   |   +--ro extr-sys-term-ext:state
|   |   |   +--ro extr-sys-term-ext:name?            string
|   |   |   +--ro extr-sys-term-ext:enable?          boolean
|   |   |   +--ro extr-sys-term-ext:network-instance? oc-ni:network-instance-ref
|   |   |   +--ro extr-sys-term-ext:cipher*          identityref
|   |   |   +--ro extr-sys-term-ext:mac*             identityref

```

```

| | +--ro extr-sys-term-ext:key-exchange* identityref
| | +--ro extr-sys-term-ext:client-alive? uint16
| +--rw extr-sys-term-ext:key
| | +--rw extr-sys-term-ext:config
| | | +--rw extr-sys-term-ext:rsa? common-types:rsa-bits-size
| | | +--rw extr-sys-term-ext:ecdsa? common-types:ecdsa-bits-size
| | +--ro extr-sys-term-ext:state
| | | +--ro extr-sys-term-ext:rsa? common-types:rsa-bits-size
| | | +--ro extr-sys-term-ext:ecdsa? common-types:ecdsa-bits-size
+--rw extr-sys-term-ext:telnet-servers
| +--rw extr-sys-term-ext:telnet-server* [name]
| | +--rw extr-sys-term-ext:name -> ../config/name
| | +--rw extr-sys-term-ext:config
| | | +--rw extr-sys-term-ext:name? string
| | | +--rw extr-sys-term-ext:enable? boolean
| | | +--rw extr-sys-term-ext:network-instance? oc-ni:network-instance-ref
| | +--ro extr-sys-term-ext:state
| | | +--ro extr-sys-term-ext:name? string
| | | +--ro extr-sys-term-ext:enable? boolean
| | | +--ro extr-sys-term-ext:network-instance? oc-ni:network-instance-ref
+--rw extr-cert-mgr-ext:certificate-manager
| +--rw extr-cert-mgr-ext:expiry-alert
| +--rw extr-cert-mgr-ext:config
| | +--rw extr-cert-mgr-ext:info? alert-period
| | +--rw extr-cert-mgr-ext:minor? alert-period
| | +--rw extr-cert-mgr-ext:major? alert-period
| | +--rw extr-cert-mgr-ext:critical? alert-period
| +--ro extr-cert-mgr-ext:state
| | +--ro extr-cert-mgr-ext:info? alert-period
| | +--ro extr-cert-mgr-ext:minor? alert-period
| | +--ro extr-cert-mgr-ext:major? alert-period
| | +--ro extr-cert-mgr-ext:critical? alert-period

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

```

```

| | | +--ro out-errors?          oc-yang:counter64
| | | +--ro last-clear?         oc-types:timeticks64
| | | x--ro in-unknown-protos?   oc-yang:counter64
| | | x--ro in-fcs-errors?       oc-yang:counter64
| | | x--ro carrier-transitions? oc-yang:counter64
| | | +--ro extr-if-ext:oper-down-reason? identityref
| | | +--ro extr-if-ext:if-mode?  identityref
| +--rw oc-vlan:vlan
| | +--rw oc-vlan:config
| | | x--rw oc-vlan:vlan-id?      union
| | | +--ro oc-vlan:state
| | | | x--ro oc-vlan:vlan-id?    union
| | | +--rw oc-vlan:match
| | | | +--rw oc-vlan:single-tagged
| | | | | +--rw oc-vlan:config
| | | | | | +--rw oc-vlan:vlan-id?  oc-vlan-types:vlan-id
| | | | | | +--ro oc-vlan:state
| | | | | | | +--ro oc-vlan:vlan-id?  oc-vlan-types:vlan-id
| | | | +--rw oc-vlan:single-tagged-list
| | | | | +--rw oc-vlan:config
| | | | | | +--rw oc-vlan:vlan-ids*   oc-vlan-types:vlan-id
| | | | | | +--ro oc-vlan:state
| | | | | | | +--ro oc-vlan:vlan-ids*   oc-vlan-types:vlan-id
| | | | +--rw oc-vlan:single-tagged-range
| | | | | +--rw oc-vlan:config
| | | | | | +--rw oc-vlan:low-vlan-id?  oc-vlan-types:vlan-id
| | | | | | +--rw oc-vlan:high-vlan-id? oc-vlan-types:vlan-id
| | | | | | +--ro oc-vlan:state
| | | | | | | +--ro oc-vlan:low-vlan-id?  oc-vlan-types:vlan-id
| | | | | | | +--ro oc-vlan:high-vlan-id? oc-vlan-types:vlan-id
| | | | +--rw oc-vlan:double-tagged
| | | | | +--rw oc-vlan:config
| | | | | | +--rw oc-vlan:inner-vlan-id?  oc-vlan-types:vlan-id
| | | | | | +--rw oc-vlan:outer-vlan-id?  oc-vlan-types:vlan-id
| | | | | | +--ro oc-vlan:state
| | | | | | | +--ro oc-vlan:inner-vlan-id?  oc-vlan-types:vlan-id
| | | | | | | +--ro oc-vlan:outer-vlan-id?  oc-vlan-types:vlan-id
| | | | +--rw oc-vlan:double-tagged-inner-list
| | | | | +--rw oc-vlan:config
| | | | | | +--rw oc-vlan:inner-vlan-ids*   oc-vlan-types:vlan-id
| | | | | | +--rw oc-vlan:outer-vlan-id?    oc-vlan-types:vlan-id
| | | | | | +--ro oc-vlan:state
| | | | | | | +--ro oc-vlan:inner-vlan-ids*   oc-vlan-types:vlan-id
| | | | | | | +--ro oc-vlan:outer-vlan-id?    oc-vlan-types:vlan-id
| | | | +--rw oc-vlan:double-tagged-outer-list
| | | | | +--rw oc-vlan:config
| | | | | | +--rw oc-vlan:inner-vlan-id?  oc-vlan-types:vlan-id
| | | | | | +--rw oc-vlan:outer-vlan-ids*  oc-vlan-types:vlan-id
| | | | | | +--ro oc-vlan:state
| | | | | | | +--ro oc-vlan:inner-vlan-id?  oc-vlan-types:vlan-id
| | | | | | | +--ro oc-vlan:outer-vlan-ids*  oc-vlan-types:vlan-id
| | | | +--rw oc-vlan:double-tagged-inner-range
| | | | | +--rw oc-vlan:config
| | | | | | +--rw oc-vlan:inner-low-vlan-id?  oc-vlan-types:vlan-id
| | | | | | +--rw oc-vlan:inner-high-vlan-id? oc-vlan-types:vlan-id
| | | | | | +--rw oc-vlan:outer-vlan-id*      oc-vlan-types:vlan-id
| | | | | | +--ro oc-vlan:state
| | | | | | | +--ro oc-vlan:inner-low-vlan-id?  oc-vlan-types:vlan-id
| | | | | | | +--ro oc-vlan:inner-high-vlan-id? oc-vlan-types:vlan-id
| | | | | | | +--ro oc-vlan:outer-vlan-id*      oc-vlan-types:vlan-id
| | | | +--rw oc-vlan:double-tagged-outer-range
| | | | | +--rw oc-vlan:config
| | | | | | +--rw oc-vlan:inner-vlan-id?  oc-vlan-types:vlan-id
| | | | | | +--rw oc-vlan:outer-low-vlan-id? oc-vlan-types:vlan-id

```

```

| | | | | +---rw oc-vlan:outer-high-vlan-id? oc-vlan-types:vlan-id
| | | | | +---ro oc-vlan:state
| | | | | +---ro oc-vlan:inner-vlan-id? oc-vlan-types:vlan-id
| | | | | +---ro oc-vlan:outer-low-vlan-id? oc-vlan-types:vlan-id
| | | | | +---ro oc-vlan:outer-high-vlan-id? oc-vlan-types:vlan-id
| | | | +---rw oc-vlan:double-tagged-inner-outer-range
| | | | | +---rw oc-vlan:config
| | | | | | +---rw oc-vlan:inner-low-vlan-id? oc-vlan-types:vlan-id
| | | | | | +---rw oc-vlan:inner-high-vlan-id? oc-vlan-types:vlan-id
| | | | | | +---rw oc-vlan:outer-low-vlan-id? oc-vlan-types:vlan-id
| | | | | | +---rw oc-vlan:outer-high-vlan-id? oc-vlan-types:vlan-id
| | | | | +---ro oc-vlan:state
| | | | | +---ro oc-vlan:inner-low-vlan-id? oc-vlan-types:vlan-id
| | | | | +---ro oc-vlan:inner-high-vlan-id? oc-vlan-types:vlan-id
| | | | | +---ro oc-vlan:outer-low-vlan-id? oc-vlan-types:vlan-id
| | | | | +---ro oc-vlan:outer-high-vlan-id? oc-vlan-types:vlan-id
| | | +---rw extr-vlan-ext:un-tagged
| | | | +---rw extr-vlan-ext:config
| | | | | +---rw extr-vlan-ext:vlan-id? oc-vlan-types:vlan-id
| | | | | +---rw extr-vlan-ext:accept-mode? identityref
| | | | +---ro extr-vlan-ext:state
| | | | | +---ro extr-vlan-ext:vlan-id? oc-vlan-types:vlan-id
| | | | | +---ro extr-vlan-ext:accept-mode? identityref
| | +---rw oc-vlan:ingress-mapping
| | | +---rw oc-vlan:config
| | | | +---rw oc-vlan:vlan-stack-action? oc-vlan-types:vlan-stack-action
| | | | +---rw oc-vlan:vlan-id? oc-vlan-types:vlan-id
| | | | +---rw oc-vlan:tpid? identityref
| | | +---ro oc-vlan:state
| | | | +---ro oc-vlan:vlan-stack-action? oc-vlan-types:vlan-stack-action
| | | | +---ro oc-vlan:vlan-id? oc-vlan-types:vlan-id
| | | | +---ro oc-vlan:tpid? identityref
| | +---rw oc-vlan:egress-mapping
| | | +---rw oc-vlan:config
| | | | +---rw oc-vlan:vlan-stack-action? oc-vlan-types:vlan-stack-action
| | | | +---rw oc-vlan:vlan-id? oc-vlan-types:vlan-id
| | | | +---rw oc-vlan:tpid? identityref
| | | +---ro oc-vlan:state
| | | | +---ro oc-vlan:vlan-stack-action? oc-vlan-types:vlan-stack-action
| | | | +---ro oc-vlan:vlan-id? oc-vlan-types:vlan-id
| | | | +---ro oc-vlan:tpid? identityref
| +---rw oc-ip:ipv4
| | +---rw oc-ip:addresses
| | | +---rw oc-ip:address* [ip]
| | | | +---rw oc-ip:ip -> ../config/ip
| | | | +---rw oc-ip:config
| | | | | +---rw oc-ip:ip? oc-inet:ipv4-address
| | | | | +---rw oc-ip:prefix-length? uint8
| | | | | +---rw extr-ip-ext:secondary? boolean
| | | | +---ro oc-ip:state
| | | | | +---ro oc-ip:ip? oc-inet:ipv4-address
| | | | | +---ro oc-ip:prefix-length? uint8
| | | | | +---ro oc-ip:origin? ip-address-origin
| | | | | +---ro extr-ip-ext:secondary? boolean
| | | | | +---ro extr-ip-ext:status? enumeration
| | +---rw oc-ip:neighbors
| | | +---rw oc-ip:neighbor* [ip]
| | | | +---rw oc-ip:ip -> ../config/ip
| | | | +---rw oc-ip:config
| | | | | +---rw oc-ip:ip? oc-inet:ipv4-address
| | | | | +---rw oc-ip:link-layer-address oc-yang:phys-address
| | | | +---ro oc-ip:state
| | | | | +---ro oc-ip:ip? oc-inet:ipv4-address
| | | | | +---ro oc-ip:link-layer-address oc-yang:phys-address

```

```

| | | | +--ro oc-ip:origin? neighbor-origin
| | | +--rw oc-ip:config
| | | | +--rw oc-ip:enabled? boolean
| | | | +--rw oc-ip:mtu? uint16
| | | | +--rw oc-ip:dhcp-client? boolean
| | | | +--rw extr-ip-ext:neighbor-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 extr-ip-ext:icmp
| | | | +--rw extr-ip-ext:config
| | | | | +--rw extr-ip-ext:rate-limit? oc-yang:counter64
| | | | +--ro extr-ip-ext:state
| | | | | +--ro extr-ip-ext:rate-limit? oc-yang:counter64
| | | | | +--ro extr-ip-ext:icmp-counters
| | | | | +--ro extr-ip-ext:accepted-packets? oc-yang:counter64
| | | | | +--ro extr-ip-ext:dropped-packets? oc-yang:counter64
| +--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 extr-ip-ext:icmp
|         | +--rw extr-ip-ext:config
|         | | +--rw extr-ip-ext:rate-limit?      oc-yang:counter64
|         | +--ro extr-ip-ext:state
|         | | +--ro extr-ip-ext:rate-limit?      oc-yang:counter64
|         | | +--ro extr-ip-ext:icmp-counters
|         | | | +--ro extr-ip-ext:accepted-packets? oc-yang:counter64
|         | | | +--ro extr-ip-ext:dropped-packets? oc-yang:counter64
+--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
| | +--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
| | +--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-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
| +--ro oc-tun:state
| | +--ro oc-tun:src? oc-inet:ip-address
| | +--ro oc-tun:dst? oc-inet:ip-address
| | +--ro oc-tun:ttl? uint8
+--rw oc-tun:ipv4
| +--rw oc-tun:addresses
| | +--rw oc-tun:address* [ip]
| | | +--rw oc-tun:ip -> ../config/ip
| | | +--rw oc-tun:config
| | | | +--rw oc-tun:ip? oc-inet:ipv4-address
| | | | +--rw oc-tun:prefix-length? uint8
| | | +--ro oc-tun:state
| | | | +--ro oc-tun:ip? oc-inet:ipv4-address
| | | | +--ro oc-tun:prefix-length? uint8
| | | | +--ro oc-tun:origin? ip-address-origin
| | | | +--ro extr-ip-ext:secondary? boolean
| | | | +--ro extr-ip-ext:status? enumeration

```

```

| +--rw oc-tun:neighbors
| | +--rw oc-tun:neighbor* [ip]
| | | +--rw oc-tun:ip -> ../config/ip
| | | +--rw oc-tun:config
| | | | +--rw oc-tun:ip? oc-inet:ipv4-address
| | | | +--rw oc-tun:link-layer-address oc-yang:phys-address
| | | +--ro oc-tun:state
| | | | +--ro oc-tun:ip? oc-inet:ipv4-address
| | | | +--ro oc-tun:link-layer-address oc-yang:phys-address
| | | | +--ro oc-tun:origin? neighbor-origin
| +--rw oc-tun:config
| | +--rw oc-tun:enabled? boolean
| | +--rw oc-tun:mtu? uint16
| | +--rw oc-tun:dhcp-client? boolean
| +--ro oc-tun:state
| | +--ro oc-tun:enabled? boolean
| | +--ro oc-tun:mtu? uint16
| | +--ro oc-tun:dhcp-client? boolean
| +--ro oc-tun:counters
| | +--ro oc-tun:in-pkts? oc-yang:counter64
| | +--ro oc-tun:in-octets? oc-yang:counter64
| | +--ro oc-tun:in-error-pkts? oc-yang:counter64
| | +--ro oc-tun:in-forwarded-pkts? oc-yang:counter64
| | +--ro oc-tun:in-forwarded-octets? oc-yang:counter64
| | +--ro oc-tun:in-discarded-pkts? oc-yang:counter64
| | +--ro oc-tun:out-pkts? oc-yang:counter64
| | +--ro oc-tun:out-octets? oc-yang:counter64
| | +--ro oc-tun:out-error-pkts? oc-yang:counter64
| | +--ro oc-tun:out-forwarded-pkts? oc-yang:counter64
| | +--ro oc-tun:out-forwarded-octets? oc-yang:counter64
| | +--ro oc-tun:out-discarded-pkts? oc-yang:counter64
+--rw oc-tun:ipv6
+--rw oc-tun:addresses
| | +--rw oc-tun:address* [ip]
| | | +--rw oc-tun:ip -> ../config/ip
| | | +--rw oc-tun:config
| | | | +--rw oc-tun:ip? oc-inet:ipv6-address
| | | | +--rw oc-tun:prefix-length uint8
| | | +--ro oc-tun:state
| | | | +--ro oc-tun:ip? oc-inet:ipv6-address
| | | | +--ro oc-tun:prefix-length uint8
| | | | +--ro oc-tun:origin? ip-address-origin
| | | | +--ro oc-tun:status? enumeration
+--rw oc-tun:neighbors
| | +--rw oc-tun:neighbor* [ip]
| | | +--rw oc-tun:ip -> ../config/ip
| | | +--rw oc-tun:config
| | | | +--rw oc-tun:ip? oc-inet:ipv6-address
| | | | +--rw oc-tun:link-layer-address oc-yang:phys-address
| | | +--ro oc-tun:state
| | | | +--ro oc-tun:ip? oc-inet:ipv6-address
| | | | +--ro oc-tun:link-layer-address oc-yang:phys-address
| | | | +--ro oc-tun:origin? neighbor-origin
| | | | +--ro oc-tun:is-router? boolean
| | | | +--ro oc-tun:neighbor-state? enumeration
+--rw oc-tun:config
| | +--rw oc-tun:enabled? boolean
| | +--rw oc-tun:mtu? uint32
| | +--rw oc-tun:dup-addr-detect-transmits? uint32
| | +--rw oc-tun:dhcp-client? boolean
+--ro oc-tun:state
| | +--ro oc-tun:enabled? boolean
| | +--ro oc-tun:mtu? uint32
| | +--ro oc-tun:dup-addr-detect-transmits? uint32

```

```

        +--ro oc-tun:dhcp-client?                boolean
        +--ro oc-tun:counters
            +--ro oc-tun:in-pkts?                  oc-yang:counter64
            +--ro oc-tun:in-octets?                 oc-yang:counter64
            +--ro oc-tun:in-error-pkts?             oc-yang:counter64
            +--ro oc-tun:in-forwarded-pkts?         oc-yang:counter64
            +--ro oc-tun:in-forwarded-octets?       oc-yang:counter64
            +--ro oc-tun:in-discarded-pkts?         oc-yang:counter64
            +--ro oc-tun:out-pkts?                   oc-yang:counter64
            +--ro oc-tun:out-octets?                 oc-yang:counter64
            +--ro oc-tun:out-error-pkts?            oc-yang:counter64
            +--ro oc-tun:out-forwarded-pkts?        oc-yang:counter64
            +--ro oc-tun:out-forwarded-octets?      oc-yang:counter64
            +--ro oc-tun:out-discarded-pkts?        oc-yang:counter64

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-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
| | | +--ro surprise-down-errors? oc-yang:counter64
| | | +--ro poisoned-tlp-errors?  oc-yang:counter64
| | | +--ro flow-control-protocol-errors? oc-yang:counter64
| | | +--ro completion-timeout-errors? oc-yang:counter64
| | | +--ro completion-abort-errors? oc-yang:counter64
| | | +--ro unexpected-completion-errors? oc-yang:counter64
| | | +--ro receiver-overflow-errors? oc-yang:counter64
| | | +--ro malformed-tlp-errors?  oc-yang:counter64
| | | +--ro ecrc-errors?          oc-yang:counter64
| | | +--ro unsupported-request-errors? oc-yang:counter64
| | | +--ro acs-violation-errors?  oc-yang:counter64
| | | +--ro internal-errors?      oc-yang:counter64
| | | +--ro blocked-tlp-errors?   oc-yang:counter64
| | | +--ro atomic-op-blocked-errors? oc-yang:counter64
| | | +--ro tlp-prefix-blocked-errors? oc-yang:counter64
| | +--ro correctable-errors
| | | +--ro total-errors?         oc-yang:counter64
| | | +--ro receiver-errors?      oc-yang:counter64
| | | +--ro bad-tlp-errors?       oc-yang:counter64
| | | +--ro bad-dllp-errors?      oc-yang:counter64

```



```

| | +--ro relay-rollover-errors?      oc-yang:counter64
| | +--ro replay-timeout-errors?     oc-yang:counter64
| | +--ro advisory-non-fatal-errors? oc-yang:counter64
| | +--ro internal-errors?          oc-yang:counter64
| | +--ro hdr-log-overflow-errors?   oc-yang:counter64
| +--ro oc-platform-ext:entity-id?   uint32
+--rw properties
| +--rw property* [name]
| | +--rw name          -> ../config/name
| | +--rw config
| | | +--rw name?       string
| | | +--rw value?      union
| | +--ro state
| | | +--ro name?       string
| | | +--ro value?      union
| | | +--ro configurable? boolean
+--rw subcomponents
| +--rw subcomponent* [name]
| | +--rw name          -> ../config/name
| | +--rw config
| | | +--rw name?      -> ../../../../component/config/name
| | +--ro state
| | | +--ro name?      -> ../../../../component/config/name
+--rw chassis
| +--rw config
| +--ro state
| +--rw utilization
| | +--rw resources
| | | +--rw resource* [name]
| | | | +--rw name          -> ../config/name
| | | | +--rw config
| | | | | +--rw name?       string
| | | | | +--rw used-threshold-upper?      oc-types:percentage
| | | | | +--rw used-threshold-upper-clear? oc-types:percentage
| | | | | +--rw extr-platform-common-ext:poll-interval? uint16
| | | | | +--rw extr-platform-common-ext:poll-retry?   uint16
| | | | | +--rw extr-platform-common-ext:action?       resource-action
| | | +--ro state
| | | | +--ro name?       string
| | | | +--ro used-threshold-upper?      oc-types:percentage
| | | | +--ro used-threshold-upper-clear? oc-types:percentage
| | | | +--ro used?       uint64
| | | | +--ro committed?  uint64
| | | | +--ro free?       uint64
| | | | +--ro max-limit?  uint64
| | | | +--ro high-watermark? uint64
| | | | +--ro last-high-watermark?      oc-
types:timeticks64
| | | +--ro used-threshold-upper-exceeded? boolean
| | | +--ro extr-platform-common-ext:poll-interval? uint16
| | | +--ro extr-platform-common-ext:poll-retry?   uint16
| | | +--ro extr-platform-common-ext:action?       resource-action
+--rw port
| +--rw config
| | +--rw extr-port-config-ext:default-fec-mode?  extreme-eth-ext:fec-mode-type
| | +--rw extr-port-config-ext:default-speed?    identityref
| | +--rw extr-port-config-ext:supported-speed*   identityref
| | +--rw extr-port-config-ext:supported-fec*     extreme-eth-ext:fec-mode-type
| | +--rw extr-port-config-ext:port-group*        string
| +--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
|   +--ro oc-transceiver:vendor-part?       string
|   +--ro oc-transceiver:vendor-rev?        string
|   +--ro oc-transceiver:ethernet-pmd?      identityref
|   +--ro oc-transceiver:sonet-sdh-compliance-code?  identityref
|   +--ro oc-transceiver:otn-compliance-code?  identityref
|   +--ro oc-transceiver:serial-no?         string
|   +--ro oc-transceiver:date-code?         oc-yang:date-and-
time
|   +--ro oc-transceiver:fault-condition?    boolean
|   +--ro oc-transceiver:fec-status?         identityref
|   +--ro oc-transceiver:fec-uncorrectable-blocks?  yang:counter64
|   +--ro oc-transceiver:fec-uncorrectable-words?  yang:counter64
|   +--ro oc-transceiver:fec-corrected-bytes?  yang:counter64
|   +--ro oc-transceiver:fec-corrected-bits?  yang:counter64
|   +--ro oc-transceiver:pre-fec-ber
|     +--ro oc-transceiver:instant?    decimal64
|     +--ro oc-transceiver:avg?        decimal64
|     +--ro oc-transceiver:min?        decimal64
|     +--ro oc-transceiver:max?        decimal64
|     +--ro oc-transceiver:interval?  oc-types:stat-interval

```

```

| | | +--ro oc-transceiver:min-time? oc-types:timeticks64
| | | +--ro oc-transceiver:max-time? oc-types:timeticks64
| | +--ro oc-transceiver:post-fec-ber
| | | +--ro oc-transceiver:instant? decimal64
| | | +--ro oc-transceiver:avg? decimal64
| | | +--ro oc-transceiver:min? decimal64
| | | +--ro oc-transceiver:max? decimal64
| | | +--ro oc-transceiver:interval? oc-types:stat-interval
| | | +--ro oc-transceiver:min-time? oc-types:timeticks64
| | | +--ro oc-transceiver:max-time? oc-types:timeticks64
| | +--ro oc-transceiver:supply-voltage
| | | +--ro oc-transceiver:instant? decimal64
| | | +--ro oc-transceiver:avg? decimal64
| | | +--ro oc-transceiver:min? decimal64
| | | +--ro oc-transceiver:max? decimal64
| | | +--ro oc-transceiver:interval? oc-types:stat-interval
| | | +--ro oc-transceiver:min-time? oc-types:timeticks64
| | | +--ro oc-transceiver:max-time? oc-types:timeticks64
| | +--ro oc-transceiver:output-power
| | | +--ro oc-transceiver:instant? decimal64
| | | +--ro oc-transceiver:avg? decimal64
| | | +--ro oc-transceiver:min? decimal64
| | | +--ro oc-transceiver:max? decimal64
| | | +--ro oc-transceiver:interval? oc-types:stat-interval
| | | +--ro oc-transceiver:min-time? oc-types:timeticks64
| | | +--ro oc-transceiver:max-time? oc-types:timeticks64
| | +--ro oc-transceiver:input-power
| | | +--ro oc-transceiver:instant? decimal64
| | | +--ro oc-transceiver:avg? decimal64
| | | +--ro oc-transceiver:min? decimal64
| | | +--ro oc-transceiver:max? decimal64
| | | +--ro oc-transceiver:interval? oc-types:stat-interval
| | | +--ro oc-transceiver:min-time? oc-types:timeticks64
| | | +--ro oc-transceiver:max-time? oc-types:timeticks64
| | +--ro oc-transceiver:laser-bias-current
| | | +--ro oc-transceiver:instant? decimal64
| | | +--ro oc-transceiver:avg? decimal64
| | | +--ro oc-transceiver:min? decimal64
| | | +--ro oc-transceiver:max? decimal64
| | | +--ro oc-transceiver:interval? oc-types:stat-interval
| | | +--ro oc-transceiver:min-time? oc-types:timeticks64
| | | +--ro oc-transceiver:max-time? oc-types:timeticks64
| | +--ro extr-transceiver-ext:temperature
| | | +--ro extr-transceiver-ext:avg? decimal64
| | | +--ro extr-transceiver-ext:min? decimal64
| | | +--ro extr-transceiver-ext:max? decimal64
| | | +--ro extr-transceiver-ext:interval? oc-types:stat-interval
| | | +--ro extr-transceiver-ext:min-time? oc-types:timeticks64
| | | +--ro extr-transceiver-ext:max-time? oc-types:timeticks64
| | +--ro extr-transceiver-ext:voltage
| | | +--ro extr-transceiver-ext:avg? decimal64
| | | +--ro extr-transceiver-ext:min? decimal64
| | | +--ro extr-transceiver-ext:max? decimal64
| | | +--ro extr-transceiver-ext:interval? oc-types:stat-interval
| | | +--ro extr-transceiver-ext:min-time? oc-types:timeticks64
| | | +--ro extr-transceiver-ext:max-time? oc-types:timeticks64
| | +--ro extr-transceiver-ext:baud-rate? uint64
| | +--ro extr-transceiver-ext:length-smf-km? string
| | +--ro extr-transceiver-ext:length-smf-m? uint64
| | +--ro extr-transceiver-ext:length50um-m? uint64
| | +--ro extr-transceiver-ext:length625um-m? uint64
| | +--ro extr-transceiver-ext:length-smf? uint64
| | +--ro extr-transceiver-ext:length-om5? uint64
| | +--ro extr-transceiver-ext:length-om4? uint64

```

```

| | +--ro extr-transceiver-ext:length-om3?      uint64
| | +--ro extr-transceiver-ext:length-om2?      uint64
| | +--ro extr-transceiver-ext:length-om1?      uint64
| | +--ro extr-transceiver-ext:length-copper?   string
| | +--ro extr-transceiver-ext: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?	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-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

```

```

type | | +--rw oc-linecard:power-admin-state? oc-platform-types:component-power-
type | +--ro oc-linecard:state
type | | +--ro oc-linecard:power-admin-state? oc-platform-types:component-power-
type | | x--ro oc-linecard:slot-id? string
type | +--rw oc-linecard:utilization
type | +--rw oc-linecard:resources
type | | +--rw oc-linecard:resource* [name]
type | | | +--rw oc-linecard:name -> ../config/name
type | | | +--rw oc-linecard:config
type | | | | +--rw oc-linecard:name? string
type | | | | +--rw oc-linecard:used-threshold-upper? oc-types:percentage
type | | | | +--rw oc-linecard:used-threshold-upper-clear? oc-types:percentage
type | | | +--ro oc-linecard:state
type | | | | +--ro oc-linecard:name? string
type | | | | +--ro oc-linecard:used-threshold-upper? oc-
types:percentage | | | +--ro oc-linecard:used-threshold-upper-clear? oc-
types:percentage | | | +--ro oc-linecard:used? uint64
types:percentage | | | +--ro oc-linecard:committed? uint64
types:percentage | | | +--ro oc-linecard:free? uint64
types:percentage | | | +--ro oc-linecard:max-limit? uint64
types:percentage | | | +--ro oc-linecard:high-watermark? uint64
types:percentage | | | +--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
type | | | +--rw extr-bmc:id? uint32
type | | | | +--rw extr-bmc:ip-mode? string
type | | | | +--rw extr-bmc:ip-gateway? oc-inet:ipv4-address
type | | | | +--rw extr-bmc:netmask? oc-inet:ipv4-address
type | | | | +--rw extr-bmc:ip-address? oc-inet:ipv4-address
type | | | | +--rw extr-bmc:enable? boolean
+--ro extr-bmc:state
type | | | | +--ro extr-bmc:id? uint32
type | | | | +--ro extr-bmc:ip-mode? string
type | | | | +--ro extr-bmc:ip-gateway? oc-inet:ipv4-address
type | | | | +--ro extr-bmc:netmask? oc-inet:ipv4-address
type | | | | +--ro extr-bmc:ip-address? oc-inet:ipv4-address
type | | | | +--ro extr-bmc:enable? boolean

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

```

```

state | | +--ro session-state? bfd-session-
state | | +--ro remote-session-state? bfd-session-
types:timeticks64 | | +--ro last-failure-time? oc-
| | +--ro failure-transitions? uint64
| | +--ro local-discriminator? string
| | +--ro remote-discriminator? string
code | | +--ro local-diagnostic-code? bfd-diagnostic-
code | | +--ro remote-diagnostic-code? bfd-diagnostic-
| | +--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
types:timeticks64 | | +--ro extr-bfd-ext:last-up-time? oc-
| | +--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
| | | | +--rw extr-acl-ext:mirror? string
| | | | +--rw extr-acl-ext:force-tc? uint8
| | | | +--rw extr-acl-ext:force-pcp? uint8
| | | | +--rw extr-acl-ext:force-dscp? uint8
| | | | +--rw extr-acl-ext:force-dp? uint8
| | | +--ro state
| | | | +--ro forwarding-action identityref
| | | | +--ro extr-acl-ext:count? boolean
| | | | +--ro extr-acl-ext:mirror? string
| | | | +--ro extr-acl-ext:force-tc? uint8
| | | | +--ro extr-acl-ext:force-pcp? uint8
| | | | +--ro extr-acl-ext:force-dscp? uint8
| | | | +--ro extr-acl-ext:force-dp? uint8
| | +--rw extr-acl-mac-ext:acl-mac
| | | +--rw extr-acl-mac-ext:config
| | | | +--rw extr-acl-mac-ext:source-mac? oc-yang:mac-address
| | | | +--rw extr-acl-mac-ext:source-mac-mask? oc-yang:mac-address
| | | | +--rw extr-acl-mac-ext:destination-mac? oc-yang:mac-address
| | | | +--rw extr-acl-mac-ext:destination-mac-mask? oc-yang:mac-address
| | | | +--rw extr-acl-mac-ext:pcp? uint8
| | | | +--rw extr-acl-mac-ext:ethertype? oc-pkt-match-
types:ethertype-type
| | | | +--rw extr-acl-mac-ext:vlan-tag? uint16
| | | | +--ro extr-acl-mac-ext:state
| | | | +--ro extr-acl-mac-ext:source-mac? oc-yang:mac-address
| | | | +--ro extr-acl-mac-ext:source-mac-mask? oc-yang:mac-address
| | | | +--ro extr-acl-mac-ext:destination-mac? oc-yang:mac-address
| | | | +--ro extr-acl-mac-ext:destination-mac-mask? oc-yang:mac-address
| | | | +--ro extr-acl-mac-ext:pcp? uint8
| | | | +--ro extr-acl-mac-ext:ethertype? oc-pkt-match-
types:ethertype-type
| | | | +--ro extr-acl-mac-ext:vlan-tag? uint16
| | +--rw extr-acl-ipv6-ext:acl-ipv6
| | | +--rw extr-acl-ipv6-ext:config
| | | | +--rw extr-acl-ipv6-ext:source-ipv6? oc-inet:ipv6-
address
| | | | +--rw extr-acl-ipv6-ext:source-ipv6-mask? oc-inet:ipv6-
address
| | | | +--rw extr-acl-ipv6-ext:destination-ipv6? oc-inet:ipv6-
address
| | | | +--rw extr-acl-ipv6-ext:destination-ipv6-mask? oc-inet:ipv6-
address
| | | | +--rw extr-acl-ipv6-ext:dscp? oc-inet:dscp
| | | | +--rw extr-acl-ipv6-ext:protocol? oc-pkt-match-
types:ip-protocol-type
| | | | +--rw extr-acl-ipv6-ext:vlan-tag? uint16
| | | | +--rw extr-acl-ipv6-ext:source-port? oc-pkt-match-
types:port-num-range
| | | | +--rw extr-acl-ipv6-ext:destination-port? oc-pkt-match-
types:port-num-range

```

```

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

```

```

|      | +--rw id?    oc-if:interface-id
|      +--ro state
|      | +--ro id?    oc-if:interface-id
|      +--rw ingress-acl-sets
|      | +--rw ingress-acl-set* [set-name type]
|      |   +--rw set-name    -> ../config/set-name
|      |   +--rw type        -> ../config/type
|      |   +--rw config
|      |   | +--rw set-name?  -> ../../../../acl-sets/acl-set/config/name
|      |   | +--rw type?      -> ../../../../acl-sets/acl-
set[name=current()]/../set-name]/config/type
|      |   +--ro state
|      |   | +--ro set-name?  -> ../../../../acl-sets/acl-set/config/name
|      |   | +--ro type?      -> ../../../../acl-sets/acl-
set[name=current()]/../set-name]/config/type
|      |   +--rw egress-acl-sets
|      |   | +--rw egress-acl-set* [set-name type]
|      |   |   +--rw set-name    -> ../config/set-name
|      |   |   +--rw type        -> ../config/type
|      |   |   +--rw config
|      |   |   | +--rw set-name?  -> ../../../../acl-sets/acl-set/config/name
|      |   |   | +--rw type?      -> ../../../../acl-sets/acl-
set[name=current()]/../set-name]/config/type
|      |   |   +--ro state
|      |   |   | +--ro set-name?  -> ../../../../acl-sets/acl-set/config/name
|      |   |   | +--ro type?      -> ../../../../acl-sets/acl-
set[name=current()]/../set-name]/config/type
|      |   +--rw extr-acl-ext:rbid-maps
|      |   | +--rw extr-acl-ext:rbid-map* [rbid]
|      |   |   +--rw extr-acl-ext:rbid    -> ../config/rbid
|      |   |   +--rw extr-acl-ext:config
|      |   |   | +--rw extr-acl-ext:rbid?  uint64
|      |   |   +--ro extr-acl-ext:state
|      |   |   | +--ro extr-acl-ext:rbid?          uint64
|      |   |   | +--ro extr-acl-ext:acl-type?      -> /oc-acl:acl/acl-sets/acl-set/
type
|      |   |   | +--ro extr-acl-ext:acl-name?      -> /oc-acl:acl/acl-sets/acl-set/
name
|      |   |   | +--ro extr-acl-ext:acl-direction? direction-enum
|      |   |   | +--ro extr-acl-ext:acl-seq-id?    -> /oc-acl:acl/acl-sets/acl-set/
acl-entries/acl-entry/sequence-id
|      |   |   | +--ro extr-acl-ext:feature-name?   string
|      |   |   | +--ro extr-acl-ext:feature-type?   feature-type-enum
|      |   |   | +--ro extr-acl-ext:feature-seq-id? uint16
|      |   |   | +--ro extr-acl-ext:service-intf-index? uint32
|      |   |   | +--ro extr-acl-ext:attachment-point-type? attachment-point-type-enum
module: openconfig-lacp
+--rw lacp
+--rw config
| +--rw system-priority?    uint16
| +--rw extr-lacp-ext:enabled? boolean
+--ro state
| +--ro system-priority?    uint16
| +--ro extr-lacp-ext:enabled? boolean
+--rw interfaces
+--rw interface* [name]
+--rw name    -> ../config/name
+--rw config
| +--rw name?          oc-if:base-interface-ref
| +--rw interval?      lacp-period-type
| +--rw lacp-mode?      lacp-activity-type
| +--rw system-id-mac?  oc-yang:mac-address
| +--rw system-priority? uint16

```



```

+--ro state
| +--ro name?          oc-if:base-interface-ref
| +--ro interval?      lacp-period-type
| +--ro lacp-mode?     lacp-activity-type
| +--ro system-id-mac? oc-yang:mac-address
| +--ro system-priority? uint16
+--rw members
+--rw member* [interface]
+--rw interface -> ../config/interface
+--rw config
| +--rw interface?      oc-if:base-interface-ref
| +--rw port-priority?  uint16
+--ro state
+--ro interface?          oc-if:base-
interface-ref
+--ro activity?          lacp-activity-
type
+--ro timeout?          lacp-timeout-type
+--ro synchronization?  lacp-
synchronization-type
+--ro aggregatable?     boolean
+--ro collecting?       boolean
+--ro distributing?     boolean
+--ro system-id?        oc-yang:mac-
address
+--ro oper-key?         uint16
+--ro partner-id?       oc-yang:mac-
address
+--ro partner-key?      uint16
+--ro port-num?         uint16
+--ro partner-port-num? uint16
+--ro last-change?      oc-
types:timeticks64
+--ro counters
| +--ro lacp-in-pkts?    oc-yang:counter64
| +--ro lacp-out-pkts?  oc-yang:counter64
| +--ro lacp-rx-errors? oc-yang:counter64
| +--ro lacp-tx-errors? oc-yang:counter64
| +--ro lacp-unknown-errors? oc-yang:counter64
| +--ro lacp-errors?    oc-yang:counter64
| +--ro lacp-timeout-transitions? oc-yang:counter64
+--ro extr-lacp-ext:port-id? string
+--ro extr-lacp-ext:rx-machine? rx-machine-state
+--ro extr-lacp-ext:rx-time?  uint32
+--ro extr-lacp-ext:tx-machine? tx-machine-state
+--ro extr-lacp-ext:mux-machine? mux-machine-state
+--ro extr-lacp-ext:mux-reason? string
+--ro extr-lacp-ext:actor-churn-machine? churn-machine-
state
+--ro extr-lacp-ext:partner-churn-machine? churn-machine-
state
+--ro extr-lacp-ext:actor-churn-count? oc-yang:counter64
+--ro extr-lacp-ext:partner-churn-count? oc-yang:counter64
+--ro extr-lacp-ext:actor-sync-transition-count? oc-yang:counter64
+--ro extr-lacp-ext:partner-sync-transition-count? oc-yang:counter64
+--ro extr-lacp-ext:actor-change-count? oc-yang:counter64
+--ro extr-lacp-ext:partner-change-count? oc-yang:counter64
+--ro extr-lacp-ext:actor-cds-churn-machine? churn-machine-
state
+--ro extr-lacp-ext:partner-cds-churn-machine? churn-machine-
state
+--ro extr-lacp-ext:actor-cds-churn-count? oc-yang:counter64
+--ro extr-lacp-ext:partner-cds-churn-count? oc-yang:counter64

```

```

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

```

```

|   +--rw mac-mobility
|   |   +--rw config
|   |   |   +--rw mac-mobility?                boolean
|   |   |   +--rw mac-mobility-window?          uint16
|   |   |   +--rw mac-mobility-threshold?        uint8
|   |   |   +--rw ip-mobility-threshold?         uint16
|   |   |   +--rw duplicate-ip-detection-interval? uint16
|   |   +--ro state
|   |   |   +--ro mac-mobility?                boolean
|   |   |   +--ro mac-mobility-window?          uint16
|   |   |   +--ro mac-mobility-threshold?        uint8
|   |   |   +--ro ip-mobility-threshold?         uint16
|   |   |   +--ro duplicate-ip-detection-interval? uint16
|   +--rw arp-proxy
|   |   +--rw config
|   |   |   +--rw arp-suppression?              boolean
|   |   |   +--rw extr-ni-ext:arp-snooping?      boolean
|   |   |   +--rw extr-ni-ext:arp-agetime?       uint16
|   |   +--ro state
|   |   |   +--ro arp-suppression?              boolean
|   |   |   +--ro extr-ni-ext:arp-snooping?      boolean
|   |   |   +--ro extr-ni-ext:arp-agetime?       uint16
|   +--rw nd-proxy
|   |   +--rw config
|   |   |   +--rw nd-suppression?              boolean
|   |   |   +--rw extr-ni-ext:nd-snooping?       boolean
|   |   |   +--rw extr-ni-ext:nd-agetime?       uint16
|   |   +--ro state
|   |   |   +--ro nd-suppression?              boolean
|   |   |   +--ro extr-ni-ext:nd-snooping?       boolean
|   |   |   +--ro extr-ni-ext:nd-agetime?       uint16
+--rw evpn
|   +--rw evpn-instances
|   |   +--rw evpn-instance* [evi]
|   |   |   +--rw evi                                -> ../config/evi
|   |   |   +--rw config
|   |   |   |   +--rw evi?                            string
|   |   |   |   +--rw encapsulation-type?            identityref
|   |   |   |   +--rw service-type?                  identityref
|   |   |   |   +--rw multicast-group?               oc-inet:ip-address
|   |   |   |   +--rw multicast-mask?                oc-inet:ip-address
|   |   |   |   +--rw replication-mode?              enumeration
|   |   |   |   +--rw route-distinguisher?          union
|   |   |   |   +--rw extr-ni-evpn-ext:nve?          string
|   |   |   |   +--rw extr-ni-evpn-ext:bridge-domain* oc-ni:network-instance-ref
|   |   |   |   +--rw extr-ni-evpn-ext:ignore-as?    boolean
|   |   |   +--ro state
|   |   |   |   +--ro evi?                            string
|   |   |   |   +--ro encapsulation-type?            identityref
|   |   |   |   +--ro service-type?                  identityref
|   |   |   |   +--ro multicast-group?               oc-inet:ip-address
|   |   |   |   +--ro multicast-mask?                oc-inet:ip-address
|   |   |   |   +--ro replication-mode?              enumeration
|   |   |   |   +--ro route-distinguisher?          union
|   |   |   |   +--ro extr-ni-evpn-ext:nve?          string
|   |   |   |   +--ro extr-ni-evpn-ext:bridge-domain* oc-ni:network-instance-ref
|   |   |   |   +--ro extr-ni-evpn-ext:ignore-as?    boolean
|   |   |   |   +--ro extr-ni-evpn-ext:refresh-reason? string
|   |   |   |   +--ro extr-ni-evpn-ext:rd-auto?      boolean
|   |   |   |   +--ro extr-ni-evpn-ext:import-rt-auto? boolean
|   |   |   |   +--ro extr-ni-evpn-ext:export-rt-auto? boolean
|   |   |   |   +--ro extr-ni-evpn-ext:tunnel-src?   string
|   |   |   |   +--ro extr-ni-evpn-ext:router-id?    string
|   |   |   |   +--ro extr-ni-evpn-ext:active?      boolean

```

```

|         +--rw import-export-policy
|         | +--rw config
|         | | +--rw export-route-target* union
|         | | +--rw import-route-target* union
|         | +--ro state
|         | | +--ro export-route-target* union
|         | | +--ro import-route-target* union
|         +--rw vxlan
|         | +--rw config
|         | | +--rw vni? oc-evpn-types:vni-id
|         | | +--rw overlay-endpoint-network-instance? -> /network-instances/
network-instance/name
|         | | +--rw overlay-endpoint? -> /network-instances/
network-instance[name=current()/../overlay-endpoint-network-instance]/connection-points/
connection-point/endpoints/endpoint/config/endpoint-id
|         | | +--rw host-reachability-bgp? boolean
|         | | +--rw multicast-group? oc-inet:ip-address
|         | | +--rw multicast-mask? oc-inet:ip-address
|         | +--ro state
|         | | +--ro vni? oc-evpn-types:vni-id
|         | | +--ro overlay-endpoint-network-instance? -> /network-instances/
network-instance/name
|         | | +--ro overlay-endpoint? -> /network-instances/
network-instance[name=current()/../overlay-endpoint-network-instance]/connection-points/
connection-point/endpoints/endpoint/config/endpoint-id
|         | | +--ro host-reachability-bgp? boolean
|         | | +--ro multicast-group? oc-inet:ip-address
|         | | +--ro multicast-mask? oc-inet:ip-address
|         | +--rw anycast-source-interface
|         | +--rw config
|         | | +--rw interface? -> /oc-if:interfaces/interface/name
|         | | +--rw subinterface? -> /oc-if:interfaces/interface[oc-
if:name=current()/../interface]/subinterfaces/subinterface/index
|         | +--ro state
|         | | +--ro interface? -> /oc-if:interfaces/interface/name
|         | | +--ro subinterface? -> /oc-if:interfaces/interface[oc-
if:name=current()/../interface]/subinterfaces/subinterface/index
|         +--rw pbb
|         | +--rw b-component* [b-component-name]
|         | | +--rw b-component-name -> ../config/b-component-name
|         | | +--rw config
|         | | | +--rw b-component-name? string
|         | | | +--rw backbone-src-mac? oc-yang:mac-address
|         | | +--ro state
|         | | | +--ro b-component-name? string
|         | | | +--ro backbone-src-mac? oc-yang:mac-address
|         | +--rw i-components
|         | | +--rw i-component* [i-sid]
|         | | | +--rw i-sid -> ../config/i-sid
|         | | | +--rw config
|         | | | | +--rw i-sid? uint32
|         | | | +--ro state
|         | | | | +--ro i-sid? uint32
|         +--rw extr-ni-evpn-ext:duplicate-host-detection
|         | +--rw extr-ni-evpn-ext:mac-detection
|         | | +--rw extr-ni-evpn-ext:config
|         | | | +--rw extr-ni-evpn-ext:move-count? uint32
|         | | | +--rw extr-ni-evpn-ext:detection-time? uint32
|         | | | +--rw extr-ni-evpn-ext:dampening-time? uint32
|         | | | +--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
| | | | +--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]
  |   |   +--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 multidestination-traffic? union
|         | | | +--ro learning-mode?    oc-evpn-types:learning-
mode
|         | | +--ro vni-state?          enumeration
|         | | +--ro svi-state?          enumeration
+--rw vlans
| +--rw vlan* [vlan-id]
| | +--rw vlan-id -> ../config/vlan-id
| | +--rw config
| | | +--rw vlan-id?  oc-vlan-types:vlan-id
| | +--ro state
| | | +--ro vlan-id?  oc-vlan-types:vlan-id
| | +--rw members
| | | +--ro member* []
| | | +--ro state
| | | +--ro interface? base-interface-ref
+--rw protocols
| +--rw protocol* [identifier name]
| | +--rw identifier -> ../config/identifier
| | +--rw name -> ../config/name
| | +--rw config
| | | +--rw identifier?      identityref
| | | +--rw name?           string
| | | +--rw enabled?        boolean
| | | +--rw default-metric?  uint32
| | | +--rw extr-ni-ext:default-distance? uint32
| | +--ro state
| | | +--ro identifier?      identityref
| | | +--ro name?           string
| | | +--ro enabled?        boolean
| | | +--ro default-metric?  uint32
| | | +--ro extr-ni-ext:default-distance? uint32
| +--rw static-routes
| | +--rw static* [prefix]
| | | +--rw prefix -> ../config/prefix
| | | +--rw config
| | | | +--rw prefix?      inet:ip-prefix
| | | | +--rw set-tag?     uint32
| | | | +--rw description? string
| | | +--ro state
| | | | +--ro prefix?      inet:ip-prefix
| | | | +--ro set-tag?     uint32
| | | | +--ro description? string
| | +--rw next-hops

```

```

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

```



```

| | | | +--rw identifier?   oc-inet:as-number
| | | | +--rw member-as*   oc-inet:as-number
| | | | +--ro state
| | | |   +--ro identifier?   oc-inet:as-number
| | | |   +--ro member-as*   oc-inet:as-number
| | | | +--rw graceful-restart
| | | |   +--rw config
| | | |     +--rw enabled?     boolean
| | | |     +--rw restart-time? uint16
| | | |     +--rw stale-routes-time? uint16
| | | |     +--rw helper-only? boolean
| | | |     +--ro state
| | | |       +--ro enabled?     boolean
| | | |       +--ro restart-time? uint16
| | | |       +--ro stale-routes-time? uint16
| | | |       +--ro helper-only? boolean
| | | | +--rw use-multiple-paths
| | | |   +--rw config
| | | |     +--rw enabled?     boolean
| | | |     +--ro state
| | | |       +--ro enabled?     boolean
| | | | +--rw ebgp
| | | |   +--rw config
| | | |     +--rw allow-multiple-as? boolean
| | | |     +--rw maximum-paths?   uint32
| | | |     +--ro state
| | | |       +--ro allow-multiple-as? boolean
| | | |       +--ro maximum-paths?   uint32
| | | | +--rw ibgp
| | | |   +--rw config
| | | |     +--rw maximum-paths?   uint32
| | | |     +--ro state
| | | |       +--ro maximum-paths?   uint32
| | | | +--rw afi-safis
| | | |   +--rw afi-safi* [afi-safi-name]
| | | |   +--rw afi-safi-name
| | | |   -> ../
config/afi-safi-name
| | | | +--rw config
| | | |   +--rw afi-safi-name?   identityref
| | | |   +--rw enabled?         boolean
| | | |   +--ro state
| | | |     +--ro afi-safi-name?   identityref
| | | |     +--ro enabled?         boolean
| | | |     +--ro total-paths?     uint32
| | | |     +--ro total-prefixes?  uint32
| | | | +--rw graceful-restart
| | | |   +--rw config
| | | |     +--rw enabled?     boolean
| | | |     +--ro state
| | | |       +--ro enabled?     boolean
| | | | +--rw use-multiple-paths
| | | |   +--rw config
| | | |     +--rw enabled?     boolean
| | | |     +--ro state
| | | |       +--ro enabled?     boolean
| | | | +--rw ebgp
| | | |   +--rw config
| | | |     +--rw allow-multiple-as? boolean
| | | |     +--rw maximum-paths?   uint32
| | | |     +--ro state
| | | |       +--ro allow-multiple-as? boolean
| | | |       +--ro maximum-paths?   uint32
| | | |       +--ro extr-bgp-ext:derived-maxpath? uint8
| | | | +--rw ibgp

```

```

| | | | | +--rw config
| | | | | | +--rw maximum-paths? uint32
| | | | | +--ro state
| | | | | | +--ro maximum-paths? uint32
| | | | | | +--ro extr-bgp-ext:derived-maxpath? uint8
| | | | | +--rw add-paths
| | | | | | +--rw config
| | | | | | | +--rw receive? boolean
| | | | | | +--ro state
| | | | | | | +--ro receive? boolean
| | | | | +--rw ipv4-unicast
| | | | | | +--rw config
| | | | | | | +--rw send-default-route? boolean
| | | | | | | +--rw extr-bgp-ext:next-hop-recursion? boolean
| | | | | | | +--rw extr-bgp-ext:next-hop-enable-default? boolean
| | | | | | +--ro state
| | | | | | | +--ro send-default-route? boolean
| | | | | | | +--ro extr-bgp-ext:next-hop-recursion? boolean
| | | | | | | +--ro extr-bgp-ext:next-hop-enable-default? boolean
| | | | | +--rw ipv6-unicast
| | | | | | +--rw config
| | | | | | | +--rw send-default-route? boolean
| | | | | | | +--rw extr-bgp-ext:next-hop-recursion? boolean
| | | | | | | +--rw extr-bgp-ext:next-hop-enable-default? boolean
| | | | | | +--ro state
| | | | | | | +--ro send-default-route? boolean
| | | | | | | +--ro extr-bgp-ext:next-hop-recursion? boolean
| | | | | | | +--ro extr-bgp-ext:next-hop-enable-default? boolean
| | | | | +--rw l2vpn-evpn
| | | | | | +--rw extr-bgp-ext:config
| | | | | | | +--rw extr-bgp-ext:retain-route-target-all? boolean
| | | | | | +--rw extr-bgp-ext:state
| | | | | | | +--rw extr-bgp-ext:retain-route-target-all? boolean
| | | | | +--rw extr-bgp-ext:prefix-independent-convergence
| | | | | | +--rw extr-bgp-ext:config
| | | | | | | +--rw extr-bgp-ext:enabled? boolean
| | | | | | +--ro extr-bgp-ext:state
| | | | | | | +--ro extr-bgp-ext:enabled? boolean
| | | | | +--rw extr-bgp-ext:network* [prefix]
| | | | | | +--rw extr-bgp-ext:prefix -> ../config/prefix
| | | | | | +--rw extr-bgp-ext:config
| | | | | | | +--rw extr-bgp-ext:prefix? oc-inet:ip-prefix
| | | | | | | +--rw extr-bgp-ext:policy? string
| | | | | | +--ro extr-bgp-ext:state
| | | | | | | +--ro extr-bgp-ext:prefix? oc-inet:ip-prefix
| | | | | | | +--ro extr-bgp-ext:policy? string
| | | | | +--rw dynamic-neighbor-prefixes
| | | | | | +--rw dynamic-neighbor-prefix* [prefix]
| | | | | | +--rw prefix -> ../config/prefix
| | | | | | +--rw config
| | | | | | | +--rw prefix? oc-inet:ip-prefix
| | | | | | | +--rw peer-group? -> ../../../../peer-
groups/peer-group/config/peer-group-name
| | | | | | | +--rw extr-bgp-ext:listen-limit? uint16
| | | | | | | +--ro state
| | | | | | | | +--ro prefix? oc-inet:ip-prefix
| | | | | | | | +--ro peer-group? -> ../../../../peer-
groups/peer-group/config/peer-group-name
| | | | | | | +--ro extr-bgp-ext:listen-limit? uint16
| | | | | | +--rw extr-bgp-ext:evpn
| | | | | | +--rw extr-bgp-ext:nves
| | | | | | | +--rw extr-bgp-ext:nve* [name]
| | | | | | | +--rw extr-bgp-ext:name -> ../config/name
| | | | | | +--rw extr-bgp-ext:config

```

```

| | | | +--rw extr-bgp-ext:name? string
| | | | +--rw extr-bgp-ext:l3vni? uint32
| | | | +--ro extr-bgp-ext:state
| | | | | +--ro extr-bgp-ext:name? string
| | | | | +--ro extr-bgp-ext:l3vni? uint32
| | | | +--rw extr-bgp-ext:afi-safis
| | | | | +--rw extr-bgp-ext:afi-safi* [afi-safi-name]
| | | | | +--rw extr-bgp-ext:afi-safi-name -> ../
config/afi-safi-name
| | | | +--rw extr-bgp-ext:config
| | | | | +--rw extr-bgp-ext:afi-safi-name? identityref
| | | | | +--rw extr-bgp-ext:ignore-as? boolean
| | | | | +--ro extr-bgp-ext:state
| | | | | | +--ro extr-bgp-ext:afi-safi-name? identityref
| | | | | | +--ro extr-bgp-ext:ignore-as? boolean
| | | | | +--rw extr-bgp-ext:import-export-policy
| | | | | | +--rw extr-bgp-ext:config
| | | | | | | +--rw extr-bgp-ext:export-route-target* union
| | | | | | | +--rw extr-bgp-ext:import-route-target* union
| | | | | | +--ro extr-bgp-ext:state
| | | | | | | +--ro extr-bgp-ext:export-route-target* union
| | | | | | | +--ro extr-bgp-ext:import-route-target* union
| | | | +--rw neighbors
| | | | | +--rw neighbor* [neighbor-address]
| | | | | | +--rw neighbor-address -> ../config/neighbor-address
| | | | | | +--rw config
| | | | | | | +--rw peer-group? -> ../../../../peer-groups/
peer-group/peer-group-name
| | | | | | +--rw neighbor-address? oc-inet:ip-address
| | | | | | +--rw neighbor-port? oc-inet:port-number
| | | | | | +--rw peer-as? oc-inet:as-number
| | | | | | +--rw description? string
| | | | | | +--rw extr-bgp-ext:admin-down? boolean
| | | | | | +--ro state
| | | | | | | +--ro peer-group?
-> ../../../../peer-groups/peer-group/peer-group-name
| | | | | | | +--ro neighbor-address? oc-
inet:ip-address
| | | | | | | +--ro neighbor-port? oc-
inet:port-number
| | | | | | | +--ro peer-as? oc-
inet:as-number
| | | | | | | +--ro local-as? oc-
inet:as-number
| | | | | | | +--ro session-state?
enumeration
| | | | | | | +--ro last-established? oc-
types:timeticks64
| | | | | | | +--ro established-transitions? oc-
yang:counter64
| | | | | | | +--ro supported-capabilities*
identityref
| | | | | | | +--ro messages
| | | | | | | | +--ro sent
| | | | | | | | | +--ro UPDATE? uint64
| | | | | | | | | +--ro NOTIFICATION? uint64
| | | | | | | | | +--ro last-notification-time? oc-
types:timeticks64
| | | | | | | | | +--ro last-notification-error-code? identityref
| | | | | | | | | +--ro last-notification-error-subcode? identityref
| | | | | | | | +--ro received
| | | | | | | | | +--ro UPDATE? uint64
| | | | | | | | | +--ro NOTIFICATION? uint64
| | | | | | | | | +--ro last-notification-time? oc-

```

```

types:timeticks64
|
| | +---ro last-notification-error-code? identityref
| | +---ro last-notification-error-subcode? identityref
| | +---ro dynamically-configured? boolean
| | +---ro extr-bgp-ext:router-id? oc-
yang:dotted-quad
|
| | +---ro extr-bgp-ext:admin-down? boolean
| | +---ro extr-bgp-ext:advertised-capabilities*
identityref
|
| | +---ro extr-bgp-ext:received-capabilities*
identityref
|
| | +---ro extr-bgp-ext:negotiated-capabilities*
identityref
|
| | +---ro extr-bgp-ext:advertised-afi-safi-capabilities? string
| | +---ro extr-bgp-ext:received-afi-safi-capabilities? string
| | +---ro extr-bgp-ext:negotiated-afi-safi-capabilities? string
| | +---rw timers
| | +---rw config
| | | +---rw connect-retry? uint16
| | | +---rw hold-time? uint16
| | | +---rw keepalive-interval? uint16
| | | +---rw minimum-advertisement-interval? uint16
| | +---ro state
| | | +---ro connect-retry? uint16
| | | +---ro hold-time? uint16
| | | +---ro keepalive-interval? uint16
| | | +---ro negotiated-hold-time? uint16
| | | +---ro extr-bgp-ext:remaining-keepalive? oc-
types:timeticks64
|
| | +---ro extr-bgp-ext:remaining-holdtime? oc-
types:timeticks64
|
| | +---ro extr-bgp-ext:remaining-connect-retry? oc-
types:timeticks64
|
| | +---rw transport
| | +---rw config
| | | +---rw local-address? union
| | +---ro state
| | | +---ro local-address? union
| | | +---ro local-port? oc-inet:port-number
| | | +---ro remote-port? oc-inet:port-number
| | | +---ro extr-bgp-ext:alt-local-address? union
| | +---rw graceful-restart
| | +---rw config
| | | +---rw enabled? boolean
| | | +---rw restart-time? uint16
| | | +---rw stale-routes-time? uint16
| | | +---rw helper-only? boolean
| | +---ro state
| | | +---ro enabled? boolean
| | | +---ro restart-time? uint16
| | | +---ro stale-routes-time? uint16
| | | +---ro helper-only? boolean
| | | +---ro peer-restart-time? uint16
| | | +---ro peer-restarting? boolean
| | | +---ro local-restarting? boolean
| | | +---ro extr-bgp-ext:peer-restart-timer-start-time? oc-
types:timeticks64
|
| | +---ro extr-bgp-ext:stale-routes-timer-start-time? oc-
types:timeticks64
|
| | +---rw ebgp-multihop
| | +---rw config
| | | +---rw enabled? boolean
| | | +---rw multihop-ttl? uint8
| | +---ro state

```


			+++ro peer-as?	oc-inet:as-number
			+++ro auth-password?	oc-types:routing-
password			+++ro description?	string
			+++ro extr-bgp-ext:admin-down?	boolean
			+++ro extr-bgp-ext:peer-group-af-type?	identityref
			+++ro extr-bgp-ext:nvo?	string
			+++ro extr-bgp-ext:local-as-forced?	uint16
			+++ro extr-bgp-ext:fast-external-failover?	boolean
			+++rw timers	
			+++rw config	
			+++rw connect-retry?	uint16
			+++rw hold-time?	uint16
			+++rw keepalive-interval?	uint16
			+++ro state	
			+++ro connect-retry?	uint16
			+++ro hold-time?	uint16
			+++ro keepalive-interval?	uint16
			+++rw transport	
			+++rw config	
			+++rw local-address?	union
			+++ro state	
			+++ro local-address?	union
			+++rw graceful-restart	
			+++rw config	
			+++rw enabled?	boolean
			+++rw restart-time?	uint16
			+++rw stale-routes-time?	uint16
			+++rw helper-only?	boolean
			+++ro state	
			+++ro enabled?	boolean
			+++ro restart-time?	uint16
			+++ro stale-routes-time?	uint16
			+++ro helper-only?	boolean
			+++rw ebgp-multihop	
			+++rw config	
			+++rw enabled?	boolean
			+++rw multihop-ttl?	uint8
			+++ro state	
			+++ro enabled?	boolean
			+++ro multihop-ttl?	uint8
			+++rw route-reflector	
			+++rw config	
			+++rw route-reflector-cluster-id?	oc-bgp-types:rr-cluster-
id-type			+++rw route-reflector-client?	boolean
			+++ro state	
			+++ro route-reflector-cluster-id?	oc-bgp-types:rr-cluster-
id-type			+++ro route-reflector-client?	boolean
			+++rw as-path-options	
			+++rw config	
			+++rw allow-own-as?	uint8
			+++rw disable-peer-as-filter?	boolean
			+++ro state	
			+++ro allow-own-as?	uint8
			+++ro disable-peer-as-filter?	boolean
			+++rw use-multiple-paths	
			+++rw config	
			+++rw enabled?	boolean
			+++ro state	
			+++ro enabled?	boolean
			+++rw ebgp	
			+++rw config	

```

| | | | +--rw allow-multiple-as? boolean
| | | | +--rw maximum-paths? uint32
| | | | +--ro state
| | | | +--ro allow-multiple-as? boolean
| | | | +--ro maximum-paths? uint32
| | | +--rw apply-policy
| | | | +--rw config
| | | | +--rw import-policy* -> /oc-rpol:routing-policy/policy-
definitions/policy-definition/name
| | | | +--rw export-policy* -> /oc-rpol:routing-policy/policy-
definitions/policy-definition/name
| | | | +--ro state
| | | | +--ro import-policy* -> /oc-rpol:routing-policy/policy-
definitions/policy-definition/name
| | | | +--ro export-policy* -> /oc-rpol:routing-policy/policy-
definitions/policy-definition/name
| | | | +--rw afi-safis
| | | | | +--rw afi-safi* [afi-safi-name]
| | | | | | +--rw afi-safi-name -> ../config/afi-safi-name
| | | | | | +--rw config
| | | | | | | +--rw afi-safi-name? identityref
| | | | | | | +--rw enabled? boolean
| | | | | | | +--rw extr-bgp-ext:nexthop-self? boolean
| | | | | | | +--rw extr-bgp-ext:nexthop-unchanged? boolean
| | | | | | +--ro state
| | | | | | | +--ro afi-safi-name? identityref
| | | | | | | +--ro enabled? boolean
| | | | | | | +--ro extr-bgp-ext:nexthop-self? boolean
| | | | | | | +--ro extr-bgp-ext:nexthop-unchanged? boolean
| | | | | | +--rw graceful-restart
| | | | | | | +--rw config
| | | | | | | | +--rw enabled? boolean
| | | | | | | +--ro state
| | | | | | | | +--ro enabled? boolean
| | | | | | +--rw add-paths
| | | | | | | +--rw config
| | | | | | | | +--rw receive? boolean
| | | | | | | +--ro state
| | | | | | | | +--ro receive? boolean
| | | | | | +--rw apply-policy
| | | | | | | +--rw config
| | | | | | | +--rw import-policy* -> /oc-rpol:routing-policy/
policy-definitions/policy-definition/name
| | | | | | | +--rw export-policy* -> /oc-rpol:routing-policy/
policy-definitions/policy-definition/name
| | | | | | | +--ro state
| | | | | | | +--ro import-policy* -> /oc-rpol:routing-policy/
policy-definitions/policy-definition/name
| | | | | | | +--ro export-policy* -> /oc-rpol:routing-policy/
policy-definitions/policy-definition/name
| | | | | +--rw ipv4-unicast
| | | | | | +--rw config
| | | | | | | +--rw send-default-route? boolean
| | | | | | | +--ro state
| | | | | | | +--ro send-default-route? boolean
| | | | | +--rw ipv6-unicast
| | | | | | +--rw config
| | | | | | | +--rw send-default-route? boolean
| | | | | | | +--ro state
| | | | | | | +--ro send-default-route? boolean
| | | | | +--rw l2vpn-evpn
| | | | +--rw enable-bfd
| | | | | +--rw config
| | | | | | +--rw enabled? boolean

```

```

| | | | +--rw extr-bfd-ext:profile? profile-ref
| | | | +--ro state
| | | | +--ro enabled? boolean
| | | | +--ro extr-bfd-ext:profile? profile-ref
| | | | +--ro extr-bfd-ext:session-Id? uint32
| | | | +--ro extr-bfd-ext:vrf-Id? uint32
| | | | +--ro extr-bfd-ext:source-Id? oc-inet:ip-prefix
| | | | +--ro extr-bfd-ext:destination-Id? oc-inet:ip-prefix
| | | | +--ro extr-bfd-ext:registration-status? boolean
| | | | +--ro extr-bfd-ext:session-status? uint8
| | | | +--ro extr-bfd-ext:status-code? uint8
| | | | +--ro extr-bfd-ext:time-stamp? oc-
types:timeticks64
| | | | +--rw extr-bgp-ext:neighbors
| | | | +--rw extr-bgp-ext:neighbor* [neighbor-address]
| | | | +--rw extr-bgp-ext:neighbor-address -> ../config/neighbor-
address
| | | | +--rw extr-bgp-ext:config
| | | | | +--rw extr-bgp-ext:neighbor-address? oc-inet:ip-address
| | | | +--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 neighbor-address? oc-inet:ip-address
| | | | | | | +--ro adj-rib-in-post
| | | | | | | | +--ro state
| | | | | | | +--ro routes
| | | | | | | | +--ro route* [prefix path-id]
| | | | | | | | | +--ro prefix -> ../state/prefix
| | | | | | | | | +--ro path-id -> ../state/path-id
| | | | | | | | +--ro state
| | | | | | | | +--ro prefix? oc-inet:ipv4-
prefix
| | | | | | | +--ro path-id? uint32
| | | | | | | +--ro attr-index?
-> ../../../../../../../../../../../../../../attr-sets/attr-set/state/index
| | | | | | | +--ro community-index?
-> ../../../../../../../../../../../../../../communities/community/state/index
| | | | | | | +--ro ext-community-index?
-> ../../../../../../../../../../../../../../ext-communities/ext-community/state/index
| | | | | | | +--ro last-modified? oc-
types:timeticks64
| | | | | | | +--ro valid-route? boolean
| | | | | | | +--ro invalid-reason? identityref
| | | | | | | +--ro best-path? boolean
| | | | | | | +--ro extr-rib-bgp-ext:peer-groups
| | | | | | | | +--ro extr-rib-bgp-ext:peer-group* [peer-group-name]
| | | | | | | | +--ro extr-rib-bgp-ext:peer-group-name -> ../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:state
| | | | | | | | | +--ro extr-rib-bgp-ext:routes
| | | | | | | | | +--ro extr-rib-bgp-ext:route* [prefix path-id]
| | | | | | | | | +--ro extr-rib-bgp-ext:prefix -> ../state/
prefix
| | | | | | | | | +--ro extr-rib-bgp-ext:path-id -> ../state/
path-id
| | | | | | | | | +--ro extr-rib-bgp-ext:state
| | | | | | | | | +--ro extr-rib-bgp-
ext:prefix? oc-inet:ipv4-prefix
| | | | | | | | | +--ro extr-rib-bgp-ext:path-

```

```

id?                uint32
index?             -> ../../../../../../../../../../oc-ni:attr-sets/attr-set/state/index
index?             -> ../../../../../../../../../../oc-ni:communities/community/state/index
index?             -> ../../../../../../../../../../oc-ni:ext-communities/ext-community/state/index
modified?          oc-types:timeticks64
route?             boolean
reason?            identityref
inet:ipv6-prefix
types:timeticks64
prefix

+--ro extr-rib-bgp-ext:attr-
+--ro extr-rib-bgp-ext:community-
+--ro extr-rib-bgp-ext:ext-community-
+--ro extr-rib-bgp-ext:last-
+--ro extr-rib-bgp-ext:valid-
+--ro extr-rib-bgp-ext:invalid-
+--ro ipv6-unicast
+--ro loc-rib
+--ro state
+--ro routes
+--ro route* [prefix origin path-id]
+--ro prefix -> ../state/prefix
+--ro origin -> ../state/origin
+--ro path-id -> ../state/path-id
+--ro state
+--ro prefix?
+--ro origin?
+--ro path-id?
+--ro attr-index?
+--ro community-index?
+--ro ext-community-index?
+--ro last-modified?
+--ro valid-route?
+--ro invalid-reason?
+--ro extr-rib-bgp-ext:multi-path?
+--ro extr-rib-bgp-ext:stale?
+--ro extr-rib-bgp-ext:primary?
+--ro extr-rib-bgp-ext:secondary?
+--ro extr-rib-bgp-ext:internal?
+--ro extr-rib-bgp-ext:extrenal?
+--ro extr-rib-bgp-ext:local?
+--ro extr-rib-bgp-ext:redist?
+--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?
+--ro path-id?
+--ro attr-index?
+--ro community-index?
+--ro ext-community-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?		-> ../../../../../../../../../../../../oc-ni:attr-sets/attr-set/state/index			
				+--ro extr-rib-bgp-ext:community-	
index?		-> ../../../../../../../../../../../../oc-ni:communities/community/state/index			
				+--ro extr-rib-bgp-ext:ext-community-	
index?		-> ../../../../../../../../../../../../oc-ni:ext-communities/ext-community/state/index			
				+--ro extr-rib-bgp-ext:last-	
modified?		oc-types:timeticks64			
				+--ro extr-rib-bgp-ext:valid-	
route?		boolean			
				+--ro extr-rib-bgp-ext:invalid-	
reason?		identityref			
			+--ro l2vpn-evpn		
			+--ro neighbors		
			+--ro neighbor* [neighbor-address]		
			+--ro neighbor-address	-> ../state/neighbor-address	
			+--ro state		
			+--ro neighbor-address?	oc-inet:ip-address	
			+--ro adj-rib-in-post		
			+--ro extr-rib-bgp-ext:type-two-mac-ip-advertisement		
			+--ro extr-rib-bgp-ext:type-two-route* [ethernet-tag mac-address mac-length ip-prefix ip-length]		
				+--ro extr-rib-bgp-ext:ethernet-tag	-> ../state/ethernet-tag
state/ethernet-tag					
				+--ro extr-rib-bgp-ext:mac-address	-> ../state/mac-address
state/mac-address					
				+--ro extr-rib-bgp-ext:mac-length	-> ../state/mac-length
state/mac-length					
				+--ro extr-rib-bgp-ext:ip-prefix	-> ../state/ip-prefix
state/ip-prefix					
				+--ro extr-rib-bgp-ext:ip-length	-> ../state/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					

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

[illegible]

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?			-> ../../../../../../../../../../../../../../oc-ni:attr-sets/attr-set/			+--ro extr-rib-bgp-ext:community-
state/index						+--ro extr-rib-bgp-ext:ext-community-
index?			-> ../../../../../../../../../../../../../../oc-ni:communities/community/			+--ro adj-rib-out-pre
state/index						+--ro adj-rib-out-post
index?			-> ../../../../../../../../../../../../../../oc-ni:ext-communities/ext-			+--ro extr-rib-bgp-ext:nvo-
community/state/index						-> ../state/nvo-name
						+--ro extr-rib-bgp-ext:route-
						-> ../state/route-distinguisher
						+--ro extr-rib-bgp-ext:state
						+--ro extr-rib-bgp-ext:nvo-name?
distinguisher]						+--ro extr-rib-bgp-ext:route-distinguisher? oc-
						nmi-types:route-distinguisher
name						+--ro extr-rib-bgp-ext:type-two-mac-ip-advertisement
distinguisher						+--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 -> ../
string						+--ro extr-rib-bgp-ext:mac-address -> ../
ni-types:route-distinguisher						+--ro extr-rib-bgp-ext:mac-length -> ../
						+--ro extr-rib-bgp-ext:ip-prefix -> ../
state/ethernet-tag						+--ro extr-rib-bgp-ext:ip-length -> ../
state/mac-address						+--ro extr-rib-bgp-ext:state
state/mac-length						+--ro extr-rib-bgp-ext:ethernet-tag? oc-
state/ip-prefix						+--ro extr-rib-bgp-ext:mac-address? oc-
state/ip-length						+--ro extr-rib-bgp-ext:mac-length?
						+--ro extr-rib-bgp-ext:ip-prefix? oc-
evpn-types:ethernet-tag						
yang:mac-address						
uint32						
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?					-> ../../../../../../../../../../../../../../oc-ni:attr-sets/attr-set/
state/index					
					+--ro extr-rib-bgp-ext:community-
index?					-> ../../../../../../../../../../../../../../oc-ni:communities/community/
state/index					
					+--ro extr-rib-bgp-ext:ext-community-
index?					-> ../../../../../../../../../../../../../../oc-ni:ext-communities/ext-
community/state/index					
					+--ro extr-rib-bgp-ext:multi-
path?					boolean
					+--ro extr-rib-bgp-
ext:stale?					boolean
					+--ro extr-rib-bgp-
ext:primary?					boolean
					+--ro extr-rib-bgp-
ext:secondary?					boolean
					+--ro extr-rib-bgp-
ext:internal?					boolean
					+--ro extr-rib-bgp-
ext:extrenal?					boolean
					+--ro extr-rib-bgp-
ext:local?					boolean
					+--ro extr-rib-bgp-
ext:redist?					boolean
					+--ro extr-rib-bgp-ext:type-three-inclusive-
multicast-ethernet-tag					
					+--ro extr-rib-bgp-ext:type-three-route*
[ethernet-tag	originating-router-ip	originator-ip-length]			
					+--ro extr-rib-bgp-ext:ethernet-
tag					-> ../state/ethernet-tag
					+--ro extr-rib-bgp-ext:originating-router-

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


```

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

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

id?				+++ro extr-rib-bgp-ext:peer-path-
distinguisher?				+++ro extr-rib-bgp-ext:source-route-
address-family?				+++ro extr-rib-bgp-ext:source-
ext:label?				+++ro extr-rib-bgp-
ext:label2?				+++ro extr-rib-bgp-
ext:bestpath?				+++ro extr-rib-bgp-
modified?				+++ro extr-rib-bgp-ext:last-
route?				+++ro extr-rib-bgp-ext:valid-
index?				+++ro extr-rib-bgp-ext:attr-
state/index				+++ro extr-rib-bgp-ext:community-
index?				+++ro extr-rib-bgp-ext:ext-community-
state/index				+++ro extr-rib-bgp-ext:peer-groups
peer-group-name				+++ro extr-rib-bgp-ext:peer-group* [peer-group-name]
				+++ro extr-rib-bgp-ext:peer-group-name -> ../state/
				+++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
evpn-types:ethernet-tag				+++ro extr-rib-bgp-ext:ethernet-tag? oc-
yang:mac-address				+++ro extr-rib-bgp-ext:mac-address? oc-
uint32				+++ro extr-rib-bgp-ext:mac-length?
inet:ip-prefix				+++ro extr-rib-bgp-ext:ip-prefix? oc-
uint32				+++ro extr-rib-bgp-ext:ip-length?
path-id source-route-distinguisher source-address-family]				+++ro extr-rib-bgp-ext:paths
ip				+++ro extr-rib-bgp-ext:path* [peer-ip peer-
id				+++ro extr-rib-bgp-ext:peer-
				+++ro extr-rib-bgp-ext:peer-path-
				+++ro extr-rib-bgp-ext:source-route-

```

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

```

ext:label2? | | string | +--ro extr-rib-bgp-
| | | | +--ro extr-rib-bgp-ext:last-
ext:bestpath? | | boolean | +--ro extr-rib-bgp-ext:valid-
| | | | +--ro extr-rib-bgp-ext:attr-
modified? | | oc-types:timeticks64 | +--ro extr-rib-bgp-ext:community-
| | | | +--ro extr-rib-bgp-ext:ext-community-
route? | | boolean | +--ro extr-rib-bgp-ext:state/index
| | | | -> ../state/index
index? | | -> ../state/index
state/index | | | | +--ro extr-rib-bgp-ext:community-
| | | | +--ro extr-rib-bgp-ext:ext-community-
index? | | -> ../state/index
state/index | | | | +--ro extr-rib-bgp-ext:state/index
| | | | +--ro extr-bgp-ext:tunnels
| | | | +--ro extr-bgp-ext:tunnel* [nve dst-ip]
| | | | +--ro extr-bgp-ext:nve -> ../state/nve
| | | | +--ro extr-bgp-ext:dst-ip -> ../state/dst-ip
| | | | +--ro extr-bgp-ext:state
| | | | +--ro extr-bgp-ext:tunnel-type? extr-bgp-types:tunnel-types
| | | | +--ro extr-bgp-ext:nve? string
| | | | +--ro extr-bgp-ext:dst-ip? string
| | | | +--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-pgrmmerrs:programming-errors
| +--rw oc-pgrmmerrs:ip-routes
| | +--rw oc-pgrmmerrs:config
| | | +--rw oc-pgrmmerrs:enabled? boolean
| | | +--ro oc-pgrmmerrs:state
| | | | +--ro oc-pgrmmerrs:total-errors? oc-yang:counter64
| | | | +--ro oc-pgrmmerrs:enabled? boolean
| | | +--ro oc-pgrmmerrs:failed-routes
| | | | +--ro oc-pgrmmerrs:failed* [prefix]
| | | | | +--ro oc-pgrmmerrs:prefix -> ../state/prefix
| | | | | +--ro oc-pgrmmerrs:state
| | | | | +--ro oc-pgrmmerrs:prefix? oc-inet:ip-prefix
| | | | | +--ro oc-pgrmmerrs:time? oc-types:timeticks64
| | | +--ro oc-pgrmmerrs:stale-routes
| | | | +--ro oc-pgrmmerrs:stale* [prefix]
| | | | | +--ro oc-pgrmmerrs:prefix -> ../state/prefix
| | | | | +--ro oc-pgrmmerrs:state
| | | | | +--ro oc-pgrmmerrs:prefix? oc-inet:ip-prefix
| | | | | +--ro oc-pgrmmerrs:time? oc-types:timeticks64
| | | +--ro oc-pgrmmerrs:drop-routes
| | | | +--ro oc-pgrmmerrs:drop* [prefix]
| | | | | +--ro oc-pgrmmerrs:prefix -> ../state/prefix
| | | | | +--ro oc-pgrmmerrs:state
| | | | | +--ro oc-pgrmmerrs:prefix? oc-inet:ip-prefix
| | | | | +--ro oc-pgrmmerrs: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: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: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:statistics
| | | +--ro extr-ni-tables-network-ext:state
| | | | +--ro extr-ni-tables-network-ext:total-route-count? uint32
| | | | +--ro extr-ni-tables-network-ext:ecmp-max-paths? uint32
| | | | +--ro extr-ni-tables-network-ext:resilient-hash? boolean
| | | | +--ro extr-ni-tables-network-ext:total-next-hop-groups? uint32
| | | | +--ro extr-ni-tables-network-ext:one-path-next-hop-groups? uint32
| | | | +--ro extr-ni-tables-network-ext:ecmp-next-hop-groups? uint32
| | | +--ro extr-ni-tables-network-ext:protocol-stats
| | | | +--ro extr-ni-tables-network-ext:protocol-stat* [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:total-route-count? uint32
| | | +--ro extr-ni-tables-network-ext:prefix-stats
| | | +--ro extr-ni-tables-network-ext:prefix-stat* [prefix-len]
| | | +--ro extr-ni-tables-network-ext:prefix-len -> ../state/prefix-
len
| | | +--ro extr-ni-tables-network-ext:state
| | | +--ro extr-ni-tables-network-ext:prefix-len? uint8
| | | +--ro extr-ni-tables-network-ext:total-route-count? uint32
| | | +--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:statistics
| | | +--ro extr-ni-tables-network-ext:state

```

```

| | | +--ro extr-ni-tables-network-ext:total-route-count? uint32
| | | +--ro extr-ni-tables-network-ext:ecmp-max-paths? uint32
| | | +--ro extr-ni-tables-network-ext:resilient-hash? boolean
| | | +--ro extr-ni-tables-network-ext:total-next-hop-groups? uint32
| | | +--ro extr-ni-tables-network-ext:one-path-next-hop-groups? uint32
| | | +--ro extr-ni-tables-network-ext:ecmp-next-hop-groups? uint32
| | | +--ro extr-ni-tables-network-ext:protocol-stats
| | | +--ro extr-ni-tables-network-ext:protocol-stat* [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:total-route-count? uint32
| | | +--ro extr-ni-tables-network-ext:prefix-stats
| | | +--ro extr-ni-tables-network-ext:prefix-stat* [prefix-len]
| | | +--ro extr-ni-tables-network-ext:prefix-len -> ../state/prefix-
len
| | | +--ro extr-ni-tables-network-ext:state
| | | +--ro extr-ni-tables-network-ext:prefix-len? uint8
| | | +--ro extr-ni-tables-network-ext:total-route-count? uint32
| | | +--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
| | +--ro extr-ni-tables-network-ext:secondary-active?
boolean
| | +--ro extr-ni-tables-network-ext:next-hops*
-> ../../../../next-hops/next-hop/state/index
| | +--ro extr-ni-tables-network-ext:protocol-next-hops*
-> ../../../../next-hops/next-hop/state/index
| | +--ro extr-ni-tables-network-ext:secondary-protocol-next-hops*
-> ../../../../next-hops/next-hop/state/index
| | +--ro extr-ni-tables-network-ext:next-hops
| | | +--ro extr-ni-tables-network-ext:next-hop* [index]
| | | +--ro extr-ni-tables-network-ext:index -> ../state/index
| | | +--ro extr-ni-tables-network-ext:state
| | | | +--ro extr-ni-tables-network-ext:index? uint64
| | | | +--ro extr-ni-tables-network-ext:type? extr-ni-
types:next-hop-type
| | | | +--ro extr-ni-tables-network-ext:network-instance-name? string
| | | | +--ro extr-ni-tables-network-ext:ip-address? oc-inet:ip-
address
| | | | +--ro extr-ni-tables-network-ext:mac-address? oc-yang:mac-
address
| | | +--ro extr-ni-tables-network-ext:interface-ref
| | | +--ro extr-ni-tables-network-ext: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-i2c-fault:i2c-fault
| +---rw extr-i2c-fault:config
| | +---rw extr-i2c-fault:threshold?  uint16
| +---ro extr-i2c-fault:state
| +---ro extr-i2c-fault:threshold?    uint16
| +---ro extr-i2c-fault:count?        uint16
| +---ro extr-i2c-fault:system-fault-triggered?  boolean
| +---ro extr-i2c-fault:timestamp?     oc-types:timeticks64
| +---ro extr-i2c-fault:interfaces*    oc-if:base-interface-ref
+---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:l3
| | +---rw extr-sys-ext:tables-network-summary
| | | +---rw extr-sys-ext:address-family-stats
| | | +---ro extr-sys-ext:address-family* [af-name]
| | | +---ro extr-sys-ext:af-name        -> ../state/af-name
| | | +---ro extr-sys-ext:state
| | | | +---ro extr-sys-ext:af-name?      identityref
| | | | +---ro extr-sys-ext:total-next-hop-groups?  uint32
| | | | +---ro extr-sys-ext:one-path-next-hop-groups?  uint32
| | | | +---ro extr-sys-ext:ecmp-next-hop-groups?    uint32
| | | | +---ro extr-sys-ext:total-route-count?      uint32
| +---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-ext:mgmt-acl
| +--rw extr-sys-ext:mgmt-acl-names
| | +--ro extr-sys-ext:state
| |   +--ro extr-sys-ext:ipv4-acl? string
| |   +--ro extr-sys-ext:ipv6-acl? string
| +--rw extr-sys-ext:counters
|   +--ro extr-sys-ext:counter* [acl-name afi-id seq-no]
|     +--ro extr-sys-ext:acl-name -> ../state/acl-name
|     +--ro extr-sys-ext:afi-id -> ../state/afi-id
|     +--ro extr-sys-ext:seq-no -> ../state/seq-no
|   +--ro extr-sys-ext:state
|     +--ro extr-sys-ext:acl-name? string
|     +--ro extr-sys-ext:afi-id? string
|     +--ro extr-sys-ext:seq-no? uint32
|     +--ro extr-sys-ext:in-pkts? uint64
|     +--ro extr-sys-ext:in-octets? uint64
+--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-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:router-advertisement
| | +--rw oc-ip:config
| | | +--rw oc-ip:enable? boolean
| | | +--rw oc-ip:interval? uint32
| | | +--rw oc-ip:lifetime? uint32
| | | x--rw oc-ip:suppress? boolean
| | | +--rw oc-ip:mode? enumeration
| | | +--rw oc-ip:managed? boolean
| | | +--rw oc-ip:other-config? boolean
| | | +--rw extr-ip-ext:min-interval? uint32
| | | +--rw extr-ip-ext:hop-limit? uint8
| | +--ro oc-ip:state
| | | +--ro oc-ip:enable? boolean
| | | +--ro oc-ip:interval? uint32
| | | +--ro oc-ip:lifetime? uint32
| | | x--ro oc-ip:suppress? boolean
| | | +--ro oc-ip:mode? enumeration
| | | +--ro oc-ip:managed? boolean
| | | +--ro oc-ip:other-config? boolean
| | | +--ro extr-ip-ext:min-interval? uint32
| | | +--ro extr-ip-ext:hop-limit? uint8
| | | +--ro extr-ip-ext:last-ra-tx? oc-types:timeticks64
| | | +--ro extr-ip-ext:next-ra-tx? oc-types:timeticks64
| +--rw oc-ip:prefixes
| | +--rw oc-ip:prefix* [prefix]
| | | +--rw oc-ip:prefix -> ../config/prefix
| | | +--rw oc-ip:config
| | | | +--rw oc-ip:prefix? oc-inet:ipv6-prefix
| | | | +--rw oc-ip:valid-lifetime? uint32
| | | | +--rw oc-ip:preferred-lifetime? uint32
| | | | +--rw oc-ip:disable-advertisement? boolean
| | | | +--rw oc-ip:disable-autoconfiguration? boolean
| | | | +--rw oc-ip:enable-onlink? boolean
| | | +--ro oc-ip:state
| | | | +--ro oc-ip:prefix? oc-inet:ipv6-prefix
| | | | +--ro oc-ip:valid-lifetime? uint32
| | | | +--ro oc-ip:preferred-lifetime? uint32
| | | | +--ro oc-ip:disable-advertisement? boolean
| | | | +--ro oc-ip:disable-autoconfiguration? boolean
| | | | +--ro oc-ip:enable-onlink? boolean
| +--rw oc-ip:neighbors
| | +--rw oc-ip:neighbor* [ip]
| | | +--rw oc-ip:ip -> ../config/ip
| | | +--rw oc-ip:config
| | | | +--rw oc-ip:ip? oc-inet:ipv6-address
| | | | +--rw oc-ip:link-layer-address oc-yang:phys-address
| | | +--ro oc-ip:state
| | | | +--ro oc-ip:ip? oc-inet:ipv6-address
| | | | +--ro oc-ip:link-layer-address oc-yang:phys-address
| | | | +--ro oc-ip:origin? neighbor-origin
| | | | +--ro oc-ip:is-router? boolean
| | | | +--ro oc-ip:neighbor-state? enumeration
| +--rw oc-ip:config
| | +--rw oc-ip:mtu? uint32
| | +--rw oc-ip:dup-addr-detect-transmits? uint32

```

```

|         | +--rw oc-ip:dhcp-client?                boolean
|         | +--rw extr-ip-ext:neighbor-reachabletime? uint16
|         +--ro oc-ip:state
|         | +--ro oc-ip:mtu?                        uint32
|         | +--ro oc-ip:dup-addr-detect-transmits?  uint32
|         | +--ro oc-ip:dhcp-client?                boolean
|         | +--ro oc-ip:counters
|         | | +--ro oc-ip:in-pkts?                  oc-yang:counter64
|         | | +--ro oc-ip:in-octets?                 oc-yang:counter64
|         | | +--ro oc-ip:in-error-pkts?             oc-yang:counter64
|         | | +--ro oc-ip:in-forwarded-pkts?         oc-yang:counter64
|         | | +--ro oc-ip:in-forwarded-octets?       oc-yang:counter64
|         | | +--ro oc-ip:in-discarded-pkts?         oc-yang:counter64
|         | | +--ro oc-ip:out-pkts?                  oc-yang:counter64
|         | | +--ro oc-ip:out-octets?                 oc-yang:counter64
|         | | +--ro oc-ip:out-error-pkts?            oc-yang:counter64
|         | | +--ro oc-ip:out-forwarded-pkts?        oc-yang:counter64
|         | | +--ro oc-ip:out-forwarded-octets?      oc-yang:counter64
|         | | +--ro oc-ip:out-discarded-pkts?        oc-yang:counter64
|         | +--ro extr-ip-ext:neighbor-reachabletime? uint16
|         +--rw oc-ip-ext:autoconf
|         | +--rw oc-ip-ext:config
|         | | +--rw oc-ip-ext:create-global-addresses? boolean
|         | +--ro oc-ip-ext:state
|         | | +--ro oc-ip-ext:create-global-addresses? boolean
+--rw oc-eth:ethernet
| +--rw oc-eth:config
| | +--rw oc-eth:mac-address?                        oc-yang:mac-address
| | +--rw oc-eth:auto-negotiate?                    boolean
| | +--rw oc-eth:duplex-mode?                        enumeration
| | +--rw oc-eth:port-speed?                         identityref
| | +--rw oc-eth:fec-mode?                           identityref
| | +--rw oc-lag:aggregate-id?                      -> /oc-if:interfaces/
interface/name
| | +--rw extr-lacp-ext:port-priority?                uint16
| | +--rw extr-lacp-ext:interval?                     oc-lacp:lacp-period-type
| | +--rw extr-lacp-ext:lacp-mode?                   oc-lacp:lacp-activity-type
| | +--rw extr-eth-ext:fec
| | | +--rw extr-eth-ext:fec-mode? fec-mode-type
| | +--rw extr-eth-ext:link-fault-signaling?          boolean
| | +--rw extr-eth-ext:interfaces-auto?               boolean
| | +--rw extr-eth-ext:interfaces-auto-negotiation?   boolean
| | +--rw extr-eth-ext:interfaces-loopback-mode?      boolean
| +--ro oc-eth:state
| | +--ro oc-eth:mac-address?                          oc-yang:mac-address
| | +--ro oc-eth:auto-negotiate?                      boolean
| | +--ro oc-eth:duplex-mode?                         enumeration
| | +--ro oc-eth:port-speed?                          identityref
| | +--ro oc-eth:fec-mode?                            identityref
| | +--ro oc-eth:hw-mac-address?                      oc-yang:mac-address
| | +--ro oc-eth:negotiated-duplex-mode?              enumeration
| | +--ro oc-eth:negotiated-port-speed?               identityref
| | +--ro oc-eth:counters
| | | +--ro oc-eth:in-mac-control-frames?             oc-yang:counter64
| | | +--ro oc-eth:in-mac-pause-frames?               oc-yang:counter64
| | | +--ro oc-eth:in-oversize-frames?                 oc-yang:counter64
| | | +--ro oc-eth:in-undersize-frames?                oc-yang:counter64
| | | +--ro oc-eth:in-jabber-frames?                  oc-yang:counter64
| | | +--ro oc-eth:in-fragment-frames?                oc-yang:counter64
| | | +--ro oc-eth:in-8021q-frames?                   oc-yang:counter64
| | | +--ro oc-eth:in-crc-errors?                     oc-yang:counter64
| | | +--ro oc-eth:in-block-errors?                   oc-yang:counter64
| | | +--ro oc-eth:in-carrier-errors?                 oc-yang:counter64
| | | +--ro oc-eth:in-interrupted-tx?                 oc-yang:counter64

```

```

| | | +--ro oc-eth:in-late-collision?          oc-yang:counter64
| | | +--ro oc-eth:in-mac-errors-rx?          oc-yang:counter64
| | | +--ro oc-eth:in-single-collision?       oc-yang:counter64
| | | +--ro oc-eth:in-symbol-error?          oc-yang:counter64
| | | +--ro oc-eth:in-maxsize-exceeded?      oc-yang:counter64
| | | +--ro oc-eth:out-mac-control-frames?    oc-yang:counter64
| | | +--ro oc-eth:out-mac-pause-frames?      oc-yang:counter64
| | | +--ro oc-eth:out-8021q-frames?         oc-yang:counter64
| | | +--ro oc-eth:out-mac-errors-tx?        oc-yang:counter64
| | | +--ro oc-eth-ext:in-distribution
| | | | +--ro oc-eth-ext:in-frames-64-octets? oc-yang:counter64
| | | | +--ro oc-eth-ext:in-frames-65-127-octets? oc-yang:counter64
| | | | +--ro oc-eth-ext:in-frames-128-255-octets? oc-yang:counter64
| | | | +--ro oc-eth-ext:in-frames-256-511-octets? oc-yang:counter64
| | | | +--ro oc-eth-ext:in-frames-512-1023-octets? oc-yang:counter64
| | | | +--ro oc-eth-ext:in-frames-1024-1518-octets? oc-yang:counter64
| | | +--ro extr-eth-ext:bandwidth-utilization
| | | | +--ro extr-eth-ext:in-pkts-per-sec?    uint64
| | | | +--ro extr-eth-ext:out-pkts-per-sec?   uint64
| | | | +--ro extr-eth-ext:in-bits-per-sec?    uint64
| | | | +--ro extr-eth-ext:out-bits-per-sec?   uint64
| | | | +--ro extr-eth-ext:in-bandwidth-percentage? oc-types:percentage
| | | | +--ro extr-eth-ext:out-bandwidth-percentage? oc-types:percentage
| | | +--ro extr-eth-ext:eth-fec-counters
| | | | +--ro extr-eth-ext:fec-uncorrected-pkts? oc-yang:counter64
| | | | +--ro extr-eth-ext:fec-corrected-pkts?  oc-yang:counter64
| | | +--ro extr-eth-ext:in-overflow-frames?   oc-yang:counter64
| | | +--ro extr-eth-ext:out-carrier-errors-tx? oc-yang:counter64
| | | +--ro extr-eth-ext:out-collisions-tx?    oc-yang:counter64
| | +--ro oc-lag:aggregate-id?                 -> /oc-if:interfaces/
interface/name
| | +--ro extr-lacp-ext:port-priority?          uint16
| | +--ro extr-lacp-ext:interval?              oc-lacp:lacp-period-
type
| | +--ro extr-lacp-ext:lacp-mode?              oc-lacp:lacp-activity-
type
| | +--ro extr-eth-ext:ethernet-link-dampening-status
| | | +--ro extr-eth-ext:link-dampening-status? uint32
| | | +--ro extr-eth-ext:last-updated?          oc-types:timeticks64
| | +--ro extr-eth-ext:fec
| | | +--ro extr-eth-ext:fec-mode? fec-mode-type
| | +--ro extr-eth-ext:link-fault-signaling?    boolean
| | +--ro extr-eth-ext:link-fault-status?       string
| | +--ro extr-eth-ext:local-fault-count?       uint64
| | +--ro extr-eth-ext:remote-fault-count?      uint64
| | +--ro extr-eth-ext:last-local-fault?        oc-types:timeticks64
| | +--ro extr-eth-ext:last-remote-fault?      oc-types:timeticks64
| | +--ro extr-eth-ext:interfaces-auto?        boolean
| | +--ro extr-eth-ext:interfaces-auto-negotiation? boolean
| | +--ro extr-eth-ext:interfaces-loopback-mode? boolean
| +--rw 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: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-reachablename? 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-reachablename? 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:t看tl? 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:t看tl? 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/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
|   | x--rw oc-bgp-pol:community-set-ref?  -> /oc-rpol:routing-
policy/defined-sets/oc-bgp-pol:bgp-defined-sets/community-sets/community-set/community-
set-name
|   +--ro oc-bgp-pol:state
|   | x--ro oc-bgp-pol:community-set-ref?  -> /oc-rpol:routing-
policy/defined-sets/oc-bgp-pol:bgp-defined-sets/community-sets/community-set/community-
set-name
+--rw oc-bgp-pol:set-ext-community
+--rw oc-bgp-pol:config
| +--rw oc-bgp-pol:method?    enumeration

```

```

        | +--rw oc-bgp-pol:options?    bgp-set-community-option-type
    +--ro oc-bgp-pol:state
        | +--ro oc-bgp-pol:method?    enumeration
        | +--ro oc-bgp-pol:options?    bgp-set-community-option-type
    +--rw oc-bgp-pol:reference
        +--rw oc-bgp-pol:config
            | x--rw oc-bgp-pol:ext-community-set-ref?  -> /oc-
rpol:routing-policy/defined-sets/oc-bgp-pol:bgp-defined-sets/ext-community-sets/ext-
community-set/ext-community-set-name
        +--ro oc-bgp-pol:state
            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
    | | +--rw load-balancing-method*          ethernet-load-balancing-method
  +--rw ip
    | +--rw config
    | | +--rw load-balancing-method*          ip-load-balancing-method
    | | +--ro state
    | | +--rw load-balancing-method*          ip-load-balancing-method
  +--rw ipv6
    +--rw config
    | +--rw load-balancing-method*            ipv6-load-balancing-method
    +--ro state
    +--ro load-balancing-method*              ipv6-load-balancing-method

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

module: extreme-overlay-networks
+--rw overlay-networks
  +--rw config
    | +--rw default-nve?                        string
    | +--rw default-vni-offset?                uint32
  +--ro state
    | +--ro default-nve?                        string
    | +--ro default-vni-offset?                uint32
  +--rw nvos
    | +--rw nvo* [name]
    | +--rw name                                -> ../config/name

```



```

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

module: extreme-mlag
+--rw mlag
|   +--rw config
|   |   +--rw keepalive-interval?   uint32
|   |   +--rw keepalive-multiplier? uint16
|   |   +--rw keepalive-delay?      uint32
|   |   +--rw role?                  mlag-role-type
|   |   +--rw mac?                   oc-yang:mac-address
|   |   +--rw bringup-delay?         uint32
|   +--ro state
|   |   +--ro keepalive-interval?   uint32
|   |   +--ro keepalive-multiplier? uint16
|   |   +--ro keepalive-delay?      uint32
|   |   +--ro role?                  mlag-role-type
|   |   +--ro mac?                   oc-yang:mac-address
|   |   +--ro bringup-delay?         uint32
+--rw peers
|   +--rw peer* [name]
|   |   +--rw name      -> ../config/name
|   |   +--rw config
|   |   |   +--rw name?          string
|   |   |   +--rw extend-netinst-mode? enumeration
|   |   |   +--rw extend-net-instances* oc-ni:network-instance-ref
|   |   +--ro state
|   |   |   +--ro name?          string
|   |   |   +--ro extend-netinst-mode? enumeration
|   |   |   +--ro extend-net-instances* oc-ni:network-instance-ref
|   |   |   +--ro mcp-state?      mlag-entity-state
|   |   |   +--ro peer-state?    mlag-entity-state

```

```

| | +--ro role?                mlag-role-type
| | +--ro mac?                oc-yang:mac-address
| | +--ro exception-state?    string
| | +--ro counters
| | | +--ro mcp-transitions?  oc-yang:counter64
| | | +--ro restarts?        oc-yang:counter64
| | | +--ro last-clear?      oc-types:timeticks64
| +--rw keepalives
| | +--rw keepalive* [name]
| | | +--rw name              -> ../config/name
| | | +--rw config
| | | | +--rw name?          string
| | | | +--rw type?          mlag-keepalive-type
| | | | +--rw local-interface? oc-if:base-interface-ref
| | | | +--rw remote-address? oc-inet:ip-address
| | | | +--rw address-type?   keepalive-address-type
| | | +--ro state
| | | | +--ro name?          string
| | | | +--ro type?          mlag-keepalive-type
| | | | +--ro local-interface? oc-if:base-interface-ref
| | | | +--ro remote-address? oc-inet:ip-address
| | | | +--ro address-type?   keepalive-address-type
| | | | +--ro keepalive-state? mlag-entity-state
| | | | +--ro fail-reason?    string
| | | | +--ro local-address?  oc-inet:ip-address
| | | | +--ro first-rx?       oc-types:timeticks64
| | | | +--ro last-rx?       oc-types:timeticks64
| | | | +--ro counters
| | | | | +--ro rx?          oc-yang:counter64
| | | | | +--ro tx?          oc-yang:counter64
| | | | | +--ro last-clear?  oc-types:timeticks64
| | | | | +--ro num-keepalive-transitions? oc-yang:counter64
| | | +--ro bfd
| | | | +--ro session-Id?     uint32
| | | | +--ro profile?        extr-bfd-ext:profile-ref
| | | | +--ro session-status? uint8
| +--rw interfaces
| | +--rw interface* [name]
| | | +--rw name              -> ../config/name
| | | +--rw config
| | | | +--rw name?          oc-if:base-interface-ref
| | | | +--rw auto?          boolean
| | | | +--rw identifier?     uint32
| | | +--ro state
| | | | +--ro name?          oc-if:base-interface-ref
| | | | +--ro auto?          boolean
| | | | +--ro identifier?     uint32
| | | +--rw peers
| | | | +--rw peer* [name]
| | | | | +--rw name          -> /mlag/peers/peer/config/name
| | | | | +--rw config
| | | | | | +--rw name?      string
| | | | | +--ro state
| | | | | | +--ro name?      string
| | | | | | +--ro intf-state? mlag-entity-state
| | | | | | +--ro remote-intf-state? mlag-entity-state
| | | | | | +--ro cfg-members? uint16
| | | | | | +--ro active-members? uint16
| | | | | | +--ro fail-reason? string
| | | | | | +--ro counters
| | | | | | +--ro num-peer-transitions? oc-yang:counter64
| +--rw uplink-track-interfaces
| | +--rw uplink-track-interface* [name]
| | | +--rw name              -> ../config/name

```

```
    +--rw config
    |   +--rw name?    oc-if:base-interface-ref
    +--ro state
        +--ro name?    oc-if:base-interface-ref
+--rw system
    +--rw extr-sys-iip:internal-ip-range
    |   +--rw extr-sys-iip:config
    |   |   +--rw extr-sys-iip:ipv4?    oc-inet:ipv4-prefix
    |   |   +--rw extr-sys-iip:ipv6?    oc-inet:ipv6-prefix
    |   +--ro extr-sys-iip:state
    |       +--ro extr-sys-iip:ipv4?    oc-inet:ipv4-prefix
    |       +--ro extr-sys-iip:ipv6?    oc-inet:ipv6-prefix
```