



Extreme OS ONE Switching and Routing v22.2.2.0 YANG Reference Guide

OpenConfig Modules, Extensions, and Configuration
Paths

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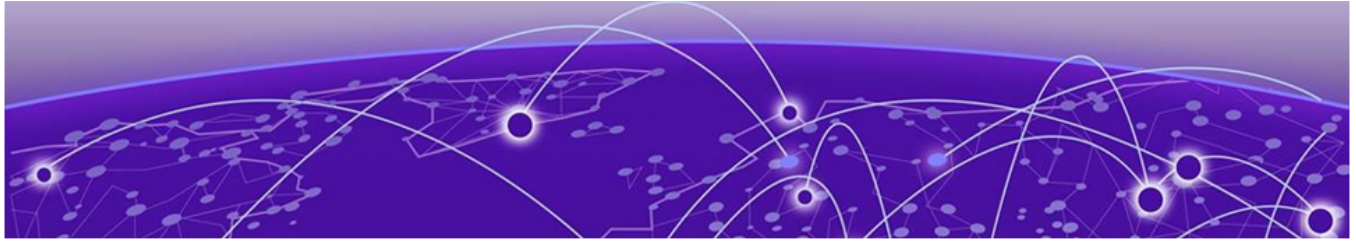
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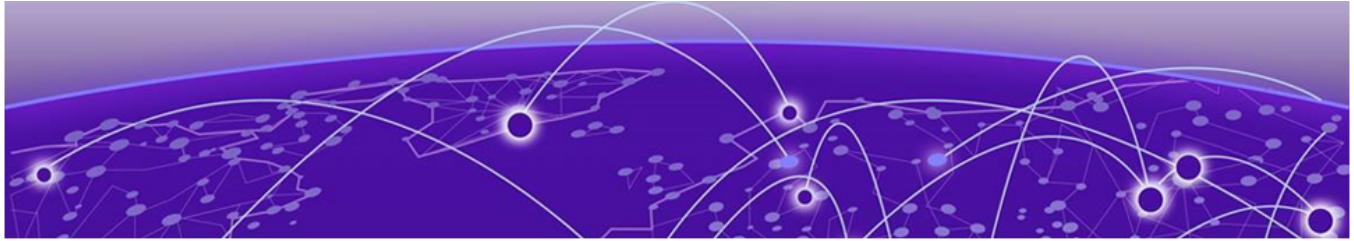
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Abstract

The Extreme OS ONE SR v22.2.2.0 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 text</i>	Italic text indicates variable content.
[]	Syntax components displayed within square brackets are optional. Default responses to system prompts are enclosed in square brackets.
{ x y z }	A choice of required parameters is enclosed in curly brackets separated by vertical bars. You must select one of the options.
x y	A vertical bar separates mutually exclusive elements.
< >	Nonprinting characters, such as passwords, are enclosed in angle brackets.
...	Repeat the previous element, for example, <i>member [member...]</i> .
\	In command examples, the backslash indicates a “soft” line break. When a backslash separates two lines of a command input, enter the entire command at the prompt without the backslash.

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[Release Notes](#)

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

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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.

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- 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

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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.



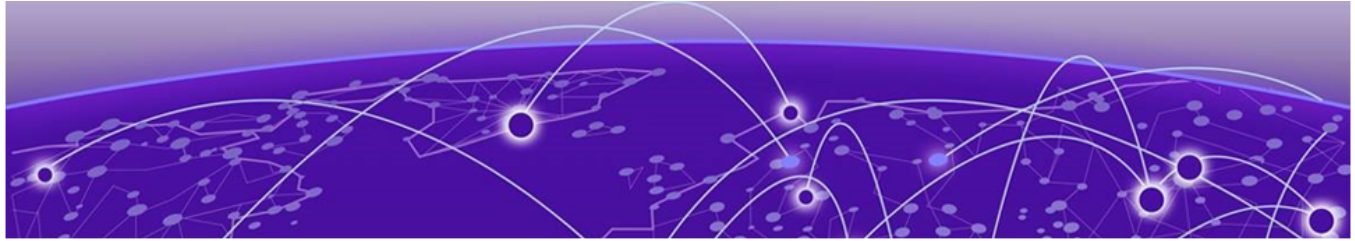
Overview

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 - Release 22.2.0.0

```
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.                    0.1.0
extreme-certificate-manager-ext            Extreme Networks, Inc.                    0.1.0
extreme-eth-ext                            Extreme Networks, Inc.                    0.1.0
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.                    0.1.0
extreme-lag-ext                            Extreme Networks, Inc.                    0.1.0
extreme-lldp-ext                           Extreme Networks, Inc.                    0.1.0
extreme-load-balance                       Extreme Networks, Inc.                    0.1.0
extreme-mirror                             Extreme Networks, Inc.                    0.1.0
extreme-mlag                               Extreme Networks, Inc.                    0.1.0
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.                    0.1.0
extreme-rib-bgp-ext                        Extreme Networks, Inc.                    0.1.0
extreme-static-bfd-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-logging-ext                 Extreme Networks, Inc.                    0.2.0
extreme-system-snmp                        Extreme Networks, Inc.                    0.1.0
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.                    0.1.0
extreme-transceiver                        Extreme Networks, Inc.                    0.1.0
extreme-vlan-ext                           Extreme Networks, Inc.                    0.1.0
```

openconfig-acl	OpenConfig	working	group	1.3.3
openconfig-bfd	OpenConfig	working	group	0.4.1
openconfig-bgp-policy	OpenConfig	working	group	8.1.0
openconfig-ethernet-segments	OpenConfig	working	group	0.2.0
openconfig-if-8021x	OpenConfig	working	group	0.0.1
openconfig-if-aggregate	OpenConfig	working	group	2.4.5
openconfig-if-ethernet	OpenConfig	working	group	2.14.0
openconfig-if-ethernet-ext	OpenConfig	working	group	0.1.1
openconfig-if-ip	OpenConfig	working	group	3.8.0
openconfig-if-ip-ext	OpenConfig	working	group	2.3.1
openconfig-if-poe	OpenConfig	working	group	0.1.1
openconfig-if-sdn-ext	OpenConfig	working	group	0.2.0
openconfig-if-tunnel	OpenConfig	working	group	0.1.1
openconfig-interfaces	OpenConfig	working	group	3.8.0
openconfig-isis-policy	OpenConfig	working	group	0.8.0
openconfig-keychain	OpenConfig	working	group	0.5.0
openconfig-lacp	OpenConfig	working	group	2.1.0
openconfig-lldp	OpenConfig	working	group	0.2.1
openconfig-network-instance	OpenConfig	working	group	4.6.0
openconfig-network-instance-policy	OpenConfig	working	group	0.1.3
openconfig-ospf-policy	OpenConfig	working	group	0.1.3
openconfig-platform	OpenConfig	working	group	0.32.0
openconfig-platform-controller-card	OpenConfig	working	group	0.2.0
openconfig-platform-cpu	OpenConfig	working	group	0.1.1
openconfig-platform-ext	OpenConfig	working	group	0.1.1
openconfig-platform-fan	OpenConfig	working	group	0.2.0
openconfig-platform-linecard	OpenConfig	working	group	1.2.0
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	0.17.0
openconfig-programming-errors	OpenConfig	working	group	0.1.0
openconfig-qos	OpenConfig	working	group	0.11.2
openconfig-rib-bgp-ext	OpenConfig	working	group	0.6.0
openconfig-routing-policy	OpenConfig	working	group	3.5.0
openconfig-system	OpenConfig	working	group	2.3.0
openconfig-system-grpc	OpenConfig	working	group	1.1.0
openconfig-terminal-device	OpenConfig	working	group	1.9.2
openconfig-transport-line-common	OpenConfig	working	group	0.6.0
openconfig-vlan	OpenConfig	working	group	3.2.2



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-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-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-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-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-interfaces
+--rw interfaces
+--rw interface* [name]
+--rw name          -> ../config/name
+--rw config
| +--rw name?      string
| +--rw type       identityref
| +--rw mtu?       uint16
| +--rw loopback-mode? oc-opt-types:loopback-mode-type
| +--rw description? string
| +--rw enabled?   boolean
| +--rw oc-vlan:tpid? identityref
| +--rw oc-if-sdn:forwarding-viable? boolean
+--ro state
| +--ro name?      string
| +--ro type       identityref
| +--ro mtu?       uint16
| +--ro loopback-mode? oc-opt-types:loopback-mode-type
| +--ro description? string
| +--ro enabled?   boolean
| +--ro ifindex?   uint32
| +--ro admin-status enumeration
| +--ro oper-status enumeration

```

```

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

```

```

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

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| | | +--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: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: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

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| | | +--ro oc-ip:out-error-pkts?          oc-yang:counter64
| | | +--ro oc-ip:out-forwarded-pkts?     oc-yang:counter64
| | | +--ro oc-ip:out-forwarded-octets?   oc-yang:counter64
| | | +--ro oc-ip:out-discarded-pkts?     oc-yang:counter64
| | +--ro extr-ip-ext:neighbor-reachable? 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
| | +--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
| +--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: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

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| | | +--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
| | | | +--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
| | +--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

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| | +--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 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 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

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| | | | +--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:router-advertisement
| | | | +--rw oc-ip:config
| | | | | +--rw oc-ip:enable?            boolean
| | | | | +--rw oc-ip:interval?        uint32

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| | | +--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: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

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|         | +--ro oc-ip:in-forwarded-octets?   oc-yang:counter64
|         | +--ro oc-ip:in-discarded-pkts?    oc-yang:counter64
|         | +--ro oc-ip:out-pkts?          oc-yang:counter64
|         | +--ro oc-ip:out-octets?        oc-yang:counter64
|         | +--ro oc-ip:out-error-pkts?    oc-yang:counter64
|         | +--ro oc-ip:out-forwarded-pkts? oc-yang:counter64
|         | +--ro oc-ip:out-forwarded-octets? oc-yang:counter64
|         | +--ro oc-ip:out-discarded-pkts? oc-yang:counter64
|         +--ro extr-ip-ext:neighbor-reachable-time? uint16
+--rw oc-tun:tunnel
| +--rw oc-tun:config
| | +--rw oc-tun:src?          oc-inet:ip-address
| | +--rw oc-tun:dst?          oc-inet:ip-address
| | +--rw oc-tun:ttl?          uint8
| | +--rw extr-if-tun-ext:nve? extr-overlay-net:base-nve-ref
| +--ro oc-tun:state
| | +--ro oc-tun:src?          oc-inet:ip-address
| | +--ro oc-tun:dst?          oc-inet:ip-address
| | +--ro oc-tun:ttl?          uint8
| | +--ro extr-if-tun-ext:nve? extr-overlay-net:base-nve-ref
| | +--ro extr-if-tun-ext:config-source? identityref
+--rw oc-tun:ipv4
| | +--rw oc-tun:addresses
| | | +--rw oc-tun:address* [ip]
| | | | +--rw oc-tun:ip      -> ../config/ip
| | | | +--rw oc-tun:config
| | | | | +--rw oc-tun:ip?    oc-inet:ipv4-address
| | | | | +--rw oc-tun:prefix-length? uint8
| | | | +--ro oc-tun:state
| | | | | +--ro oc-tun:ip?    oc-inet:ipv4-address
| | | | | +--ro oc-tun:prefix-length? uint8
| | | | | +--ro oc-tun:origin? ip-address-origin
| | | | | +--ro extr-ip-ext:secondary? boolean
| | | | | +--ro extr-ip-ext:status? enumeration
| | +--rw oc-tun:neighbors
| | | +--rw oc-tun:neighbor* [ip]
| | | | +--rw oc-tun:ip      -> ../config/ip
| | | | +--rw oc-tun:config
| | | | | +--rw oc-tun:ip?    oc-inet:ipv4-address
| | | | | +--rw oc-tun:link-layer-address oc-yang:phys-address
| | | | +--ro oc-tun:state
| | | | | +--ro oc-tun:ip?    oc-inet:ipv4-address
| | | | | +--ro oc-tun:link-layer-address oc-yang:phys-address
| | | | | +--ro oc-tun:origin? neighbor-origin
| | +--rw oc-tun:config
| | | +--rw oc-tun: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

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| |         +--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
| +--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 oc-line-com:sonet
+--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-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
|   |   x--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
|   |   x--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-linecard:linecard
|   +---rw oc-linecard:config
|   |   +---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-
| | x--rw oc-linecard:slot-id? string
| +--rw oc-linecard:utilization
| +--rw oc-linecard:resources
| +--rw oc-linecard:resource* [name]
| +--rw oc-linecard:name -> ../config/name
| +--rw oc-linecard:config
| | +--rw oc-linecard:name? string
| | +--rw oc-linecard:used-threshold-upper? oc-types:percentage
| | +--rw oc-linecard:used-threshold-upper-clear? oc-types:percentage
| +--ro oc-linecard:state
| +--ro oc-linecard:name? string
| +--ro oc-linecard:used-threshold-upper? oc-
types:percentage
| +--ro oc-linecard:used-threshold-upper-clear? oc-
types:percentage
| +--ro oc-linecard:used? uint64
| +--ro oc-linecard:committed? uint64
| +--ro oc-linecard:free? uint64
| +--ro oc-linecard:max-limit? uint64
| +--ro oc-linecard:high-watermark? uint64
| +--ro oc-linecard:last-high-watermark? oc-
types:timeticks64
| +--ro oc-linecard:used-threshold-upper-exceeded? boolean
+--rw oc-opt-term:optical-channel
| +--rw oc-opt-term:config
| | +--rw oc-opt-term:frequency? oc-opt-types:frequency-type
| | +--rw oc-opt-term:target-output-power? decimal64
| | +--rw oc-opt-term:operational-mode? uint16
| | +--rw oc-opt-term:line-port? -> /oc-platform:components/
component/name
| +--ro oc-opt-term:state
| +--ro oc-opt-term:frequency? oc-opt-
types:frequency-type
| +--ro oc-opt-term:target-output-power? decimal64
| +--ro oc-opt-term:operational-mode? uint16
| +--ro oc-opt-term:line-port? -> /oc-
platform:components/component/name
| +--ro oc-opt-term:group-id? uint32
| +--ro oc-opt-term:output-power
| | +--ro oc-opt-term:instant? decimal64
| | +--ro oc-opt-term:avg? decimal64
| | +--ro oc-opt-term:min? decimal64
| | +--ro oc-opt-term:max? decimal64
| | +--ro oc-opt-term:interval? oc-types:stat-interval
| | +--ro oc-opt-term:min-time? oc-types:timeticks64
| | +--ro oc-opt-term:max-time? oc-types:timeticks64
| +--ro oc-opt-term:input-power
| | +--ro oc-opt-term:instant? decimal64
| | +--ro oc-opt-term:avg? decimal64
| | +--ro oc-opt-term:min? decimal64
| | +--ro oc-opt-term:max? decimal64
| | +--ro oc-opt-term:interval? oc-types:stat-interval
| | +--ro oc-opt-term:min-time? oc-types:timeticks64
| | +--ro oc-opt-term:max-time? oc-types:timeticks64
| +--ro oc-opt-term:laser-bias-current
| | +--ro oc-opt-term:instant? decimal64
| | +--ro oc-opt-term:avg? decimal64
| | +--ro oc-opt-term:min? decimal64
| | +--ro oc-opt-term:max? decimal64
| | +--ro oc-opt-term:interval? oc-types:stat-interval
| | +--ro oc-opt-term:min-time? oc-types:timeticks64
| | +--ro oc-opt-term:max-time? oc-types:timeticks64

```

```

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

```

```

|   +--ro oc-opt-term:modulator-bias-x-phase
|   |   +--ro oc-opt-term:instant?    decimal64
|   |   +--ro oc-opt-term:avg?       decimal64
|   |   +--ro oc-opt-term:min?       decimal64
|   |   +--ro oc-opt-term:max?       decimal64
|   |   +--ro oc-opt-term:interval?  oc-types:stat-interval
|   |   +--ro oc-opt-term:min-time?  oc-types:timeticks64
|   |   +--ro oc-opt-term:max-time?  oc-types:timeticks64
|   +--ro oc-opt-term:modulator-bias-y-phase
|   |   +--ro oc-opt-term:instant?    decimal64
|   |   +--ro oc-opt-term:avg?       decimal64
|   |   +--ro oc-opt-term:min?       decimal64
|   |   +--ro oc-opt-term:max?       decimal64
|   |   +--ro oc-opt-term:interval?  oc-types:stat-interval
|   |   +--ro oc-opt-term:min-time?  oc-types:timeticks64
|   |   +--ro oc-opt-term:max-time?  oc-types:timeticks64
|   +--ro oc-opt-term:osnr
|   |   +--ro oc-opt-term:instant?    decimal64
|   |   +--ro oc-opt-term:avg?       decimal64
|   |   +--ro oc-opt-term:min?       decimal64
|   |   +--ro oc-opt-term:max?       decimal64
|   |   +--ro oc-opt-term:interval?  oc-types:stat-interval
|   |   +--ro oc-opt-term:min-time?  oc-types:timeticks64
|   |   +--ro oc-opt-term:max-time?  oc-types:timeticks64
|   +--ro oc-opt-term:carrier-frequency-offset
|   |   +--ro oc-opt-term:instant?    decimal64
|   |   +--ro oc-opt-term:avg?       decimal64
|   |   +--ro oc-opt-term:min?       decimal64
|   |   +--ro oc-opt-term:max?       decimal64
|   |   +--ro oc-opt-term:interval?  oc-types:stat-interval
|   |   +--ro oc-opt-term:min-time?  oc-types:timeticks64
|   |   +--ro oc-opt-term:max-time?  oc-types:timeticks64
|   +--ro oc-opt-term:sop-roc
|   |   +--ro oc-opt-term:instant?    decimal64
|   |   +--ro oc-opt-term:avg?       decimal64
|   |   +--ro oc-opt-term:min?       decimal64
|   |   +--ro oc-opt-term:max?       decimal64
|   |   +--ro oc-opt-term:interval?  oc-types:stat-interval
|   |   +--ro oc-opt-term:min-time?  oc-types:timeticks64
|   |   +--ro oc-opt-term:max-time?  oc-types:timeticks64
|   +--ro oc-opt-term:modulation-error-ratio
|   |   +--ro oc-opt-term:instant?    decimal64
|   |   +--ro oc-opt-term:avg?       decimal64
|   |   +--ro oc-opt-term:min?       decimal64
|   |   +--ro oc-opt-term:max?       decimal64
|   |   +--ro oc-opt-term:interval?  oc-types:stat-interval
|   |   +--ro oc-opt-term:min-time?  oc-types:timeticks64
|   |   +--ro oc-opt-term:max-time?  oc-types:timeticks64
|   +--ro oc-opt-term:fec-uncorrectable-blocks?
yang:counter64
|   +--ro oc-opt-term:pre-fec-ber
|   |   +--ro oc-opt-term:instant?    decimal64
|   |   +--ro oc-opt-term:avg?       decimal64
|   |   +--ro oc-opt-term:min?       decimal64
|   |   +--ro oc-opt-term:max?       decimal64
|   |   +--ro oc-opt-term:interval?  oc-types:stat-interval
|   |   +--ro oc-opt-term:min-time?  oc-types:timeticks64
|   |   +--ro oc-opt-term:max-time?  oc-types:timeticks64
|   +--ro oc-opt-term:post-fec-ber
|   |   +--ro oc-opt-term:instant?    decimal64
|   |   +--ro oc-opt-term:avg?       decimal64
|   |   +--ro oc-opt-term:min?       decimal64
|   |   +--ro oc-opt-term:max?       decimal64
|   |   +--ro oc-opt-term:interval?  oc-types:stat-interval

```

```

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

module: openconfig-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
      | +--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 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: 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
    | | | | +--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
    | | | |   +--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-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-transport-security:transport-security
|  +--rw extr-sys-transport-security:tls
|  +--rw extr-sys-transport-security:config
|  |  +--rw extr-sys-transport-security:min-version?  identityref
|  +--ro extr-sys-transport-security:state
|  |  +--ro extr-sys-transport-security:min-version?  identityref
|  +--rw extr-sys-transport-security:services
|  +--rw extr-sys-transport-security:service* [service]
|  +--rw extr-sys-transport-security:service  -> ../config/service
|  +--rw extr-sys-transport-security:config
|  |  +--rw extr-sys-transport-security:service?    identityref
|  |  +--rw extr-sys-transport-security:min-version? identityref
|  +--ro extr-sys-transport-security:state
|  +--ro extr-sys-transport-security:service?    identityref
|  +--ro extr-sys-transport-security:min-version? identityref
+--rw extr-sys-snmp:snmp-servers
|  +--rw extr-sys-snmp:snmp-server* [name]
|  +--rw extr-sys-snmp:name          -> ../config/name
|  +--rw extr-sys-snmp:config
|  |  +--rw extr-sys-snmp:name?      string
|  +--ro extr-sys-snmp:state
|  |  +--ro extr-sys-snmp:name?      string
|  +--rw extr-sys-snmp:vrf*
|  |  +--rw extr-sys-snmp:vrf* [name]
|  |  +--rw extr-sys-snmp:name       -> ../config/name
|  |  +--rw extr-sys-snmp:config
|  |  |  +--rw extr-sys-snmp:name?    string
|  |  |  +--rw extr-sys-snmp:enable?  boolean
|  |  +--ro extr-sys-snmp:state
|  |  |  +--ro extr-sys-snmp:name?    string
|  |  |  +--ro extr-sys-snmp:enable?  boolean
|  |  +--rw extr-sys-snmp:hosts
|  |  |  +--rw extr-sys-snmp:host* [hostname community-or-user-name]
|  |  |  +--rw extr-sys-snmp:hostname  -> ../config/hostname
|  |  |  +--rw extr-sys-snmp:community-or-user-name  -> ../config/
community-or-user-name
|  |  |  +--rw extr-sys-snmp:config
|  |  |  |  +--rw extr-sys-snmp:hostname?    oc-inet-types:host
|  |  |  |  +--rw extr-sys-snmp:community-or-user-name? string
|  |  |  |  +--rw extr-sys-snmp:udp-port?    uint16
|  |  |  |  +--rw extr-sys-snmp:version?     version-type
|  |  |  |  +--rw extr-sys-snmp:source-interface? string
|  |  |  +--ro extr-sys-snmp:state
|  |  |  +--ro extr-sys-snmp:hostname?    oc-inet-types:host
|  |  |  +--ro extr-sys-snmp:community-or-user-name? string
|  |  |  +--ro extr-sys-snmp:udp-port?    uint16
|  |  |  +--ro extr-sys-snmp:version?     version-type

```

```

|           |           +--ro extr-sys-snmp:source-interface?      string
| +--rw extr-sys-snmp:communities
| | +--rw extr-sys-snmp:community* [community-name]
| | | +--rw extr-sys-snmp:community-name   -> ../config/community-name
| | | +--rw extr-sys-snmp:config
| | | | +--rw extr-sys-snmp:community-name?  string
| | | +--ro extr-sys-snmp:state
| | | | +--ro extr-sys-snmp:community-name?  string
| +--rw extr-sys-snmp:users
| | +--rw extr-sys-snmp:user* [name]
| | | +--rw extr-sys-snmp:name   -> ../config/name
| | | +--rw extr-sys-snmp:config
| | | | +--rw extr-sys-snmp:name?      string
| | | | +--rw extr-sys-snmp:auth      auth-type
| | | | +--rw extr-sys-snmp:auth-password?  string
| | | | +--rw extr-sys-snmp:auth-password-hashed?  string
| | | | +--rw extr-sys-snmp:priv?      priv-type
| | | | +--rw extr-sys-snmp:priv-password?  string
| | | | +--rw extr-sys-snmp:priv-password-hashed?  string
| | | +--ro extr-sys-snmp:state
| | | | +--ro extr-sys-snmp:name?      string
| | | | +--ro extr-sys-snmp:auth      auth-type
| | | | +--ro extr-sys-snmp:auth-password?  string
| | | | +--ro extr-sys-snmp:auth-password-hashed?  string
| | | | +--ro extr-sys-snmp:priv?      priv-type
| | | | +--ro extr-sys-snmp:priv-password?  string
| | | | +--ro extr-sys-snmp:priv-password-hashed?  string
+--rw extr-sys-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
+--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: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: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-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-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-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 fallback-network-instance?   network-instance-ref
      | +--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 fallback-network-instance?   network-instance-ref
      | +--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

```



```

|         | +--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
| | +--rw associated-address-families* identityref
| | +--rw mac-pinning? boolean
| | +--rw irb-anycast-gateway? enumeration
| +--ro state
| +--ro id? oc-if:interface-id
| +--ro interface? -> /oc-if:interfaces/interface/name
| +--ro subinterface? -> /oc-if:interfaces/interface[oc-
if:name=current()/../interface]/subinterfaces/subinterface/index
| +--ro associated-address-families* identityref
| +--ro mac-pinning? boolean
| +--ro irb-anycast-gateway? enumeration
+--rw tables
| +--rw table* [protocol address-family]
| +--rw protocol -> ../config/protocol
| +--rw address-family -> ../config/address-family
| +--rw config
| | +--rw protocol? -> ../../../../protocols/protocol/config/
identifier
| | +--rw address-family? identityref
| +--ro state
| +--ro protocol? -> ../../../../protocols/protocol/config/
identifier
| +--ro address-family? identityref
+--rw connection-points
| +--rw connection-point* [connection-point-id]
| +--rw connection-point-id -> ../config/connection-point-id
| +--rw config
| | +--rw connection-point-id? string
| +--ro state
| | +--ro connection-point-id? string
+--rw endpoints
| +--rw endpoint* [endpoint-id]
| +--rw endpoint-id -> ../config/endpoint-id
| +--rw config
| | +--rw endpoint-id? string
| | +--rw precedence? uint16
| | +--rw type? identityref
| +--ro state
| | +--ro endpoint-id? string
| | +--ro precedence? uint16
| | +--ro type? identityref
| | +--ro active? boolean
+--rw local
| +--rw config
| | +--rw interface? -> /oc-if:interfaces/interface/
name
| | +--rw subinterface? -> /oc-if:interfaces/
interface[oc-if:name=current()/../interface]/subinterfaces/subinterface/index
| | +--rw site-id? uint16
| | +--rw site-label-block-offset? uint16
| | +--rw site-label-block-size? uint16
| | +--ro state
| | +--ro interface? -> /oc-if:interfaces/interface/
name
| | +--ro subinterface? -> /oc-if:interfaces/
interface[oc-if:name=current()/../interface]/subinterfaces/subinterface/index
| | +--ro site-id? uint16
| | +--ro site-label-block-offset? uint16
| | +--ro site-label-block-size? uint16
| +--rw remote
| +--rw config

```

```

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

		+++rw peer-group-name	-> ../config/peer-group-name
		+++rw config	
		+++rw peer-group-name?	string
		+++rw peer-as?	oc-inet:as-number
		+++rw local-as?	oc-inet:as-number
		+++rw peer-type?	oc-bgp-types:peer-
type			
		+++rw auth-password?	oc-types:routing-
password			
		+++rw description?	string
		+++rw extr-bgp-ext:peer-group-af-type?	identityref
		+++rw extr-bgp-ext:nvo?	string
		+++rw extr-bgp-ext:local-as-forced?	uint16
		+++rw extr-bgp-ext:fast-external-failover?	boolean
		+++rw extr-bgp-ext:admin-down?	boolean
		+++ro state	
		+++ro peer-group-name?	string
		+++ro peer-as?	oc-inet:as-number
		+++ro auth-password?	oc-types:routing-
password			
		+++ro description?	string
		+++ro extr-bgp-ext: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
		+++ro extr-bgp-ext:admin-down?	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	

```

id-type | | | +--ro route-reflector-cluster-id? oc-bgp-types:rr-cluster-
| | | +--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/

```



```

| | | | | +---ro extr-rib-bgp-ext:extrenal? boolean
| | | | | +---ro extr-rib-bgp-ext:local? boolean
| | | | | +---ro extr-rib-bgp-ext:redist? boolean
| | | | | +---ro neighbors
| | | | | +---ro neighbor* [neighbor-address]
| | | | | +---ro neighbor-address -> ../state/neighbor-address
| | | | | +---ro state
| | | | | | +---ro neighbor-address? oc-inet:ip-address
| | | | | +---ro adj-rib-in-post
| | | | | +---ro routes
| | | | | +---ro route* [prefix path-id]
| | | | | +---ro prefix -> ../state/prefix
| | | | | +---ro path-id -> ../state/path-id
| | | | | +---ro state
| | | | | +---ro prefix? oc-
inet:ipv6-prefix
| | | | | +---ro path-id? uint32
| | | | | +---ro attr-index?
-> ../state/attr-sets/attr-set/state/index
| | | | | +---ro community-index?
-> ../state/communities/community/state/index
| | | | | +---ro ext-community-index?
-> ../state/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 oc-bgprib-ext:reject-reason? union
| | | | | +---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? -> ../state/oc-ni:attr-sets/attr-set/state/index
| | | | | +---ro extr-rib-bgp-ext:community-
index? -> ../state/oc-ni:communities/community/state/index
| | | | | +---ro extr-rib-bgp-ext:ext-community-
index? -> ../state/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
| | | | | | +--ro extr-rib-bgp-ext:mac-address -> ../
state/mac-address
| | | | | | +--ro extr-rib-bgp-ext:mac-length -> ../
state/mac-length
| | | | | | +--ro extr-rib-bgp-ext:ip-prefix -> ../
state/ip-prefix
| | | | | | +--ro extr-rib-bgp-ext:ip-length -> ../
state/ip-length
| | | | | | +--ro extr-rib-bgp-ext:state
| | | | | | | +--ro extr-rib-bgp-ext:ethernet-tag? oc-
evpn-types:ethernet-tag
| | | | | | | +--ro extr-rib-bgp-ext:mac-address? oc-
yang:mac-address
| | | | | | | +--ro extr-rib-bgp-ext:mac-length?
uint32
| | | | | | | +--ro extr-rib-bgp-ext:ip-prefix? oc-
inet:ip-prefix
| | | | | | | +--ro extr-rib-bgp-ext:ip-length?
uint32
| | | | | | | +--ro extr-rib-bgp-ext:paths
| | | | | | | +--ro extr-rib-bgp-ext:path* [peer-ip peer-
path-id source-route-distinguisher source-address-family]
| | | | | | | +--ro extr-rib-bgp-ext:peer-
ip -> ../state/peer-ip
| | | | | | | +--ro extr-rib-bgp-ext:peer-path-
id -> ../state/peer-path-id
| | | | | | | +--ro extr-rib-bgp-ext:source-route-
distinguisher -> ../state/source-route-distinguisher
| | | | | | | +--ro extr-rib-bgp-ext:source-address-
family -> ../state/source-address-family
| | | | | | | +--ro extr-rib-bgp-ext:state
| | | | | | | +--ro extr-rib-bgp-ext:peer-
ip? oc-inet:ip-address
| | | | | | | +--ro extr-rib-bgp-ext:peer-path-
id? uint32
| | | | | | | +--ro extr-rib-bgp-ext:source-route-
distinguisher? oc-ni-types:route-distinguisher
| | | | | | | +--ro extr-rib-bgp-ext:source-
address-family? identityref
| | | | | | | +--ro extr-rib-bgp-
ext:label? string
| | | | | | | +--ro extr-rib-bgp-
ext:label2? string
| | | | | | | +--ro extr-rib-bgp-
ext:bestpath? boolean
| | | | | | | +--ro extr-rib-bgp-ext:last-
modified? oc-types:timeticks64
| | | | | | | +--ro extr-rib-bgp-ext:valid-
route? boolean
| | | | | | | +--ro extr-rib-bgp-ext:attr-
index? -> ../../../../../../../../../../../../../../oc-ni:attr-sets/attr-set/
state/index
| | | | | | | +--ro extr-rib-bgp-ext:community-
index? -> ../../../../../../../../../../../../../../oc-ni:communities/community/

```



```

-> ../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 adj-rib-out-pre
| | | | | +---ro adj-rib-out-post
| | | | | +---ro extr-rib-bgp-ext:local-rib-nvo
| | | | | +---ro extr-rib-bgp-ext:state
| | | | | +---ro extr-rib-bgp-ext:routes
| | | | | +---ro extr-rib-bgp-ext:table* [nvo-name route-
distinguisher]
| | | | |
| | | | | +---ro extr-rib-bgp-ext:nvo-
name
| | | | | -> ../state/nvo-name
| | | | | +---ro extr-rib-bgp-ext:route-
distinguisher
| | | | | -> ../state/route-distinguisher

```

```

| | | | | +---ro extr-rib-bgp-ext:state
string | | | | | +---ro extr-rib-bgp-ext:nvo-name?
oc-ni-types:route-distinguisher | | | | | +---ro extr-rib-bgp-ext:route-distinguisher? oc-
| | | | | +---ro extr-rib-bgp-ext:type-two-mac-ip-advertisement
tag mac-address mac-length ip-prefix ip-length] | | | | | +---ro extr-rib-bgp-ext:type-two-route* [ethernet-
| | | | | +---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?
| | | | | +---ro extr-rib-bgp-ext:paths
| | | | | +---ro extr-rib-bgp-ext:path* [peer-ip peer-
path-id source-route-distinguisher source-address-family]
ip | | | | | +---ro extr-rib-bgp-ext:peer-
| | | | | -> ../state/peer-ip
id | | | | | +---ro extr-rib-bgp-ext:peer-path-
| | | | | -> ../state/peer-path-id
distinguisher | | | | | +---ro extr-rib-bgp-ext:source-route-
| | | | | -> ../state/source-route-distinguisher
family | | | | | +---ro extr-rib-bgp-ext:source-address-
| | | | | -> ../state/source-address-family
ip? | | | | | +---ro extr-rib-bgp-ext:state
| | | | | +---ro extr-rib-bgp-ext:peer-
id? | | | | | +---ro extr-rib-bgp-ext:peer-path-
| | | | | +---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-
| | | | | +---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/

```



```

modified?                oc-types:timeticks64
route?                   boolean
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
path?                    boolean
ext:stale?               boolean
ext:primary?             boolean
ext:secondary?           boolean
ext:internal?            boolean
ext:extrenal?            boolean
ext:local?               boolean
ext:redist?              boolean
[ethernet-tag ip-prefix-length ip-prefix]
-> ../state/ethernet-tag
-> ../state/ip-prefix-length
-> ../state/ip-prefix
oc-evpn-types:ethernet-tag
string
oc-inet:ip-prefix
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
address?                oc-inet:ip-prefix
ip?                     oc-inet:ip-address
id?                     uint32
distinguisher?         oc-ni-types:route-distinguisher

```



```

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

```



```

state/ | | | +--ro extr-rib-bgp-ext:mac-address -> ../
state/mac-address
state/ | | | +--ro extr-rib-bgp-ext:mac-length -> ../
state/mac-length
state/ | | | +--ro extr-rib-bgp-ext:ip-prefix -> ../
state/ip-prefix
state/ | | | +--ro extr-rib-bgp-ext:ip-length -> ../
state/ip-length
| | | +--ro extr-rib-bgp-ext:state
| | | +--ro extr-rib-bgp-ext:ethernet-tag? oc-
evpn-types:ethernet-tag
| | | | +--ro extr-rib-bgp-ext:mac-address? oc-
yang:mac-address
| | | | +--ro extr-rib-bgp-ext:mac-length?
uint32
| | | | +--ro extr-rib-bgp-ext:ip-prefix? oc-
inet:ip-prefix
| | | | +--ro extr-rib-bgp-ext:ip-length?
uint32
| | | | +--ro extr-rib-bgp-ext:paths
| | | | +--ro extr-rib-bgp-ext:path* [peer-ip peer-
path-id source-route-distinguisher source-address-family]
ip | | | | +--ro extr-rib-bgp-ext:peer-
-> ../state/peer-ip
id | | | | +--ro extr-rib-bgp-ext:peer-path-
-> ../state/peer-path-id
distinguisher | | | | +--ro extr-rib-bgp-ext:source-route-
-> ../state/source-route-distinguisher
family | | | | +--ro extr-rib-bgp-ext:source-address-
-> ../state/source-address-family
| | | | +--ro extr-rib-bgp-ext:state
ip? | | | | +--ro extr-rib-bgp-ext:peer-
oc-inet:ip-address
id? | | | | +--ro extr-rib-bgp-ext:peer-path-
uint32
distinguisher? | | | | +--ro extr-rib-bgp-ext:source-route-
oc-ni-types:route-distinguisher
address-family? | | | | +--ro extr-rib-bgp-ext:source-
identityref
| | | | +--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]
tag | | | | +--ro extr-rib-bgp-ext:ethernet-
-> ../state/ethernet-tag

```



```

| | | +--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?
-> ../state/next-hop-groups/next-hop-group/state/id
| | | | +--ro extr-ni-tables-network-ext:state
| | | | +--ro extr-ni-tables-network-ext:prefix-len? uint8
| | | | +--ro extr-ni-tables-network-ext:prefix? oc-inet: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:hardware-status? identityref
| +--ro extr-ni-tables-network-ext:ipv6-neighbor
| | +--ro extr-ni-tables-network-ext:ipv6-nbr-entry* [nbr-address]
| | +--ro extr-ni-tables-network-ext:nbr-address -> ../state/nbr-address
| | +--ro extr-ni-tables-network-ext: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

```

```

prefix | | +--ro extr-ni-tables-network-ext:nbr-address? oc-inet:ipv6-
| | +--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
boolean | | +--ro extr-ni-tables-network-ext:secondary-active?
| | +--ro extr-ni-tables-network-ext:next-hops*
-> ../../../../next-hops/next-hop/state/index
| | +--ro extr-ni-tables-network-ext:protocol-next-hops*
-> ../../../../next-hops/next-hop/state/index
| | +--ro extr-ni-tables-network-ext:secondary-protocol-next-hops*
-> ../../../../next-hops/next-hop/state/index
| +--ro extr-ni-tables-network-ext:next-hops
| +--ro extr-ni-tables-network-ext:next-hop* [index]
| +--ro extr-ni-tables-network-ext:index -> ../state/index
| +--ro extr-ni-tables-network-ext:state
| | +--ro extr-ni-tables-network-ext:index? uint64
| | +--ro extr-ni-tables-network-ext:type? extr-ni-
types:next-hop-type
| | +--ro extr-ni-tables-network-ext:network-instance-name? string
| | +--ro extr-ni-tables-network-ext:ip-address? oc-inet:ip-
address
| | +--ro extr-ni-tables-network-ext:mac-address? oc-yang:mac-
address
| +--ro extr-ni-tables-network-ext:interface-ref
| +--ro extr-ni-tables-network-ext:state
| +--ro extr-ni-tables-network-ext:interface? -> /oc-
if:interfaces/interface/name
| +--ro extr-ni-tables-network-ext:subinterface? -> /oc-
if:interfaces/interface[oc-if:name=current()../interface]/subinterfaces/subinterface/
index
| +--ro extr-ni-tables-network-ext:l3-interface? -> /oc-
if:interfaces/interface/name
+--rw extr-ni-ext:vni-domains
+--rw extr-ni-ext:vni-domain* [name]
+--rw extr-ni-ext:name -> ../config/name
+--rw extr-ni-ext:config
| +--rw extr-ni-ext:name? string
| +--rw extr-ni-ext:vni? uint32
+--ro extr-ni-ext:state
+--ro extr-ni-ext:name? string
+--ro extr-ni-ext:vni? uint32

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

```

```

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

```

```

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

module: openconfig-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-bfd
+--rw bfd
  +--rw interfaces
  | +--rw interface* [id]
  |   +--rw id                -> ../config/id
  |   +--rw config
  |     | +--rw id?            oc-if:interface-id
  |     | +--rw enabled?      boolean
  |     | +--rw extr-bfd-ext:profile?  profile-ref
  |     +--ro state
  |       | +--ro id?          oc-if:interface-id
  |       | +--ro enabled?    boolean
  |       | +--ro extr-bfd-ext:profile?  profile-ref
  |     +--rw peers
  |       +--ro peer* [local-discriminator]
  |         +--ro local-discriminator  -> ../state/local-discriminator
  |         +--ro state
  |           | +--ro local-address?      oc-inet:ip-
address
  |           | +--ro remote-address?     oc-inet:ip-
address
  |           | +--ro subscribed-protocols*  identityref
  |           | +--ro session-state?        bfd-session-
state
  |           | +--ro remote-session-state?  bfd-session-
state
  |           | +--ro last-failure-time?     oc-
types:timeticks64
  |           | +--ro failure-transitions?   uint64
  |           | +--ro local-discriminator?   string
  |           | +--ro remote-discriminator?  string
  |           | +--ro local-diagnostic-code?  bfd-diagnostic-
code
  |           | +--ro remote-diagnostic-code?  bfd-diagnostic-
code
  |           | +--ro remote-minimum-receive-interval?  uint32
  |           | +--ro async
  |           | | +--ro transmitted-packets?  uint64
  |           | | +--ro received-packets?    uint64
  |           | | x--ro up-transitions?      uint64
  |           | +--ro extr-bfd-ext:session-id?  uint32
  |           | +--ro extr-bfd-ext:vrf-name?   string
  |           | +--ro extr-bfd-ext:remote-minimum-transmit-interval?  uint32
  |           | +--ro extr-bfd-ext:remote-detection-multiplier?  uint32
  |           | +--ro extr-bfd-ext:last-up-time?  oc-
types:timeticks64

```

```

|         | +--ro extr-bfd-ext:applied-profile?          string
|         +--ro extr-bfd-ext:profiles
|           +--ro extr-bfd-ext:profile* [subscribed-protocol]
|             +--ro extr-bfd-ext:subscribed-protocol -> ../state/subscribed-
protocol
|             +--ro extr-bfd-ext:state
|               +--ro extr-bfd-ext:subscribed-protocol? identityref
|               +--ro extr-bfd-ext:proto-profiles*      string
+--rw extr-bfd-ext:bfd-profiles
| +--rw extr-bfd-ext:bfd-profile* [name]
|   +--rw extr-bfd-ext:name          -> ../config/name
|   +--rw extr-bfd-ext:config
|     | +--rw extr-bfd-ext:name?          string
|     | +--rw extr-bfd-ext:desired-minimum-tx-interval? uint32
|     | +--rw extr-bfd-ext:required-minimum-receive?    uint32
|     | +--rw extr-bfd-ext:detection-multiplier?        uint8
|     +--ro extr-bfd-ext:state
|       +--ro extr-bfd-ext:name?          string
|       +--ro extr-bfd-ext:desired-minimum-tx-interval? uint32
|       +--ro extr-bfd-ext:required-minimum-receive?    uint32
|       +--ro extr-bfd-ext:detection-multiplier?        uint8
+--rw extr-bfd-ext:global
  +--rw extr-bfd-ext:state
    +--rw extr-bfd-ext:session-count-above-system-limit? uint16

module: openconfig-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
address	+--ro system-id?	oc-yang:mac-
	+--ro oper-key?	uint16
address	+--ro partner-id?	oc-yang:mac-
	+--ro partner-key?	uint16
	+--ro port-num?	uint16
	+--ro partner-port-num?	uint16
types:timeticks64	+--ro last-change?	oc-
	+--ro counters	
	+--ro lacp-in-pkts?	oc-yang:counter64
	+--ro lacp-out-pkts?	oc-yang:counter64
	+--ro lacp-rx-errors?	oc-yang:counter64
	+--ro lacp-tx-errors?	oc-yang:counter64
	+--ro lacp-unknown-errors?	oc-yang:counter64
	+--ro lacp-errors?	oc-yang:counter64
	+--ro lacp-timeout-transitions?	oc-yang:counter64
	+--ro extr-lacp-ext: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
state	+--ro extr-lacp-ext:actor-churn-machine?	churn-machine-
state	+--ro extr-lacp-ext:partner-churn-machine?	churn-machine-
	+--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
state	+--ro extr-lacp-ext:actor-cds-churn-machine?	churn-machine-
state	+--ro extr-lacp-ext:partner-cds-churn-machine?	churn-machine-
	+--ro extr-lacp-ext:actor-cds-churn-count?	oc-yang:counter64
	+--ro extr-lacp-ext:partner-cds-churn-count?	oc-yang:counter64
module: openconfig-routing-policy		
	+--rw routing-policy	
	+--rw defined-sets	
	+--rw prefix-sets	
	+--rw prefix-set* [name]	
	+--rw name -> ../config/name	
	+--rw config	
	+--rw name? string	
	+--rw mode? enumeration	
	+--ro state	
	+--ro name? string	
	+--ro mode? enumeration	
	+--rw prefixes	
	+--rw prefix* [ip-prefix masklength-range]	
	+--rw ip-prefix -> ../config/ip-prefix	
	+--rw masklength-range -> ../config/masklength-range	
	+--rw config	
	+--rw ip-prefix oc-inet:ip-prefix	
	+--rw masklength-range? string	
	+--ro state	
	+--ro ip-prefix oc-inet:ip-prefix	
	+--ro masklength-range? string	

```

|   +--rw oc-bgp-pol:bgp-defined-sets
|   |   +--rw oc-bgp-pol:community-sets
|   |   |   +--rw oc-bgp-pol:community-set* [community-set-name]
|   |   |   |   +--rw oc-bgp-pol:community-set-name   -> ../config/community-set-name
|   |   |   |   +--rw oc-bgp-pol:config
|   |   |   |   |   +--rw oc-bgp-pol:community-set-name   string
|   |   |   |   |   +--rw oc-bgp-pol:community-member*   union
|   |   |   |   |   x--rw oc-bgp-pol:match-set-options?   oc-pol-types:match-set-options-
type
|   |   |   +--ro oc-bgp-pol:state
|   |   |   |   +--ro oc-bgp-pol:community-set-name   string
|   |   |   |   +--ro oc-bgp-pol:community-member*   union
|   |   |   |   x--ro oc-bgp-pol:match-set-options?   oc-pol-types:match-set-options-
type
|   |   +--rw oc-bgp-pol:ext-community-sets
|   |   |   +--rw oc-bgp-pol:ext-community-set* [ext-community-set-name]
|   |   |   |   +--rw oc-bgp-pol:ext-community-set-name   -> ../config/ext-community-
set-name
|   |   |   |   +--rw oc-bgp-pol:config
|   |   |   |   |   +--rw oc-bgp-pol:ext-community-set-name?   string
|   |   |   |   |   +--rw oc-bgp-pol:ext-community-member*   union
|   |   |   |   |   x--rw oc-bgp-pol:match-set-options?   oc-pol-types:match-set-
options-type
|   |   |   |   +--ro oc-bgp-pol:state
|   |   |   |   |   +--ro oc-bgp-pol:ext-community-set-name?   string
|   |   |   |   |   +--ro oc-bgp-pol:ext-community-member*   union
|   |   |   |   |   x--ro oc-bgp-pol:match-set-options?   oc-pol-types:match-set-
options-type
|   |   +--rw oc-bgp-pol:as-path-sets
|   |   |   +--rw oc-bgp-pol:as-path-set* [as-path-set-name]
|   |   |   |   +--rw oc-bgp-pol:as-path-set-name   -> ../config/as-path-set-name
|   |   |   |   +--rw oc-bgp-pol:config
|   |   |   |   |   +--rw oc-bgp-pol:as-path-set-name?   string
|   |   |   |   |   +--rw oc-bgp-pol:as-path-set-member*   string
|   |   |   |   +--ro oc-bgp-pol:state
|   |   |   |   |   +--ro oc-bgp-pol:as-path-set-name?   string
|   |   |   |   |   +--ro oc-bgp-pol:as-path-set-member*   string
+--rw policy-definitions
  +--rw policy-definition* [name]
    +--rw name   -> ../config/name
    +--rw config
      | +--rw name?   string
    +--ro state
      | +--ro name?   string
    +--rw statements
      +--rw statement* [name]
        +--rw name   -> ../config/name
        +--rw config
          | +--rw name?   string
        +--ro state
          | +--ro name?   string
        +--rw conditions
          | +--rw match-prefix-set
          | | +--rw config
          | | | +--rw prefix-set?   -> ../../../../../../../defined-
sets/prefix-sets/prefix-set/config/name
          | | | +--rw match-set-options?   oc-pol-types:match-set-options-
restricted-type
          | | +--ro state
          | | +--ro prefix-set?   -> ../../../../../../../defined-
sets/prefix-sets/prefix-set/config/name
          | | +--ro match-set-options?   oc-pol-types:match-set-options-
restricted-type
          | +--rw oc-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 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-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 actions
+--rw config
| +--rw policy-result? policy-result-type
+--ro state
| +--ro policy-result? policy-result-type
+--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
+--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-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

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-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

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

```