

Extreme 9920 YANG Reference Guide

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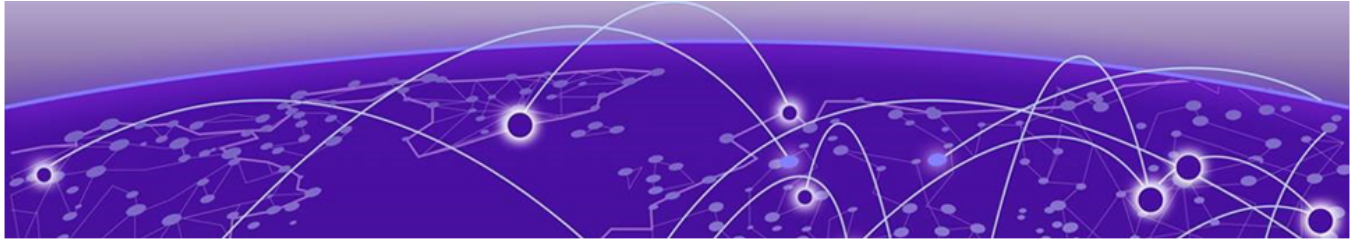


Table of Contents

Preface.....	4
Text Conventions.....	4
Documentation and Training.....	5
Open Source Declarations.....	6
Training.....	6
Help and Support.....	6
Subscribe to Product Announcements.....	7
Send Feedback.....	7
What's New in this Document.....	8
Standard OpenConfig YANG.....	9
Standard OpenConfig YANG Tree.....	9
ACL Module Support.....	77
Interfaces Module Support.....	79
LLDP Module Support.....	79
Network Instance Module Support.....	81
Platform Module Support.....	82
QoS Module Support.....	84
System Module Support.....	86
Extreme YANG Tree.....	90



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 or SLX routers, the product is referred to as *the switch* or *the router*.

Table 1: Notes and warnings






Icon	Notice type	Alerts you to...
	Tip	Helpful tips and notices for using the product
	Note	Useful information or instructions
	Important	Important features 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.

Documentation and Training

Find Extreme Networks product information at the following locations:

[Current Product Documentation](#)

[Release Notes](#)

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

[Extreme Optics Compatibility](#)

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

Open Source Declarations

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

Training

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

Help and Support

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

Extreme Portal

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

The Hub

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

Call GTAC

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

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

- Your Extreme Networks service contract number, or serial numbers for all involved Extreme Networks products
- A description of the failure
- A description of any actions already taken to resolve the problem
- A description of your network environment (such as layout, cable type, other relevant environmental information)
- Network load at the time of trouble (if known)
- The device history (for example, if you have returned the device before, or if this is a recurring problem)
- Any related RMA (Return Material Authorization) numbers

Subscribe to Product Announcements

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

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

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

Send Feedback

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

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

To send feedback, email us at documentation@extremenetworks.com.

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



What's New in this Document

The following table describes changes to this guide for the Extreme 9920 software, release 21.2.1.0.

Table 4: Summary of changes

Description	Topic
Updated topic	Standard OpenConfig YANG Tree on page 9
Updated topic	Extreme YANG Tree on page 90

For more information about this release, see the [Extreme 9920 Software Release Notes, 21.2.1.0](#).



Standard OpenConfig YANG

[Standard OpenConfig YANG Tree](#) on page 9

[ACL Module Support](#) on page 77

[Interfaces Module Support](#) on page 79

[LLDP Module Support](#) on page 79

[Network Instance Module Support](#) on page 81

[Platform Module Support](#) on page 82

[QoS Module Support](#) on page 84

[System Module Support](#) on page 86

This section describes the Standard OpenConfig YANG attributes that are supported by the Extreme 9920 software with the NPB application.

Standard OpenConfig YANG Tree

Extreme Networks has extended some of the OpenConfig YANG files. The corresponding leaf tokens are listed in this tree with the following tag: `extr-<module-name>`.

```
module: openconfig-if-ip

augment /oc-if:interfaces/oc-if:interface/oc-if:subinterfaces/oc-if:subinterface:
  +--rw ipv4
    +--rw addresses
      | +--rw address* [ip]
      |   +--rw ip      -> ../config/ip
      |   +--rw config
      |     | +--rw ip?          oc-inet:ipv4-address
      |     | +--rw prefix-length? uint8
      |     | +--rw extr-ip-ext:secondary? boolean
      |     +--ro state
      |       +--ro ip?          oc-inet:ipv4-address
      |       +--ro prefix-length? uint8
      |       +--ro origin?      ip-address-origin
      |       +--ro extr-ip-ext:secondary? boolean
      |       +--ro extr-ip-ext:status? enumeration
    +--rw neighbors
      | +--rw neighbor* [ip]
      |   +--rw ip      -> ../config/ip
      |   +--rw config
      |     | +--rw ip?          oc-inet:ipv4-address
      |     | +--rw link-layer-address oc-yang:phys-address
      |     +--ro state
      |       +--ro ip?          oc-inet:ipv4-address
      |       +--ro link-layer-address oc-yang:phys-address
      |       +--ro origin?      neighbor-origin
```

```

+--rw config
| +--rw enabled?          boolean
| +--rw mtu?              uint16
| +--rw dhcp-client?     boolean
+--ro state
  +--ro enabled?          boolean
  +--ro mtu?              uint16
  +--ro dhcp-client?     boolean
  +--ro counters
    +--ro in-pkts?        oc-yang:counter64
    +--ro in-octets?      oc-yang:counter64
    +--ro in-error-pkts?  oc-yang:counter64
    +--ro in-forwarded-pkts? oc-yang:counter64
    +--ro in-forwarded-octets? oc-yang:counter64
    +--ro in-discarded-pkts? oc-yang:counter64
    +--ro out-pkts?        oc-yang:counter64
    +--ro out-octets?      oc-yang:counter64
    +--ro out-error-pkts?  oc-yang:counter64
    +--ro out-forwarded-pkts? oc-yang:counter64
    +--ro out-forwarded-octets? oc-yang:counter64
    +--ro out-discarded-pkts? oc-yang:counter64
augment /oc-if:interfaces/oc-if:interface/oc-if:subinterfaces/oc-if:subinterface:
+--rw ipv6
  +--rw addresses
  | +--rw address* [ip]
  |   +--rw ip          -> ../config/ip
  |   +--rw config
  |     | +--rw ip?          oc-inet:ipv6-address
  |     | +--rw prefix-length  uint8
  |     | +--rw extr-ip-ext:secondary? boolean
  |     | +--rw extr-ip-ext:eui-64?  boolean
  |     +--ro state
  |       +--ro ip?          oc-inet:ipv6-address
  |       +--ro prefix-length  uint8
  |       +--ro origin?        ip-address-origin
  |       +--ro status?        enumeration
  |       +--ro extr-ip-ext:secondary? boolean
  |       +--ro extr-ip-ext:eui-64?  boolean
  +--rw neighbors
  | +--rw neighbor* [ip]
  |   +--rw ip          -> ../config/ip
  |   +--rw config
  |     | +--rw ip?          oc-inet:ipv6-address
  |     | +--rw link-layer-address  oc-yang:phys-address
  |     +--ro state
  |       +--ro ip?          oc-inet:ipv6-address
  |       +--ro link-layer-address  oc-yang:phys-address
  |       +--ro origin?        neighbor-origin
  |       +--ro is-router?      boolean
  |       +--ro neighbor-state?  enumeration
  +--rw config
  | +--rw enabled?          boolean
  | +--rw mtu?              uint32
  | +--rw dup-addr-detect-transmits?  uint32
  | +--rw dhcp-client?     boolean
  +--ro state
  | +--ro enabled?          boolean
  | +--ro mtu?              uint32
  | +--ro dup-addr-detect-transmits?  uint32
  | +--ro dhcp-client?     boolean
  | +--ro counters
  |   +--ro in-pkts?        oc-yang:counter64
  |   +--ro in-octets?      oc-yang:counter64
  |   +--ro in-error-pkts?  oc-yang:counter64

```

```

|     +--ro in-forwarded-pkts?      oc-yang:counter64
|     +--ro in-forwarded-octets?    oc-yang:counter64
|     +--ro in-discarded-pkts?     oc-yang:counter64
|     +--ro out-pkts?               oc-yang:counter64
|     +--ro out-octets?             oc-yang:counter64
|     +--ro out-error-pkts?        oc-yang:counter64
|     +--ro out-forwarded-pkts?    oc-yang:counter64
|     +--ro out-forwarded-octets?  oc-yang:counter64
|     +--ro out-discarded-pkts?    oc-yang:counter64
+--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

module: openconfig-lldp
+--rw lldp
  +--rw config
    | +--rw enabled?                boolean
    | +--rw hello-timer?            uint64
    | +--rw suppress-tlv-advertisement* identityref
    | +--rw system-name?            string
    | +--rw system-description?     string
    | +--rw chassis-id?             string
    | +--rw chassis-id-type?        oc-lldp-types:chassis-id-type
    | +--rw extr-lldp-ext:holdtime?  uint16
    | +--rw extr-lldp-ext:transmit?  boolean
    | +--rw extr-lldp-ext:receive?   boolean
    | +--rw extr-lldp-ext:management-address? oc-inet:ip-address
  +--ro state
    | +--ro enabled?                boolean
    | +--ro hello-timer?            uint64
    | +--ro suppress-tlv-advertisement* identityref
    | +--ro system-name?            string
    | +--ro system-description?     string
    | +--ro chassis-id?             string
    | +--ro chassis-id-type?        oc-lldp-types:chassis-id-type
    | +--ro counters
    | | +--ro frame-in?              yang:counter64
    | | +--ro frame-out?             yang:counter64
    | | +--ro frame-error-in?        yang:counter64
    | | +--ro frame-discard?         yang:counter64
    | | +--ro tlv-discard?           yang:counter64
    | | +--ro tlv-unknown?           yang:counter64
    | | +--ro last-clear?            yang:date-and-time
    | | +--ro tlv-accepted?          yang:counter64
    | | +--ro entries-aged-out?      yang:counter64
    | +--ro extr-lldp-ext:holdtime?  uint16
    | +--ro extr-lldp-ext:transmit?  boolean
    | +--ro extr-lldp-ext:receive?   boolean
    | +--ro extr-lldp-ext:management-address? oc-inet:ip-address
  +--rw interfaces
    +--rw interface* [name]
      +--rw name                    -> ../config/name
      +--rw config
        | +--rw name?                oc-if:base-interface-ref
        | +--rw enabled?             boolean
        | +--rw extr-lldp-ext:transmit? boolean

```

```

|   +-rw extr-lldp-ext:receive?                boolean
|   +-rw extr-lldp-ext:management-address?    oc-inet:ip-address
|   +-rw extr-lldp-ext:suppress-tlv-advertisement* identityref
+--ro state
|   +-ro name?                                oc-if:base-interface-ref
|   +-ro enabled?                             boolean
|   +--ro counters
|   |   +-ro frame-in?                        yang:counter64
|   |   +-ro frame-out?                      yang:counter64
|   |   +-ro frame-error-in?                yang:counter64
|   |   +-ro frame-discard?                yang:counter64
|   |   +-ro tlv-discard?                  yang:counter64
|   |   +-ro tlv-unknown?                  yang:counter64
|   |   +-ro last-clear?                    yang:date-and-time
|   |   +-ro frame-error-out?              yang:counter64
|   +-ro extr-lldp-ext:transmit?             boolean
|   +-ro extr-lldp-ext:receive?             boolean
|   +-ro extr-lldp-ext:management-address?  oc-inet:ip-address
|   +-ro extr-lldp-ext:suppress-tlv-advertisement* identityref
+--ro neighbors
|   +-ro neighbor* [id]
|   |   +-ro id                               -> ../state/id
|   |   +-ro config
|   |   +-ro state
|   |   |   +-ro system-name?                string
|   |   |   +-ro system-description?        string
|   |   |   +-ro chassis-id?                string
|   |   |   +-ro chassis-id-type?          oc-lldp-types:chassis-id-type
|   |   |   +-ro id?                        string
|   |   |   +-ro age?                       uint64
|   |   |   +-ro last-update?               int64
|   |   |   +-ro ttl?                       uint16
|   |   |   +-ro port-id?                   string
|   |   |   +-ro port-id-type?              oc-lldp-types:port-id-type
|   |   |   +-ro port-description?          string
|   |   |   +-ro management-address?        string
|   |   |   +-ro management-address-type?   string
|   |   +-ro custom-tlvs
|   |   |   +-ro tlv* [type oui oui-subtype]
|   |   |   |   +-ro type                    -> ../state/type
|   |   |   |   +-ro oui                     -> ../state/oui
|   |   |   |   +-ro oui-subtype             -> ../state/oui-subtype
|   |   |   |   +-ro config
|   |   |   |   +-ro state
|   |   |   |   |   +-ro type?                int32
|   |   |   |   |   +-ro oui?                 string
|   |   |   |   |   +-ro oui-subtype?         string
|   |   |   |   |   +-ro value?              binary
|   |   |   +-ro extr-lldp-ext:addresses
|   |   |   |   +-ro extr-lldp-ext:address* [ip]
|   |   |   |   |   +-ro extr-lldp-ext:ip     -> ../state/ip
|   |   |   |   +-ro extr-lldp-ext:state
|   |   |   |   |   +-ro extr-lldp-ext:ip?    oc-inet:ip-address
|   |   |   |   |   +-ro extr-lldp-ext:isis-state? string
|   |   +-ro capabilities
|   |   |   +-ro capability* [name]
|   |   |   |   +-ro name                     -> ../state/name
|   |   |   +-ro config
|   |   |   +-ro state
|   |   |   |   +-ro name?                    identityref
|   |   |   |   +-ro enabled?                 boolean
+--rw extr-lldp-ext:fabric-extend
+--rw extr-lldp-ext:config
|   +-rw extr-lldp-ext:enabled?              boolean

```

```

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

module: openconfig-platform
+--rw components
  +--rw component* [name]
    +--rw name                            -> ../config/name
    +--rw config
      | +--rw name?                        string
    +--ro state
      | +--ro name?                        string
      | +--ro type?                        union
      | +--ro id?                          string
      | +--ro location?                     string
      | +--ro description?                  string
      | +--ro mfg-name?                     string
      | +--ro mfg-date?                     oc-yang:date
      | +--ro hardware-version?              string
      | +--ro firmware-version?              string
      | +--ro software-version?              string
      | +--ro serial-no?                     string
      | +--ro part-no?                       string
      | +--ro clei-code?                     string
      | +--ro removable?                     boolean
      | +--ro oper-status?                   identityref
      | +--ro empty?                         boolean
      | +--ro parent?                        -> ../../../../component/config/name
      | +--ro redundant-role?                oc-platform-types:component-redundant-
role
      | +--ro last-switchover-reason
      | | +--ro trigger?                    component-redundant-role-switchover-reason-trigger
      | | +--ro details?                     string
      | +--ro last-switchover-time?          oc-types:timeticks64
      | +--ro last-reboot-reason?            identityref
      | +--ro last-reboot-time?              oc-types:timeticks64
      | +--ro switchover-ready?              boolean
      | +--ro base-mac-address?              oc-yang:mac-address
      | +--ro temperature
      | | +--ro instant?                     decimal64
      | | +--ro avg?                         decimal64
      | | +--ro min?                         decimal64
      | | +--ro max?                         decimal64
      | | +--ro interval?                     oc-types:stat-interval
      | | +--ro min-time?                     oc-types:timeticks64

```

```

| | +--ro max-time?          oc-types:timeticks64
| | +--ro alarm-status?     boolean
| | +--ro alarm-threshold?  uint32
| | +--ro alarm-severity?   identityref
| +--ro memory
| | +--ro available?        uint64
| | +--ro utilized?        uint64
| +--ro allocated-power?    uint32
| +--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-alarms:equipment-failure? boolean
| +--ro oc-alarms:equipment-mismatch? boolean
+--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
| | | | +--ro state
| | | | | +--ro name?    string
| | | | | +--ro used?    uint64
| | | | | +--ro committed?  uint64
| | | | | +--ro free?    uint64
| | | | | +--ro max-limit?  uint64
| | | | | +--ro high-watermark?  uint64
| | | | | +--ro last-high-watermark?  oc-types:timeticks64
+--rw port
| +--rw config
| | +--rw extr-port-config-ext:default-fec-mode?    extreme-eth-ext:fec-
mode-type
| | | +--rw extr-port-config-ext:default-speed?    identityref
| | | +--rw extr-port-config-ext:supported-speed*  identityref
| | | +--rw extr-port-config-ext:supported-fec*    extreme-eth-ext:fec-
mode-type
| | | +--rw extr-port-config-ext:port-group*      string
| | | +--rw extr-port-config-ext:breakout-capabilities
| | | | +--rw extr-port-config-ext:capabilities* [index]
| | | | | +--rw extr-port-config-ext:index          uint8
| | | | | +--rw extr-port-config-ext:num-breakouts?  uint8
| | | | | +--rw extr-port-config-ext:breakout-speed?  identityref
| | | | | +--rw extr-port-config-ext:num-physical-channels?  uint8
| | | | | +--rw extr-port-config-ext:affected-port?    string
| | +--ro state
| | | +--ro extr-port-config-ext:default-fec-mode?    extreme-eth-ext:fec-
mode-type
| | | +--ro extr-port-config-ext:default-speed?    identityref
| | | +--ro extr-port-config-ext:supported-speed*  identityref
| | | +--ro extr-port-config-ext:supported-fec*    extreme-eth-ext:fec-
mode-type
| | | +--ro extr-port-config-ext:port-group*      string
| | | +--ro extr-port-config-ext:breakout-capabilities
| | | | +--ro extr-port-config-ext:capabilities* [index]
| | | | | +--ro extr-port-config-ext:index          uint8
| | | | | +--ro extr-port-config-ext:num-breakouts?  uint8
| | | | | +--ro extr-port-config-ext:breakout-speed?  identityref
| | | | | +--ro extr-port-config-ext:num-physical-channels?  uint8
| | | | | +--ro extr-port-config-ext:affected-port?    string
| +--rw oc-port:breakout-mode
| | +--rw oc-port:groups
| | | +--rw oc-port:group* [index]

```

```

|         +--rw oc-port:index      -> ../config/index
|         +--rw oc-port:config
|         |   +--rw oc-port:index?      uint8
|         |   |   +--rw oc-port:num-breakouts?      uint8
|         |   |   |   +--rw oc-port:breakout-speed?  identityref
|         |   |   |   +--rw oc-port:num-physical-channels?  uint8
|         |   +--ro oc-port:state
|         |   |   +--ro oc-port:index?      uint8
|         |   |   +--ro oc-port:num-breakouts?      uint8
|         |   |   +--ro oc-port:breakout-speed?  identityref
|         |   |   +--ro oc-port:num-physical-channels?  uint8
+--rw 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 fabric
|   +--rw config
|   +--ro state
+--rw storage
|   +--rw config
|   +--ro state
+--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 integrated-circuit
|   +--rw config
|   +--ro state
|   +--rw utilization
|   |   +--rw resources
|   |   |   +--rw resource* [name]
|   |   |   |   +--rw name      -> ../config/name
|   |   |   |   +--rw config
|   |   |   |   |   +--rw name?  string
|   |   |   +--ro state
|   |   |   |   +--ro name?      string
|   |   |   |   +--ro used?      uint64
|   |   |   |   +--ro committed?  uint64
|   |   |   |   +--ro free?       uint64
|   |   |   |   +--ro max-limit?  uint64
|   |   |   |   +--ro high-watermark?  uint64
|   |   |   |   +--ro last-high-watermark?  oc-types:timeticks64
+--rw backplane
|   +--rw config
|   +--ro state

```



```

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

```

			+++ro oc-transceiver:min?	decimal64
			+++ro oc-transceiver:max?	decimal64
			+++ro oc-transceiver:interval?	oc-types:stat-interval
			+++ro oc-transceiver:min-time?	oc-types:timeticks64
			+++ro oc-transceiver:max-time?	oc-types:timeticks64
			+++ro oc-transceiver:input-power	
			+++ro oc-transceiver:instant?	decimal64
			+++ro oc-transceiver:avg?	decimal64
			+++ro oc-transceiver:min?	decimal64
			+++ro oc-transceiver:max?	decimal64
			+++ro oc-transceiver:interval?	oc-types:stat-interval
			+++ro oc-transceiver:min-time?	oc-types:timeticks64
			+++ro oc-transceiver:max-time?	oc-types:timeticks64
			+++ro oc-transceiver:laser-bias-current	
			+++ro oc-transceiver:instant?	decimal64
			+++ro oc-transceiver:avg?	decimal64
			+++ro oc-transceiver:min?	decimal64
			+++ro oc-transceiver:max?	decimal64
			+++ro oc-transceiver:interval?	oc-types:stat-interval
			+++ro oc-transceiver:min-time?	oc-types:timeticks64
			+++ro oc-transceiver:max-time?	oc-types:timeticks64
			+++ro extr-transceiver-ext:temperature	
			+++ro extr-transceiver-ext:avg?	decimal64
			+++ro extr-transceiver-ext:min?	decimal64
			+++ro extr-transceiver-ext:max?	decimal64
			+++ro extr-transceiver-ext:interval?	oc-types:stat-interval
			+++ro extr-transceiver-ext:min-time?	oc-types:timeticks64
			+++ro extr-transceiver-ext:max-time?	oc-types:timeticks64
			+++ro extr-transceiver-ext:voltage	
			+++ro extr-transceiver-ext:avg?	decimal64
			+++ro extr-transceiver-ext:min?	decimal64
			+++ro extr-transceiver-ext:max?	decimal64
			+++ro extr-transceiver-ext:interval?	oc-types:stat-interval
			+++ro extr-transceiver-ext:min-time?	oc-types:timeticks64
			+++ro extr-transceiver-ext:max-time?	oc-types:timeticks64
			+++ro extr-transceiver-ext:baud-rate?	uint64
			+++ro extr-transceiver-ext:length-smf-km?	string
			+++ro extr-transceiver-ext:length-smf-m?	uint64
			+++ro extr-transceiver-ext:length50um-m?	uint64
			+++ro extr-transceiver-ext:length625um-m?	uint64
			+++ro extr-transceiver-ext:length-smf?	uint64
			+++ro extr-transceiver-ext:length-om5?	uint64
			+++ro extr-transceiver-ext:length-om4?	uint64
			+++ro extr-transceiver-ext:length-om3?	uint64
			+++ro extr-transceiver-ext:length-om2?	uint64
			+++ro extr-transceiver-ext:length-om1?	uint64
			+++ro extr-transceiver-ext:length-copper?	string
			+++ro extr-transceiver-ext:vendor-rev?	string
			+++ro extr-transceiver-ext:wavelength?	uint64
			+++ro extr-transceiver-ext:options?	string
			+++ro extr-transceiver-ext:br-max?	uint64
			+++ro extr-transceiver-ext:br-min?	uint64
			+++ro extr-transceiver-ext:supported-speeds*	identityref
			+++ro extr-transceiver-ext:supported-fec*	extreme-eth-ext:fec-mode-
type			+++ro extr-transceiver-ext:media-type?	string
			+++ro extr-transceiver-ext:supports-breakout?	string
			+++ro extr-transceiver-ext:qualified?	boolean
			+++ro extr-transceiver-ext:qsa-adapter?	boolean
			+++ro extr-transceiver-ext:qsa-vendor?	string
			+++ro extr-transceiver-ext:qsa-serialnumber?	string
			+++ro extr-transceiver-ext:qsa-partnumber?	string
			+++ro extr-transceiver-ext:qsa-revdate?	string
			+++rw oc-transceiver:physical-channels	

```

|         +--rw oc-transceiver:channel* [index]
|         |         +--rw oc-transceiver:index      -> ../config/index
|         |         +--rw oc-transceiver:config
|         |         |         +--rw oc-transceiver:index?          uint16
|         |         |         +--rw oc-transceiver:associated-optical-channel? -> /oc-
platform:components/component/name
|         |         |         +--rw oc-transceiver:description?    string
|         |         |         +--rw oc-transceiver:tx-laser?       boolean
|         |         |         +--rw oc-transceiver:target-output-power? decimal64
|         |         +--ro oc-transceiver:state
|         |         |         +--ro oc-transceiver:index?          uint16
|         |         |         +--ro oc-transceiver:associated-optical-channel? -> /oc-
platform:components/component/name
|         |         +--ro oc-transceiver:description?    string
|         |         +--ro oc-transceiver:tx-laser?       boolean
|         |         +--ro oc-transceiver:target-output-power? decimal64
|         |         +--ro oc-transceiver:laser-age?      oc-types:percentage
|         |         +--ro oc-transceiver:laser-temperature
|         |         |         +--ro oc-transceiver:instant?        decimal64
|         |         |         +--ro oc-transceiver:avg?            decimal64
|         |         |         +--ro oc-transceiver:min?            decimal64
|         |         |         +--ro oc-transceiver:max?            decimal64
|         |         |         +--ro oc-transceiver:interval?       oc-types:stat-interval
|         |         |         +--ro oc-transceiver:min-time?       oc-types:timeticks64
|         |         |         +--ro oc-transceiver:max-time?       oc-types:timeticks64
|         |         +--ro oc-transceiver:target-frequency-deviation
|         |         |         +--ro oc-transceiver:instant?        decimal64
|         |         |         +--ro oc-transceiver:avg?            decimal64
|         |         |         +--ro oc-transceiver:min?            decimal64
|         |         |         +--ro oc-transceiver:max?            decimal64
|         |         |         +--ro oc-transceiver:interval?       oc-types:stat-interval
|         |         |         +--ro oc-transceiver:min-time?       oc-types:timeticks64
|         |         |         +--ro oc-transceiver:max-time?       oc-types:timeticks64
|         |         +--ro oc-transceiver:tec-current
|         |         |         +--ro oc-transceiver:instant?        decimal64
|         |         |         +--ro oc-transceiver:avg?            decimal64
|         |         |         +--ro oc-transceiver:min?            decimal64
|         |         |         +--ro oc-transceiver:max?            decimal64
|         |         |         +--ro oc-transceiver:interval?       oc-types:stat-interval
|         |         |         +--ro oc-transceiver:min-time?       oc-types:timeticks64
|         |         |         +--ro oc-transceiver:max-time?       oc-types:timeticks64
|         |         +--ro oc-transceiver:output-frequency?      oc-opt-
types:frequency-type
|         |         +--ro oc-transceiver:output-power
|         |         |         +--ro oc-transceiver:instant?        decimal64
|         |         |         +--ro oc-transceiver:avg?            decimal64
|         |         |         +--ro oc-transceiver:min?            decimal64
|         |         |         +--ro oc-transceiver:max?            decimal64
|         |         |         +--ro oc-transceiver:interval?       oc-types:stat-interval
|         |         |         +--ro oc-transceiver:min-time?       oc-types:timeticks64
|         |         |         +--ro oc-transceiver:max-time?       oc-types:timeticks64
|         |         +--ro oc-transceiver:input-power
|         |         |         +--ro oc-transceiver:instant?        decimal64
|         |         |         +--ro oc-transceiver:avg?            decimal64
|         |         |         +--ro oc-transceiver:min?            decimal64
|         |         |         +--ro oc-transceiver:max?            decimal64
|         |         |         +--ro oc-transceiver:interval?       oc-types:stat-interval
|         |         |         +--ro oc-transceiver:min-time?       oc-types:timeticks64
|         |         |         +--ro oc-transceiver:max-time?       oc-types:timeticks64
|         |         +--ro oc-transceiver:laser-bias-current
|         |         |         +--ro oc-transceiver:instant?        decimal64
|         |         |         +--ro oc-transceiver:avg?            decimal64
|         |         |         +--ro oc-transceiver:min?            decimal64
|         |         |         +--ro oc-transceiver:max?            decimal64

```

```

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

  augment /oc-if:interfaces/oc-if:interface/oc-if:state:
    +--ro hardware-port? -> /oc-platform:components/component/name

module: openconfig-platform-transceiver

  augment /oc-if:interfaces/oc-if:interface/oc-if:state:
    +--ro transceiver? -> /oc-platform:components/component[oc-
platform:name=current()/../oc-port:hardware-port]/oc-platform:subcomponents/subcomponent/
name
  augment /oc-if:interfaces/oc-if:interface/oc-if:state:
    +--ro physical-channel* -> /oc-platform:components/component[oc-
platform:name=current()/../oc-transceiver:transceiver]/transceiver/physical-channels/
channel/index

module: openconfig-vlan

  augment /oc-if:interfaces/oc-if:interface/oc-if:subinterfaces/oc-if:subinterface:
    +--rw vlan
      +--rw config
        | x--rw vlan-id?  union
      +--ro state
        | x--ro vlan-id?  union
      +--rw match
        | +--rw single-tagged

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

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```

| |      +--ro outer-low-vlan-id?   oc-vlan-types:vlan-id
| |      +--ro 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 ingress-mapping
| +--rw config
| | +--rw vlan-stack-action?   oc-vlan-types:vlan-stack-action
| | +--rw vlan-id?            oc-vlan-types:vlan-id
| | +--rw tpid?               identityref
| +--ro state
|   +--ro vlan-stack-action?   oc-vlan-types:vlan-stack-action
|   +--ro vlan-id?            oc-vlan-types:vlan-id
|   +--ro tpid?               identityref
+--rw egress-mapping
  +--rw config
  | +--rw vlan-stack-action?   oc-vlan-types:vlan-stack-action
  | +--rw vlan-id?            oc-vlan-types:vlan-id
  | +--rw tpid?               identityref
  +--ro state
    +--ro vlan-stack-action?   oc-vlan-types:vlan-stack-action
    +--ro vlan-id?            oc-vlan-types:vlan-id
    +--ro tpid?               identityref
augment /oc-if:interfaces/oc-if:interface/oc-if:config:
  +--rw tpid? identityref
augment /oc-if:interfaces/oc-if:interface/oc-if:state:
  +--ro tpid? identityref
augment /oc-if:interfaces/oc-if:interface/oc-eth:ethernet:
  +--rw switched-vlan
  +--rw config
  | +--rw interface-mode?   oc-vlan-types:vlan-mode-type
  | +--rw native-vlan?     oc-vlan-types:vlan-id
  | +--rw access-vlan?     oc-vlan-types:vlan-id
  | +--rw trunk-vlans*     union
  +--ro state
  +--ro interface-mode?   oc-vlan-types:vlan-mode-type
  +--ro native-vlan?     oc-vlan-types:vlan-id
  +--ro access-vlan?     oc-vlan-types:vlan-id
  +--ro trunk-vlans*     union
augment /oc-if:interfaces/oc-if:interface/oc-lag:aggregation:
  +--rw switched-vlan
  +--rw config
  | +--rw interface-mode?   oc-vlan-types:vlan-mode-type
  | +--rw native-vlan?     oc-vlan-types:vlan-id
  | +--rw access-vlan?     oc-vlan-types:vlan-id
  | +--rw trunk-vlans*     union
  +--ro state
  +--ro interface-mode?   oc-vlan-types:vlan-mode-type
  +--ro native-vlan?     oc-vlan-types:vlan-id
  +--ro access-vlan?     oc-vlan-types:vlan-id
  +--ro trunk-vlans*     union
augment /oc-if:interfaces/oc-if:interface:
  +--rw routed-vlan
  +--rw config
  | +--rw vlan? union
  +--ro state
  | +--ro vlan? union
  +--rw oc-ip:ipv4
  | +--rw oc-ip:addresses
  | | +--rw oc-ip:address* [ip]

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

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|     +--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
+--ro oc-ip:state
  +--ro oc-ip:enabled?          boolean
  +--ro oc-ip:mtu?              uint32
  +--ro oc-ip:dup-addr-detect-transmits?  uint32
  +--ro oc-ip:dhcp-client?      boolean
  +--ro oc-ip:counters
    +--ro oc-ip:in-pkts?          oc-yang:counter64
    +--ro oc-ip:in-octets?        oc-yang:counter64
    +--ro oc-ip:in-error-pkts?    oc-yang:counter64
    +--ro oc-ip:in-forwarded-pkts? oc-yang:counter64
    +--ro oc-ip:in-forwarded-octets? oc-yang:counter64
    +--ro oc-ip:in-discarded-pkts? oc-yang:counter64
    +--ro oc-ip:out-pkts?         oc-yang:counter64
    +--ro oc-ip:out-octets?       oc-yang:counter64
    +--ro oc-ip:out-error-pkts?   oc-yang:counter64
    +--ro oc-ip:out-forwarded-pkts? oc-yang:counter64
    +--ro oc-ip:out-forwarded-octets? oc-yang:counter64
    +--ro oc-ip:out-discarded-pkts? oc-yang:counter64

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 clock
      |   +--rw config
      |   |   +--rw timezone-name?  timezone-name-type
      |   +--ro state
      |   |   +--ro timezone-name?  timezone-name-type

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```

+--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 ntp
| +--rw config
| | +--rw enabled?           boolean
| | +--rw ntp-source-address? oc-inet:ip-address
| | +--rw enable-ntp-auth?   boolean
| | +--rw extr-sys-ext:use-vrf? string
| | +--rw extr-sys-ext:source-interface-type? iftype
| | +--rw extr-sys-ext:source-interface-name? string
| +--ro state
| | +--ro enabled?           boolean
| | +--ro ntp-source-address? oc-inet:ip-address
| | +--ro enable-ntp-auth?   boolean
| | +--ro extr-sys-ext:use-vrf? string
| | +--ro extr-sys-ext:source-interface-type? iftype
| | +--ro extr-sys-ext:source-interface-name? string
| +--rw ntp-keys
| | +--rw ntp-key* [key-id]
| |   +--rw key-id   -> ../config/key-id
| |   +--rw config
| |     | +--rw key-id?     uint16
| |     | | +--rw key-type? identityref
| |     | | +--rw key-value? string
| |     +--ro state
| |     | +--ro key-id?     uint16
| |     | +--ro key-type?   identityref
| |     | +--ro key-value?  string
| +--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
+--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

```

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

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```

    | | | | +--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:force-default-password-change? boolean
    | |     | +--rw extr-aaa-ext:max-retry? uint8
    | |     | +--rw extr-aaa-ext:lockout-duration? uint32
    | |     +--ro extr-aaa-ext:state
    | |       +--ro extr-aaa-ext:min-length? uint8
    | |       +--ro extr-aaa-ext:min-uppercase? passwd-attr-type
    | |       +--ro extr-aaa-ext:min-lowercase? passwd-attr-type
    | |       +--ro extr-aaa-ext:min-numeric? passwd-attr-type
    | |       +--ro extr-aaa-ext:min-special? passwd-attr-type
    | |       +--ro extr-aaa-ext:max-password-age? uint16
    | |       +--ro extr-aaa-ext:force-default-password-change? boolean
    | |       +--ro extr-aaa-ext:max-retry? uint8
    | |       +--ro extr-aaa-ext:lockout-duration? uint32
    | +--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: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: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: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: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 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 mac-address
| +--rw config
| | +--rw routing-mac?    oc-yang:mac-address
| +--ro state
| | +--ro routing-mac?    oc-yang:mac-address
+--rw oc-sys-grpc:grpc-servers
| +--rw oc-sys-grpc:grpc-server* [name]
| | +--rw oc-sys-grpc:name        -> ../config/name
| | +--rw oc-sys-grpc:config
| | | +--rw oc-sys-grpc:name?      string
| | | +--rw oc-sys-grpc:services*  identityref
| | | +--rw oc-sys-grpc:enable?    boolean
| | | +--rw oc-sys-grpc:port?      oc-inet:port-number
| | | +--rw oc-sys-grpc:transport-security?  boolean
| | | +--rw oc-sys-grpc:certificate-id?      string
| | | +--rw oc-sys-grpc:metadata-authentication?  boolean
| | | +--rw oc-sys-grpc:listen-addresses*      union
| | | +--rw oc-sys-grpc:network-instance?      oc-ni:network-instance-ref
| | | +--rw extr-system-grpc:mutual-tls?        boolean
| | +--ro oc-sys-grpc:state
| | | +--ro oc-sys-grpc:name?      string
| | | +--ro oc-sys-grpc:services*  identityref
| | | +--ro oc-sys-grpc:enable?    boolean
| | | +--ro oc-sys-grpc:port?      oc-inet:port-number
| | | +--ro oc-sys-grpc:transport-security?  boolean
| | | +--ro oc-sys-grpc:certificate-id?      string
| | | +--ro oc-sys-grpc:metadata-authentication?  boolean
| | | +--ro oc-sys-grpc:listen-addresses*      union
| | | +--ro oc-sys-grpc:network-instance?      oc-ni:network-instance-ref
| | | +--ro extr-system-grpc:mutual-tls?        boolean
+--rw extr-sys-snmp:snmp-servers
| +--rw extr-sys-snmp:snmp-server* [name]
| | +--rw extr-sys-snmp:name        -> ../config/name
| | +--rw extr-sys-snmp:config
| | | +--rw extr-sys-snmp:name?      string
| | +--rw extr-sys-snmp:state
| | | +--rw extr-sys-snmp:name?      string
| | +--rw extr-sys-snmp:vrf* [name]
| | | +--rw extr-sys-snmp:name        -> ../config/name
| | | +--rw extr-sys-snmp:config
| | | | +--rw extr-sys-snmp:name?      string
| | | | +--rw extr-sys-snmp:enable?    boolean
| | | +--rw extr-sys-snmp:state
| | | | +--rw extr-sys-snmp:name?      string
| | | | +--rw extr-sys-snmp:enable?    boolean
| | | +--rw extr-sys-snmp:hosts
| | | | +--rw extr-sys-snmp:host* [hostname community-or-user-name]
| | | | | +--rw extr-sys-snmp:hostname        -> ../config/hostname
| | | | | +--rw extr-sys-snmp:community-or-user-name  -> ../config/
community-or-user-name
| | | | | +--rw extr-sys-snmp:config
| | | | | | +--rw extr-sys-snmp:hostname?      oc-inet-types:host
| | | | | | +--rw extr-sys-snmp:community-or-user-name?  string
| | | | | | +--rw extr-sys-snmp:udp-port?      uint16
| | | | | | +--rw extr-sys-snmp:version?      version-type
| | | | | | +--rw extr-sys-snmp:source-interface?  string

```



```

    | |          +---ro extr-sys-ext:state
name | |          +---ro extr-sys-ext:interface?      -> /oc-if:interfaces/interface/
    | |          +---ro extr-sys-ext:subinterface?   -> /oc-if:interfaces/
interface[oc-if:name=current()/../interface]/subinterfaces/subinterface/index
    | |          +---ro extr-sys-ext:bd-id?          uint16
    | |          +---ro extr-sys-ext:no-shut-time?    int64
    | +---rw extr-sys-ext:config
    | | +---rw extr-sys-ext:ipv4-anycast-gateway-mac? oc-yang:mac-address
    | | +---rw extr-sys-ext:ipv6-anycast-gateway-mac? oc-yang:mac-address
    | | +---rw extr-sys-ext: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: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-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:key
    | | | | +---rw extr-sys-term-ext:rsa?            common-types:rsa-bits-size
    | | | | +---rw extr-sys-term-ext:ecdsa?         common-types:ecdsa-bits-size
    | | | +---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:key
    | | | | +---ro extr-sys-term-ext:rsa?            common-types:rsa-bits-size
    | | | | +---ro extr-sys-term-ext:ecdsa?         common-types:ecdsa-bits-size
    | | +---ro extr-sys-term-ext:client-alive?      uint16

```



```

+--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-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:enable?      boolean
|       | +--rw extr-sys-iah:autostart?    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:enable?      boolean
|       | +--ro extr-sys-iah:autostart?    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?  enumeration
|       | +--ro extr-sys-iah:status?       enumeration
|       | +--ro extr-sys-iah: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-system-ztp:ztp
  +--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?   ztpstatus

module: openconfig-if-ethernet-ext

  augment /oc-if:interfaces/oc-if:interface/oc-eth:ethernet/oc-eth:state/oc-eth:counters:
    +--ro in-distribution
      +--ro in-frames-64-octets?      oc-yang:counter64
      +--ro in-frames-65-127-octets?  oc-yang:counter64
      +--ro in-frames-128-255-octets?  oc-yang:counter64
      +--ro in-frames-256-511-octets?  oc-yang:counter64
      +--ro in-frames-512-1023-octets?  oc-yang:counter64
      +--ro in-frames-1024-1518-octets? oc-yang:counter64

module: extreme-lag-ext

  augment /oc-if:interfaces/oc-if:interface/oc-lag:aggregation/oc-lag:state:
    +--ro member-list*      oc-if:base-interface-ref
    +--ro active-member-list* oc-if:base-interface-ref
    +--ro lag-load-balance-method? aggregation-load-balance-method
  augment /oc-if:interfaces/oc-if:interface/oc-lag:aggregation/oc-lag:config:
    +--rw lag-load-balance-method? aggregation-load-balance-method

module: extreme-eth-ext

  augment /oc-if:interfaces/oc-if:interface/oc-eth:ethernet/oc-eth:config:
    +--rw fec
      +--rw fec-mode?  fec-mode-type
  augment /oc-if:interfaces/oc-if:interface/oc-eth:ethernet/oc-eth:state:
    +--ro fec
      +--ro fec-mode?  fec-mode-type
  augment /oc-if:interfaces/oc-if:interface/oc-eth:ethernet/oc-eth:config:
    +--rw link-fault-signaling?  boolean
  augment /oc-if:interfaces/oc-if:interface/oc-eth:ethernet/oc-eth:state:
    +--ro link-fault-signaling?  boolean

```

```

    +--ro link-fault-status?      string
    +--ro local-fault-count?     uint64
    +--ro remote-fault-count?    uint64
    +--ro last-local-fault?      oc-types:timeticks64
    +--ro last-remote-fault?     oc-types:timeticks64
augment /oc-if:interfaces/oc-if:interface/oc-eth:ethernet/oc-eth:state/oc-eth:counters:
  +--ro bandwidth-utilization
    +--ro in-pkts-per-sec?      uint64
    +--ro out-pkts-per-sec?     uint64
    +--ro in-bits-per-sec?      uint64
    +--ro out-bits-per-sec?     uint64
    +--ro in-bandwidth-percentage? oc-types:percentage
    +--ro out-bandwidth-percentage? oc-types:percentage
augment /oc-if:interfaces/oc-if:interface/oc-eth:ethernet/oc-eth:state:
  +--ro interfaces-auto?       boolean
augment /oc-if:interfaces/oc-if:interface/oc-eth:ethernet/oc-eth:config:
  +--rw interfaces-auto?       boolean
augment /oc-if:interfaces/oc-if:interface/oc-eth:ethernet/oc-eth:state:
  +--ro interfaces-auto-negotiation? boolean
augment /oc-if:interfaces/oc-if:interface/oc-eth:ethernet/oc-eth:config:
  +--rw interfaces-auto-negotiation? boolean
augment /oc-if:interfaces/oc-if:interface/oc-eth:ethernet/oc-eth:state:
  +--ro interfaces-loopback-mode? boolean
augment /oc-if:interfaces/oc-if:interface/oc-eth:ethernet/oc-eth:config:
  +--rw interfaces-loopback-mode? boolean
augment /oc-if:interfaces/oc-if:interface/oc-eth:ethernet/oc-eth:state/oc-eth:counters:
  +--ro in-overflow-frames?     oc-yang:counter64
  +--ro out-carrier-errors-tx?  oc-yang:counter64
  +--ro out-collisions-tx?      oc-yang:counter64

module: extreme-if-tun-ext

augment /oc-if:interfaces/oc-if:interface/oc-tun:tunnel/oc-tun:config:
  +--rw nve? extr-overlay-net:base-nve-ref
augment /oc-if:interfaces/oc-if:interface/oc-tun:tunnel/oc-tun:state:
  +--ro nve? extr-overlay-net:base-nve-ref
  +--ro nexthops* [ip vrf]
    | +--ro ip oc-inet:ip-address
    | +--ro vrf oc-ni:network-instance-ref
    | +--ro l3-interface? oc-if:base-interface-ref
    | +--ro mac-address? oc-yang:mac-address
    | +--ro l2-interface? oc-if:base-interface-ref
    | +--ro bridge-domain? oc-ni:network-instance-ref
  +--ro config-source? identityref

module: extreme-if-ext

augment /oc-if:interfaces/oc-if:interface/oc-if:state:
  +--ro if-mib
    +--ro if-last-change? string
augment /oc-if:interfaces/oc-if:interface/oc-if:state/oc-if:counters:
  +--ro if-mib-counter
    +--ro if-counter-discontinuity-time? string
augment /oc-if:interfaces/oc-if:interface/oc-if:state:
  +--ro oper-down-reason? identityref
augment /oc-if:interfaces/oc-if:interface/oc-if:subinterfaces/oc-if:subinterface/oc-if:state:
  +--ro oper-down-reason? identityref
augment /oc-if:interfaces/oc-if:interface/oc-if:subinterfaces/oc-if:subinterface/oc-if:config:
  +--rw if-mode? identityref
augment /oc-if:interfaces/oc-if:interface/oc-if:subinterfaces/oc-if:subinterface/oc-if:state:
  +--ro if-mode? identityref

```

```

module: extreme-ip-ext

  augment /oc-if:interfaces/oc-if:interface/oc-tun:tunnel/oc-tun:ipv4/oc-tun:addresses/oc-
tun:address/oc-tun:state:
    +--ro secondary?   boolean
    +--ro status?      enumeration

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: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:sub-type?         identityref
      | +--ro extr-ni-ext:statistics?       boolean
      | +--ro extr-ni-ext:counters
      |   +--ro extr-ni-ext:in-octets?       oc-yang:counter64
      |   +--ro extr-ni-ext:in-pkts?        oc-yang:counter64
      |   +--ro extr-ni-ext:out-octets?     oc-yang:counter64
      |   +--ro extr-ni-ext:out-pkts?       oc-yang:counter64
    +--rw fdb
      | +--rw config
      | | +--rw mac-learning?                 boolean
      | | +--rw mac-aging-time?              uint16
      | | +--rw maximum-entries?             uint16
      | | +--rw anycast-gateway-mac?         oc-yang:mac-address
      | | +--rw flood-unknown-unicast-supression? boolean
      | +--ro state
      | | +--ro mac-learning?                 boolean
      | | +--ro mac-aging-time?              uint16
      | | +--ro maximum-entries?             uint16
      | | +--ro anycast-gateway-mac?         oc-yang:mac-address
      | | +--ro flood-unknown-unicast-supression? boolean
      | +--rw mac-table
      | | +--rw entries
      | | | +--rw entry* [mac-address vlan]
      | | | | +--rw mac-address   -> ../config/mac-address
      | | | | +--rw vlan         -> ../config/vlan
      | | | | +--rw config
      | | | | | +--rw mac-address? oc-yang:mac-address
      | | | | | +--rw vlan?       -> ../../../../../../vlangs/vlan/config/vlan-id
      | | | | +--ro state
      | | | | | +--ro mac-address? oc-yang:mac-address
      | | | | | +--ro vlan?       -> ../../../../../../vlangs/vlan/config/vlan-id
      | | | +--rw interface
      | | | | +--rw interface-ref
      | | | | +--rw config
      | | | | | +--rw interface?   -> /oc-if:interfaces/interface/name

```



```

| | | | +--ro extr-ni-evpn-ext:nve?          string
| | | | +--ro extr-ni-evpn-ext:bridge-domain*  oc-ni:network-instance-ref
| | | | +--ro extr-ni-evpn-ext:ignore-as?      boolean
| | | | +--ro extr-ni-evpn-ext:bridge-domains* [bd-id]
| | | | | +--ro extr-ni-evpn-ext:bd-id        -> ../state/bd-id
| | | | | +--ro extr-ni-evpn-ext:state
| | | | | | +--ro extr-ni-evpn-ext:bd-id?     uint32
| | | | | | +--ro extr-ni-evpn-ext:active?   boolean
| | | | | | +--ro extr-ni-evpn-ext:name?     string
| | | | | | +--ro extr-ni-evpn-ext:linked?   boolean
| | | | | +--ro extr-ni-evpn-ext:refresh-reason? string
| | | | | +--ro extr-ni-evpn-ext:rd-auto?    boolean
| | | | | +--ro extr-ni-evpn-ext:import-rt-auto? boolean
| | | | | +--ro extr-ni-evpn-ext:export-rt-auto? boolean
| | | | | +--ro extr-ni-evpn-ext:tunnel-src? string
| | | | | +--ro extr-ni-evpn-ext:router-id?  string
| | | | | +--ro extr-ni-evpn-ext:active?     boolean
| | | | +--rw import-export-policy
| | | | | +--rw config
| | | | | | +--rw export-route-target*      union
| | | | | | +--rw import-route-target*     union
| | | | | +--ro state
| | | | | | +--ro export-route-target*     union
| | | | | | +--ro import-route-target*     union
| | | | +--rw vxlan
| | | | | +--rw config
| | | | | | +--rw vni?                      oc-evpn-types:vni-id
| | | | | +--rw overlay-endpoint-network-instance? -> /network-instances/
network-instance/name
| | | | | +--rw overlay-endpoint?          -> /network-instances/
network-instance[name=current()../overlay-endpoint-network-instance]/connection-points/
connection-point/endpoints/endpoint/config/endpoint-id
| | | | | | +--rw host-reachability-bgp?    boolean
| | | | | | +--rw multicast-group?         oc-inet:ip-address
| | | | | | +--rw multicast-mask?         oc-inet:ip-address
| | | | | +--ro state
| | | | | | +--ro vni?                     oc-evpn-types:vni-id
| | | | | +--ro overlay-endpoint-network-instance? -> /network-instances/
network-instance/name
| | | | | +--ro overlay-endpoint?          -> /network-instances/
network-instance[name=current()../overlay-endpoint-network-instance]/connection-points/
connection-point/endpoints/endpoint/config/endpoint-id
| | | | | | +--ro host-reachability-bgp?    boolean
| | | | | | +--ro multicast-group?         oc-inet:ip-address
| | | | | | +--ro multicast-mask?         oc-inet:ip-address
| | | | | +--rw anycast-source-interface
| | | | | | +--rw config
| | | | | | | +--rw interface?             -> /oc-if:interfaces/interface/name
| | | | | | | +--rw subinterface?         -> /oc-if:interfaces/interface[oc-
if:name=current()../interface]/subinterfaces/subinterface/index
| | | | | | +--ro state
| | | | | | | +--ro interface?             -> /oc-if:interfaces/interface/name
| | | | | | | +--ro subinterface?         -> /oc-if:interfaces/interface[oc-
if:name=current()../interface]/subinterfaces/subinterface/index
| | | | +--rw pbb
| | | | | +--rw b-component* [b-component-name]
| | | | | | +--rw b-component-name        -> ../config/b-component-name
| | | | | | +--rw config
| | | | | | | +--rw b-component-name?     string
| | | | | | | +--rw backbone-src-mac?    oc-yang:mac-address
| | | | | | +--ro state
| | | | | | | +--ro b-component-name?     string
| | | | | | | +--ro backbone-src-mac?    oc-yang:mac-address
| | | | +--rw i-components

```

```

| | | | +---rw i-component* [i-sid]
| | | | +---rw i-sid -> ../config/i-sid
| | | | +---rw config
| | | | | +---rw i-sid? uint32
| | | | +---ro state
| | | | | +---ro i-sid? uint32
| | +---rw extr-ni-evpn-ext:duplicate-host-detection
| | +---rw extr-ni-evpn-ext:mac-detection
| | | +---rw extr-ni-evpn-ext:config
| | | | +---rw extr-ni-evpn-ext:move-count? uint32
| | | | +---rw extr-ni-evpn-ext:detection-time? uint32
| | | | +---rw extr-ni-evpn-ext:dampening-time? uint32
| | | | +---rw extr-ni-evpn-ext:state
| | | | | +---rw extr-ni-evpn-ext:move-count? uint32
| | | | | +---rw extr-ni-evpn-ext:detection-time? uint32
| | | | | +---rw extr-ni-evpn-ext:dampening-time? uint32
| | +---rw extr-ni-evpn-ext:ipv4-detection
| | | +---rw extr-ni-evpn-ext:config
| | | | +---rw extr-ni-evpn-ext:move-count? uint32
| | | | +---rw extr-ni-evpn-ext:detection-time? uint32
| | | | +---rw extr-ni-evpn-ext:dampening-time? uint32
| | | | +---rw extr-ni-evpn-ext:state
| | | | | +---rw extr-ni-evpn-ext:move-count? uint32
| | | | | +---rw extr-ni-evpn-ext:detection-time? uint32
| | | | | +---rw extr-ni-evpn-ext:dampening-time? uint32
| | +---rw extr-ni-evpn-ext:ipv6-detection
| | | +---rw extr-ni-evpn-ext:config
| | | | +---rw extr-ni-evpn-ext:move-count? uint32
| | | | +---rw extr-ni-evpn-ext:detection-time? uint32
| | | | +---rw extr-ni-evpn-ext:dampening-time? uint32
| | | | +---rw extr-ni-evpn-ext:state
| | | | | +---rw extr-ni-evpn-ext:move-count? uint32
| | | | | +---rw extr-ni-evpn-ext:detection-time? uint32
| | | | | +---rw extr-ni-evpn-ext:dampening-time? uint32
| | +---rw 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

```

```

    +--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?                string
    |   | +--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?                  string
    |   | +--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
|                   | | | +--ro control-plane-vnis? string
|                   | | | +--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 multideestination-traffic? union
|                     | +--ro learning-mode? oc-evpn-types:learning-

```

```

mode
|
|         +--ro vni-type?          enumeration
|         +--ro vni-state?        enumeration
|         +--ro svi-state?        enumeration
|         +--ro bridge-domain?    uint32
|         +--ro l3-vrf-name?      string
+--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 enabled?    boolean
| | | | | +---ro state
| | | | | | +---ro enabled?    boolean
| | | | +---rw use-multiple-paths
| | | | | +---rw config
| | | | | | +---rw enabled?    boolean
| | | | | +---ro state
| | | | | | +---ro enabled?    boolean
| | | | | +---rw ebgp
| | | | | | +---rw config
| | | | | | | +---rw allow-multiple-as?  boolean
| | | | | | | +---rw maximum-paths?    uint32
| | | | | | | +---ro state
| | | | | | | | +---ro allow-multiple-as?  boolean
| | | | | | | | +---ro maximum-paths?    uint32
| | | | | +---rw ibgp
| | | | | | +---rw config
| | | | | | | +---rw maximum-paths?    uint32
| | | | | | +---ro state
| | | | | | | +---ro maximum-paths?    uint32
| | | | +---rw ipv4-unicast
| | | | | +---rw config
| | | | | | +---rw send-default-route?  boolean
| | | | | +---ro state
| | | | | | +---ro send-default-route?  boolean
| | | | +---rw ipv6-unicast
| | | | | +---rw config
| | | | | | +---rw send-default-route?  boolean
| | | | | +---ro state
| | | | | | +---ro send-default-route?  boolean
| | | | +---rw l2vpn-evpn
| | | | | +---rw extr-bgp-ext:config
| | | | | | +---rw extr-bgp-ext:retain-route-target-all?  boolean

```

```

| | | | +--rw extr-bgp-ext:state
| | | | | +--rw extr-bgp-ext:retain-route-target-all? boolean
| | | | +--rw extr-bgp-ext:network* [prefix]
| | | | | +--rw extr-bgp-ext:prefix -> ../config/prefix
| | | | | +--rw extr-bgp-ext:config
| | | | | | +--rw extr-bgp-ext:prefix? oc-inet:ip-prefix
| | | | | | +--rw extr-bgp-ext:policy? string
| | | | | +--ro extr-bgp-ext:state
| | | | | | +--ro extr-bgp-ext:prefix? oc-inet:ip-prefix
| | | | | | +--ro extr-bgp-ext:policy? string
| | | | +--rw dynamic-neighbor-prefixes
| | | | | +--rw dynamic-neighbor-prefix* [prefix]
| | | | | +--rw prefix -> ../config/prefix
| | | | | +--rw config
| | | | | | +--rw prefix? oc-inet:ip-prefix
| | | | | | +--rw peer-group? -> ../../../../peer-groups/peer-group/
config/peer-group-name
| | | | +--ro state
| | | | | +--ro prefix? oc-inet:ip-prefix
| | | | | +--ro peer-group? -> ../../../../peer-groups/peer-group/
config/peer-group-name
| | | | +--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


```

types:timeticks64
|
|   +--rw peer-groups
|   |   +--rw peer-group* [peer-group-name]
|   |   |   +--rw peer-group-name   -> ../config/peer-group-name
|   |   |   +--rw config
|   |   |   |   +--rw peer-group-name?   string
|   |   |   |   +--rw peer-as?           oc-inet:as-number
|   |   |   |   +--rw local-as?         oc-inet:as-number
|   |   |   |   +--rw peer-type?        oc-bgp-types:peer-
type
|   |   |   |   +--rw auth-password?     oc-types:routing-
password
|   |   |   |   +--rw description?       string
|   |   |   |   +--rw extr-bgp-ext:admin-down?   boolean
|   |   |   |   +--rw extr-bgp-ext:peer-group-af-type?   identityref
|   |   |   |   +--rw extr-bgp-ext:nvo?       string
|   |   |   |   +--rw extr-bgp-ext:local-as-forced?   uint16
|   |   |   |   +--rw extr-bgp-ext:fast-external-failover?   boolean
|   |   |   |   +--ro state
|   |   |   |   |   +--ro peer-group-name?   string
|   |   |   |   |   +--ro peer-as?           oc-inet:as-number
|   |   |   |   |   +--ro auth-password?     oc-types:routing-
password
|   |   |   |   |   +--ro description?       string
|   |   |   |   |   +--ro extr-bgp-ext:admin-down?   boolean
|   |   |   |   |   +--ro extr-bgp-ext:peer-group-af-type?   identityref
|   |   |   |   |   +--ro extr-bgp-ext:nvo?       string
|   |   |   |   |   +--ro extr-bgp-ext:local-as-forced?   uint16
|   |   |   |   |   +--ro extr-bgp-ext:fast-external-failover?   boolean
|   |   |   |   +--rw timers
|   |   |   |   |   +--rw config
|   |   |   |   |   |   +--rw connect-retry?   uint16
|   |   |   |   |   |   +--rw hold-time?       uint16
|   |   |   |   |   |   +--rw keepalive-interval?   uint16
|   |   |   |   |   |   +--ro state
|   |   |   |   |   |   |   +--ro connect-retry?   uint16
|   |   |   |   |   |   |   +--ro hold-time?       uint16
|   |   |   |   |   |   |   +--ro keepalive-interval?   uint16
|   |   |   |   |   +--rw transport
|   |   |   |   |   |   +--rw config
|   |   |   |   |   |   |   +--rw local-address?   union
|   |   |   |   |   |   |   +--ro state
|   |   |   |   |   |   |   |   +--ro local-address?   union
|   |   |   |   |   +--rw graceful-restart
|   |   |   |   |   |   +--rw config
|   |   |   |   |   |   |   +--rw enabled?         boolean
|   |   |   |   |   |   |   +--rw restart-time?     uint16
|   |   |   |   |   |   |   +--rw stale-routes-time?   uint16
|   |   |   |   |   |   |   +--rw helper-only?       boolean
|   |   |   |   |   |   |   +--ro state
|   |   |   |   |   |   |   |   +--ro enabled?         boolean
|   |   |   |   |   |   |   |   +--ro restart-time?     uint16
|   |   |   |   |   |   |   |   +--ro stale-routes-time?   uint16
|   |   |   |   |   |   |   |   +--ro helper-only?       boolean
|   |   |   |   |   +--rw ebgp-multihop
|   |   |   |   |   |   +--rw config
|   |   |   |   |   |   |   +--rw enabled?         boolean
|   |   |   |   |   |   |   +--rw multihop-ttl?     uint8
|   |   |   |   |   |   |   +--ro state
|   |   |   |   |   |   |   |   +--ro enabled?         boolean
|   |   |   |   |   |   |   |   +--ro multihop-ttl?     uint8
|   |   |   |   |   +--rw route-reflector
|   |   |   |   |   |   +--rw config
|   |   |   |   |   |   |   +--rw route-reflector-cluster-id?   oc-bgp-types:rr-cluster-

```



```

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

```

```

policy-definitions/policy-definition/name
|
| |
| | | +--rw ipv4-unicast
| | | | +--rw config
| | | | | +--rw send-default-route? boolean
| | | | | +--ro state
| | | | | | +--ro send-default-route? boolean
| | | | +--rw ipv6-unicast
| | | | | +--rw config
| | | | | | +--rw send-default-route? boolean
| | | | | +--ro state
| | | | | | +--ro send-default-route? boolean
| | | +--rw l2vpn-evpn
| | +--rw enable-bfd
| | | +--rw config
| | | | +--rw enabled? boolean
| | | | +--rw extr-bfd-ext:profile? profile-ref
| | | +--ro state
| | | | +--ro enabled? boolean
| | | | +--ro extr-bfd-ext:profile? profile-ref
| | | | +--ro extr-bfd-ext:session-Id? uint32
| | | | +--ro extr-bfd-ext:vrf-Id? uint32
| | | | +--ro extr-bfd-ext:source-Id? oc-inet:ip-prefix
| | | | +--ro extr-bfd-ext:destination-Id? oc-inet:ip-prefix
| | | | +--ro extr-bfd-ext:registration-status? boolean
| | | | +--ro extr-bfd-ext:session-status? uint8
| | | | +--ro extr-bfd-ext:status-code? uint8
| | | | +--ro extr-bfd-ext:time-stamp? oc-
types:timeticks64
|
| | +--rw extr-bgp-ext:neighbors
| | | +--rw extr-bgp-ext:neighbor* [neighbor-address]
| | | | +--rw extr-bgp-ext:neighbor-address -> ../config/neighbor-
address
| | | | +--rw extr-bgp-ext:config
| | | | | +--rw extr-bgp-ext:neighbor-address? oc-inet:ip-address
| | | | +--rw extr-bgp-ext:state
| | | | | +--rw extr-bgp-ext:neighbor-address? oc-inet:ip-address
| | +--ro rib
| | | +--ro attr-sets
| | | | +--ro attr-set* [index]
| | | | | +--ro index -> ../state/index
| | | | | +--ro state
| | | | | | +--ro index? uint64
| | | | | | +--ro origin? oc-bgpt:bgp-origin-attr-type
| | | | | | +--ro next-hop? oc-inet:ip-address
| | | | | | +--ro med? uint32
| | | | | | +--ro local-pref? uint32
| | | | | | +--ro originator-id? oc-inet:ipv4-address
| | | | | | +--ro cluster-list* oc-inet:ipv4-address
| | | | | +--ro extr-rib-bgp-ext:as-path-str
| | | | | +--ro extr-rib-bgp-ext:state
| | | | | | +--ro extr-rib-bgp-ext:as-path? string
| | | +--ro communities
| | | | +--ro community* [index]
| | | | | +--ro index -> ../state/index
| | | | | +--ro state
| | | | | | +--ro index? uint64
| | | | | | +--ro community* union
| | | +--ro ext-communities
| | | | +--ro ext-community* [index]
| | | | | +--ro index -> ../state/index
| | | | | +--ro state
| | | | | | +--ro index? uint64
| | | | | | +--ro ext-community* oc-bgpt:bgp-ext-community-recv-type
| | +--ro afi-safis

```



```

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

```

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

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

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

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

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

				+--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:best-
path?		boolean		
				+--ro extr-rib-bgp-ext:last-
modified?		oc-types:timeticks64		
				+--ro extr-rib-bgp-ext:valid-
route?		boolean		
				+--ro extr-rib-bgp-ext:attr-
index?				-> ../../../../../../../../../../../../../../../../../../attr-sets/attr-set/state/
index				
				+--ro extr-rib-bgp-ext:community-
index?				-> ../../../../../../../../../../../../../../../../../../communities/community/state/
index				
				+--ro extr-rib-bgp-ext:ext-community-
index?				-> ../../../../../../../../../../../../../../../../../../ext-communities/ext-community/
state/index				
				+--ro extr-rib-bgp-ext:type-five-ip-prefix
				+--ro extr-rib-bgp-ext:type-five-route*
[ethernet-tag ip-prefix-length ip-prefix]				
				+--ro extr-rib-bgp-ext:ethernet-tag
-> ../state/ethernet-tag				
				+--ro extr-rib-bgp-ext:ip-prefix-length
-> ../state/ip-prefix-length				
				+--ro extr-rib-bgp-ext:ip-prefix
-> ../state/ip-prefix				
				+--ro extr-rib-bgp-ext:state
				+--ro extr-rib-bgp-ext:ethernet-tag?
oc-evpn-types:ethernet-tag				+--ro extr-rib-bgp-ext:ip-prefix-length?
				+--ro extr-rib-bgp-ext:ip-prefix?
string				+--ro extr-rib-bgp-ext:best-path?
oc-inet:ip-prefix				
				+--ro extr-rib-bgp-ext:paths
boolean				+--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:best-
path?		boolean		+++ro extr-rib-bgp-ext:last-
modified?		oc-types:timeticks64		+++ro extr-rib-bgp-ext:valid-
route?		boolean		+++ro extr-rib-bgp-ext:attr-
index?			-> ../../../../../../../../../../../../../../../../../../attr-sets/attr-set/state/	+++ro extr-rib-bgp-ext:community-
index				+++ro extr-rib-bgp-ext:ext-community-
index?			-> ../../../../../../../../../../../../../../../../../../communities/community/state/	+++ro extr-rib-bgp-ext:mac-vrf
index				+++ro extr-rib-bgp-ext:state
index?			-> ../../../../../../../../../../../../../../../../../../ext-communities/ext-community/	+++ro extr-rib-bgp-ext:routes
state/index				+++ro extr-rib-bgp-ext:table* [evi-name bd-id]
				+++ro extr-rib-bgp-ext:evi-
				-> ./state/evi-name
name				+++ro extr-rib-bgp-ext:bd-
id				-> ./state/bd-id
				+++ro extr-rib-bgp-ext:state
				+++ro extr-rib-bgp-ext:evi-name? string
				+++ro extr-rib-bgp-ext:bd-id? uint32
				+++ro extr-rib-bgp-ext:type-two-mac-ip-advertisement
				+++ro extr-rib-bgp-ext:type-two-route* [ethernet-
tag mac-address mac-length ip-prefix ip-length]				+++ro extr-rib-bgp-ext:ethernet-tag -> ./
state/ethernet-tag				+++ro extr-rib-bgp-ext:mac-address -> ./
state/mac-address				+++ro extr-rib-bgp-ext:mac-length -> ./
state/mac-length				+++ro extr-rib-bgp-ext:ip-prefix -> ./
state/ip-prefix				+++ro extr-rib-bgp-ext:ip-length -> ./
state/ip-length				+++ro extr-rib-bgp-ext:state
				+++ro extr-rib-bgp-ext:ethernet-tag? oc-
evpn-types:ethernet-tag				+++ro extr-rib-bgp-ext:mac-address? oc-
yang:mac-address				+++ro extr-rib-bgp-ext:mac-length?
uint32				+++ro extr-rib-bgp-ext:ip-prefix? oc-
inet:ip-prefix				+++ro extr-rib-bgp-ext:ip-length?
uint32				+++ro extr-rib-bgp-ext:best-path?
boolean				+++ro extr-rib-bgp-ext:paths
				+++ro extr-rib-bgp-ext:path* [peer-ip peer-
path-id source-route-distinguisher source-address-family]				+++ro extr-rib-bgp-ext:peer-

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

```

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

```



```

address?          oc-inet:ip-prefix
|
|
ip?               oc-inet:ip-address          +--ro extr-rib-bgp-ext:peer-
|
|               +--ro extr-rib-bgp-ext:peer-path-
id?               uint32
|
|               +--ro extr-rib-bgp-ext:source-route-
distinguisher?  oc-ni-types:route-distinguisher
|
|               +--ro extr-rib-bgp-ext:source-
address-family?  identityref
|
|               +--ro extr-rib-bgp-
ext:label?       string
|
|               +--ro extr-rib-bgp-
ext:label2?      string
|
|               +--ro extr-rib-bgp-ext:best-
path?            boolean
|
|               +--ro extr-rib-bgp-ext:last-
modified?        oc-types:timeticks64
|
|               +--ro extr-rib-bgp-ext:valid-
route?           boolean
|
|               +--ro extr-rib-bgp-ext:attr-
index?           -> ../../../../../../../../../../../../../../attr-sets/attr-set/state/
index
|
|               +--ro extr-rib-bgp-ext:community-
index?           -> ../../../../../../../../../../../../../../communities/community/state/
index
|
|               +--ro extr-rib-bgp-ext:ext-community-
index?           -> ../../../../../../../../../../../../../../ext-communities/ext-community/
state/index
|
|               +--rw extr-bgp-ext:tunnels
|               +--rw extr-bgp-ext:tunnel* [nve dst-ip]
|               +--rw extr-bgp-ext:nve       -> ../state/nve
|               +--rw extr-bgp-ext:dst-ip    -> ../state/dst-ip
|               +--rw extr-bgp-ext:state
|               +--rw extr-bgp-ext:tunnel-type?  extr-bgp-types:tunnel-types
|               +--rw extr-bgp-ext:nve?        string
|               +--rw extr-bgp-ext:dst-ip?     string
|               +--rw extr-bgp-ext:ifname?     string
|               +--rw extr-bgp-ext:src-ip?     string
|               +--rw extr-bgp-ext:ifindex?    uint32
|               +--rw extr-bgp-ext:oper-state? boolean
|               +--rw extr-bgp-ext:bridge-domains* oc-ni:network-instance-ref
+--rw 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
+--ro extr-ni-tables-network-ext:tables-network
  +--ro extr-ni-tables-network-ext:ipv4-unicast
    | +--ro extr-ni-tables-network-ext:ipv4-entry* [prefix-len prefix]
    | +--ro extr-ni-tables-network-ext:prefix-len  -> ../state/prefix-len
    | +--ro extr-ni-tables-network-ext:prefix      -> ../state/prefix
    | +--ro extr-ni-tables-network-ext:state
    |   +--ro extr-ni-tables-network-ext:prefix-len?  uint8
    |   +--ro extr-ni-tables-network-ext:prefix?      oc-inet:ipv4-
prefix
|   +--ro extr-ni-tables-network-ext:route-info* [origin-protocol]
|   | +--ro extr-ni-tables-network-ext:origin-protocol  -> ../state/
origin-protocol
|   | +--ro extr-ni-tables-network-ext:state
|   | +--ro extr-ni-tables-network-ext:origin-protocol? identityref

```

```

|         |         +---ro extr-ni-tables-network-ext:type?           identityref
|         |         +---ro extr-ni-tables-network-ext:tag?           uint32
|         |         +---ro extr-ni-tables-network-ext:admin-distance? uint8
|         |         +---ro extr-ni-tables-network-ext:metric?        uint32
|         |         +---ro extr-ni-tables-network-ext:last-updated?  oc-
types:timeticks64
|         |         +---ro extr-ni-tables-network-ext:next-hop-group?
-> ../../../../../../../next-hop-groups/next-hop-group/state/id
|         |         +---ro extr-ni-tables-network-ext:best-origin-protocol? identityref
|         |         +---ro extr-ni-tables-network-ext:hardware-status?   identityref
+---ro extr-ni-tables-network-ext:ipv6-unicast
|   +---ro extr-ni-tables-network-ext:ipv6-entry* [prefix-len prefix]
|     +---ro extr-ni-tables-network-ext:prefix-len   -> ../state/prefix-len
|     +---ro extr-ni-tables-network-ext:prefix       -> ../state/prefix
|     +---ro extr-ni-tables-network-ext:state
|       +---ro extr-ni-tables-network-ext:prefix-len?   uint8
|       +---ro extr-ni-tables-network-ext:prefix?       oc-inet:ipv6-
prefix
|         +---ro extr-ni-tables-network-ext:route-info* [origin-protocol]
|         |   +---ro extr-ni-tables-network-ext:origin-protocol   -> ../state/
origin-protocol
|         |   +---ro extr-ni-tables-network-ext:state
|         |   |   +---ro extr-ni-tables-network-ext:origin-protocol? identityref
|         |   |   +---ro extr-ni-tables-network-ext:type?           identityref
|         |   |   +---ro extr-ni-tables-network-ext:tag?           uint32
|         |   |   +---ro extr-ni-tables-network-ext:admin-distance? uint8
|         |   |   +---ro extr-ni-tables-network-ext:metric?        uint32
|         |   |   +---ro extr-ni-tables-network-ext:last-updated?  oc-
types:timeticks64
|         |   +---ro extr-ni-tables-network-ext:next-hop-group?
-> ../../../../../../../next-hop-groups/next-hop-group/state/id
|         |   +---ro extr-ni-tables-network-ext:best-origin-protocol? identityref
|         |   +---ro extr-ni-tables-network-ext:hardware-status?   identityref
+---ro extr-ni-tables-network-ext:ethernet
|   +---ro extr-ni-tables-network-ext:mac-entry* [mac-address]
|     +---ro extr-ni-tables-network-ext:mac-address   -> ../state/mac-address
|     +---ro extr-ni-tables-network-ext:state
|       +---ro extr-ni-tables-network-ext:mac-address?   oc-yang:mac-
address
|         +---ro extr-ni-tables-network-ext:route-info* [origin-protocol]
|         |   +---ro extr-ni-tables-network-ext:origin-protocol   -> ../state/
origin-protocol
|         |   +---ro extr-ni-tables-network-ext:state
|         |   |   +---ro extr-ni-tables-network-ext:origin-protocol? identityref
|         |   |   +---ro extr-ni-tables-network-ext:type?           identityref
|         |   |   +---ro extr-ni-tables-network-ext:last-updated?  oc-
types:timeticks64
|         |   +---ro extr-ni-tables-network-ext:seq-no?           uint32
|         |   +---ro extr-ni-tables-network-ext:next-hop-group?
-> ../../../../../../../next-hop-groups/next-hop-group/state/id
|         |   +---ro extr-ni-tables-network-ext:best-origin-protocol? identityref
|         |   +---ro extr-ni-tables-network-ext:hardware-status?   identityref
+---ro extr-ni-tables-network-ext:ipv4-neighbor
|   +---ro extr-ni-tables-network-ext:ipv4-nbr-entry* [nbr-address]
|     +---ro extr-ni-tables-network-ext:nbr-address   -> ../state/nbr-address
|     +---ro extr-ni-tables-network-ext:state
|       +---ro extr-ni-tables-network-ext:nbr-address?   oc-inet:ipv4-
prefix
|         +---ro extr-ni-tables-network-ext:route-info* [origin-protocol]
|         |   +---ro extr-ni-tables-network-ext:origin-protocol   -> ../state/
origin-protocol
|         |   +---ro extr-ni-tables-network-ext:state
|         |   |   +---ro extr-ni-tables-network-ext:origin-protocol? identityref
|         |   |   +---ro extr-ni-tables-network-ext:type?           identityref

```

```

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

```

```

interface/name          +---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
interface/name          +---ro extr-ni-tables-network-ext:l3-interface?   -> /oc-if:interfaces/
interface/name

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
        +---ro members
          +---ro member* [interface]
            +---ro interface -> ../state/interface
            +---ro state
              +---ro interface?      oc-if:base-
interface-ref          +---ro activity?      lacp-activity-
type                   +---ro timeout?      lacp-timeout-type
                       +---ro synchronization? lacp-
synchronization-type  +---ro aggregatable?   boolean
                       +---ro collecting?     boolean
                       +---ro distributing?   boolean
                       +---ro system-id?     oc-yang:mac-
address                +---ro oper-key?      uint16
                       +---ro partner-id?    oc-yang:mac-
address                +---ro partner-key?   uint16
                       +---ro port-num?     uint16
                       +---ro partner-port-num? uint16
                       +---ro last-change?   oc-
types:timeticks64
  +---ro counters
    | +---ro lacp-in-pkts?          oc-yang:counter64
    | +---ro lacp-out-pkts?        oc-yang:counter64
    | +---ro lacp-rx-errors?       oc-yang:counter64
    | +---ro lacp-tx-errors?       oc-yang:counter64
    | +---ro lacp-unknown-errors?  oc-yang:counter64
    | +---ro lacp-errors?          oc-yang:counter64
    | +---ro lacp-timeout-transitions? oc-yang:counter64
    +---ro extr-lacp-ext:rx-machine? rx-machine-state
    +---ro extr-lacp-ext:rx-time?   uint32

```

```

state
    +--ro extr-lacp-ext:tx-machine?          tx-machine-state
    +--ro extr-lacp-ext:mux-machine?        mux-machine-state
    +--ro extr-lacp-ext:mux-reason?         string
    +--ro extr-lacp-ext:actor-churn-machine? churn-machine-

state
    +--ro extr-lacp-ext:partner-churn-machine? churn-machine-

state
    +--ro extr-lacp-ext:actor-churn-count?  oc-yang:counter64
    +--ro extr-lacp-ext:partner-churn-count? oc-yang:counter64
    +--ro extr-lacp-ext:actor-sync-transition-count? oc-yang:counter64
    +--ro extr-lacp-ext:partner-sync-transition-count? oc-yang:counter64
    +--ro extr-lacp-ext:actor-change-count?  oc-yang:counter64
    +--ro extr-lacp-ext:partner-change-count? oc-yang:counter64
    +--ro extr-lacp-ext:actor-cds-churn-machine? churn-machine-

state
    +--ro extr-lacp-ext:partner-cds-churn-machine? churn-machine-

state
    +--ro extr-lacp-ext:actor-cds-churn-count? oc-yang:counter64
    +--ro extr-lacp-ext:partner-cds-churn-count? oc-yang:counter64

module: openconfig-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 forwarding-groups
      | +--rw forwarding-group* [name]
      |   +--rw name -> ../config/name
      |   +--rw config

```

```

|     | +--rw name?                string
|     | +--rw output-queue?       -> ../../../../../../queues/queue/config/name
|     | +--rw extr-qos-ext:description? string
|     +--ro state
|         +--ro name?              string
|         +--ro output-queue?     -> ../../../../../../queues/queue/config/name
|         +--ro extr-qos-ext:description? string
+--rw queues
| +--rw queue* [name]
|     +--rw name                -> ../config/name
|     +--rw config
|         | +--rw name?          string
|         +--ro state
|             +--ro name?        string
+--rw extr-qos-ext:maps
| +--rw extr-qos-ext:traffic-class-maps
|     | +--rw extr-qos-ext:traffic-class-map* [name]
|     |     +--rw extr-qos-ext:name          -> ../config/name
|     |     +--rw extr-qos-ext:config
|     |         | +--rw extr-qos-ext:name?      string
|     |         | +--rw extr-qos-ext:default-traffic-class? uint8
|     |         +--ro extr-qos-ext:state
|     |             | +--ro extr-qos-ext:name?      string
|     |             | +--ro extr-qos-ext:default-traffic-class? uint8
|     |             +--rw extr-qos-ext:cos-maps
|     |                 | +--rw extr-qos-ext:cos-map* [cos]
|     |                 |     +--rw extr-qos-ext:cos          -> ../config/cos
|     |                 |     +--rw extr-qos-ext:config
|     |                 |         | +--rw extr-qos-ext:cos?      uint8
|     |                 |         | +--rw extr-qos-ext:traffic-class? uint8
|     |                 |         +--ro extr-qos-ext:state
|     |                 |             +--ro extr-qos-ext:cos?      uint8
|     |                 |             +--ro extr-qos-ext:traffic-class? uint8
|     |                 +--rw extr-qos-ext:dscp-maps
|     |                     +--rw extr-qos-ext:dscp-map* [dscp]
|     |                     +--rw extr-qos-ext:dscp          -> ../config/dscp
|     |                     +--rw extr-qos-ext:config
|     |                         | +--rw extr-qos-ext:dscp?      oc-inet:dscp
|     |                         | +--rw extr-qos-ext:traffic-class? uint8
|     |                         +--ro extr-qos-ext:state
|     |                             +--ro extr-qos-ext:dscp?      oc-inet:dscp
|     |                             +--ro extr-qos-ext:traffic-class? uint8
|     +--rw extr-qos-ext:remark-maps
|         +--rw extr-qos-ext:remark-map* [name]
|             +--rw extr-qos-ext:name          -> ../config/name
|             +--rw extr-qos-ext:config
|                 | +--rw extr-qos-ext:name?      string
|                 +--ro extr-qos-ext:state
|                     | +--ro extr-qos-ext:name?      string
|                 +--rw extr-qos-ext:traffic-class-maps
|                     +--rw extr-qos-ext:traffic-class-map* [traffic-class]
|                         +--rw extr-qos-ext:traffic-class    -> ../config/traffic-class
|                         +--rw extr-qos-ext:config
|                             | +--rw extr-qos-ext:traffic-class? uint8
|                             | +--rw extr-qos-ext:cos?          uint8
|                             | +--rw extr-qos-ext:dscp?        oc-inet:dscp
|                             +--ro extr-qos-ext:state
|                                 +--ro extr-qos-ext:traffic-class? uint8
|                                 +--ro extr-qos-ext:cos?          uint8
|                                 +--ro extr-qos-ext:dscp?        oc-inet:dscp
+--rw extr-qos-ext:nvos
| +--rw extr-qos-ext:nvo* [name]
|     +--rw extr-qos-ext:name          -> ../config/name
|     +--rw extr-qos-ext:config

```

```

    | +--rw extr-qos-ext:name?  string
+--ro extr-qos-ext:state
    | +--ro extr-qos-ext:name?  string
+--rw extr-qos-ext:tunnel-mode
    +--rw extr-qos-ext:config
        | +--rw extr-qos-ext:encapsulation?  extr-qos-types:tunnel-mode-type
        | +--rw extr-qos-ext:dscp?          oc-inet:dscp
        | +--rw extr-qos-ext:decapsulation?  extr-qos-types:tunnel-mode-type
+--ro extr-qos-ext:state
    +--ro extr-qos-ext:encapsulation?  extr-qos-types:tunnel-mode-type
    +--ro extr-qos-ext:dscp?          oc-inet:dscp
    +--ro extr-qos-ext:decapsulation?  extr-qos-types:tunnel-mode-type

module: openconfig-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 neighbor-sets
        | | | +--rw neighbor-set* [name]
        | | | | +--rw name          -> ../config/name
        | | | | +--rw config
        | | | | | +--rw name?      string
        | | | | | +--rw address*   oc-inet:ip-address
        | | | | +--ro state
        | | | | | +--ro name?     string
        | | | | | +--ro address*  oc-inet:ip-address
        | | +--rw tag-sets
        | | | +--rw tag-set* [name]
        | | | | +--rw name          -> ../config/name
        | | | | +--rw config
        | | | | | +--rw name?      string
        | | | | | +--rw tag-value*  oc-pol-types:tag-type
        | | | | +--ro state
        | | | | | +--ro name?     string
        | | | | | +--ro tag-value*  oc-pol-types:tag-type
        | | +--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
        | | | | | | +--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
| | | +--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
| | | | +--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
| | | +--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 config
| | +--rw call-policy? -> ../../../../../../../../../../policy-
definitions/policy-definition/name
| | | +--rw install-protocol-eq? identityref
| | | +--ro state
| | | +--ro call-policy? -> ../../../../../../../../../../policy-
definitions/policy-definition/name
| | | +--ro install-protocol-eq? identityref
| | +--rw match-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 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 match-neighbor-set
| | +--rw config
| | | +--rw neighbor-set? -> ../../../../../../../defined-
sets/neighbor-sets/neighbor-set/name
| | | +--rw match-set-options? oc-pol-types:match-set-options-
restricted-type
| | +--ro state
| | +--ro neighbor-set? -> ../../../../../../../defined-
sets/neighbor-sets/neighbor-set/name
| | +--ro match-set-options? oc-pol-types:match-set-options-
restricted-type
| +--rw match-tag-set
| | +--rw config
| | | +--rw tag-set? -> ../../../../../../../defined-
sets/tag-sets/tag-set/name
| | | +--rw match-set-options? oc-pol-types:match-set-options-
restricted-type
| | +--ro state
| | +--ro tag-set? -> ../../../../../../../defined-
sets/tag-sets/tag-set/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* oc-inet:ip-address
| | +--rw oc-bgp-pol:afi-safi-in* identityref
| | +--rw oc-bgp-pol:local-pref-eq? uint32
| | +--rw oc-bgp-pol:route-type? enumeration
| | +--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
| | +--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-name
| | +--ro oc-bgp-pol:state
| | +--ro oc-bgp-pol:med-eq? uint32
| | +--ro oc-bgp-pol:origin-eq? oc-bgp-types:bgp-origin-
attr-type
| | +--ro oc-bgp-pol:next-hop-in* oc-inet:ip-address
| | +--ro oc-bgp-pol:afi-safi-in* identityref
| | +--ro oc-bgp-pol:local-pref-eq? uint32
| | +--ro oc-bgp-pol:route-type? enumeration
| | +--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
| | +--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-name
| +--rw oc-bgp-pol:community-count
| +--rw oc-bgp-pol:config
| | +--rw oc-bgp-pol:operator? identityref
| | +--rw oc-bgp-pol:value? uint32
| | +--ro oc-bgp-pol:state
| | +--ro oc-bgp-pol:operator? identityref
| | +--ro oc-bgp-pol:value? uint32
| +--rw oc-bgp-pol:as-path-length

```

```

| | | +--rw oc-bgp-pol:config
| | | | +--rw oc-bgp-pol:operator? identityref
| | | | +--rw oc-bgp-pol:value? uint32
| | | +--ro oc-bgp-pol:state
| | | | +--ro oc-bgp-pol:operator? identityref
| | | | +--ro oc-bgp-pol:value? uint32
| | +--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
options-type
| | | | +--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
options-type
| | | | +--ro oc-bgp-pol:match-set-options? oc-pol-types:match-set-
options-type
+--rw actions
+--rw config
| +--rw policy-result? policy-result-type
+--ro state
| +--ro policy-result? policy-result-type
+--rw set-tag
| +--rw config
| | +--rw mode? enumeration
| +--ro state
| | +--ro mode? enumeration
| +--rw inline
| | +--rw config
| | | +--rw tag* oc-pol-types:tag-type
| | | +--ro state
| | | +--ro tag* oc-pol-types:tag-type
| +--rw reference
| +--rw config
| | +--rw tag-set? -> ../../../../../../../../../../defined-sets/
tag-sets/tag-set/config/name
| | +--ro state
| | +--ro tag-set? -> ../../../../../../../../../../defined-sets/
tag-sets/tag-set/config/name
+--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:inline
| | +--rw oc-bgp-pol:config
| | | +--rw oc-bgp-pol:communities* union
| | +--ro oc-bgp-pol:state
| | +--ro oc-bgp-pol:communities* union
| +--rw oc-bgp-pol:reference
| +--rw oc-bgp-pol:config
| | +--rw oc-bgp-pol:community-set-ref? -> /oc-rpol:routing-
policy/defined-sets/oc-bgp-pol:bgp-defined-sets/community-sets/community-set/community-
set-name
| +--ro oc-bgp-pol:state
| +--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:inline
| +--rw oc-bgp-pol:config
| | +--rw oc-bgp-pol:communities* union
| +--ro oc-bgp-pol:state
| +--ro oc-bgp-pol:communities* union
+--rw oc-bgp-pol:reference
+--rw oc-bgp-pol:config
| +--rw oc-bgp-pol:ext-community-set-ref? -> /oc-
rpol:routing-policy/defined-sets/oc-bgp-pol:bgp-defined-sets/ext-community-sets/ext-
community-set/ext-community-set-name
+--ro oc-bgp-pol:state
+--ro oc-bgp-pol:ext-community-set-ref? -> /oc-
rpol:routing-policy/defined-sets/oc-bgp-pol:bgp-defined-sets/ext-community-sets/ext-
community-set/ext-community-set-name

module: openconfig-bfd
+--rw bfd
+--rw interfaces
| +--rw interface* [id]
| +--rw id -> ../config/id
| +--rw config
| | +--rw id? string
| | +--rw enabled? boolean
| | +--rw local-address? oc-inet:ip-address
| | +--rw desired-minimum-tx-interval? uint32
| | +--rw required-minimum-receive? uint32
| | +--rw detection-multiplier? uint8
| | +--rw enable-per-member-link? boolean
| | +--rw extr-bfd-ext:profile? profile-ref
| +--ro state
| | +--ro id? string
| | +--ro enabled? boolean
| | +--ro local-address? oc-inet:ip-address
| | +--ro desired-minimum-tx-interval? uint32
| | +--ro required-minimum-receive? uint32
| | +--ro detection-multiplier? uint8
| | +--ro enable-per-member-link? boolean
| | +--ro extr-bfd-ext:session-count? uint16
| | +--ro extr-bfd-ext:profile? profile-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 micro-bfd-sessions
| |     +--rw micro-bfd-session* [member-interface]
| |       +--rw member-interface -> ../config/member-interface
| |       +--rw config
| |         +--rw local-address?   oc-inet:ip-address
| |         +--rw remote-address?  oc-inet:ip-address
| |         +--rw member-interface -> /oc-if:interfaces/interface/config/name
| |       +--ro state
| |         +--ro local-address?    oc-inet:ip-address
| |         +--ro remote-address?   oc-inet:ip-address
| |         +--ro member-interface? -> /oc-if:interfaces/
interface/config/name
| |         +--ro session-state?     bfd-session-state
| |         +--ro remote-session-state? bfd-session-state
| |         +--ro last-failure-time? oc-types:timeticks64
| |         +--ro failure-transitions? uint64
| |         +--ro local-discriminator? string
| |         +--ro remote-discriminator? string
| |         +--ro local-diagnostic-code? bfd-diagnostic-code
| |         +--ro remote-diagnostic-code? bfd-diagnostic-code
| |         +--ro remote-minimum-receive-interval? uint32
| |         +--ro demand-mode-requested? boolean
| |         +--ro remote-authentication-enabled? boolean
| |         +--ro remote-control-plane-independent? boolean
| |       +--ro async
| |         +--ro last-packet-transmitted? uint64
| |         +--ro last-packet-received? uint64
| |         +--ro transmitted-packets? uint64
| |         +--ro received-packets? uint64
| |         +--ro up-transitions? uint64
| |     +--rw peers
| |       +--ro peer* [local-discriminator]
| |         +--ro local-discriminator -> ../state/local-discriminator
| |         +--ro state
| |           +--ro local-address?      oc-inet:ip-
address
| |           +--ro remote-address?     oc-inet:ip-
address
| |           +--ro subscribed-protocols* identityref
| |           +--ro session-state?     bfd-session-
state
| |           +--ro remote-session-state? bfd-session-
state
| |           +--ro last-failure-time?  oc-
types:timeticks64
| |           +--ro failure-transitions? uint64
| |           +--ro local-discriminator? string
| |           +--ro remote-discriminator? string
| |           +--ro local-diagnostic-code? bfd-diagnostic-
code
| |           +--ro remote-diagnostic-code? bfd-diagnostic-
code
| |           +--ro remote-minimum-receive-interval? uint32
| |           +--ro demand-mode-requested? boolean
| |           +--ro remote-authentication-enabled? boolean
| |           +--ro remote-control-plane-independent? boolean
| |           +--ro echo

```

```

|         | +--ro active?                boolean
|         | +--ro last-packet-transmitted? uint64
|         | +--ro last-packet-received?  uint64
|         | +--ro transmitted-packets?   uint64
|         | +--ro received-packets?     uint64
|         | +--ro up-transitions?        uint64
|         +--ro async
|         | +--ro last-packet-transmitted? uint64
|         | +--ro last-packet-received?  uint64
|         | +--ro transmitted-packets?   uint64
|         | +--ro received-packets?     uint64
|         | +--ro up-transitions?        uint64
|         +--ro extr-bfd-ext:profiles* [subscribed-protocol]
|         | +--ro extr-bfd-ext:subscribed-protocol identityref
|         | +--ro extr-bfd-ext:proto-profiles* string
|         +--ro extr-bfd-ext:applied-profile? string
|         +--ro extr-bfd-ext:local-minimum-tx-interval? uint32
|         +--ro extr-bfd-ext:local-minimum-rx-interval? uint32
|         +--ro extr-bfd-ext:local-detection-multiplier? uint8
|         +--ro extr-bfd-ext:remote-minimum-transmit-interval? uint32
|         +--ro extr-bfd-ext:remote-detection-multiplier? uint32
|         +--ro extr-bfd-ext:authentication-failure? boolean
|         +--ro extr-bfd-ext:last-up-time? oc-
types:timeticks64
+--rw extr-bfd-ext:bfd-profiles
  +--rw extr-bfd-ext:bfd-profile* [name]
    +--rw extr-bfd-ext:name -> ../config/name
    +--rw extr-bfd-ext:config
      | +--rw extr-bfd-ext:name? string
      | +--rw extr-bfd-ext:desired-minimum-tx-interval? uint32
      | +--rw extr-bfd-ext:required-minimum-receive? uint32
      | +--rw extr-bfd-ext:detection-multiplier? uint8
      | +--rw extr-bfd-ext:authentication
      |   +--rw extr-bfd-ext:key-chain? oc-keychain:keychain-ref
      |   +--rw extr-bfd-ext:meticulous? boolean
    +--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
      +--ro extr-bfd-ext:authentication
        +--ro extr-bfd-ext:key-chain? oc-keychain:keychain-ref
        +--ro extr-bfd-ext:meticulous? boolean

```

ACL Module Support

The Extreme 9920 software with the NPB application supports `openconfig-acl.yang`, v1.0.1, with the following deviations.

```

module extreme-openconfig-acl-deviations {

  namespace
    "http://extremenetworks.com/yang/openconfig-acl-deviations";

  prefix "extr-oc-acl-dev";

  import openconfig-acl { prefix "oc-acl"; }

  organization "Extreme Networks, Inc.";

  contact
    "Extreme Networks, Inc.
    www.extremenetworks.com";

```

```
description
  "This module describes the deviations from openconfig-acl v1.0.1";

revision "2021-06-04" {
  description
    "Initial version.";
  reference "1.0.0";
}

deviation /oc-acl:acl/oc-acl:state/oc-acl:counter-capability {
  deviate not-supported;
}

deviation /oc-acl:acl/oc-acl:acl-sets/oc-acl:acl-set/oc-acl:config/oc-acl:description
{
  deviate not-supported;
}

deviation /oc-acl:acl/oc-acl:acl-sets/oc-acl:acl-set/oc-acl:state/oc-acl:description {
  deviate not-supported;
}

deviation /oc-acl:acl/oc-acl:acl-sets/oc-acl:acl-set/oc-acl:acl-entries/oc-acl:acl-
entry/oc-acl:config/oc-acl:description {
  deviate not-supported;
}

deviation /oc-acl:acl/oc-acl:acl-sets/oc-acl:acl-set/oc-acl:acl-entries/oc-acl:acl-
entry/oc-acl:state/oc-acl:description {
  deviate not-supported;
}

deviation /oc-acl:acl/oc-acl:acl-sets/oc-acl:acl-set/oc-acl:acl-entries/oc-acl:acl-
entry/oc-acl:state/oc-acl:matched-packets {
  deviate not-supported;
}

deviation /oc-acl:acl/oc-acl:acl-sets/oc-acl:acl-set/oc-acl:acl-entries/oc-acl:acl-
entry/oc-acl:state/oc-acl:matched-octets {
  deviate not-supported;
}

deviation /oc-acl:acl/oc-acl:acl-sets/oc-acl:acl-set/oc-acl:acl-entries/oc-acl:acl-
entry/oc-acl:l2 {
  deviate not-supported;
}

deviation /oc-acl:acl/oc-acl:acl-sets/oc-acl:acl-set/oc-acl:acl-entries/oc-acl:acl-
entry/oc-acl:ipv4 {
  deviate not-supported;
}

deviation /oc-acl:acl/oc-acl:acl-sets/oc-acl:acl-set/oc-acl:acl-entries/oc-acl:acl-
entry/oc-acl:ipv6 {
  deviate not-supported;
}

deviation /oc-acl:acl/oc-acl:acl-sets/oc-acl:acl-set/oc-acl:acl-entries/oc-acl:acl-
entry/oc-acl:transport {
  deviate not-supported;
}

deviation /oc-acl:acl/oc-acl:acl-sets/oc-acl:acl-set/oc-acl:acl-entries/oc-acl:acl-
```

```
entry/oc-acl:input-interface {
    deviate not-supported;
}

deviation /oc-acl:acl/oc-acl:interfaces {
    deviate not-supported;
}

}
```

Interfaces Module Support

The Extreme 9920 software with the NPB application supports `openconfig-interfaces.yang`, v2.4.3, with the following deviations.

```
module extreme-openconfig-interfaces-deviations {

    namespace
        "http://extremenetworks.com/yang/openconfig-interfaces-deviations";

    prefix "extr-oc-int-dev";

    import openconfig-interfaces { prefix "oc-if"; }

    organization "Extreme Networks, Inc.";

    contact
        "Extreme Networks, Inc.
        www.extremenetworks.com";

    description
        "This module describes the deviations from openconfig-interfaces v2.4.3";

    revision "2021-06-04" {
        description
            "Initial version.";
        reference "1.0.0";
    }

    deviation /oc-if:interfaces/oc-if:interface/oc-if:state/oc-if:logical {
        deviate not-supported;
    }

}
```

LLDP Module Support

The Extreme 9920 software with the NPB application supports `openconfig-lldp.yang`, v0.1.1, with the following deviations.

```
module extreme-openconfig-lldp-deviations {

    namespace
        "http://extremenetworks.com/yang/openconfig-lldp-deviations";

    prefix "extr-oc-lldp-dev";

    import openconfig-lldp { prefix "oc-lldp"; }

    organization "Extreme Networks, Inc.";

    contact
```

```

    "Extreme Networks, Inc.
    www.extremenetworks.com";

description
    "This module describes the deviations from openconfig-lldp v0.1.1";

revision "2021-10-04" {
    description
        "Initial version.";
    reference "1.0.0";
}

deviation /oc-lldp:lldp/oc-lldp:state/oc-lldp:counters/oc-lldp:entries-aged-out {
    deviate not-supported;
}
deviation /oc-lldp:lldp/oc-lldp:state/oc-lldp:counters/oc-lldp:frame-discard {
    deviate not-supported;
}
deviation /oc-lldp:lldp/oc-lldp:state/oc-lldp:counters/oc-lldp:frame-error-in {
    deviate not-supported;
}
deviation /oc-lldp:lldp/oc-lldp:state/oc-lldp:counters/oc-lldp:tlv-accepted {
    deviate not-supported;
}
deviation /oc-lldp:lldp/oc-lldp:state/oc-lldp:counters/oc-lldp:tlv-discard {
    deviate not-supported;
}
deviation /oc-lldp:lldp/oc-lldp:state/oc-lldp:counters/oc-lldp:tlv-unknown {
    deviate not-supported;
}

    deviation /oc-lldp:lldp/oc-lldp:interfaces/oc-lldp:interface/oc-lldp:state/oc-
lldp:counters/oc-lldp:frame-discard {
        deviate not-supported;
    }
    deviation /oc-lldp:lldp/oc-lldp:interfaces/oc-lldp:interface/oc-lldp:state/oc-
lldp:counters/oc-lldp:frame-error-in {
        deviate not-supported;
    }
    deviation /oc-lldp:lldp/oc-lldp:interfaces/oc-lldp:interface/oc-lldp:state/oc-
lldp:counters/oc-lldp:frame-error-out {
        deviate not-supported;
    }
    deviation /oc-lldp:lldp/oc-lldp:interfaces/oc-lldp:interface/oc-lldp:state/oc-
lldp:counters/oc-lldp:tlv-discard {
        deviate not-supported;
    }
    deviation /oc-lldp:lldp/oc-lldp:interfaces/oc-lldp:interface/oc-lldp:state/oc-
lldp:counters/oc-lldp:tlv-unknown {
        deviate not-supported;
    }

    deviation /oc-lldp:lldp/oc-lldp:interfaces/oc-lldp:interface/oc-lldp:neighbors/oc-
lldp:neighbor/oc-lldp:custom-tlvs {
        deviate not-supported;
    }
}

```


Network Instance Module Support

The Extreme 9920 software with the NPB application supports `openconfig-network-instance.yang, v0.10.2`, with the following deviations.

```

module extreme-openconfig-network-instance-deviations {
    namespace
        "http://extremenetworks.com/yang/openconfig-network-instance-deviations";

    prefix "extr-oc-net-dev";

    import openconfig-network-instance { prefix "oc-net"; }

    organization "Extreme Networks, Inc.";

    contact
        "Extreme Networks, Inc.
        www.extremenetworks.com";

    description
        "This module describes the deviations from openconfig-network-instance v0.10.2";

    revision "2021-06-04" {
        description
            "Initial version.";
        reference "1.0.0";
    }

    deviation /oc-net:network-instances/oc-net:network-instance/oc-net:fdb {
        deviate not-supported;
    }

    deviation /oc-net:network-instances/oc-net:network-instance/oc-net:evpn {
        deviate not-supported;
    }

    deviation /oc-net:network-instances/oc-net:network-instance/oc-net:encapsulation {
        deviate not-supported;
    }

    deviation /oc-net:network-instances/oc-net:network-instance/oc-net:inter-instance-
policies {
        deviate not-supported;
    }

    deviation /oc-net:network-instances/oc-net:network-instance/oc-net:table-connections {
        deviate not-supported;
    }

    deviation /oc-net:network-instances/oc-net:network-instance/oc-net:route-limits {
        deviate not-supported;
    }

    deviation /oc-net:network-instances/oc-net:network-instance/oc-net:tables {
        deviate not-supported;
    }

    deviation /oc-net:network-instances/oc-net:network-instance/oc-net:connection-points {
        deviate not-supported;
    }

    deviation /oc-net:network-instances/oc-net:network-instance/oc-net:mpls {

```

```

    deviate not-supported;
  }

  deviation /oc-net:network-instances/oc-net:network-instance/oc-net:segment-routing {
    deviate not-supported;
  }

  deviation /oc-net:network-instances/oc-net:network-instance/oc-net:vllans {
    deviate not-supported;
  }

  deviation /oc-net:network-instances/oc-net:network-instance/oc-net:policy-forwarding {
    deviate not-supported;
  }

  deviation /oc-net:network-instances/oc-net:network-instance/oc-net:afts {
    deviate not-supported;
  }

  deviation /oc-net:network-instances/oc-net:network-instance/oc-net:protocols/oc-
net:protocol/oc-net:local-aggregates {
    deviate not-supported;
  }

  deviation /oc-net:network-instances/oc-net:network-instance/oc-net:protocols/oc-
net:protocol/oc-net:bgp {
    deviate not-supported;
  }

  deviation /oc-net:network-instances/oc-net:network-instance/oc-net:protocols/oc-
net:protocol/oc-net:ospfv2 {
    deviate not-supported;
  }

  deviation /oc-net:network-instances/oc-net:network-instance/oc-net:protocols/oc-
net:protocol/oc-net:isis {
    deviate not-supported;
  }

  deviation /oc-net:network-instances/oc-net:network-instance/oc-net:protocols/oc-
net:protocol/oc-net:pim {
    deviate not-supported;
  }

  deviation /oc-net:network-instances/oc-net:network-instance/oc-net:protocols/oc-
net:protocol/oc-net:igmp {
    deviate not-supported;
  }
}

```

Platform Module Support

The Extreme 9920 software with the NPB application supports `openconfig-platform.yang`, v0.11.0, with the following deviations.

```

module extreme-openconfig-platform-deviations {

  namespace
    "http://extremenetworks.com/yang/openconfig-platform-deviations";

  prefix "extr-oc-plat-dev";
}

```

```
import openconfig-platform { prefix "oc-platform"; }
import openconfig-alarms { prefix "oc-alarms"; }

organization "Extreme Networks, Inc.";

contact
  "Extreme Networks, Inc.
  www.extremenetworks.com";

description
  "This module describes the deviations from openconfig-platform v0.11.0";

revision "2021-06-04" {
  description
    "Initial version.";
  reference "1.0.0";
}

deviation /oc-platform:components/oc-platform:component/oc-platform:state/oc-
platform:allocated-power {
  deviate not-supported;
}
deviation /oc-platform:components/oc-platform:component/oc-platform:state/oc-
platform:description {
  deviate not-supported;
}
deviation /oc-platform:components/oc-platform:component/oc-platform:state/oc-
platform:empty {
  deviate not-supported;
}
deviation /oc-platform:components/oc-platform:component/oc-platform:state/oc-
alarms:equipment-failure {
  deviate not-supported;
}
deviation /oc-platform:components/oc-platform:component/oc-platform:state/oc-
alarms:equipment-mismatch {
  deviate not-supported;
}
deviation /oc-platform:components/oc-platform:component/oc-platform:state/oc-
platform:firmware-version {
  deviate not-supported;
}
deviation /oc-platform:components/oc-platform:component/oc-platform:state/oc-
platform:hardware-version {
  deviate not-supported;
}
deviation /oc-platform:components/oc-platform:component/oc-platform:state/oc-
platform:memory {
  deviate not-supported;
}
deviation /oc-platform:components/oc-platform:component/oc-platform:state/oc-
platform:mfg-date {
  deviate not-supported;
}
deviation /oc-platform:components/oc-platform:component/oc-platform:state/oc-
platform:mfg-name {
  deviate not-supported;
}
deviation /oc-platform:components/oc-platform:component/oc-platform:state/oc-
platform:oper-status {
  deviate not-supported;
}
deviation /oc-platform:components/oc-platform:component/oc-platform:state/oc-
platform:parent {
```

```

        deviate not-supported;
    }
    deviation /oc-platform:components/oc-platform:component/oc-platform:state/oc-
platform:removable {
        deviate not-supported;
    }
    deviation /oc-platform:components/oc-platform:component/oc-platform:state/oc-
platform:serial-no {
        deviate not-supported;
    }
    deviation /oc-platform:components/oc-platform:component/oc-platform:state/oc-
platform:software-version {
        deviate not-supported;
    }
    deviation /oc-platform:components/oc-platform:component/oc-platform:state/oc-
platform:temperature {
        deviate not-supported;
    }
    deviation /oc-platform:components/oc-platform:component/oc-platform:state/oc-
platform:used-power {
        deviate not-supported;
    }
    deviation /oc-platform:components/oc-platform:component/oc-platform:subcomponents {
        deviate not-supported;
    }
    deviation /oc-platform:components/oc-platform:component/oc-platform:backplane {
        deviate not-supported;
    }
    deviation /oc-platform:components/oc-platform:component/oc-platform:chassis {
        deviate not-supported;
    }
    deviation /oc-platform:components/oc-platform:component/oc-platform:fabric {
        deviate not-supported;
    }
    deviation /oc-platform:components/oc-platform:component/oc-platform:integrated-circuit
    {
        deviate not-supported;
    }
    deviation /oc-platform:components/oc-platform:component/oc-platform:storage {
        deviate not-supported;
    }
}

```

QoS Module Support

The Extreme 9920 software with the NPB application supports `openconfig-qos.yang`, v0.5.0, with the following deviations.

```

module extreme-openconfig-qos-deviations {

    namespace
        "http://extremenetworks.com/yang/openconfig-qos-deviations";

    prefix "extr-oc-qos-dev";

    import openconfig-qos { prefix "oc-qos"; }

    organization "Extreme Networks, Inc.";

    contact
        "Extreme Networks, Inc.
        www.extremenetworks.com";
}

```

```
description
    "This module describes the deviations from openconfig-qos v0.5.0";

revision "2021-10-29" {
    description
        "Initial version.";
    reference "1.0.0";
}

deviation /oc-qos:qos/oc-qos:interfaces/oc-qos:interface/oc-qos:interface-ref {
    deviate not-supported;
}

deviation /oc-qos:qos/oc-qos:interfaces/oc-qos:interface/oc-qos:input {
    deviate not-supported;
}

deviation /oc-qos:qos/oc-qos:interfaces/oc-qos:interface/oc-qos:output/oc-qos:config {
    deviate not-supported;
}

deviation /oc-qos:qos/oc-qos:interfaces/oc-qos:interface/oc-qos:output/oc-qos:state {
    deviate not-supported;
}

deviation /oc-qos:qos/oc-qos:interfaces/oc-qos:interface/oc-qos:output/oc-
qos:interface-ref {
    deviate not-supported;
}

deviation /oc-qos:qos/oc-qos:interfaces/oc-qos:interface/oc-qos:output/oc-
qos:classifiers {
    deviate not-supported;
}

deviation /oc-qos:qos/oc-qos:interfaces/oc-qos:interface/oc-qos:output/oc-qos:queues/
oc-qos:queue/oc-qos:config/oc-qos:queue-management-profile {
    deviate not-supported;
}

deviation /oc-qos:qos/oc-qos:interfaces/oc-qos:interface/oc-qos:output/oc-qos:queues/
oc-qos:queue/oc-qos:state/oc-qos:queue-management-profile {
    deviate not-supported;
}

deviation /oc-qos:qos/oc-qos:interfaces/oc-qos:interface/oc-qos:output/oc-qos:queues/
oc-qos:queue/oc-qos:state/oc-qos:max-queue-len {
    deviate not-supported;
}

deviation /oc-qos:qos/oc-qos:interfaces/oc-qos:interface/oc-qos:output/oc-qos:queues/
oc-qos:queue/oc-qos:state/oc-qos:avg-queue-len {
    deviate not-supported;
}

deviation /oc-qos:qos/oc-qos:interfaces/oc-qos:interface/oc-qos:output/oc-
qos:scheduler-policy {
    deviate not-supported;
}

deviation /oc-qos:qos/oc-qos:classifiers {
    deviate not-supported;
}
```

```

    deviation /oc-qos:qos/oc-qos:forwarding-groups/oc-qos:forwarding-group/oc-qos:config/
oc-qos:fabric-priority {
        deviate not-supported;
    }

    deviation /oc-qos:qos/oc-qos:forwarding-groups/oc-qos:forwarding-group/oc-qos:config/
oc-qos:unicast-output-queue {
        deviate not-supported;
    }

    deviation /oc-qos:qos/oc-qos:forwarding-groups/oc-qos:forwarding-group/oc-qos:config/
oc-qos:multicast-output-queue {
        deviate not-supported;
    }

    deviation /oc-qos:qos/oc-qos:forwarding-groups/oc-qos:forwarding-group/oc-qos:state/
oc-qos:fabric-priority {
        deviate not-supported;
    }

    deviation /oc-qos:qos/oc-qos:forwarding-groups/oc-qos:forwarding-group/oc-qos:state/
oc-qos:unicast-output-queue {
        deviate not-supported;
    }

    deviation /oc-qos:qos/oc-qos:forwarding-groups/oc-qos:forwarding-group/oc-qos:state/
oc-qos:multicast-output-queue {
        deviate not-supported;
    }

    deviation /oc-qos:qos/oc-qos:scheduler-policies {
        deviate not-supported;
    }

    deviation /oc-qos:qos/oc-qos:buffer-allocation-profiles {
        deviate not-supported;
    }

    deviation /oc-qos:qos/oc-qos:queue-management-profiles {
        deviate not-supported;
    }
}

```

System Module Support

The Extreme 9920 software with the NPB application supports `openconfig-system.yang`, v0.5.0, with the following deviations.

```

module extreme-openconfig-system-deviations {

    namespace
        "http://extremenetworks.com/yang/openconfig-system-deviations";

    prefix "extr-oc-sys-dev";

    import openconfig-system { prefix "oc-sys"; }

    organization "Extreme Networks, Inc.";

    contact
        "Extreme Networks, Inc.
        www.extremenetworks.com";
}

```

```

description
    "This module describes the deviations from openconfig-system v0.5.0";

revision "2021-06-04" {
    description
        "Initial version.";
    reference "1.0.0";
}

deviation /oc-sys:system/oc-sys:alarms {
    deviate not-supported;
}
deviation /oc-sys:system/oc-sys:cpus {
    deviate not-supported;
}
deviation /oc-sys:system/oc-sys:memory {
    deviate not-supported;
}
deviation /oc-sys:system/oc-sys:processes {
    deviate not-supported;
}
deviation /oc-sys:system/oc-sys:dns/oc-sys:host-entries {
    deviate not-supported;
}
deviation /oc-sys:system/oc-sys:logging/oc-sys:console {
    deviate not-supported;
}
deviation /oc-sys:system/oc-sys:logging/oc-sys:remote-servers/oc-sys:remote-server/oc-
sys:selectors {
    deviate not-supported;
}
deviation /oc-sys:system/oc-sys:aaa/oc-sys:config {
    deviate not-supported;
}
deviation /oc-sys:system/oc-sys:aaa/oc-sys:state {
    deviate not-supported;
}
deviation /oc-sys:system/oc-sys:aaa/oc-sys:authentication/oc-sys:admin-user {
    deviate not-supported;
}
deviation /oc-sys:system/oc-sys:aaa/oc-sys:authentication/oc-sys:users/oc-sys:user/oc-
sys:config/oc-sys:ssh-key {
    deviate not-supported;
}
deviation /oc-sys:system/oc-sys:aaa/oc-sys:authentication/oc-sys:users/oc-sys:user/oc-
sys:state/oc-sys:ssh-key {
    deviate not-supported;
}
deviation /oc-sys:system/oc-sys:aaa/oc-sys:authorization {
    deviate not-supported;
}
deviation /oc-sys:system/oc-sys:aaa/oc-sys:server-groups/oc-sys:server-group/oc-
sys:servers/oc-sys:server/oc-sys:config/oc-sys:timeout{
    deviate not-supported;
}
deviation /oc-sys:system/oc-sys:aaa/oc-sys:server-groups/oc-sys:server-group/oc-
sys:servers/oc-sys:server/oc-sys:state/oc-sys:timeout{
    deviate not-supported;
}
deviation /oc-sys:system/oc-sys:aaa/oc-sys:server-groups/oc-sys:server-group/oc-
sys:servers/oc-sys:server/oc-sys:state/oc-sys:connection-opens{
    deviate not-supported;
}

```

```

    deviation /oc-sys:system/oc-sys:aaa/oc-sys:server-groups/oc-sys:server-group/oc-
    sys:servers/oc-sys:server/oc-sys:state/oc-sys:connection-closes{
        deviate not-supported;
    }
    deviation /oc-sys:system/oc-sys:aaa/oc-sys:server-groups/oc-sys:server-group/oc-
    sys:servers/oc-sys:server/oc-sys:state/oc-sys:connection-aborts{
        deviate not-supported;
    }
    deviation /oc-sys:system/oc-sys:aaa/oc-sys:server-groups/oc-sys:server-group/oc-
    sys:servers/oc-sys:server/oc-sys:state/oc-sys:connection-failures{
        deviate not-supported;
    }
    deviation /oc-sys:system/oc-sys:aaa/oc-sys:server-groups/oc-sys:server-group/oc-
    sys:servers/oc-sys:server/oc-sys:state/oc-sys:connection-timeouts{
        deviate not-supported;
    }
    deviation /oc-sys:system/oc-sys:aaa/oc-sys:server-groups/oc-sys:server-group/oc-
    sys:servers/oc-sys:server/oc-sys:state/oc-sys:messages-sent{
        deviate not-supported;
    }
    deviation /oc-sys:system/oc-sys:aaa/oc-sys:server-groups/oc-sys:server-group/oc-
    sys:servers/oc-sys:server/oc-sys:state/oc-sys:messages-received{
        deviate not-supported;
    }
    deviation /oc-sys:system/oc-sys:aaa/oc-sys:server-groups/oc-sys:server-group/oc-
    sys:servers/oc-sys:server/oc-sys:state/oc-sys:errors-received{
        deviate not-supported;
    }
    deviation /oc-sys:system/oc-sys:aaa/oc-sys:server-groups/oc-sys:server-group/oc-
    sys:servers/oc-sys:server/oc-sys:tacacs/oc-sys:config/oc-sys:source-address{
        deviate not-supported;
    }
    deviation /oc-sys:system/oc-sys:aaa/oc-sys:server-groups/oc-sys:server-group/oc-
    sys:servers/oc-sys:server/oc-sys:tacacs/oc-sys:state/oc-sys:source-address{
        deviate not-supported;
    }
    deviation /oc-sys:system/oc-sys:aaa/oc-sys:server-groups/oc-sys:server-group/oc-
    sys:servers/oc-sys:server/oc-sys:tacacs/oc-sys:config/oc-sys:port{
        deviate not-supported;
    }
    deviation /oc-sys:system/oc-sys:aaa/oc-sys:server-groups/oc-sys:server-group/oc-
    sys:servers/oc-sys:server/oc-sys:tacacs/oc-sys:state/oc-sys:port{
        deviate not-supported;
    }
    deviation /oc-sys:system/oc-sys:aaa/oc-sys:server-groups/oc-sys:server-group/oc-
    sys:servers/oc-sys:server/oc-sys:radius{
        deviate not-supported;
    }
    deviation /oc-sys:system/oc-sys:ssh-server{
        deviate not-supported;
    }
    deviation /oc-sys:system/oc-sys:telnet-server{
        deviate not-supported;
    }
    deviation /oc-sys:system/oc-sys:ntp/oc-sys:state/oc-sys:auth-mismatch{
        deviate not-supported;
    }
    deviation /oc-sys:system/oc-sys:ntp/oc-sys:servers/oc-sys:server/oc-sys:state/oc-
    sys:stratum{
        deviate not-supported;
    }
    deviation /oc-sys:system/oc-sys:ntp/oc-sys:servers/oc-sys:server/oc-sys:state/oc-
    sys:root-delay{
        deviate not-supported;
    }

```



```
    }
    deviation /oc-sys:system/oc-sys:ntp/oc-sys:servers/oc-sys:server/oc-sys:state/oc-
sys:root-dispersion{
        deviate not-supported;
    }
    deviation /oc-sys:system/oc-sys:ntp/oc-sys:servers/oc-sys:server/oc-sys:state/oc-
sys:offset{
        deviate not-supported;
    }
    deviation /oc-sys:system/oc-sys:ntp/oc-sys:servers/oc-sys:server/oc-sys:state/oc-
sys:poll-interval{
        deviate not-supported;
    }
}
```



Extreme YANG Tree

The Extreme YANG tree describes the module attributes that are supported by the Extreme 9920 software with the NPB application.

```
module: extreme-lacp-ext

  augment /oc-if:interfaces/oc-if:interface/oc-lag:aggregation/oc-lag:config:
    +--rw max-bundle?  uint16
  augment /oc-if:interfaces/oc-if:interface/oc-lag:aggregation/oc-lag:state:
    +--ro max-bundle?  uint16
  augment /oc-if:interfaces/oc-if:interface/oc-eth:ethernet/oc-eth:config:
    +--rw port-priority?  uint16
    +--rw interval?      oc-lacp:lacp-period-type
    +--rw lacp-mode?     oc-lacp:lacp-activity-type
  augment /oc-if:interfaces/oc-if:interface/oc-eth:ethernet/oc-eth:state:
    +--ro port-priority?  uint16
    +--ro interval?     oc-lacp:lacp-period-type
    +--ro lacp-mode?    oc-lacp:lacp-activity-type

module: extreme-acl-ext

  augment /oc-acl:acl:
    +--rw rbid-maps
      +--rw rbid-map* [rbid]
        +--rw rbid      -> ../config/rbid
        +--rw config
          | +--rw rbid?  uint64
          +--ro state
            +--ro rbid?          uint64
            +--ro acl-type?     -> /oc-acl:acl/acl-sets/acl-set/type
            +--ro acl-name?     -> /oc-acl:acl/acl-sets/acl-set/name
            +--ro acl-direction? direction-enum
            +--ro acl-seq-id?   -> /oc-acl:acl/acl-sets/acl-set/acl-entries/
acl-entry/sequence-id
            +--ro feature-name?  string
            +--ro feature-type?  feature-type-enum
            +--ro feature-seq-id? uint16
            +--ro service-intf-index? uint32
            +--ro attachment-point-type? attachment-point-type-enum
  augment /oc-acl:acl/oc-acl:config:
    +--rw count?  boolean
  augment /oc-acl:acl/oc-acl:state:
    +--ro count?  boolean
  augment /oc-acl:acl/oc-acl:acl-sets/oc-acl:acl-set/oc-acl:acl-entries/oc-acl:acl-
entry/oc-acl:actions/oc-acl:config:
    +--rw count?  boolean
  augment /oc-acl:acl/oc-acl:acl-sets/oc-acl:acl-set/oc-acl:acl-entries/oc-acl:acl-
entry/oc-acl:actions/oc-acl:state:
    +--ro count?  boolean
  augment /oc-acl:acl/oc-acl:acl-sets/oc-acl:acl-set/oc-acl:acl-entries/oc-acl:acl-
entry/oc-acl:actions/oc-acl:config:
    +--rw qos-forwarding-group?  qos-forwarding-group-name-ref
  augment /oc-acl:acl/oc-acl:acl-sets/oc-acl:acl-set/oc-acl:acl-entries/oc-acl:acl-
```

```

entry/oc-acl:actions/oc-acl:state:
  +--ro qos-forwarding-group?   qos-forwarding-group-name-ref

module: extreme-acl-ipv4-ext

augment /oc-acl:acl/oc-acl:acl-sets/oc-acl:acl-set/oc-acl:acl-entries/oc-acl:acl-entry:
  +--rw npb-acl-ipv4
    +--rw config
      | +--rw source-ipv4?           oc-inet:ipv4-address
      | +--rw source-ipv4-mask?     oc-inet:ipv4-address
      | +--rw destination-ipv4?     oc-inet:ipv4-address
      | +--rw destination-ipv4-mask? oc-inet:ipv4-address
      | +--rw dscp?                 oc-inet:dscp
      | +--rw protocol?            oc-pkt-match-types:ip-protocol-type
      | +--rw vlan-tag?            uint16
      | +--rw network-id-type?     identityref
      | +--rw network-id?          uint32
      | +--rw length?              uint16
      | +--rw length-end?          uint16
      | +--rw source-port?         oc-pkt-match-types:port-num-range
      | +--rw destination-port?    oc-pkt-match-types:port-num-range
      | +--rw tcp-flags*           identityref
      | +--rw dont-fragment?       boolean
      | +--rw more-fragment?       boolean
      | +--rw icmp-type?           uint8
      | +--rw icmp-code?           uint8
      | +--rw igmp-type?           uint8
      | +--rw igmp-group?          uint32
      | +--rw esp-spi?             uint32
    +--ro state
      +--ro source-ipv4?           oc-inet:ipv4-address
      +--ro source-ipv4-mask?     oc-inet:ipv4-address
      +--ro destination-ipv4?     oc-inet:ipv4-address
      +--ro destination-ipv4-mask? oc-inet:ipv4-address
      +--ro dscp?                 oc-inet:dscp
      +--ro protocol?            oc-pkt-match-types:ip-protocol-type
      +--ro vlan-tag?            uint16
      +--ro network-id-type?     identityref
      +--ro network-id?          uint32
      +--ro length?              uint16
      +--ro length-end?          uint16
      +--ro source-port?         oc-pkt-match-types:port-num-range
      +--ro destination-port?    oc-pkt-match-types:port-num-range
      +--ro tcp-flags*           identityref
      +--ro dont-fragment?       boolean
      +--ro more-fragment?       boolean
      +--ro icmp-type?           uint8
      +--ro icmp-code?           uint8
      +--ro igmp-type?           uint8
      +--ro igmp-group?          uint32
      +--ro esp-spi?             uint32

module: extreme-acl-ipv6-ext

augment /oc-acl:acl/oc-acl:acl-sets/oc-acl:acl-set/oc-acl:acl-entries/oc-acl:acl-entry:
  +--rw npb-acl-ipv6
    +--rw config
      | +--rw source-ipv6?           oc-inet:ipv6-address
      | +--rw source-ipv6-mask?     oc-inet:ipv6-address
      | +--rw destination-ipv6?     oc-inet:ipv6-address
      | +--rw destination-ipv6-mask? oc-inet:ipv6-address
      | +--rw dscp?                 oc-inet:dscp
      | +--rw protocol?            oc-pkt-match-types:ip-protocol-type
      | +--rw vlan-tag?            uint16

```

```

| +--rw network-id-type?      identityref
| +--rw network-id?          uint32
| +--rw length?              uint16
| +--rw length-end?          uint16
| +--rw source-port?         oc-pkt-match-types:port-num-range
| +--rw destination-port?    oc-pkt-match-types:port-num-range
| +--rw tcp-flags*           identityref
| +--rw icmp-type?           uint8
| +--rw icmp-code?           uint8
| +--rw igmp-type?           uint8
| +--rw igmp-group?          uint32
| +--rw esp-spi?             uint32
+--ro state
  +--ro source-ipv6?          oc-inet:ipv6-address
  +--ro source-ipv6-mask?     oc-inet:ipv6-address
  +--ro destination-ipv6?     oc-inet:ipv6-address
  +--ro destination-ipv6-mask? oc-inet:ipv6-address
  +--ro dscp?                 oc-inet:dscp
  +--ro protocol?            oc-pkt-match-types:ip-protocol-type
  +--ro vlan-tag?            uint16
  +--ro network-id-type?     identityref
  +--ro network-id?          uint32
  +--ro length?              uint16
  +--ro length-end?          uint16
  +--ro source-port?         oc-pkt-match-types:port-num-range
  +--ro destination-port?    oc-pkt-match-types:port-num-range
  +--ro tcp-flags*           identityref
  +--ro icmp-type?           uint8
  +--ro icmp-code?           uint8
  +--ro igmp-type?           uint8
  +--ro igmp-group?          uint32
  +--ro esp-spi?             uint32

module: extreme-acl-mac-ext

augment /oc-acl:acl/oc-acl:acl-sets/oc-acl:acl-set/oc-acl:acl-entries/oc-acl:acl-entry:
  +--rw npb-acl-mac
    +--rw config
      | +--rw source-mac?      oc-yang:mac-address
      | +--rw source-mac-mask? oc-yang:mac-address
      | +--rw destination-mac? oc-yang:mac-address
      | +--rw destination-mac-mask? oc-yang:mac-address
      | +--rw pcp?            uint8
      | +--rw ethertype?      oc-pkt-match-types:ethertype-type
      | +--rw network-id-type? identityref
      | +--rw network-id?     uint32
      | +--rw length?         uint16
      | +--rw vlan-tag?       uint16
    +--ro state
      +--ro source-mac?      oc-yang:mac-address
      +--ro source-mac-mask? oc-yang:mac-address
      +--ro destination-mac? oc-yang:mac-address
      +--ro destination-mac-mask? oc-yang:mac-address
      +--ro pcp?            uint8
      +--ro ethertype?      oc-pkt-match-types:ethertype-type
      +--ro network-id-type? identityref
      +--ro network-id?     uint32
      +--ro length?         uint16
      +--ro vlan-tag?       uint16

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

augment /oc-if:interfaces/oc-if:interface:
+--rw mirrors
+--rw mirror* [name direction]
+--rw name          string
+--rw direction     identityref
+--rw config
| +--rw name?       string
| +--rw direction?  identityref
+--rw state
+--rw name?         string
+--rw direction?   identityref

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

```

```

    +--rw vni-domain* [name]
      +--rw name      -> ../config/name
      +--rw config
        | +--rw name?          string
        | +--rw auto-offset?   uint32
      +--ro state
        +--ro name?           string
        +--ro auto-offset?    uint32

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

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

module: extreme-pcap
+--ro pcap
+--ro files
+--ro file* [name]

```

```

    +--ro name      -> ../state/name
    +--ro state
      +--ro name?          string
      +--ro last-modified-time?  oc-types:timeticks64
      +--ro size?          uint32
      +--ro packet-count?     uint32

module: extreme-tunnel-encap
+--rw tunnel-encaps
  +--rw tunnel-encap* [name]
    +--rw name      -> ../config/name
    +--rw config
      | +--rw name?          string
      | +--rw description?  string
      | +--rw source-ipv4-addr?  oc-inet:ipv4-address
      | +--rw source-ipv6-addr?  oc-inet:ipv6-address
      | +--rw destination-ipv4-addr?  oc-inet:ipv4-address
      | +--rw destination-ipv6-addr?  oc-inet:ipv6-address
      | +--rw source-mac-addr?  oc-yang:mac-address
      | +--rw destination-mac-addr?  oc-yang:mac-address
      | +--rw tunnel-type?      common-types:egress-encap-type
      | +--rw tunnel-id?        uint32
      | +--rw vlan-tag?         uint16
      | +--rw vlan-pcp?         uint8
    +--ro state
      +--ro name?          string
      +--ro description?  string
      +--ro source-ipv4-addr?  oc-inet:ipv4-address
      +--ro source-ipv6-addr?  oc-inet:ipv6-address
      +--ro destination-ipv4-addr?  oc-inet:ipv4-address
      +--ro destination-ipv6-addr?  oc-inet:ipv6-address
      +--ro source-mac-addr?  oc-yang:mac-address
      +--ro destination-mac-addr?  oc-yang:mac-address
      +--ro tunnel-type?      common-types:egress-encap-type
      +--ro tunnel-id?        uint32
      +--ro vlan-tag?         uint16
      +--ro vlan-pcp?         uint8
      +--ro counter* [port-id]
        +--ro port-id      uint32
        +--ro pkt-count?   uint64
        +--ro octet-count? uint64

module: extreme-egress-group
+--rw egress-groups
  +--rw egress-group* [name]
    +--rw name      -> ../config/name
    +--rw config
      | +--rw name?          string
      | +--rw description?  string
    +--ro state
      | +--ro name?          string
      | +--ro description?  string
      | +--ro packet-count?  uint64
      | +--ro byte-count?    uint64
    +--rw egress-objects
      +--rw egress-object* [name]
        +--rw name      -> ../config/name
        +--rw config
          | +--rw name?  extreme-egress:egress-ref
        +--ro state
          +--ro name?  extreme-egress:egress-ref

module: extreme-egress
+--rw egress-objects

```



```

+--rw egress-object* [name]
  +--rw name          -> ../config/name
  +--rw config
    | +--rw name?          string
    | +--rw listener-policy? listener-policy:listener-policy-ref
    | +--rw encap?        tunnel-encap:tunnel-encap-ref
    | +--rw description?  string
  +--ro state
    | +--ro name?          string
    | +--ro listener-policy? listener-policy:listener-policy-ref
    | +--ro encap?        tunnel-encap:tunnel-encap-ref
    | +--ro description?  string
    | +--ro packet-count? uint64
    | +--ro byte-count?   uint64
  +--rw interfaces
    +--rw interface* [precedence]
      +--rw precedence -> ../config/precedence
      +--rw config
        | +--rw precedence? uint16
        | +--rw interface?  string
      +--ro state
        +--ro precedence? uint16
        +--ro interface?  string

module: extreme-ingress-group
+--rw ingress-groups
  +--rw ingress-group* [name]
    +--rw name          -> ../config/name
    +--rw config
      | +--rw name?          string
      | +--rw bind-policy?   routemap:route-map-ref
      | +--rw description?  string
    +--ro state
      | +--ro name?          string
      | +--ro bind-policy?   routemap:route-map-ref
      | +--ro description?  string
      | +--ro packet-count? uint64
      | +--ro byte-count?   uint64
      | +--ro outer-tunnel-packet-count? uint64
      | +--ro outer-tunnel-byte-count?  uint64
    +--rw tunnels
      +--rw tunnel* [traffic-type]
        | +--rw traffic-type -> ../config/traffic-type
        | +--rw config
          | | +--rw traffic-type? common-types:sap-trfc-type
          | | +--rw tunnel-id?   uint32
          | | +--rw source-ip-addr? oc-inet:ip-address
          | | +--rw source-ip-mask? oc-inet:ip-address
          | | +--rw destination-ip-addr? oc-inet:ip-address
          | | +--rw destination-ip-mask? oc-inet:ip-address
          | | +--rw protocol?    oc-pkt-match-types:ip-protocol-type
          | | +--rw source-port?  oc-inet:port-number
          | | +--rw destination-port? oc-inet:port-number
          | | +--rw scope?        boolean
          | | +--rw decap?        boolean
          | +--ro state
            | +--ro traffic-type? common-types:sap-trfc-type
            | +--ro tunnel-id?   uint32
            | +--ro source-ip-addr? oc-inet:ip-address
            | +--ro source-ip-mask? oc-inet:ip-address
            | +--ro destination-ip-addr? oc-inet:ip-address
            | +--ro destination-ip-mask? oc-inet:ip-address
            | +--ro protocol?    oc-pkt-match-types:ip-protocol-type
            | +--ro source-port?  oc-inet:port-number

```

```

|     +--ro destination-port?      oc-inet:port-number
|     +--ro scope?                 boolean
|     +--ro decap?                 boolean
+--rw outer-tunnel* [traffic-type]
  +--rw traffic-type   -> ../config/traffic-type
  +--rw config
    | +--rw traffic-type?          common-types:sap-trfc-type
    | +--rw tunnel-id?            uint32
    | +--rw source-ip-addr?       oc-inet:ip-address
    | +--rw source-ip-mask?       oc-inet:ip-address
    | +--rw destination-ip-addr?  oc-inet:ip-address
    | +--rw destination-ip-mask?  oc-inet:ip-address
    | +--rw protocol?             oc-pkt-match-types:ip-protocol-type
    | +--rw source-port?          oc-inet:port-number
    | +--rw destination-port?     oc-inet:port-number
    | +--rw mpls-header* [position]
    | | +--rw position            uint8
    | | +--rw label?              uint32
    | | +--rw traffic-class?      uint8
    | | +--rw time-to-live?       uint8
    | +--rw mirror?               mirror:mirror-ref
+--ro state
  +--ro traffic-type?            common-types:sap-trfc-type
  +--ro tunnel-id?              uint32
  +--ro source-ip-addr?         oc-inet:ip-address
  +--ro source-ip-mask?         oc-inet:ip-address
  +--ro destination-ip-addr?    oc-inet:ip-address
  +--ro destination-ip-mask?    oc-inet:ip-address
  +--ro protocol?               oc-pkt-match-types:ip-protocol-type
  +--ro source-port?            oc-inet:port-number
  +--ro destination-port?       oc-inet:port-number
  +--ro mpls-header* [position]
  | +--ro position              uint8
  | +--ro label?                uint32
  | +--ro traffic-class?        uint8
  | +--ro time-to-live?         uint8
  +--ro mirror?                 mirror:mirror-ref

augment /oc-if:interfaces/oc-if:interface/oc-if:config:
  +--rw ingress-groups* [ingress-group]
    +--rw ingress-group         ingress-group-ref

module: extreme-listener-policy
+--rw listener-policies
  +--rw listener-policy* [name]
    +--rw name                  -> ../config/name
    +--rw config
      | +--rw name?             string
    +--ro state
      | +--ro name?             string
  +--rw listener-policy-instances
    +--rw listener-policy-instance* [sequence-id]
      +--rw sequence-id        -> ../config/sequence-id
      +--rw config
        | +--rw sequence-id?     uint32
        | +--rw permit-deny?     boolean
        | +--rw l2acl?           string
        | +--rw ipv4acl?         string
        | +--rw ipv6acl?         string
        | +--rw truncate?        uint16
        | +--rw strip-vn-tag?     boolean
        | +--rw strip-br-tag?    boolean
        | +--rw strip-vlan-tag?  boolean
        | +--rw add-vlan-tag?    uint16

```

```

    | +--rw terminate?          boolean
    | +--rw terminate-outer?   boolean
    | +--rw terminate-inner?   boolean
    | +--rw description?       string
+--rw state
    +--rw sequence-id?         uint32
    +--rw permit-deny?        boolean
    +--rw l2acl?               string
    +--rw ipv4acl?             string
    +--rw ipv6acl?             string
    +--rw truncate?            uint16
    +--rw strip-vn-tag?        boolean
    +--rw strip-br-tag?        boolean
    +--rw strip-vlan-tag?      boolean
    +--rw add-vlan-tag?        uint16
    +--rw terminate?          boolean
    +--rw terminate-outer?    boolean
    +--rw terminate-inner?    boolean
    +--rw description?        string

module: extreme-policy-statistics
+--rw npb-policy-data-sets
  +--rw npb-policy-data-set* [owner]
    +--rw owner                -> ../config/owner
    +--rw config
      | +--rw owner?          identityref
    +--ro state
      | +--ro owner?          identityref
  +--rw policy-stats
    +--rw policy-stat* [sap]
      +--rw sap                -> ../config/sap
      +--rw config
        | +--rw sap?          uint16
        | +--rw sap-name?     string
        | +--rw policy?       string
      +--ro state
        | +--ro sap?          uint16
        | +--ro sap-name?     string
        | +--ro policy?       string
      +--rw ipv4
        | +--rw acl-stats
        |   +--rw acl-stat* [acl-name]
        |     +--rw acl-name   -> ../config/acl-name
        |     +--rw config
        |       | +--rw acl-name? string
        |     +--ro state
        |       | +--ro acl-name?      string
        |       | +--ro acl-stats-entries
        |       |   +--ro acl-stats-entry* [sequence-id]
        |       |     +--ro sequence-id -> ../config/sequence-id
        |       |     +--ro config
        |       |       | +--ro sequence-id? uint32
        |       |     +--ro state
        |       |       | +--ro sequence-id? uint32
        |       |       | +--ro packet-count? uint64
        |       |       | +--ro byte-count?   uint64
        |       |       | +--ro packets-rate? uint64
        |       |       | +--ro bits-rate?    uint64
      +--rw ipv6
        | +--rw acl-stats
        |   +--rw acl-stat* [acl-name]
        |     +--rw acl-name   -> ../config/acl-name
        |     +--rw config
        |       | +--rw acl-name? string

```

```

|         +--ro state
|         |         +--ro acl-name?          string
|         |         +--ro acl-stats-entries
|         |         |         +--ro acl-stats-entry* [sequence-id]
|         |         |         |         +--ro sequence-id  -> ../config/sequence-id
|         |         |         |         +--ro config
|         |         |         |         |         +--ro sequence-id?  uint32
|         |         |         |         +--ro state
|         |         |         |         |         +--ro sequence-id?    uint32
|         |         |         |         |         +--ro packet-count?  uint64
|         |         |         |         |         +--ro byte-count?    uint64
|         |         |         |         |         +--ro packets-rate?  uint64
|         |         |         |         |         +--ro bits-rate?    uint64
+--rw mac
  +--rw acl-stats
    +--rw acl-stat* [acl-name]
      +--rw acl-name  -> ../config/acl-name
      +--rw config
      | +--rw acl-name?  string
      +--ro state
      | +--ro acl-name?          string
      | +--ro acl-stats-entries
      | |         +--ro acl-stats-entry* [sequence-id]
      | |         |         +--ro sequence-id  -> ../config/sequence-id
      | |         |         +--ro config
      | |         |         |         +--ro sequence-id?  uint32
      | |         |         +--ro state
      | |         |         |         +--ro sequence-id?    uint32
      | |         |         |         +--ro packet-count?  uint64
      | |         |         |         +--ro byte-count?    uint64
      | |         |         |         +--ro packets-rate?  uint64
      | |         |         |         +--ro bits-rate?    uint64
module: extreme-routemap
+--rw routemaps
  +--rw routemap* [name]
    +--rw name          -> ../config/name
    +--rw config
    | +--rw name?      string
    +--ro state
    | +--ro name?      string
    +--rw routemap-instances
      +--rw routemap-instance* [sequence-id]
        +--rw sequence-id  -> ../config/sequence-id
        +--rw config
        | +--rw sequence-id?    uint32
        | +--rw permit-deny?    boolean
        | +--rw l2-acl?         string
        | +--rw ipv4-acl?       string
        | +--rw ipv6-acl?       string
        | +--rw egress-group?   eg-group:egress-group-ref
        | +--rw sfc-id?         uint32
        | +--rw description?    string
        | +--rw truncation-length?  uint16
        | +--rw terminate?      boolean
        | +--rw scope-shift?    boolean
        | +--rw qos-forwarding-group?  qos-forwarding-group-name-ref
        +--ro state
          +--ro sequence-id?    uint32
          +--ro permit-deny?    boolean
          +--ro l2-acl?         string
          +--ro ipv4-acl?       string
          +--ro ipv6-acl?       string
          +--ro egress-group?   eg-group:egress-group-ref

```

```

        +--ro sfc-id?                uint32
        +--ro description?           string
        +--ro truncation-length?     uint16
        +--ro terminate?             boolean
        +--ro scope-shift?           boolean
        +--ro qos-forwarding-group?  qos-forwarding-group-name-ref

module: extreme-saps
+--rw saps
  +--rw sap* [name]
    +--rw name                       -> ../config/name
    +--rw config
      | +--rw name?                  string
      | +--rw id                    uint32
      | +--rw traffic-type?         common-types:sap-trfc-type
      | +--rw parent-saps* [parent-sap]
      |   +--rw parent-sap         base-sap-ref
    +--ro state
      | +--ro name?                  string
      | +--ro id                    uint32
      | +--ro traffic-type?         common-types:sap-trfc-type
      | +--ro parent-saps* [parent-sap]
      |   +--ro parent-sap         base-sap-ref
    +--rw port-sap
      | +--rw config
      | | +--rw port-names* [port-name]
      | | | +--rw port-name         string
      | | | +--rw port-ids* [port-id]
      | | | | +--rw port-id         uint16
      | | | +--rw sfp-path-id?      uint16
      | | | +--rw sfp-path-index?   uint8
      | | +--ro state
      | | | +--ro port-names* [port-name]
      | | | | +--ro port-name       string
      | | | +--ro port-ids* [port-id]
      | | | | +--ro port-id         uint16
      | | | +--ro sfp-path-id?      uint16
      | | | +--ro sfp-path-index?   uint8
    +--rw vxlan-sap
      | +--rw config
      | | +--rw vni?                 uint32
      | | +--rw scope?               boolean
      | | +--rw terminate?           boolean
      | | +--rw source-ip-addr?      oc-inet:ip-address
      | | +--rw source-ip-mask?      oc-inet:ip-address
      | | +--rw destination-ip-addr? oc-inet:ip-address
      | | +--rw destination-ip-mask? oc-inet:ip-address
      | | +--rw protocol?            oc-pkt-match-types:ip-protocol-type
      | | +--rw source-port?         oc-inet:port-number
      | | +--rw destination-port?    oc-inet:port-number
      | +--ro state
      | | +--ro vni?                 uint32
      | | +--ro scope?               boolean
      | | +--ro terminate?           boolean
      | | +--ro source-ip-addr?      oc-inet:ip-address
      | | +--ro source-ip-mask?      oc-inet:ip-address
      | | +--ro destination-ip-addr? oc-inet:ip-address
      | | +--ro destination-ip-mask? oc-inet:ip-address
      | | +--ro protocol?            oc-pkt-match-types:ip-protocol-type
      | | +--ro source-port?         oc-inet:port-number
      | | +--ro destination-port?    oc-inet:port-number
      | | +--ro out-tunnel-hit-pkt-count? uint64
      | | +--ro out-tunnel-hit-octet-count? uint64
    +--rw nvgre-sap

```

```

| +--rw config
| | +--rw vsid?                uint32
| | +--rw scope?              boolean
| | +--rw terminate?          boolean
| | +--rw source-ip-addr?     oc-inet:ip-address
| | +--rw source-ip-mask?     oc-inet:ip-address
| | +--rw destination-ip-addr? oc-inet:ip-address
| | +--rw destination-ip-mask? oc-inet:ip-address
| | +--rw protocol?           oc-pkt-match-types:ip-protocol-type
| | +--rw source-port?        oc-inet:port-number
| | +--rw destination-port?   oc-inet:port-number
| +--ro state
| | +--ro vsid?                uint32
| | +--ro scope?              boolean
| | +--ro terminate?          boolean
| | +--ro source-ip-addr?     oc-inet:ip-address
| | +--ro source-ip-mask?     oc-inet:ip-address
| | +--ro destination-ip-addr? oc-inet:ip-address
| | +--ro destination-ip-mask? oc-inet:ip-address
| | +--ro protocol?           oc-pkt-match-types:ip-protocol-type
| | +--ro source-port?        oc-inet:port-number
| | +--ro destination-port?   oc-inet:port-number
| | +--ro out-tunnel-hit-pkt-count? uint64
| | +--ro out-tunnel-hit-octet-count? uint64
+--rw ipgre-sap
| +--rw config
| | +--rw scope?              boolean
| | +--rw terminate?          boolean
| | +--rw source-ip-addr?     oc-inet:ip-address
| | +--rw source-ip-mask?     oc-inet:ip-address
| | +--rw destination-ip-addr? oc-inet:ip-address
| | +--rw destination-ip-mask? oc-inet:ip-address
| | +--rw protocol?           oc-pkt-match-types:ip-protocol-type
| | +--rw source-port?        oc-inet:port-number
| | +--rw destination-port?   oc-inet:port-number
| +--ro state
| | +--ro scope?              boolean
| | +--ro terminate?          boolean
| | +--ro source-ip-addr?     oc-inet:ip-address
| | +--ro source-ip-mask?     oc-inet:ip-address
| | +--ro destination-ip-addr? oc-inet:ip-address
| | +--ro destination-ip-mask? oc-inet:ip-address
| | +--ro protocol?           oc-pkt-match-types:ip-protocol-type
| | +--ro source-port?        oc-inet:port-number
| | +--ro destination-port?   oc-inet:port-number
| | +--ro out-tunnel-hit-pkt-count? uint64
| | +--ro out-tunnel-hit-octet-count? uint64
+--rw gtpu-sap
| +--rw config
| | +--rw teid?                uint32
| | +--rw scope?              boolean
| | +--rw terminate?          boolean
| | +--rw source-ip-addr?     oc-inet:ip-address
| | +--rw source-ip-mask?     oc-inet:ip-address
| | +--rw destination-ip-addr? oc-inet:ip-address
| | +--rw destination-ip-mask? oc-inet:ip-address
| | +--rw protocol?           oc-pkt-match-types:ip-protocol-type
| | +--rw source-port?        oc-inet:port-number
| | +--rw destination-port?   oc-inet:port-number
| +--ro state
| | +--ro teid?                uint32
| | +--ro scope?              boolean
| | +--ro terminate?          boolean
| | +--ro source-ip-addr?     oc-inet:ip-address

```

```

|     +--ro source-ip-mask?           oc-inet:ip-address
|     +--ro destination-ip-addr?     oc-inet:ip-address
|     +--ro destination-ip-mask?     oc-inet:ip-address
|     +--ro protocol?                oc-pkt-match-types:ip-protocol-type
|     +--ro source-port?             oc-inet:port-number
|     +--ro destination-port?        oc-inet:port-number
|     +--ro out-tunnel-hit-pkt-count? uint64
|     +--ro out-tunnel-hit-octet-count? uint64
+--rw ipip-sap
|   +--rw config
|   |   +--rw scope?                 boolean
|   |   +--rw terminate?            boolean
|   |   +--rw source-ip-addr?        oc-inet:ip-address
|   |   +--rw source-ip-mask?        oc-inet:ip-address
|   |   +--rw destination-ip-addr?   oc-inet:ip-address
|   |   +--rw destination-ip-mask?   oc-inet:ip-address
|   |   +--rw protocol?              oc-pkt-match-types:ip-protocol-type
|   |   +--rw source-port?           oc-inet:port-number
|   |   +--rw destination-port?      oc-inet:port-number
|   +--ro state
|   |   +--ro scope?                 boolean
|   |   +--ro terminate?            boolean
|   |   +--ro source-ip-addr?        oc-inet:ip-address
|   |   +--ro source-ip-mask?        oc-inet:ip-address
|   |   +--ro destination-ip-addr?   oc-inet:ip-address
|   |   +--ro destination-ip-mask?   oc-inet:ip-address
|   |   +--ro protocol?              oc-pkt-match-types:ip-protocol-type
|   |   +--ro source-port?           oc-inet:port-number
|   |   +--ro destination-port?      oc-inet:port-number
|   |   +--ro out-tunnel-hit-pkt-count? uint64
|   |   +--ro out-tunnel-hit-octet-count? uint64
+--rw intermediate-sap
|   +--rw config
|   |   +--rw source-ip-addr?        oc-inet:ip-address
|   |   +--rw source-ip-mask?        oc-inet:ip-address
|   |   +--rw destination-ip-addr?   oc-inet:ip-address
|   |   +--rw destination-ip-mask?   oc-inet:ip-address
|   |   +--rw protocol?              oc-pkt-match-types:ip-protocol-type
|   |   +--rw source-port?           oc-inet:port-number
|   |   +--rw destination-port?      oc-inet:port-number
|   |   +--rw mpls-header* [position]
|   |   |   +--rw position           uint8
|   |   |   +--rw label?             uint32
|   |   |   +--rw traffic-class?     uint8
|   |   |   +--rw time-to-live?     uint8
|   |   +--rw tunnel-type?           common-types:sap-trfc-type
|   |   +--rw tunnel-id?             uint32
|   |   +--rw mirror?                mirror:mirror-ref
|   +--ro state
|   |   +--ro source-ip-addr?        oc-inet:ip-address
|   |   +--ro source-ip-mask?        oc-inet:ip-address
|   |   +--ro destination-ip-addr?   oc-inet:ip-address
|   |   +--ro destination-ip-mask?   oc-inet:ip-address
|   |   +--ro protocol?              oc-pkt-match-types:ip-protocol-type
|   |   +--ro source-port?           oc-inet:port-number
|   |   +--ro destination-port?      oc-inet:port-number
|   |   +--ro mpls-header* [position]
|   |   |   +--ro position           uint8
|   |   |   +--ro label?             uint32
|   |   |   +--ro traffic-class?     uint8
|   |   |   +--ro time-to-live?     uint8
|   |   +--ro tunnel-type?           common-types:sap-trfc-type
|   |   +--ro tunnel-id?             uint32
|   |   +--ro mirror?                mirror:mirror-ref

```

```

|     +--ro hit-pkt-count?      uint64
|     +--ro hit-octet-count?   uint64
|     +--ro drop-pkt-count?    uint64
|     +--ro drop-octet-count?  uint64
+--rw network-sap
  +--rw config
  |   +--rw tunnel-type?      common-types:sap-trfc-type
  |   +--rw tunnel-id?       uint32
  +--ro state
  |   +--ro tunnel-type?      common-types:sap-trfc-type
  |   +--ro tunnel-id?       uint32
  |   +--ro hit-pkt-count?    uint64
  |   +--ro hit-octet-count?  uint64

module: extreme-sfcs
+--rw sfcs
  +--rw sfc* [name]
  |   +--rw name              -> ../config/name
  |   +--rw config
  |   |   +--rw name?         string
  |   |   +--rw id?          uint32
  |   |   +--rw sfc-hopcnt?  uint8
  |   +--ro state
  |   |   +--ro name?         string
  |   |   +--ro id?          uint32
  |   |   +--ro sfc-hopcnt?  uint8
  |   |   +--ro packet-count? uint64
  |   |   +--ro byte-count?  uint64
  |   +--rw sf-refs
  |   |   +--rw sf-ref* [sf-name]
  |   |   |   +--rw sf-name   -> ../config/sf-name
  |   |   |   +--rw config
  |   |   |   |   +--rw sf-name?  string
  |   |   |   |   +--rw sfc-hop?  uint8
  |   |   +--ro state
  |   |   |   +--ro sf-name?  string
  |   |   |   +--ro sfc-hop?  uint8
  |   +--rw sf-paths
  |   |   +--rw sf-path* [sf-path-id]
  |   |   |   +--rw sf-path-id   -> ../config/sf-path-id
  |   |   |   +--rw config
  |   |   |   |   +--rw sf-path-id?  uint32
  |   |   +--ro state
  |   |   |   +--ro sf-path-id?  uint32
  |   |   +--rw sf-inst-refs
  |   |   |   +--rw sf-inst-ref* [sf-inst-name]
  |   |   |   |   +--rw sf-inst-name   -> ../config/sf-inst-name
  |   |   |   |   +--rw config
  |   |   |   |   |   +--rw sf-inst-name?  string
  |   |   |   |   |   +--rw hop?          uint8
  |   |   |   |   |   +--rw sf-nexthop?    uint16
  |   |   |   |   |   +--rw sf-egr-lagport-name?  string
  |   |   |   |   |   +--rw sf-egr-lagportid?  uint32
  |   |   |   |   |   +--rw dsap-id?        uint16
  |   |   |   |   |   +--rw encap-name?     string
  |   |   |   |   |   +--rw precedence?    uint16
  |   |   |   +--ro state
  |   |   |   |   +--ro sf-inst-name?  string
  |   |   |   |   +--ro hop?          uint8
  |   |   |   |   +--ro sf-nexthop?    uint16
  |   |   |   |   +--ro sf-egr-lagport-name?  string
  |   |   |   |   +--ro sf-egr-lagportid?  uint32
  |   |   |   |   +--ro dsap-id?        uint16
  |   |   |   |   +--ro encap-name?     string

```



```

|           +--ro precedence?           uint16
+--rw sfc-groups
  +--rw sfc-group* [name]
    +--rw name           -> ../config/name
    +--rw config
      | +--rw name?      string
      | +--rw num-sfc?   uint8
    +--ro state
      | +--ro name?      string
      | +--ro num-sfc?   uint8
    +--rw sfc-refs
      +--rw sfc-ref* [name]
        +--rw name       -> ../config/name
        +--rw config
          | +--rw name?   sfc-ref
        +--ro state
          +--ro name?     sfc-ref

module: extreme-sfs
+--rw sfs
  +--rw sf* [name]
    +--rw name           -> ../config/name
    +--rw config
      | +--rw name?      string
      | +--rw type?      enumeration
    +--ro state
      | +--ro name?      string
      | +--ro type?      enumeration
    +--rw instances
      +--rw instance* [name]
        +--rw name       -> ../config/name
        +--rw config
          | +--rw name?   string
        +--ro state
          | +--ro name?   string
        +--rw basic-sf
          | +--rw config
          | | +--rw name?  string
          | +--ro state
          | | +--ro name?  string
          | +--rw saps
          |   +--rw sap* [name]
          |     +--rw name   -> ../config/name
          |     +--rw config
          |       | +--rw name?      string
          |       | +--rw apply-policy? string
          |       | +--rw sap-ref?   saps:base-sap-ref
          |       +--ro state
          |         +--ro name?      string
          |         +--ro apply-policy? string
          |         +--ro sap-ref?   saps:base-sap-ref
        +--rw tgtproxy-sf
          +--rw config
            | +--rw name?  string
          +--ro state
            | +--ro name?  string
          +--rw dsaps
            +--rw dsap* [name]
              +--rw name   -> ../config/name
              +--rw config
                | +--rw name?      string
                | +--rw id         uint16
                | +--rw apply-policy? string
              +--ro state

```

```

        +--ro name?          string
        +--ro id             uint16
        +--ro apply-policy?  string

module: extreme-transport-tunnel
  +--rw transport-tunnels
    +--rw transport-tunnel* [name]
      +--rw name              -> ../config/name
      +--rw config
        | +--rw name?          string
        | +--rw description?   string
        | +--rw source-ipv4-addr?  oc-inet:ipv4-address
        | +--rw source-ipv4-mask?  oc-inet:ipv4-address
        | +--rw source-ipv6-addr?  oc-inet:ipv6-address
        | +--rw source-ipv6-mask?  oc-inet:ipv6-address
        | +--rw destination-ipv4-addr?  oc-inet:ipv4-address
        | +--rw destination-ipv4-mask?  oc-inet:ipv4-address
        | +--rw destination-ipv6-addr?  oc-inet:ipv6-address
        | +--rw destination-ipv6-mask?  oc-inet:ipv6-address
        | +--rw tunnel-type?       common-types:sap-trfc-type
        | +--rw tunnel-id?         uint32
      +--ro state
        | +--ro name?           string
        | +--ro description?    string
        | +--ro source-ipv4-addr?  oc-inet:ipv4-address
        | +--ro source-ipv4-mask?  oc-inet:ipv4-address
        | +--ro source-ipv6-addr?  oc-inet:ipv6-address
        | +--ro source-ipv6-mask?  oc-inet:ipv6-address
        | +--ro destination-ipv4-addr?  oc-inet:ipv4-address
        | +--ro destination-ipv4-mask?  oc-inet:ipv4-address
        | +--ro destination-ipv6-addr?  oc-inet:ipv6-address
        | +--ro destination-ipv6-mask?  oc-inet:ipv6-address
        | +--ro tunnel-type?       common-types:sap-trfc-type
        | +--ro tunnel-id?         uint32
        | +--ro packet-count?      uint64
        | +--ro byte-count?        uint64
      +--rw ingress-groups
        +--rw ingress-group* [name]
          +--rw name          -> ../config/name
          +--rw config
            | +--rw name?    ig-group:ingress-group-ref
          +--ro state
            +--ro name?    ig-group:ingress-group-ref

module: extreme-ipsec
  +--rw ipsec
    +--rw ike-policies
      | +--rw ike-policy* [name]
      |   +--rw name      -> ../config/name
      |   +--rw config
      |     | +--rw name?    string
      |     | +--rw encryption?  identityref
      |     | +--rw integrity?   identityref
      |     | +--rw dh-group?    identityref
      |     | +--rw version?    ike-version
      |     | +--rw rekeytime?  uint32
      |     +--ro state
      |       +--ro name?      string
      |       +--ro encryption?  identityref
      |       +--ro integrity?   identityref
      |       +--ro dh-group?    identityref
      |       +--ro version?    ike-version
      |       +--ro rekeytime?  uint32
    +--rw sa-policies

```

```

|   +--rw sa-policy* [name]
|     +--rw name      -> ../config/name
|     +--rw config
|       | +--rw name?      string
|       | +--rw encryption? identityref
|       | +--rw integrity? identityref
|       | +--rw dh-group?  identityref
|       | +--rw rekeytime? uint32
|       +--ro state
|         +--ro name?      string
|         +--ro encryption? identityref
|         +--ro integrity? identityref
|         +--ro dh-group?  identityref
|         +--ro rekeytime? uint32
+--rw ipsec-profiles
  +--rw ipsec-profile* [name]
    +--rw name      -> ../config/name
    +--rw config
      | +--rw name?      string
      | +--rw ike-policy? -> /ipsec/ike-policies/ike-policy/config/name
      | +--rw sa-policy?  -> /ipsec/sa-policies/sa-policy/config/name
      | +--rw mode?      ipsec-mode
      | +--rw role?      role-type
      | +--rw shared-key? string
      | +--rw auth-type? auth-method-type
      +--ro state
        +--ro name?      string
        +--ro ike-policy? -> /ipsec/ike-policies/ike-policy/config/name
        +--ro sa-policy?  -> /ipsec/sa-policies/sa-policy/config/name
        +--ro mode?      ipsec-mode
        +--ro role?      role-type
        +--ro shared-key? string
        +--ro auth-type? auth-method-type

module: extreme-ipsec-if-tun-ext

augment /oc-if:interfaces/oc-if:interface/oc-tun:tunnel/oc-tun:config:
  +--rw source-interface?  oc-if:base-interface-ref
  +--rw ipsec
    +--rw ipsec-profile?   extr-ipsec:ipsec-profile-ref
    +--rw local-identity?  string
    +--rw remote-identity? string
    +--rw reassembly?      boolean
  augment /oc-if:interfaces/oc-if:interface/oc-tun:tunnel/oc-tun:state:
    +--ro source-interface?  oc-if:base-interface-ref
    +--ro ipsec
      | +--ro ipsec-profile?   extr-ipsec:ipsec-profile-ref
      | +--ro local-identity?  string
      | +--ro remote-identity? string
      | +--ro reassembly?      boolean
    +--ro ike-sa
      | +--ro ike-state?      ike-state
      | +--ro initiator-spi?  uint64
      | +--ro responder-spi?  uint64
      | +--ro nat-local?      boolean
      | +--ro nat-remote?     boolean
      | +--ro encryption?     identityref
      | +--ro integrity?      identityref
      | +--ro dh-group?       string
      | +--ro uptime?         oc-types:timeticks64
      | +--ro rekey-time?     oc-types:timeticks64
      | +--ro reauth-time?    oc-types:timeticks64
      | +--ro initiator?      boolean
      | +--ro rekey-init?     uint64

```

```

| +--ro rekey-resp?          uint64
| +--ro child-rekey?        uint64
| +--ro invalid?            uint64
| +--ro invalid-spi?        uint64
| +--ro init-in-req?        uint64
| +--ro init-in-resp?       uint64
| +--ro init-out-req?       uint64
| +--ro init-out-resp?     uint64
| +--ro auth-in-req?        uint64
| +--ro auth-in-resp?       uint64
| +--ro auth-out-req?       uint64
| +--ro auth-out-resp?     uint64
| +--ro create-child-in-req? uint64
| +--ro create-child-in-resp? uint64
| +--ro create-child-out-req? uint64
| +--ro create-child-out-resp? uint64
| +--ro info-in-req?        uint64
| +--ro info-in-resp?       uint64
| +--ro info-out-req?       uint64
| +--ro info-out-resp?     uint64
+--ro child-sa
  +--ro sa-state?          sa-state
  +--ro in-sa-spi?         uint64
  +--ro out-sa-spi?        uint64
  +--ro encryption?       identityref
  +--ro integrity?         identityref
  +--ro dh-group?          string
  +--ro uptime?            oc-types:timeticks64
  +--ro rekey-time?        oc-types:timeticks64
  +--ro lifetime?          oc-types:timeticks64

```