



Extreme[®]
networks

9920 v21.2.2.0 YANG Reference Guide

Module Structures, Network Configuration, and
Management

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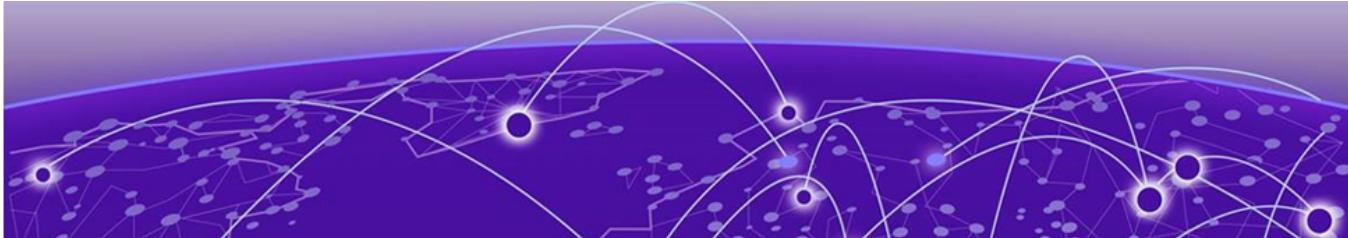
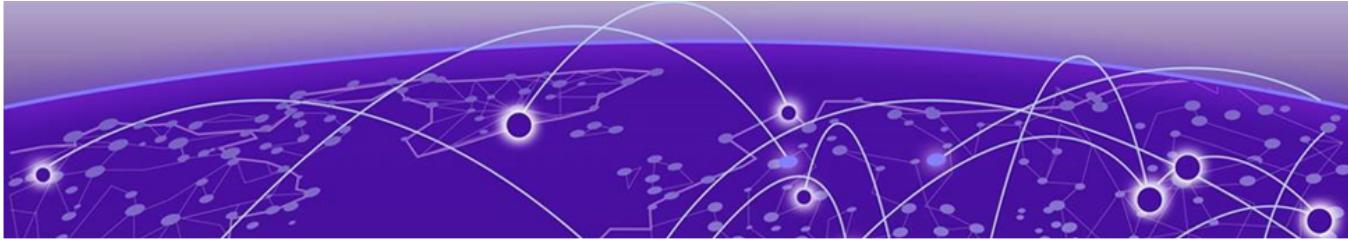


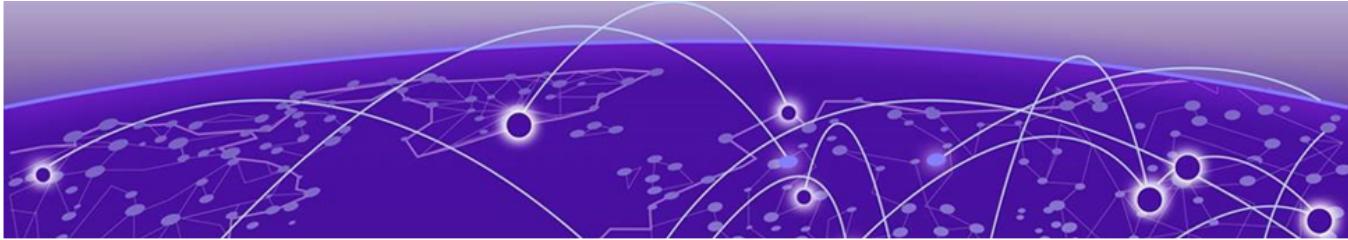
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Abstract

The 9920 YANG Developer Reference Guide for version 21.2.2.0 provides detailed technical specifications and guidelines for implementing and supporting YANG modules in the Extreme 9920 software with the NPB application. It covers both standard OpenConfig YANG attributes and Extreme-specific YANG tree structures. Key sections include support for critical modules such as ACL, interfaces, LLDP, network instances, platform, QoS, and system. Each module is accompanied by a comprehensive YANG tree, illustrating its structure, supported commands, and attributes. Additionally, the guide outlines augmentations specific to Extreme Networks' features, ensuring seamless integration of YANG models for network configuration, monitoring, and management. Advanced features such as FEC modes, transceiver management, breakout capabilities, and VLAN configurations are also explored, making it essential for network administrators and engineers managing Extreme 9920 systems.



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

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Find Extreme Networks product information at the following locations:

[Current Product Documentation](#)

[Release Notes](#)

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[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.

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

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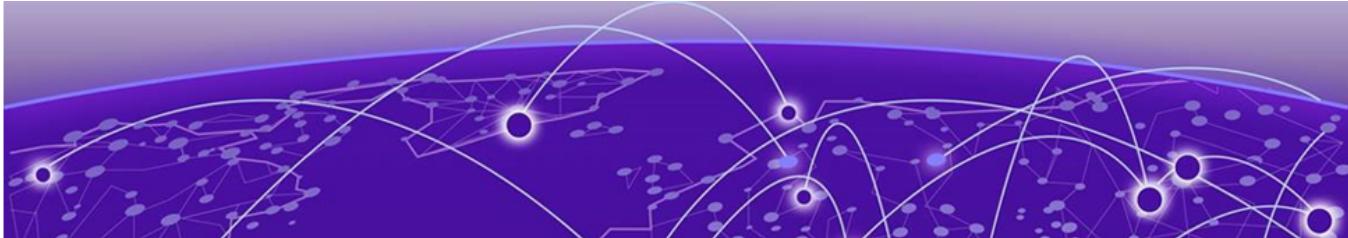
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The User Enablement team at Extreme Networks has made every effort to ensure that this document is accurate, complete, and easy to use. We strive to improve our documentation to help you in your work, so we want to hear from you. We welcome all feedback,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

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



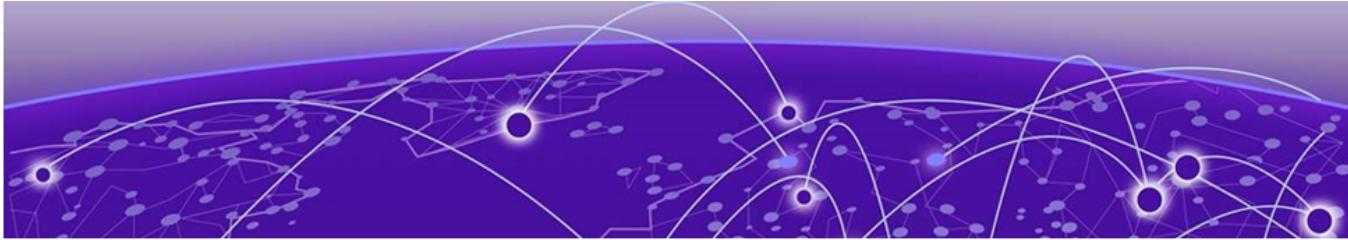
What's New in this Document

The following table describes changes to this guide for the Extreme 9920 software, release 21.2.2.0.

Table 4: Summary of changes

Description	Topic
Updated topic	Standard OpenConfig YANG Tree on page 10
Updated topic	Extreme YANG Tree on page 46

For more information about this release, see the [*Extreme 9920 Software Release Notes, 21.2.2.0*](#).



Standard OpenConfig YANG

[Standard OpenConfig YANG Tree](#) on page 10
[BFD Module Support](#) on page 30
[Defined Sets Module Support](#) on page 31
[Interfaces Module Support](#) on page 32
[LLDP Module Support](#) on page 34
[Network Instance Module Support](#) on page 35
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[Platform Module Support](#) on page 38
[Routing Policy Module Support](#) on page 40
[System Module Support](#) on page 41

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

Standard OpenConfig YANG Tree

```
module: openconfig-network-instance
  +-rw network-instances
    +-rw network-instance* [name]
      +-rw name          -> ../config/name
      +-rw config
        | +-rw name?           string
        | +-rw type?          identityref
        | +-rw enabled?        boolean
        | +-rw description?   string
        | +-rw router-id?     yang:dotted-quad
        | +-rw route-distinguisher?
        | +-rw enabled-address-families* identityref
        | +-rw mtu?            uint16
      +-ro state
        | +-ro name?           string
        | +-ro type?          identityref
        | +-ro enabled?        boolean
        | +-ro description?   string
        | +-ro router-id?     yang:dotted-quad
        | +-ro route-distinguisher?
        | +-ro enabled-address-families* identityref
        | +-ro mtu?            uint16
      +-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 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
    +-+ro state
      |   +-+ro identifier?      identityref
      |   +-+ro name?          string
      |   +-+ro enabled?        boolean
      |   +-+ro default-metric? uint32
  +-+rw static-routes
    +-+rw static* [prefix]
      +-+rw prefix           -> ../config/prefix
      +-+rw config
        |   +-+rw prefix?        inet:ip-prefix
        |   +-+rw set-tag?       oc-pt:tag-type
        |   +-+rw description?  string
      +-+ro state
        |   +-+ro prefix?        inet:ip-prefix
        |   +-+ro set-tag?       oc-pt:tag-type
        |   +-+ro description?  string
    +-+rw next-hops
      +-+rw next-hop* [index]
        +-+rw index           -> ../config/index
        +-+rw config
          |   +-+rw index?        string
          |   +-+rw next-hop?     union
          |   +-+rw metric?       uint32
          |   +-+rw recurse?      boolean
        +-+ro state
          |   +-+ro index?        string
          |   +-+ro next-hop?     union
          |   +-+ro metric?       uint32
          |   +-+ro recurse?      boolean
        +-+rw enable-bfd
          |   +-+rw config
            |   |   +-+rw enabled?  boolean
          +-+ro state
            |   +-+ro enabled?  boolean
        +-+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

```

```

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
        +-ro state
        | +-ro ip?           oc-inet:ipv4-address
        | +-ro prefix-length?  uint8
        | +-ro origin?         ip-address-origin
      +-rw vrrp
        +-rw vrrp-group* [virtual-router-id]
          +-rw virtual-router-id    -> ../config/virtual-router-id
        +-rw config
          | +-rw virtual-router-id?   uint8
          | +-rw virtual-address*     oc-inet:ip-address
          | +-rw priority?           uint8
          | +-rw preempt?            boolean
          | +-rw preempt-delay?      uint16
          | +-rw accept-mode?        boolean
          | +-rw advertisement-interval?  uint16
        +-ro state
          | +-ro virtual-router-id?   uint8
          | +-ro virtual-address*     oc-inet:ip-address
          | +-ro priority?           uint8
          | +-ro preempt?            boolean
          | +-ro preempt-delay?      uint16
          | +-ro accept-mode?        boolean
          | +-ro advertisement-interval?  uint16
          | +-ro current-priority?   uint8
      +-rw interface-tracking
        +-rw config
          | +-rw track-interface*    -> /oc-if:interfaces/interface/name
          | +-rw priority-decrement?  uint8
        +-ro state
          +-ro track-interface*    -> /oc-if:interfaces/interface/name
          +-ro priority-decrement?  uint8
  +-rw proxy-arp
    +-rw config
    | +-rw mode?      enumeration
    +-ro state
    | +-ro mode?      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 unnumbered
    +-rw config
    | +-rw enabled?    boolean
    +-ro state
    | +-ro enabled?    boolean
    +-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 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-discardeds-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-discardeds-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
                    +-ro state
                        | +-ro ip?          oc-inet:ipv6-address
                        | +-ro prefix-length  uint8
                        | +-ro origin?        ip-address-origin
                        | +-ro status?        enumeration
                    +-rw vrrp
                        +-rw vrrp-group* [virtual-router-id]
                            +-rw virtual-router-id  -> ../config/virtual-router-id
                            +-rw config
                                | +-rw virtual-router-id?    uint8
                                | +-rw virtual-address*    oc-inet:ip-address
                                | +-rw priority?          uint8
                                | +-rw preempt?           boolean
                                | +-rw preempt-delay?    uint16
                                | +-rw accept-mode?       boolean
                                | +-rw advertisement-interval?  uint16
                                | +-rw virtual-link-local?  oc-inet:ip-address
                            +-ro state
                                | +-ro virtual-router-id?    uint8
                                | +-ro virtual-address*    oc-inet:ip-address
                                | +-ro priority?          uint8
                                | +-ro preempt?           boolean
                                | +-ro preempt-delay?    uint16
                                | +-ro accept-mode?       boolean
                                | +-ro advertisement-interval?  uint16
                                | +-ro current-priority?  uint8
                                | +-ro virtual-link-local?  oc-inet:ip-address
                            +-rw interface-tracking

```

```

|           +-+rw config
|           |   +-+rw track-interface*      -> /oc-if:interfaces/interface/name
|           |   +-+rw priority-decrement?  uint8
|           +-+ro state
|           |   +-+ro track-interface*      -> /oc-if:interfaces/interface/name
|           |   +-+ro priority-decrement?  uint8
+-+rw router-advertisement
|   +-+rw config
|   |   +-+rw interval?    uint32
|   |   +-+rw lifetime?    uint32
|   |   +-+rw suppress?    boolean
|   +-+ro state
|   |   +-+ro interval?    uint32
|   |   +-+ro lifetime?    uint32
|   |   +-+ro suppress?    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 unnumbered
|   +-+rw config
|   |   +-+rw enabled?    boolean
|   +-+ro state
|   |   +-+ro enabled?    boolean
+-+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 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-discardeds-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-discardeds-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
  +-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 last-clear? yang:date-and-time
      | +-ro extr-lldp-ext:holdtime? uint16
      | +-ro extr-lldp-ext:transmit? boolean
      | +-ro extr-lldp-ext:receive? boolean
  +-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
      +-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 last-clear? yang:date-and-time
          | +-ro extr-lldp-ext:transmit? boolean
          | +-ro extr-lldp-ext:receive? boolean
      +-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 capabilities
    +---ro capability* [name]
        +---ro name      -> ../state/name
        +---ro config
        +---ro state
            +---ro name?      identityref
            +---ro enabled?    boolean

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 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 extr-lacp-ext:rx-machine?
        +-+ro extr-lacp-ext:rx-time?
        +-+ro extr-lacp-ext:tx-machine?
        +-+ro extr-lacp-ext:mux-machine?
        +-+ro extr-lacp-ext:mux-reason?
        +-+ro extr-lacp-ext:actor-churn-machine?

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

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

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

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

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 removable?      boolean
                | +-ro oper-status?    identityref
                | +-ro empty?          boolean
                | +-ro parent?         -> ../../component/config/name
                +-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 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 port
|   +-+rw config
|   +-+ro state
|   +-+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:ieeeefloat32
|       +-+ro oc-platform-psu:input-current?  oc-types:ieeeefloat32
|       +-+ro oc-platform-psu:input-voltage?   oc-types:ieeeefloat32
|       +-+ro oc-platform-psu:output-current?  oc-types:ieeeefloat32
|       +-+ro oc-platform-psu:output-voltage?   oc-types:ieeeefloat32
|       +-+ro oc-platform-psu:output-power?     oc-types:ieeeefloat32
+-+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 backplane
    |   +-rw config
    |   +-ro state
    +-rw software-module
    |   +-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?    decimal164
    |           +-ro oc-transceiver:avg?        decimal164
    |           +-ro oc-transceiver:min?      decimal164
    |           +-ro oc-transceiver:max?      decimal164
    |           +-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?    decimal164
    |           +-ro oc-transceiver:avg?        decimal164
    |           +-ro oc-transceiver:min?      decimal164
    |           +-ro oc-transceiver:max?      decimal164

```

```

    |   |   |   +-+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
    |   +-+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: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
|           +-rw oc-linecard:linecard
|           +-rw oc-linecard:config
|           |   +-rw oc-linecard:power-admin-state?  oc-platform-types:component-power-
type
|           |   +-rw extr-linecard-ext:linecard-type? linecard
|           +-ro oc-linecard:state
|           |   +-ro oc-linecard:power-admin-state?  oc-platform-types:component-power-
type
|           |   +-ro oc-linecard:slot-id?            string
|           |   +-ro extr-linecard-ext:linecard-type? linecard

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
  |  |  +-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
|       +-ro outer-low-vlan-id?  oc-vlan-types:vlan-id
|       +-ro outer-high-vlan-id? oc-vlan-types:vlan-id
+-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]

```

```

    | |     +-rw oc-ip:ip          -> ../config/ip
    | |
    | |     +-rw oc-ip:config
    | |         | +-rw oc-ip:ip?           oc-inet:ipv4-address
    | |         | +-rw oc-ip:prefix-length?   uint8
    | |
    | |     +-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
    | |
    | |     +-rw oc-ip:vrrp
    | |         +-rw oc-ip:vrrp-group* [virtual-router-id]
    | |             +-rw oc-ip:virtual-router-id      -> ../config/virtual-router-id
    | |             +-rw oc-ip:config
    | |                 | +-rw oc-ip:virtual-router-id?       uint8
    | |                 | +-rw oc-ip:virtual-address*      oc-inet:ip-address
    | |                 | +-rw oc-ip:priority?            uint8
    | |                 | +-rw oc-ip:preempt?             boolean
    | |                 | +-rw oc-ip:preempt-delay?      uint16
    | |                 | +-rw oc-ip:accept-mode?       boolean
    | |                 | +-rw oc-ip:advertisement-interval? uint16
    | |
    | |             +-ro oc-ip:state
    | |                 | +-ro oc-ip:virtual-router-id?       uint8
    | |                 | +-ro oc-ip:virtual-address*      oc-inet:ip-address
    | |                 | +-ro oc-ip:priority?            uint8
    | |                 | +-ro oc-ip:preempt?             boolean
    | |                 | +-ro oc-ip:preempt-delay?      uint16
    | |                 | +-ro oc-ip:accept-mode?       boolean
    | |                 | +-ro oc-ip:advertisement-interval? uint16
    | |                 | +-ro oc-ip:current-priority?   uint8
    | |
    | |             +-rw oc-ip:interface-tracking
    | |                 +-rw oc-ip:config
    | |                     | +-rw oc-ip:track-interface*      -> /oc-if:interfaces/
interface/name
    | |                         | +-rw oc-ip:priority-decrement?   uint8
    | |
    | |                         +-ro oc-ip:state
    | |                             +-ro oc-ip:track-interface*      -> /oc-if:interfaces/
interface/name
    | |                                 +-ro oc-ip:priority-decrement?   uint8
    | |
    | |                         +-rw oc-ip:proxy-arp
    | |                             +-rw oc-ip:config
    | |                                 | +-rw oc-ip:mode?           enumeration
    | |                                 +-ro oc-ip:state
    | |                                     +-ro oc-ip:mode?           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:unnumbered
    | |                             +-rw oc-ip:config
    | |                                 | +-rw oc-ip:enabled?   boolean
    | |
    | |                         +-ro oc-ip:state
    | |                             | +-ro oc-ip:enabled?   boolean
    | |
    | |                         +-rw oc-ip:interface-ref
    | |                             +-rw oc-ip:config
    | |                                 | +-rw oc-ip:interface?      -> /oc-if:interfaces/interface[name
if:name=current()]/../interface]/subinterfaces/subinterface/index
    | |                                     | +-rw oc-ip:subinterface?  -> /oc-if:interfaces/interface[oc-
    | |                                         +-ro oc-ip:state
    | |                                             | +-ro oc-ip:interface?      -> /oc-if:interfaces/interface[name

```

```

    | |           +-+ro oc-ip:subinterface?   -> /oc-if:interfaces/interface[oc-
if:name=current()]/../interface]/subinterfaces/subinterface/index
    | +-+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-discardeds-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-discardeds-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
    | | +-+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
    | +-+rw oc-ip:vrrp
        +-+rw oc-ip:vrrp-group* [virtual-router-id]
            +-+rw oc-ip:virtual-router-id      -> ../config/virtual-router-id
            +-+rw oc-ip:config
            | | +-+rw oc-ip:virtual-router-id?    uint8
            | | +-+rw oc-ip:virtual-address*      oc-inet:ip-address
            | | +-+ro oc-ip:priority?            uint8
            | | +-+rw oc-ip:preempt?            boolean
            | | +-+rw oc-ip:preempt-delay?     uint16
            | | +-+rw oc-ip:accept-mode?       boolean
            | | +-+rw oc-ip:advertisement-interval? uint16
            | | +-+rw oc-ip:virtual-link-local?  oc-inet:ip-address
            +-+ro oc-ip:state
            | | +-+ro oc-ip:virtual-router-id?    uint8
            | | +-+ro oc-ip:virtual-address*      oc-inet:ip-address
            | | +-+ro oc-ip:priority?            uint8
            | | +-+ro oc-ip:preempt?            boolean
            | | +-+ro oc-ip:preempt-delay?     uint16
            | | +-+ro oc-ip:accept-mode?       boolean
            | | +-+ro oc-ip:advertisement-interval? uint16
            | | +-+ro oc-ip:current-priority?   uint8
            | | +-+ro oc-ip:virtual-link-local?  oc-inet:ip-address
            +-+rw oc-ip:interface-tracking
                +-+rw oc-ip:config
                | | +-+rw oc-ip:track-interface*    -> /oc-if:interfaces/
interface/name
                | | | +-+rw oc-ip:priority-decrement?  uint8
                | | +-+ro oc-ip:state
                | | | +-+ro oc-ip:track-interface*    -> /oc-if:interfaces/

```

```

interface/name
|           +-+ro oc-ip:priority-decrement?    uint8
+-rw oc-ip:router-advertisement
|   +-+rw oc-ip:config
|   |   +-+rw oc-ip:interval?    uint32
|   |   +-+rw oc-ip:lifetime?    uint32
|   |   +-+rw oc-ip:suppress?    boolean
|   +-+ro oc-ip:state
|   |   +-+ro oc-ip:interval?    uint32
|   |   +-+ro oc-ip:lifetime?    uint32
|   |   +-+ro oc-ip:suppress?    boolean
+-rw oc-ip:neighbors
|   +-+rw oc-ip:neighbor* [ip]
|   |   +-+rw oc-ip:ip          -> ../../config/ip
|   |   +-+rw oc-ip:config
|   |   |   +-+rw oc-ip:ip?          oc-inet:ipv6-address
|   |   |   +-+rw oc-ip:link-layer-address  oc-yang:phys-address
|   |   +-+ro oc-ip:state
|   |   |   +-+ro oc-ip:ip?          oc-inet:ipv6-address
|   |   |   +-+ro oc-ip:link-layer-address  oc-yang:phys-address
|   |   |   +-+ro oc-ip:origin?      neighbor-origin
|   |   |   +-+ro oc-ip:is-router?    boolean
|   |   |   +-+ro oc-ip:neighbor-state? enumeration
+-rw oc-ip:unnumbered
|   +-+rw oc-ip:config
|   |   +-+rw oc-ip:enabled?    boolean
|   +-+ro oc-ip:state
|   |   +-+ro oc-ip:enabled?    boolean
|   +-+rw oc-ip:interface-ref
|   |   +-+rw oc-ip:config
|   |   |   +-+rw oc-ip:interface?    -> /oc-if:interfaces/interface[name
|   |   |   +-+rw oc-ip:subinterface?  -> /oc-if:interfaces/interface[oc-
if:name=current()]/../interface]/subinterfaces/subinterface/index
|   |   +-+ro oc-ip:state
|   |   |   +-+ro oc-ip:interface?    -> /oc-if:interfaces/interface[name
|   |   |   +-+ro oc-ip:subinterface?  -> /oc-if:interfaces/interface[oc-
if:name=current()]/../interface]/subinterfaces/subinterface/index
|   +-+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
+-rw clock
|   +-rw config
|   |   +-rw timezone-name?  timezone-name-type
|   +-ro state
|   |   +-ro timezone-name?  timezone-name-type
+-rw dns
|   +-rw config
|   |   +-rw search*        oc-inet:domain-name
|   +-ro state
|   |   +-ro search*        oc-inet:domain-name
|   +-rw servers
|       +-rw server* [address]
|           +-rw address      -> ../config/address
|           +-rw config
|               |   +-rw address?    oc-inet:ip-address
|               |   +-rw port?      oc-inet:port-number
|               +-ro state
|                   +-ro address?    oc-inet:ip-address
|                   +-ro port?      oc-inet:port-number
+-rw ntp
|   +-rw config
|   |   +-rw enabled?        boolean
|   |   +-rw ntp-source-address?  oc-inet:ip-address
|   |   +-rw enable-ntp-auth?   boolean
|   +-ro state
|   |   +-ro enabled?        boolean
|   |   +-ro ntp-source-address?  oc-inet:ip-address
|   |   +-ro enable-ntp-auth?   boolean
|   +-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 remote-servers
|   |   +-+rw remote-server* [host]
|   |   |   +-+rw host          -> ../config/host
|   |   |   +-+rw config
|   |   |   |   +-+rw host?
|   |   |   |   +-+rw source-address?
|   |   |   |   +-+rw remote-port?
|   |   |   |   +-+rw extr-system-logging-ext:transport?
|   |   |   +-+rw extr-system-logging-ext:secure-forwarding?  syslog-remote-server-
transport
|   |   |   |   +-+rw extr-system-logging-ext:secure-forwarding?  syslog-remote-server-
secure-forwarding
|   |   |   |   +-+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
|   |   |   |   +-+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 users
|   |   |   +-+rw user* [username]
|   |   |   |   +-+rw username      -> ../config/username
|   |   |   |   +-+rw config
|   |   |   |   |   +-+rw username?    string
|   |   |   |   |   +-+rw password?    string
|   |   |   |   |   +-+rw password-hashed?  oc-aaa-types:crypt-password-type
|   |   |   |   |   +-+rw role?        union
|   |   |   +-+ro state
|   |   |   |   +-+ro username?    string
|   |   |   |   +-+ro password?    string
|   |   |   |   +-+ro password-hashed?  oc-aaa-types:crypt-password-type
|   |   |   |   +-+ro role?        union
|   +-+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 secret-key-hashed?  oc-aaa-types:crypt-password-type
|           +-ro state
|             +-+ro secret-key?      oc-types:routing-password
|             +-+ro secret-key-hashed?  oc-aaa-types:crypt-password-type
+-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 license
  +-rw licenses
    +-rw license* [license-id]
      +-rw license-id      -> ../config/license-id
      +-rw config
        | +-+rw license-id?    string
        | +-+rw license-data?    union
        | +-+rw active?      boolean
        +-ro state
          +-+ro license-id?    string
          +-+ro license-data?    union
          +-+ro active?      boolean
          +-+ro description?    string
          +-+ro issue-date?    uint64
          +-+ro expiration-date?  uint64
          +-+ro in-use?      boolean
          +-+ro expired?      boolean

```

```

        +-+ro valid?          boolean

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 output
    |      +-+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
  +-+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

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

```

BFD Module Support

```

module openconfig-bfd-deviations {

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

  prefix "oc-bfd-dev";

```

```

import openconfig-extensions { prefix oc-ext; }
import openconfig-bfd { prefix oc-bfd; }

organization "Extreme Networks, Inc.";

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

description
    "This module describes the deviations from openconfig-bfd v0.10.2";
oc-ext:openconfig-version "1.0.0";

revision "2024-07-05" {
    description
        "Initial version.";
    reference "1.0.0";
}

deviation /oc-bfd:bfd {
    deviate not-supported;
}
}

```

Defined Sets Module Support

```

module openconfig-defined-sets-deviations {

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

    prefix "oc-sets-dev";

    import openconfig-defined-sets { prefix "oc-sets"; }
    import openconfig-extensions { prefix oc-ext; }

    organization "Extreme Networks, Inc.';

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

    description
        "This module describes the deviations from openconfig-defined-sets v1.0.0";
    oc-ext:openconfig-version "1.0.0";

    revision "2024-10-01" {
        description
            "Initial version.";
        reference "1.0.0";
    }

    deviation /oc-sets:defined-sets {
        deviate not-supported;
    }
}

```

Interfaces Module Support

```
module openconfig-interfaces-deviations {

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

    prefix "oc-int-dev";

    import openconfig-interfaces { prefix "oc-if"; }
    import openconfig-if-ip { prefix "oc-ip"; }
    import openconfig-if-ip-ext { prefix "oc-ip-ext"; }
    import openconfig-vlan { prefix "oc-vlan"; }
    import openconfig-if-ethernet { prefix oc-eth; }
    import openconfig-if-tunnel { prefix oc-tun; }
        import openconfig-if-aggregate { prefix oc-lag; }
    import openconfig-extensions { prefix oc-ext; }

    organization "Extreme Networks, Inc.";

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

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

    oc-ext:openconfig-version "1.0.0";

    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;
    }

    deviation /oc-if:interfaces/oc-if:interface/oc-if:subinterfaces/oc-if:subinterface/oc-
ip:ipv4/oc-ip:addresses/oc-ip:address/oc-ip:vrrp {
        deviate not-supported;
    }

    deviation /oc-if:interfaces/oc-if:interface/oc-if:subinterfaces/oc-if:subinterface/oc-
ip:ipv4/oc-ip:proxy-arp {
        deviate not-supported;
    }

    deviation /oc-if:interfaces/oc-if:interface/oc-if:subinterfaces/oc-if:subinterface/oc-
ip:ipv4/oc-ip:unnumbered {
        deviate not-supported;
    }

    deviation /oc-if:interfaces/oc-if:interface/oc-if:subinterfaces/oc-if:subinterface/oc-
ip:ipv6/oc-ip:addresses/oc-ip:address/oc-ip:vrrp {
        deviate not-supported;
    }

    deviation /oc-if:interfaces/oc-if:interface/oc-if:subinterfaces/oc-if:subinterface/oc-
ip:ipv6/oc-ip:router-advertisement {
        deviate not-supported;
    }
}
```

```
deviation /oc-if:interfaces/oc-if:interface/oc-if:subinterfaces/oc-if:subinterface/oc-ip:ipv6/oc-ip:unnumbered {
    deviate not-supported;
}

deviation /oc-if:interfaces/oc-if:interface/oc-vlan:routed-vlan/oc-ip:ipv4/oc-ip:addresses/oc-ip:address/oc-ip:vrrp {
    deviate not-supported;
}

deviation /oc-if:interfaces/oc-if:interface/oc-vlan:routed-vlan/oc-ip:ipv4/oc-ip:proxy-arp {
    deviate not-supported;
}

deviation /oc-if:interfaces/oc-if:interface/oc-vlan:routed-vlan/oc-ip:ipv4/oc-ip:unnumbered {
    deviate not-supported;
}

deviation /oc-if:interfaces/oc-if:interface/oc-vlan:routed-vlan/oc-ip:ipv6/oc-ip:addresses/oc-ip:address/oc-ip:vrrp {
    deviate not-supported;
}

deviation /oc-if:interfaces/oc-if:interface/oc-vlan:routed-vlan/oc-ip:ipv6/oc-ip:router-advertisement {
    deviate not-supported;
}

deviation /oc-if:interfaces/oc-if:interface/oc-vlan:routed-vlan/oc-ip:ipv6/oc-ip:unnumbered {
    deviate not-supported;
}

deviation /oc-if:interfaces/oc-if:interface/oc-tun:tunnel/oc-tun:ipv4/oc-tun:proxy-arp {
    deviate not-supported;
}

deviation /oc-if:interfaces/oc-if:interface/oc-tun:tunnel/oc-tun:ipv4/oc-tun:unnumbered {
    deviate not-supported;
}

deviation /oc-if:interfaces/oc-if:interface/oc-tun:tunnel/oc-tun:ipv6/oc-tun:router-advertisement {
    deviate not-supported;
}

deviation /oc-if:interfaces/oc-if:interface/oc-tun:tunnel/oc-tun:ipv6/oc-tun:unnumbered {
    deviate not-supported;
}

deviation /oc-if:interfaces/oc-if:interface/oc-eth:ethernet/oc-vlan:switched-vlan {
    deviate not-supported;
}

deviation /oc-if:interfaces/oc-if:interface/oc-lag:aggregation/oc-vlan:switched-vlan {
    deviate not-supported;
}
```

```

        }

        deviation /oc-if:interfaces/oc-if:interface/oc-if:hold-time {
            deviate not-supported;
        }
        deviation /oc-if:interfaces/oc-if:interface/oc-tun:tunnel/oc-tun:config/oc-tun:gre-
key {
            deviate not-supported;
        }

        deviation /oc-if:interfaces/oc-if:interface/oc-tun:tunnel/oc-tun:state/oc-tun:gre-key
{
            deviate not-supported;
        }
    }
}

```

LLDP Module Support

```

module openconfig-lldp-deviations {

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

    prefix "oc-lldp-dev";

    import openconfig-lldp { prefix "oc-lldp"; }
    import openconfig-extensions { prefix oc-ext; }
    import extreme-lldp-ext { prefix "extr-lldp-ext"; }

    organization "Extreme Networks, Inc./";

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

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

    oc-ext:openconfig-version "1.0.0";

    revision "2021-10-04" {
        description
            "Initial version.";
        reference "1.0.0";
    }
    deviation "/oc-lldp:lldp/oc-lldp:interfaces/oc-lldp:interface/extr-lldp-ext:fabric-
extend" {
        deviate not-supported;
    }
    deviation "/oc-lldp:lldp/oc-lldp:interfaces/oc-lldp:interface/oc-lldp:neighbors/oc-
lldp:neighbor/oc-lldp:state/oc-lldp:age" {
        deviate not-supported;
    }
    deviation "/oc-lldp:lldp/oc-lldp:interfaces/oc-lldp:interface/oc-lldp:neighbors/oc-
lldp:neighbor/oc-lldp:custom-tlvs/oc-lldp:tlv/extr-lldp-ext:addresses" {
        deviate not-supported;
    }
}

```

Network Instance Module Support

```
module openconfig-network-instance-deviations {

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

    prefix "oc-net-dev";

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

    organization "Extreme Networks, Inc./";

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

    description
        "This module describes the deviations from openconfig-network-instance v0.10.2";
        oc-ext:openconfig-version "1.0.0";

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

    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:route-limits {
        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: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: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:pcep" {
    deviate not-supported;
}

deviation "/oc-net:network-instances/oc-net:network-instance/oc-net:fdb/oc-net:l2rib"
{
    deviate not-supported;
}

deviation "/oc-net:network-instances/oc-net:network-instance/oc-net:fdb/oc-net:mac-
table/oc-net:entries/oc-net:entry/oc-net:state/oc-net:age" {
    deviate not-supported;
}

deviation "/oc-net:network-instances/oc-net:network-instance/oc-net:fdb/oc-net:mac-
table/oc-net:entries/oc-net:entry/oc-net:state/oc-net:entry-type" {
    deviate not-supported;
}

deviation "/oc-net:network-instances/oc-net:network-instance/oc-net:fdb/oc-net:mac-
table/oc-net:entries/oc-net:entry/oc-net:state/oc-net:evi" {
    deviate not-supported;
}

deviation "/oc-net:network-instances/oc-net:network-instance/oc-net:fdb/oc-net:arp-
proxy/oc-net:config/oc-net:enable" {
    deviate not-supported;
}

deviation "/oc-net:network-instances/oc-net:network-instance/oc-net:fdb/oc-net:arp-
proxy/oc-net:state/oc-net:enable" {
    deviate not-supported;
}

deviation "/oc-net:network-instances/oc-net:network-instance/oc-net:fdb/oc-net:nd-
proxy/oc-net:config/oc-net:enable" {
    deviate not-supported;
}

deviation "/oc-net:network-instances/oc-net:network-instance/oc-net:fdb/oc-net:nd-
proxy/oc-net:state/oc-net:enable" {
    deviate not-supported;
}

deviation "/oc-net:network-instances/oc-net:network-instance/oc-net:protocols/oc-
net:protocol/oc-net:static-routes/oc-net:static/oc-net:config/oc-net:set-tag" {
    deviate replace {
        type uint32;
    }
}

deviation "/oc-net:network-instances/oc-net:network-instance/oc-net:protocols/oc-
net:protocol/oc-net:static-routes/oc-net:static/oc-net:state/oc-net:set-tag" {
    deviate replace {
```

```

        type uint32;
    }

    deviation "/oc-net:network-instances/oc-net:network-
instance/oc-net:protocols/oc-net:protocol/oc-net:static-routes/oc-net:static/oc-net:next-
hops/oc-net:next-hop/oc-net:config/oc-net:recurse" {
        deviate replace {
            default true;
        }
    }

    deviation "/oc-net:network-instances/oc-net:network-
instance/oc-net:protocols/oc-net:protocol/oc-net:static-routes/oc-net:static/oc-net:next-
hops/oc-net:next-hop/oc-net:state/oc-net:recurse" {
        deviate replace {
            default true;
        }
    }

    deviation "/oc-net:network-instances/oc-net:network-
instance/oc-net:protocols/oc-net:protocol/oc-net:static-routes/oc-net:static/oc-net:next-
hops/oc-net:next-hop/oc-net:enable-bfd" {
        deviate not-supported;
    }

    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:config/oc-
net:route-distinguisher" {
        deviate not-supported;
    }
    deviation "/oc-net:network-instances/oc-net:network-instance/oc-net:state/oc-
net:route-distinguisher" {
        deviate not-supported;
    }
    deviation "/oc-net:network-instances/oc-net:network-instance/oc-net:table-connections/
oc-net:table-connection/oc-net:config/oc-net:import-policy" {
        deviate not-supported;
    }
    deviation "/oc-net:network-instances/oc-net:network-instance/oc-net:table-connections/
oc-net:table-connection/oc-net:state/oc-net:import-policy" {
        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:evpn" {
        deviate not-supported;
    }
}

```

Optical Transport Module Support

```

module openconfig-optical-transport-deviations {

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

    prefix "oc-opt-trans-dev";

```

```

import openconfig-transport-line-protection { prefix "oc-line-protect"; }
import openconfig-channel-monitor { prefix "oc-chan-monitor"; }
import openconfig-transport-line-connectivity { prefix "oc-line-connect"; }
import openconfig-optical-amplifier { prefix "oc-opt-amp"; }
import openconfig-optical-attenuator { prefix "oc-opt-att"; }
import openconfig-terminal-device { prefix "oc-opt-term"; }
import openconfig-wavelength-router { prefix "oc-wave-router"; }
import openconfig-extensions { prefix oc-ext; }

organization "Extreme Networks, Inc.";

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

description
    "This module describes the deviations from openconfig-transport-line-protection
v0.1.0";

oc-ext:openconfig-version "1.0.0";

revision "2024-09-25" {
    description
        "Initial version.";
    reference "1.0.0";
}

deviation /oc-line-protect:aps {
    deviate not-supported;
}
deviation /oc-chan-monitor:channel-monitors {
    deviate not-supported;
}
deviation /oc-line-connect:connections {
    deviate not-supported;
}
deviation /oc-opt-amp:optical-amplifier {
    deviate not-supported;
}
deviation /oc-opt-att:optical-attenuator {
    deviate not-supported;
}
deviation /oc-opt-term:terminal-device {
    deviate not-supported;
}
deviation /oc-wave-router:wavelength-router {
    deviate not-supported;
}
}

```

Platform Module Support

```

module openconfig-platform-deviations {

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

prefix "oc-plat-dev";

import openconfig-platform { prefix "oc-platform"; }
import openconfig-alarms { prefix "oc-alarms"; }
import openconfig-extensions { prefix oc-ext; }

```

```
organization "Extreme Networks, Inc.";

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

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

oc-ext:openconfig-version "1.0.0";

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: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;
    }
}

```

Routing Policy Module Support

```

module openconfig-routing-policy-deviations {

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

    prefix "oc-rpol-dev";

    import openconfig-extensions { prefix oc-ext; }
    import openconfig-routing-policy { prefix "oc-rpol"; }

    organization "Extreme Networks, Inc./";

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

    description
        "This module describes the deviations from openconfig-routing-policy v0.10.2";

    oc-ext:openconfig-version "1.0.0";
}

```

```
revision "2024-07-05" {
    description
        "Initial version.";
    reference "1.0.0";
}

deviation /oc-rpol:routing-policy {
    deviate not-supported;
}
}
```

System Module Support

```
module openconfig-system-deviations {

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

    prefix "oc-sys-dev";

    import openconfig-system { prefix "oc-sys"; }
    import openconfig-extensions { prefix oc-ext; }
    import extreme-system-ext { prefix "extr-sys-ext"; }

    organization "Extreme Networks, Inc./";

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

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

    oc-ext:openconfig-version "1.0.0";

    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: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: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/oc-sys:config/oc-sys:auth-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/oc-sys:state/oc-sys:auth-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/oc-sys:config/oc-sys:acct-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/oc-sys:state/oc-sys:acct-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/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:radius/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:radius/oc-sys:config/oc-sys:secret-key-hashed" {
  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/oc-sys:state/oc-sys:secret-key-hashed" {
  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/oc-sys:config/oc-sys:retransmit-attempts" {
  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/oc-sys:state/oc-sys:retransmit-attempts" {
  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/oc-sys:state/oc-sys:counters" {
  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:ntp-keys" {
  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:secret-key-hashed" {
  deviate not-supported;
}

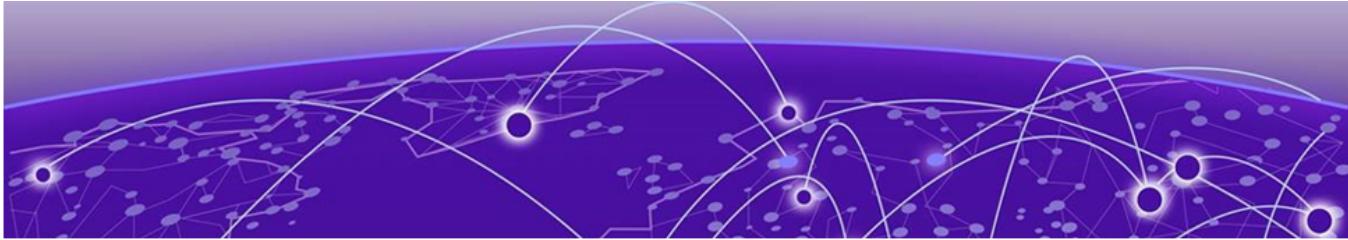
deviation "/oc-sys:system/oc-sys:aaa/oc-sys:server-groups/" +
  "oc-sys:server-group/oc-sys:servers/oc-sys:server" +
  "/oc-sys:tacacs/oc-sys:state/oc-sys:secret-key-hashed" {
  deviate not-supported;
}

deviation "/oc-sys:system/extr-sys-ext:global/extr-sys-ext:config" +
  "/extr-sys-ext:mac-aging-time" {
  deviate not-supported;
}

deviation "/oc-sys:system/extr-sys-ext:global/extr-sys-ext:state" +
  "/extr-sys-ext:mac-aging-time" {
  deviate not-supported;
}
// mac-move-detection is the only container under 12
// and hence deviating 12
deviation "/oc-sys:system/extr-sys-ext:global/extr-sys-ext:12" {
  deviate not-supported;
}

deviation /oc-sys:system/oc-sys:license {
  deviate not-supported;
}

}
```



Extreme YANG Tree

```
module: extreme-snmp
  +-rw snmp
    +-rw communities
      |  +-rw community* [community-name]
      |    +-rw community-name    -> ../config/community-name
      |    +-rw config
      |    |  +-rw community-name?   string
      |    +-rw state
      |      +-rw community-name?   string
    +-rw notification-recipients
      |  +-rw notification-recipient* [hostname community-or-user-name]
      |    +-rw hostname           -> ../config/hostname
      |    +-rw community-or-user-name -> ../config/community-or-user-name
      |    +-rw config
      |    |  +-rw hostname?        oc-inet-types:host
      |    |  +-rw community-or-user-name? string
      |    |  +-rw udp-port?        uint16
      |    |  +-rw notif-type?       notification-type
      |    +-rw state
      |      +-rw hostname?        oc-inet-types:host
      |      +-rw community-or-user-name? string
      |      +-rw udp-port?        uint16
      |      +-rw notif-type?       notification-type
    +-rw users
      +-rw user* [name]
        +-rw name          -> ../config/name
        +-rw config
        |  +-rw name?       string
        |  +-rw auth         auth-type
        |  +-rw auth-key?    string
        |  +-rw priv?        priv-type
        |  +-rw priv-key?    string
        +-rw state
          +-rw name?       string
          +-rw auth         auth-type
          +-rw auth-key?    string
          +-rw priv?        priv-type
          +-rw priv-key?    string

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
    +-ro lag-load-balance-method-custom* aggregation-load-balance-method-custom
  augment /oc-if:interfaces/oc-if:interface/oc-lag:aggregation/oc-lag:config:
    +-rw lag-load-balance-method?    aggregation-load-balance-method
    +-rw lag-load-balance-method-custom* aggregation-load-balance-method-custom

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-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/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-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-eth-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-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

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 igrmp-type?         uint8
    +-+ro igrmp-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-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 encaps?      tunnel-encap:tunnel-encap-ref

```

```

|   +---rw description?      string
+---ro state
|   +---ro name?            string
|   +---ro listener-policy? listener-policy:listener-policy-ref
|   +---ro encaps?          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
|   +-rw log?                   common-types:log-type
+-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
  +-ro log?                   common-types:log-type

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?
                    +---rw truncation-length? uint16
                    +---rw terminate?
                    +---rw scope-shift?
                    +---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?
                    +---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
|   |   +-rw log?            common-types:log-type
|   +-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 log?            common-types:log-type
|   |   +-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 encaps-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 encaps-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

```

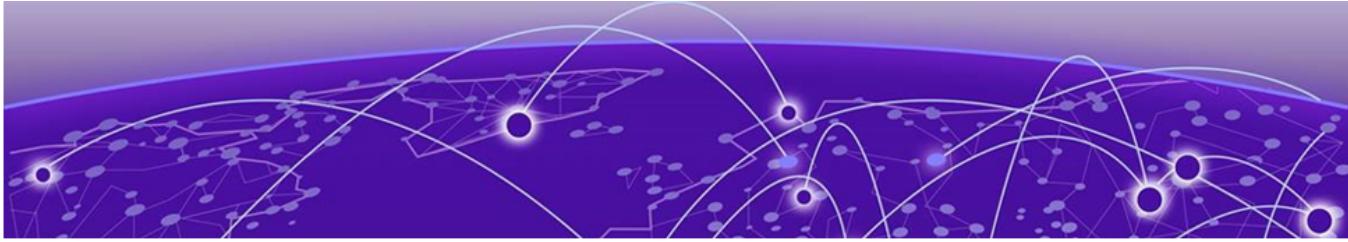
```

        +-+ro apply-policy?    string

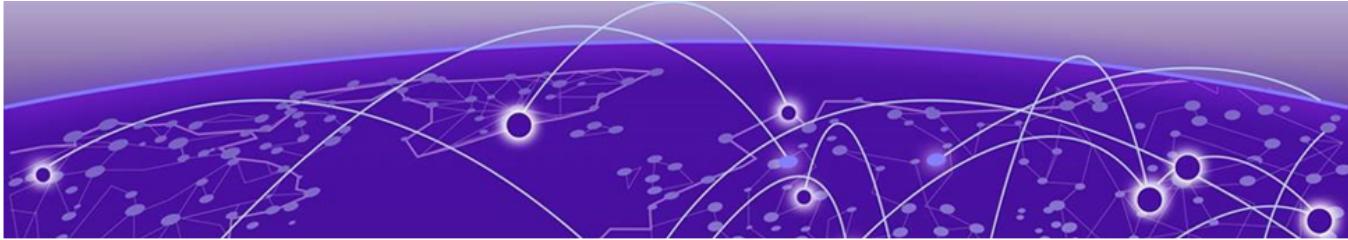
module: extreme-transport-tunnel
  +-rw transport-tunnels
    +-rw transport-tunnel* [name]
      +-rw name                  -> ../config/name
      +-rw config
        | +-rw name?              string
        | +-rw description?       string
        | +-rw source-ipv4-addr?   oc-inet:ipv4-address
        | +-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-mirror
  +-rw mirrors
    +-rw mirror* [name]
      +-rw name                  -> ../config/name
      +-rw config
        | +-rw name?              string
        | +-rw description?       string
        | +-rw direction?         common-types:mirror-direction-type
      +-ro state
        | +-ro name?              string
        | +-ro description?       string
        | +-ro direction?         common-types:mirror-direction-type
        | +-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

```



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