



Extreme 9920 Software YANG Reference Guide

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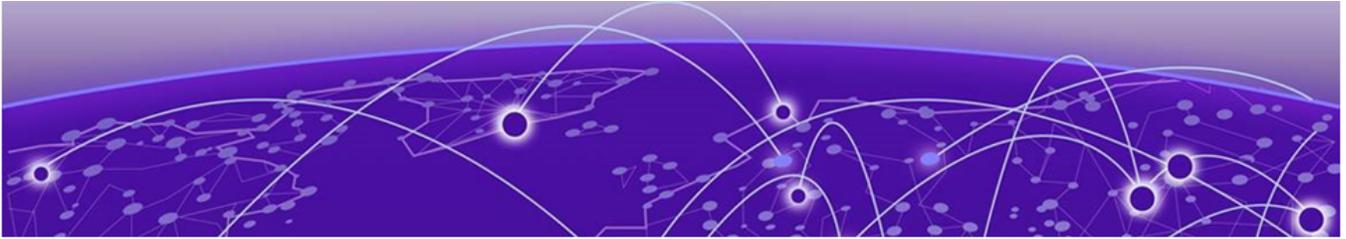
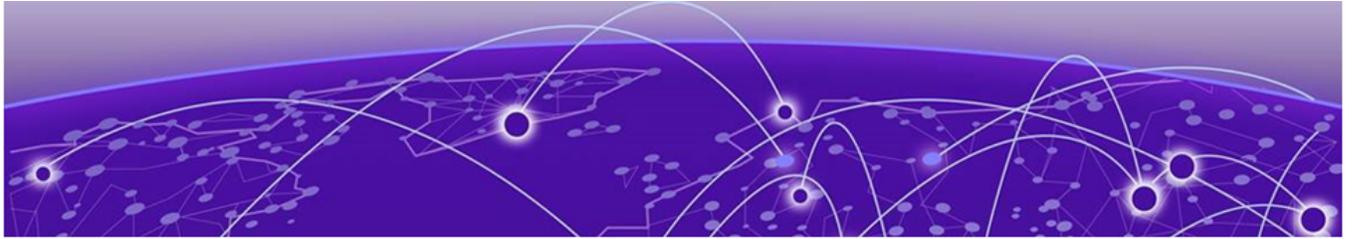


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Preface

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 ExtremeSwitching 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
Words in italicized type	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.

Documentation and Training

Find Extreme Networks product information at the following locations:

[Current Product Documentation](#)

[Release Notes](#)

[Hardware and software compatibility](#) for Extreme Networks products

[Extreme Optics Compatibility](#)

[Other resources](#) such as white papers, data sheets, and case studies

Extreme Networks offers product training courses, both online and in person, as well as specialized certifications. For details, visit www.extremenetworks.com/education/.

Help and Support

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

Extreme Portal

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

The Hub

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

Call GTAC

For immediate support: (800) 998 2408 (toll-free in U.S. and Canada) or 1 (408) 579 2826. For the support phone number in your country, visit: www.extremenetworks.com/support/contact

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

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

Subscribe to Product Announcements

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

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

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

Send Feedback

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

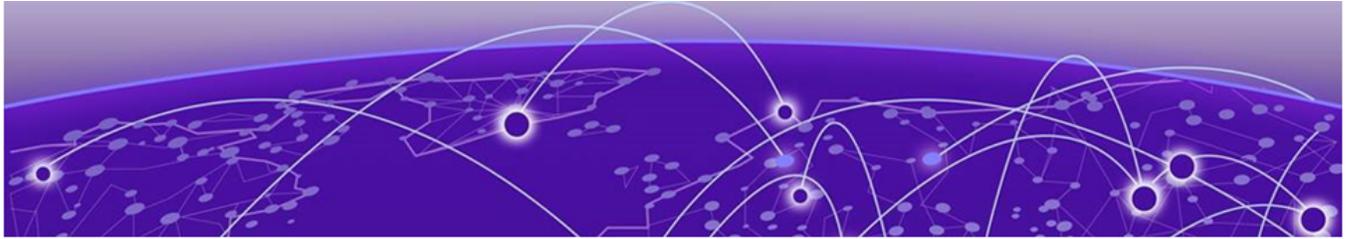
- Content errors, or confusing or conflicting information.

- Improvements that would help you find relevant information.
- Broken links or usability issues.

To send feedback, do either of the following:

- Access the feedback form at <https://www.extremenetworks.com/documentation-feedback/>.
- Email us at documentation@extremenetworks.com.

Provide the publication title, part number, and as much detail as possible, including the topic heading and page number if applicable, as well as your suggestions for improvement.

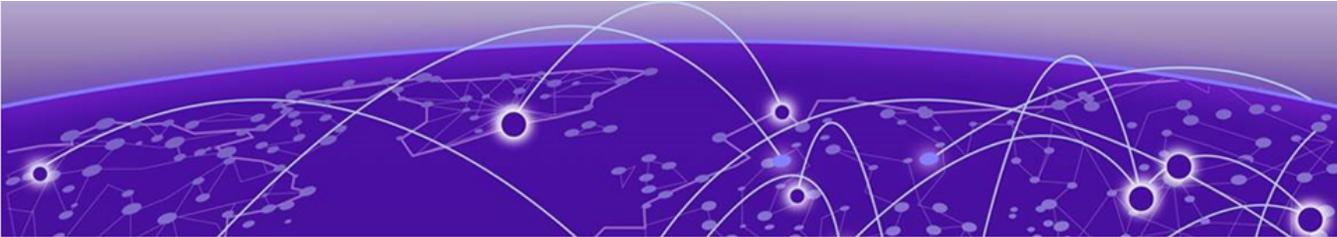


What's New in this Document

The following table describes changes to this guide for the Extreme 9920 software, release 21.1.1.0.

Table 4: Summary of changes

Description	Topic
Revised lists of deviations	<ul style="list-style-type: none">• ACL Module Support on page 33• Interfaces Module Support on page 35• Network Instance Module Support on page 35• Platform Module Support on page 37• System Module Support on page 39
Revised trees	<ul style="list-style-type: none">• Extreme YANG Tree on page 42• Standard OpenConfig YANG Tree on page 9



Standard OpenConfig YANG

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

[ACL Module Support on page 33](#)

[Interfaces Module Support on page 35](#)

[Network Instance Module Support on page 35](#)

[Platform Module Support on page 37](#)

[System Module Support on page 39](#)

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

Standard OpenConfig YANG Tree

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

```
module: openconfig-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? oc-ni-types: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? oc-ni-types: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-discarded-pkts?  oc-yang:counter64
+--ro out-pkts?      oc-yang:counter64
+--ro out-octets?    oc-yang:counter64
+--ro out-error-pkts?  oc-yang:counter64
+--ro out-forwarded-pkts?  oc-yang:counter64
+--ro out-forwarded-octets?  oc-yang:counter64
+--ro out-discarded-pkts?  oc-yang:counter64
augment /oc-if:interfaces/oc-if:interface/oc-if:subinterfaces/oc-if:subinterface:
+--rw ipv6
+--rw addresses
| +--rw address* [ip]
|   +--rw ip      -> ../config/ip
|   +--rw config
|   | +--rw ip?      oc-inet:ipv6-address
|   | +--rw prefix-length  uint8
|   +--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-discarded-pkts? oc-yang:counter64
|   +--ro out-pkts?       oc-yang:counter64
|   +--ro out-octets?     oc-yang:counter64
|   +--ro out-error-pkts? oc-yang:counter64
|   +--ro out-forwarded-pkts? oc-yang:counter64
|   +--ro out-forwarded-octets? oc-yang:counter64
|   +--ro out-discarded-pkts? oc-yang:counter64
+--rw oc-ip-ext:autoconf
  +--rw oc-ip-ext:config
    | +--rw oc-ip-ext:create-global-addresses?  boolean

```

```

    | +--rw oc-ip-ext:create-temporary-addresses?    boolean
    | +--rw oc-ip-ext:temporary-valid-lifetime?    uint32
    | +--rw oc-ip-ext:temporary-preferred-lifetime? uint32
    +--ro oc-ip-ext:state
      +--ro oc-ip-ext:create-global-addresses?    boolean
      +--ro oc-ip-ext:create-temporary-addresses? boolean
      +--ro oc-ip-ext:temporary-valid-lifetime?    uint32
      +--ro oc-ip-ext:temporary-preferred-lifetime? uint32
module: openconfig-lldp
+--rw lldp
  +--rw config
    | +--rw enabled?                               boolean
    | +--rw hello-timer?                          uint64
    | +--rw suppress-tlv-advertisement*           identityref
    | +--rw system-name?                          string
    | +--rw system-description?                   string
    | +--rw chassis-id?                          string
    | +--rw chassis-id-type?                      oc-lldp-types:chassis-id-type
    | +--rw extr-lldp-ext:holdtime?               uint16
    | +--rw extr-lldp-ext:transmit?              boolean
    | +--rw extr-lldp-ext:receive?               boolean
  +--ro state
    | +--ro enabled?                              boolean
    | +--ro hello-timer?                         uint64
    | +--ro suppress-tlv-advertisement*          identityref
    | +--ro system-name?                        string
    | +--ro system-description?                 string
    | +--ro chassis-id?                         string
    | +--ro chassis-id-type?                    oc-lldp-types:chassis-id-type
    | +--ro counters
    | | +--ro frame-in?                          yang:counter64
    | | +--ro frame-out?                        yang:counter64
    | | +--ro frame-error-in?                  yang:counter64
    | | +--ro frame-discard?                   yang:counter64
    | | +--ro tlv-discard?                     yang:counter64
    | | +--ro tlv-unknown?                    yang:counter64
    | | +--ro last-clear?                      yang:date-and-time
    | | +--ro tlv-accepted?                    yang:counter64
    | | +--ro entries-aged-out?                yang:counter64
    | +--ro extr-lldp-ext:holdtime?             uint16
    | +--ro extr-lldp-ext:transmit?            boolean
    | +--ro extr-lldp-ext:receive?             boolean
  +--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 frame-error-in?             yang:counter64
        | | +--ro frame-discard?              yang:counter64
        | | +--ro tlv-discard?                yang:counter64
        | | +--ro tlv-unknown?                yang:counter64
        | | +--ro last-clear?                 yang:date-and-time
        | | +--ro frame-error-out?            yang:counter64
        | +--ro extr-lldp-ext:transmit?        boolean
        | +--ro extr-lldp-ext:receive?        boolean

```

```

+--ro neighbors
  +--ro neighbor* [id]
    +--ro id          -> ../state/id
    +--ro config
    +--ro state
      | +--ro system-name?          string
      | +--ro system-description?  string
      | +--ro chassis-id?          string
      | +--ro chassis-id-type?     oc-lldp-types:chassis-id-type
      | +--ro id?                  string
      | +--ro age?                  uint64
      | +--ro last-update?         int64
      | +--ro ttl?                  uint16
      | +--ro port-id?             string
      | +--ro port-id-type?        oc-lldp-types:port-id-type
      | +--ro port-description?    string
      | +--ro management-address?  string
      | +--ro management-address-type? string
    +--ro custom-tlvs
      | +--ro tlv* [type oui oui-subtype]
      |   +--ro type          -> ../state/type
      |   +--ro oui           -> ../state/oui
      |   +--ro oui-subtype  -> ../state/oui-subtype
      |   +--ro config
      |   +--ro state
      |     +--ro type?        int32
      |     +--ro oui?         string
      |     +--ro oui-subtype? string
      |     +--ro value?      binary
    +--ro 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?               rx-machine-state
  +--ro extr-lacp-ext:rx-time?                 uint32
  +--ro extr-lacp-ext:tx-machine?              tx-machine-state
  +--ro extr-lacp-ext:mux-machine?             mux-machine-state
  +--ro extr-lacp-ext:mux-reason?              string
  +--ro extr-lacp-ext:actor-churn-machine?     churn-machine-
state
  +--ro extr-lacp-ext:partner-churn-machine?   churn-machine-
state
  +--ro extr-lacp-ext:actor-churn-count?       oc-yang:counter64
  +--ro extr-lacp-ext:partner-churn-count?     oc-yang:counter64
  +--ro extr-lacp-ext:actor-sync-transition-count? oc-yang:counter64
  +--ro extr-lacp-ext:partner-sync-transition-count? oc-yang:counter64
  +--ro extr-lacp-ext:actor-change-count?      oc-yang:counter64
  +--ro extr-lacp-ext:partner-change-count?    oc-yang:counter64
  +--ro extr-lacp-ext:actor-cds-churn-machine? churn-machine-
state
  +--ro extr-lacp-ext:partner-cds-churn-machine? churn-machine-
state
  +--ro extr-lacp-ext:actor-cds-churn-count?   oc-yang:counter64
  +--ro extr-lacp-ext:partner-cds-churn-count? oc-yang:counter64
module: openconfig-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:ieeefloat32
|     +--ro oc-platform-psu:input-current? oc-types:ieeefloat32
|     +--ro oc-platform-psu:input-voltage? oc-types:ieeefloat32
|     +--ro oc-platform-psu:output-current? oc-types:ieeefloat32
|     +--ro oc-platform-psu:output-voltage? oc-types:ieeefloat32
|     +--ro oc-platform-psu:output-power?  oc-types:ieeefloat32
+--rw fan
|   +--rw config
|   +--ro state
|     +--ro oc-fan:speed?  uint32
+--rw fabric
|   +--rw config
|   +--ro state
+--rw storage
|   +--rw config
|   +--ro state
+--rw cpu
|   +--rw config
|   +--ro state
|   +--rw oc-cpu:utilization
|     +--ro oc-cpu:state
|       +--ro oc-cpu:instant?  oc-types:percentage
|       +--ro oc-cpu:avg?      oc-types:percentage
|       +--ro oc-cpu:min?      oc-types:percentage
|       +--ro oc-cpu:max?      oc-types:percentage
|       +--ro oc-cpu:interval? oc-types:stat-interval
|       +--ro oc-cpu:min-time? oc-types:timeticks64
|       +--ro oc-cpu:max-time? oc-types:timeticks64
+--rw integrated-circuit
|   +--rw config
|   +--ro state
+--rw backplane
|   +--rw config
|   +--ro state
+--rw software-module
|   +--rw config
|   +--ro state

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

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
        +--rw 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
| | | | | | | +--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?          uint16
| | | | | +--rw oc-ip:dhcp-client?  boolean
| | | | +--ro oc-ip:state
| | | | | +--ro oc-ip:enabled?      boolean
| | | | | +--ro oc-ip:mtu?          uint16
| | | | | +--ro oc-ip:dhcp-client?  boolean
| | | | +--ro oc-ip:counters
| | | | | +--ro oc-ip:in-pkts?      oc-yang:counter64
| | | | | +--ro oc-ip:in-octets?    oc-yang:counter64
| | | | | +--ro oc-ip:in-error-pkts? oc-yang:counter64
| | | | | +--ro oc-ip:in-forwarded-pkts? oc-yang:counter64
| | | | | +--ro oc-ip:in-forwarded-octets? oc-yang:counter64
| | | | | +--ro oc-ip:in-discarded-pkts? oc-yang:counter64
| | | | | +--ro oc-ip:out-pkts?     oc-yang:counter64
| | | | | +--ro oc-ip:out-octets?   oc-yang:counter64
| | | | | +--ro oc-ip:out-error-pkts? oc-yang:counter64

```

```

|         +---ro oc-ip:out-forwarded-pkts?      oc-yang:counter64
|         +---ro oc-ip:out-forwarded-octets?   oc-yang:counter64
|         +---ro oc-ip:out-discarded-pkts?     oc-yang:counter64
+---rw oc-ip:ipv6
+---rw oc-ip:addresses
|   +---rw oc-ip:address* [ip]
|     +---rw oc-ip:ip      -> ../config/ip
|     +---rw oc-ip:config
|       | +---rw oc-ip:ip?      oc-inet:ipv6-address
|       | +---rw oc-ip:prefix-length  uint8
|       +---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
|             | +---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
|             | +---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?       oc-inet:host
|   |   |   |   +--rw source-address? oc-inet:ip-address
|   |   |   |   +--rw remote-port?  oc-inet:port-number
|   |   |   |   +--rw extr-system-logging-ext:transport? syslog-remote-server-transport
|   |   |   |   +--rw extr-system-logging-ext:secure-forwarding? syslog-remote-server-secure-forwarding
|   |   |   |   +--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 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 input
|       |   +--rw config
|       |   +--ro state
|       |   +--rw classifiers
|       |   |   +--rw classifier* [type]
|       |   |   |   +--rw type      -> ../config/type
|       |   |   |   +--rw config
|       |   |   |   |   +--rw name?  -> ../../../../../../../../../../classifiers/classifier/
config/name
|       |   |   |   |   +--rw type?  enumeration
|       |   |   |   |   +--ro state
|       |   |   |   |   +--ro name?  -> ../../../../../../../../../../classifiers/classifier/
config/name
|       |   |   |   |   |   +--ro type?  enumeration
|       |   |   |   |   +--rw terms
|       |   |   |   |   |   +--rw term* [id]
|       |   |   |   |   |   |   +--rw id      -> ../config/id
|       |   |   |   |   |   |   +--rw config
|       |   |   |   |   |   |   |   +--rw id?  -> ../../../../../../../../../../classifiers/
classifier[name=current()]/../../../../config/name]/terms/term/config/id
|       |   |   |   |   |   |   +--ro state
|       |   |   |   |   |   |   |   +--ro id?
classifiers/classifier[name=current()]/../../../../config/name]/terms/term/config/id
|       |   |   |   |   |   |   |   +--ro matched-packets?  oc-yang:counter64
|       |   |   |   |   |   |   |   +--ro matched-octets?   oc-yang:counter64
|       |   |   |   |   +--rw queues
|       |   |   |   |   |   +--rw queue* [name]
|       |   |   |   |   |   |   +--rw name      -> ../config/name
|       |   |   |   |   |   |   +--rw config
|       |   |   |   |   |   |   |   +--rw name?  string
|       |   |   |   |   |   |   +--ro state
|       |   |   |   |   |   |   |   +--ro name?
|       |   |   |   |   |   |   |   |   +--ro max-queue-len?  oc-yang:counter64
|       |   |   |   |   |   |   |   |   +--ro avg-queue-len?   oc-yang:counter64
|       |   |   |   |   |   |   |   |   +--ro transmit-pkts?   oc-yang:counter64
|       |   |   |   |   |   |   |   |   +--ro transmit-octets? oc-yang:counter64
|       |   |   |   |   |   |   |   |   +--ro dropped-pkts?    oc-yang:counter64
|       |   |   |   |   |   +--rw scheduler-policy
|       |   |   |   |   |   |   +--rw config
|       |   |   |   |   |   |   |   +--rw name?  -> ../../../../../../../../../../scheduler-policies/scheduler-
policy/config/name
|       |   |   |   |   |   |   |   +--ro state
|       |   |   |   |   |   |   |   |   +--ro name?  -> ../../../../../../../../../../scheduler-policies/scheduler-
policy/config/name
|       |   |   |   |   |   +--ro schedulers
|       |   |   |   |   |   |   +--ro scheduler* [sequence]
|       |   |   |   |   |   |   |   +--ro sequence  -> ../state/sequence
|       |   |   |   |   |   |   |   +--ro state
|       |   |   |   |   |   |   |   |   +--ro sequence?
policies/scheduler-policy[name=current()]/../../../../config/name]/schedulers/scheduler/
config/sequence
|       |   |   |   |   |   |   |   |   +--ro conforming-pkts?  oc-yang:counter64
|       |   |   |   |   |   |   |   |   +--ro conforming-octets? oc-yang:counter64
|       |   |   |   |   |   |   |   |   +--ro exceeding-pkts?   oc-yang:counter64
|       |   |   |   |   |   |   |   |   +--ro exceeding-octets? oc-yang:counter64
|       |   |   |   |   |   |   |   |   +--ro violating-pkts?   oc-yang:counter64
|       |   |   |   |   |   |   |   |   +--ro violating-octets? oc-yang:counter64
|       |   |   |   |   |   +--rw virtual-output-queues
|       |   |   |   |   |   |   +--rw voq-interface* [name]
|       |   |   |   |   |   |   |   +--rw name      -> ../config/name
|       |   |   |   |   |   |   |   +--rw config
|       |   |   |   |   |   |   |   |   +--rw name?  string
|       |   |   |   |   |   |   |   +--ro state
|       |   |   |   |   |   |   |   |   +--ro name?  string

```

```

|         |         +---rw queues
|         |         +---rw queue* [name]
|         |         +---rw name      -> ../config/name
|         |         +---rw config
|         |         |   +---rw name?   string
|         |         +---ro state
|         |         +---ro name?      string
|         |         +---ro max-queue-len?  oc-yang:counter64
|         |         +---ro avg-queue-len?  oc-yang:counter64
|         |         +---ro transmit-pkts?  oc-yang:counter64
|         |         +---ro transmit-octets? oc-yang:counter64
|         |         +---ro dropped-pkts?   oc-yang:counter64
|     +---rw output
|         +---rw config
|         +---ro state
|         +---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 classifiers
|         |   +---rw classifier* [type]
|         |   +---rw type      -> ../config/type
|         |   +---rw config
|         |   |   +---rw name?    -> ../../../../../../../../../../classifiers/classifier/
config/name
|         |   |   +---rw type?   enumeration
|         |   +---ro state
|         |   |   +---ro name?    -> ../../../../../../../../../../classifiers/classifier/
config/name
|         |   |   +---ro type?   enumeration
|         |   +---rw terms
|         |   +---rw term* [id]
|         |   +---rw id        -> ../config/id
|         |   +---rw config
|         |   |   +---rw id?     -> ../../../../../../../../../../classifiers/
classifier[name=current()/../../../../config/name]/terms/term/config/id
|         |   +---ro state
|         |   +---ro id?       -> ../../../../../../../../../../classifiers/classifier[name=current()/../../../../config/name]/terms/term/config/id
|         |   +---ro matched-packets?  oc-yang:counter64
|         |   +---ro matched-octets?   oc-yang:counter64
|     +---rw queues
|         +---rw queue* [name]
|         +---rw name      -> ../config/name
|         +---rw config
|         |   +---rw name?   string
|         +---ro state
|         +---ro name?      string
|         +---ro max-queue-len?  oc-yang:counter64
|         +---ro avg-queue-len?  oc-yang:counter64
|         +---ro transmit-pkts?  oc-yang:counter64
|         +---ro transmit-octets? oc-yang:counter64
|         +---ro dropped-pkts?   oc-yang:counter64
|     +---rw scheduler-policy
|         +---rw config
|         |   +---rw name?    -> ../../../../../../../../../../scheduler-policies/scheduler-
policy/config/name
|         +---ro state
|         |   +---ro name?    -> ../../../../../../../../../../scheduler-policies/scheduler-

```

```

policy/config/name
|
|   +--ro schedulers
|   |   +--ro scheduler* [sequence]
|   |   |   +--ro sequence -> ../state/sequence
|   |   |   +--ro state
|   |   |   |   +--ro sequence? -> ../../../../../../../../../../scheduler-
policies/scheduler-policy[name=current()../../../../config/name]/schedulers/scheduler/
config/sequence
|   |   |   |   +--ro conforming-pkts? oc-yang:counter64
|   |   |   |   +--ro conforming-octets? oc-yang:counter64
|   |   |   |   +--ro exceeding-pkts? oc-yang:counter64
|   |   |   |   +--ro exceeding-octets? oc-yang:counter64
|   |   |   |   +--ro violating-pkts? oc-yang:counter64
|   |   |   |   +--ro violating-octets? oc-yang:counter64
|   |   +--rw classifiers
|   |   |   +--rw classifier* [name]
|   |   |   |   +--rw name -> ../config/name
|   |   |   |   +--rw config
|   |   |   |   |   +--rw name? string
|   |   |   |   |   +--rw type? enumeration
|   |   |   |   |   +--ro state
|   |   |   |   |   |   +--ro name? string
|   |   |   |   |   |   +--ro type? enumeration
|   |   |   |   +--rw terms
|   |   |   |   |   +--rw term* [id]
|   |   |   |   |   |   +--rw id -> ../config/id
|   |   |   |   |   |   +--rw config
|   |   |   |   |   |   |   +--rw id? string
|   |   |   |   |   |   +--ro state
|   |   |   |   |   |   |   +--ro id? string
|   |   |   |   |   +--rw conditions
|   |   |   |   |   |   +--rw l2
|   |   |   |   |   |   |   +--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 ethertype? oc-pkt-match-types:ethertype-type
|   |   |   |   |   |   |   |   +--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 ethertype? oc-pkt-match-types:ethertype-type
|   |   |   |   |   |   +--rw ipv4
|   |   |   |   |   |   |   +--rw config
|   |   |   |   |   |   |   |   +--rw source-address? oc-inet:ipv4-prefix
|   |   |   |   |   |   |   |   +--rw destination-address? oc-inet:ipv4-prefix
|   |   |   |   |   |   |   |   +--rw dscp? oc-inet:dscp
|   |   |   |   |   |   |   |   +--rw dscp-set* oc-inet:dscp
|   |   |   |   |   |   |   |   +--rw protocol? oc-pkt-match-types:ip-protocol-type
|   |   |   |   |   |   |   |   +--ro hop-limit? uint8
|   |   |   |   |   |   |   |   +--ro state
|   |   |   |   |   |   |   |   |   +--ro source-address? oc-inet:ipv4-prefix
|   |   |   |   |   |   |   |   |   +--ro destination-address? oc-inet:ipv4-prefix
|   |   |   |   |   |   |   |   |   +--ro dscp? oc-inet:dscp
|   |   |   |   |   |   |   |   |   +--ro dscp-set* oc-inet:dscp
|   |   |   |   |   |   |   |   |   +--ro protocol? oc-pkt-match-types:ip-protocol-type
|   |   |   |   |   |   |   |   |   +--ro hop-limit? uint8
|   |   |   |   |   |   +--rw ipv6
|   |   |   |   |   |   |   +--rw config
|   |   |   |   |   |   |   |   +--rw source-address? oc-inet:ipv6-prefix
|   |   |   |   |   |   |   |   +--rw source-flow-label? oc-inet:ipv6-flow-label
|   |   |   |   |   |   |   |   +--rw destination-address? oc-inet:ipv6-prefix

```

```

| | | | +--rw destination-flow-label? oc-inet:ipv6-flow-label
| | | | +--rw dscp? oc-inet:dscp
| | | | +--rw dscp-set* oc-inet:dscp
| | | | +--rw protocol? oc-pkt-match-types:ip-protocol-
type
| | | | +--rw hop-limit? uint8
| | | | +--ro state
| | | | +--ro source-address? oc-inet:ipv6-prefix
| | | | +--ro source-flow-label? oc-inet:ipv6-flow-label
| | | | +--ro destination-address? oc-inet:ipv6-prefix
| | | | +--ro destination-flow-label? oc-inet:ipv6-flow-label
| | | | +--ro dscp? oc-inet:dscp
| | | | +--ro dscp-set* oc-inet:dscp
| | | | +--ro protocol? oc-pkt-match-types:ip-protocol-
type
| | | | +--ro hop-limit? uint8
| | | +--rw transport
| | | | +--rw config
| | | | | +--rw source-port? oc-pkt-match-types:port-num-range
| | | | | +--rw destination-port? oc-pkt-match-types:port-num-range
| | | | | +--rw tcp-flags* identityref
| | | | | +--ro state
| | | | | +--ro source-port? oc-pkt-match-types:port-num-range
| | | | | +--ro destination-port? oc-pkt-match-types:port-num-range
| | | | | +--ro tcp-flags* identityref
| | | +--rw mpls
| | | | +--rw config
| | | | | +--rw traffic-class? oc-mpls:mpls-tc
| | | | | +--rw start-label-value? oc-mpls:mpls-label
| | | | | +--rw end-label-value? oc-mpls:mpls-label
| | | | | +--rw ttl-value? uint8
| | | | | +--ro state
| | | | | +--ro traffic-class? oc-mpls:mpls-tc
| | | | | +--ro start-label-value? oc-mpls:mpls-label
| | | | | +--ro end-label-value? oc-mpls:mpls-label
| | | | | +--ro ttl-value? uint8
| | | +--rw actions
| | | | +--rw config
| | | | | +--rw target-group? -> ../../../../../../../../../../forwarding-groups/
forwarding-group/config/name
| | | | | +--ro state
| | | | | +--ro target-group? -> ../../../../../../../../../../forwarding-groups/
forwarding-group/config/name
| | | | +--rw remark
| | | | | +--rw config
| | | | | | +--rw set-dscp? uint8
| | | | | | +--rw set-dot1p? uint8
| | | | | | +--rw set-mpls-tc? uint8
| | | | | +--ro state
| | | | | +--ro set-dscp? uint8
| | | | | +--ro set-dot1p? uint8
| | | | | +--ro set-mpls-tc? uint8
+--rw forwarding-groups
| +--rw forwarding-group* [name]
| | +--rw name -> ../config/name
| | +--rw config
| | | +--rw name? string
| | | +--rw fabric-priority? uint8
| | | +--rw output-queue? -> ../../../../../../queues/queue/config/name
| | +--ro state
| | | +--ro name? string
| | | +--ro fabric-priority? uint8
| | | +--ro output-queue? -> ../../../../../../queues/queue/config/name
+--rw queues

```

```

|   +--rw queue* [name]
|     +--rw name       -> ../config/name
|     +--rw config
|       | +--rw name?      string
|       | +--rw queue-type? identityref
|       +--ro state
|         | +--ro name?      string
|         | +--ro queue-type? identityref
|       +--rw red
|         | +--rw config
|         | | +--rw minth?   uint64
|         | | +--rw maxth?   uint64
|         | +--ro state
|         |   +--ro minth?   uint64
|         |   +--ro maxth?   uint64
|       +--rw wred
|         +--rw config
|         +--ro state
+--rw scheduler-policies
  +--rw scheduler-policy* [name]
    +--rw name       -> ../config/name
    +--rw config
    | +--rw name?    string
    +--ro state
    | +--ro name?    string
    +--rw schedulers
      +--rw scheduler* [sequence]
        +--rw sequence -> ../config/sequence
        +--rw config
        | +--rw sequence? uint32
        | +--rw type?     identityref
        | +--rw priority? enumeration
        +--ro state
        | +--ro sequence? uint32
        | +--ro type?     identityref
        | +--ro priority? enumeration
        +--rw inputs
          | +--rw input* [id]
          |   +--rw id       -> ../config/id
          |   +--rw config
          |     | +--rw id?      string
          |     | +--rw input-type? enumeration
          |     | +--rw queue?   -> ../../../../../../../../../../queues/queue/name
          |     | +--rw weight?  uint64
          |     +--ro state
          |       +--ro id?      string
          |       +--ro input-type? enumeration
          |       +--ro queue?   -> ../../../../../../../../../../queues/queue/name
          |       +--ro weight?  uint64
          +--rw output
            | +--rw config
            | | +--rw output-type? enumeration
            | | +--rw child-scheduler? -> ../../../../../../../../../../scheduler-
policies/scheduler-policy/config/name
            | | +--rw output-fwd-group? -> ../../../../../../../../../../forwarding-
groups/forwarding-group/config/name
            | +--ro state
            |   +--ro output-type? enumeration
            |   +--ro child-scheduler? -> ../../../../../../../../../../scheduler-
policies/scheduler-policy/config/name
            |   +--ro output-fwd-group? -> ../../../../../../../../../../forwarding-
groups/forwarding-group/config/name
            +--rw one-rate-two-color
            | +--rw config

```

```

| | +--rw cir?                               uint64
| | +--rw cir-pct?                           oc-types:percentage
| | +--rw cir-pct-remaining?                 oc-types:percentage
| | +--rw bc?                                uint32
| | +--rw queuing-behavior?                  oc-qos-types:queue-behavior
| | +--rw max-queue-depth-bytes?             uint32
| | +--rw max-queue-depth-packets?           uint32
| | +--rw max-queue-depth-percent?           oc-types:percentage
+--ro state
| +--ro cir?                                 uint64
| | +--ro cir-pct?                           oc-types:percentage
| | +--ro cir-pct-remaining?                 oc-types:percentage
| | +--ro bc?                                uint32
| | +--ro queuing-behavior?                  oc-qos-types:queue-behavior
| | +--ro max-queue-depth-bytes?             uint32
| | +--ro max-queue-depth-packets?           uint32
| | +--ro max-queue-depth-percent?           oc-types:percentage
+--rw conform-action
| | +--rw config
| | | +--rw set-dscp?                         uint8
| | | +--rw set-dot1p?                       uint8
| | | +--rw set-mpls-tc?                     uint8
| | +--ro state
| | | +--ro set-dscp?                         uint8
| | | +--ro set-dot1p?                       uint8
| | | +--ro set-mpls-tc?                     uint8
+--rw exceed-action
| +--rw config
| | +--rw set-dscp?                         uint8
| | +--rw set-dot1p?                       uint8
| | +--rw set-mpls-tc?                     uint8
| | +--rw drop?                             boolean
| +--ro state
| | +--ro set-dscp?                         uint8
| | +--ro set-dot1p?                       uint8
| | +--ro set-mpls-tc?                     uint8
| | +--ro drop?                             boolean
+--rw two-rate-three-color
+--rw config
| +--rw cir?                                 uint64
| +--rw cir-pct?                             oc-types:percentage
| +--rw cir-pct-remaining?                   oc-types:percentage
| +--rw pir?                                 uint64
| +--rw pir-pct?                             oc-types:percentage
| +--rw pir-pct-remaining?                   oc-types:percentage
| +--rw bc?                                  uint32
| +--rw be?                                  uint32
+--ro state
| +--ro cir?                                 uint64
| +--ro cir-pct?                             oc-types:percentage
| +--ro cir-pct-remaining?                   oc-types:percentage
| +--ro pir?                                 uint64
| +--ro pir-pct?                             oc-types:percentage
| +--ro pir-pct-remaining?                   oc-types:percentage
| +--ro bc?                                  uint32
| +--ro be?                                  uint32
+--rw conform-action
| +--rw config
| | +--rw set-dscp?                         uint8
| | +--rw set-dot1p?                       uint8
| | +--rw set-mpls-tc?                     uint8
| +--ro state
| | +--ro set-dscp?                         uint8
| | +--ro set-dot1p?                       uint8

```

```

|      +--ro set-mpls-tc?   uint8
+--rw exceed-action
|  +--rw config
|  |  +--rw set-dscp?      uint8
|  |  +--rw set-dot1p?    uint8
|  |  +--rw set-mpls-tc?  uint8
|  |  +--rw drop?         boolean
|  +--ro state
|      +--ro set-dscp?     uint8
|      +--ro set-dot1p?   uint8
|      +--ro set-mpls-tc? uint8
|      +--ro drop?        boolean
+--rw violate-action
  +--rw config
  |  +--rw set-dscp?      uint8
  |  +--rw set-dot1p?    uint8
  |  +--rw set-mpls-tc?  uint8
  |  +--rw drop?         boolean
  +--ro state
      +--ro set-dscp?     uint8
      +--ro set-dot1p?   uint8
      +--ro set-mpls-tc? uint8
      +--ro drop?        boolean

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

```

ACL Module Support

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

```

module extreme-openconfig-acl-deviations {

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

  prefix "extr-oc-acl-dev";

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

  organization "Extreme Networks, Inc.";

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

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

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

```

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

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

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

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

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

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

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

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

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

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

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

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

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

Interfaces Module Support

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

```
module extreme-openconfig-interfaces-deviations {  
    namespace  
        "http://extremenetworks.com/yang/openconfig-interfaces-deviations";  
  
    prefix "extr-oc-int-dev";  
  
    import openconfig-interfaces { prefix "oc-if"; }  
  
    organization "Extreme Networks, Inc.";  
  
    contact  
        "Extreme Networks, Inc.  
        www.extremenetworks.com";  
  
    description  
        "This module describes the deviations from openconfig-interfaces v2.4.3";  
  
    revision "2021-06-04" {  
        description  
            "Initial version.";  
        reference "1.0.0";  
    }  
  
    deviation /oc-if:interfaces/oc-if:interface/oc-if:state/oc-if:logical {  
        deviate not-supported;  
    }  
}
```

Network Instance Module Support

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

```
module extreme-openconfig-network-instance-deviations {  
    namespace  
        "http://extremenetworks.com/yang/openconfig-network-instance-deviations";  
  
    prefix "extr-oc-net-dev";  
  
    import openconfig-network-instance { prefix "oc-net"; }  
  
    organization "Extreme Networks, Inc.";  
  
    contact  
        "Extreme Networks, Inc.  
        www.extremenetworks.com";  
  
    description  
        "This module describes the deviations from openconfig-network-instance v0.10.2";  
  
    revision "2021-06-04" {  
        description  
            "Initial version.";  
        reference "1.0.0";  
    }  
}
```

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

```

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

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

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

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

```

Platform Module Support

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

```

module extreme-openconfig-platform-deviations {

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

    prefix "extr-oc-plat-dev";

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

    organization "Extreme Networks, Inc.";

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

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

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

    deviation /oc-platform:components/oc-platform:component/oc-platform:state/oc-
platform:allocated-power {
        deviate not-supported;
    }

    deviation /oc-platform:components/oc-platform:component/oc-platform:state/oc-
platform:description {
        deviate not-supported;
    }

    deviation /oc-platform:components/oc-platform:component/oc-platform:state/oc-
platform:empty {
        deviate not-supported;
    }
}

```

```

    }
    deviation /oc-platform:components/oc-platform:component/oc-platform:state/oc-
alarms:equipment-failure {
        deviate not-supported;
    }
    deviation /oc-platform:components/oc-platform:component/oc-platform:state/oc-
alarms:equipment-mismatch {
        deviate not-supported;
    }
    deviation /oc-platform:components/oc-platform:component/oc-platform:state/oc-
platform:firmware-version {
        deviate not-supported;
    }
    deviation /oc-platform:components/oc-platform:component/oc-platform:state/oc-
platform:hardware-version {
        deviate not-supported;
    }
    deviation /oc-platform:components/oc-platform:component/oc-platform:state/oc-
platform:memory {
        deviate not-supported;
    }
    deviation /oc-platform:components/oc-platform:component/oc-platform:state/oc-
platform:mfg-date {
        deviate not-supported;
    }
    deviation /oc-platform:components/oc-platform:component/oc-platform:state/oc-
platform:mfg-name {
        deviate not-supported;
    }
    deviation /oc-platform:components/oc-platform:component/oc-platform:state/oc-
platform:oper-status {
        deviate not-supported;
    }
    deviation /oc-platform:components/oc-platform:component/oc-platform:state/oc-
platform:parent {
        deviate not-supported;
    }
    deviation /oc-platform:components/oc-platform:component/oc-platform:state/oc-
platform:removable {
        deviate not-supported;
    }
    deviation /oc-platform:components/oc-platform:component/oc-platform:state/oc-
platform:serial-no {
        deviate not-supported;
    }
    deviation /oc-platform:components/oc-platform:component/oc-platform:state/oc-
platform:software-version {
        deviate not-supported;
    }
    deviation /oc-platform:components/oc-platform:component/oc-platform:state/oc-
platform:temperature {
        deviate not-supported;
    }
    deviation /oc-platform:components/oc-platform:component/oc-platform:state/oc-
platform:used-power {
        deviate not-supported;
    }
    deviation /oc-platform:components/oc-platform:component/oc-platform:subcomponents {
        deviate not-supported;
    }
    deviation /oc-platform:components/oc-platform:component/oc-platform:backplane {
        deviate not-supported;
    }
    deviation /oc-platform:components/oc-platform:component/oc-platform:chassis {

```

```

        deviate not-supported;
    }
    deviation /oc-platform:components/oc-platform:component/oc-platform:fabric {
        deviate not-supported;
    }
    deviation /oc-platform:components/oc-platform:component/oc-platform:integrated-circuit
    {
        deviate not-supported;
    }
    deviation /oc-platform:components/oc-platform:component/oc-platform:storage {
        deviate not-supported;
    }
}

```

System Module Support

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

```

module extreme-openconfig-system-deviations {

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

    prefix "extr-oc-sys-dev";

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

    organization "Extreme Networks, Inc.";

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

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

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

    deviation /oc-sys:system/oc-sys:alarms {
        deviate not-supported;
    }
    deviation /oc-sys:system/oc-sys:cpus {
        deviate not-supported;
    }
    deviation /oc-sys:system/oc-sys:memory {
        deviate not-supported;
    }
    deviation /oc-sys:system/oc-sys:processes {
        deviate not-supported;
    }
    deviation /oc-sys:system/oc-sys:dns/oc-sys:host-entries {
        deviate not-supported;
    }
    deviation /oc-sys:system/oc-sys:logging/oc-sys:console {
        deviate not-supported;
    }
    deviation /oc-sys:system/oc-sys:logging/oc-sys:remote-servers/oc-sys:remote-server/oc-

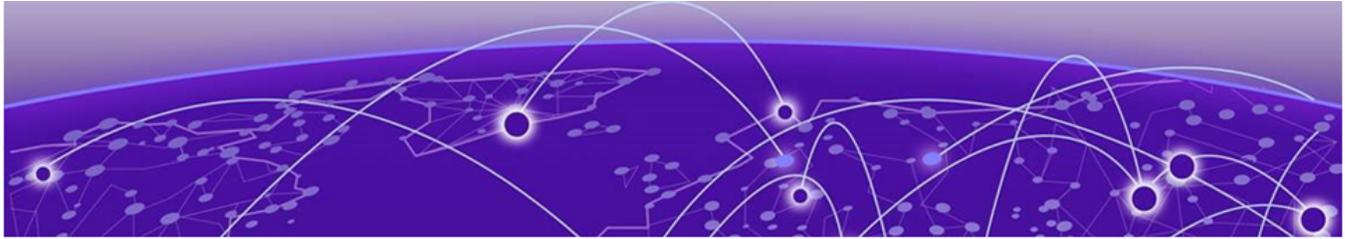
```

```

sys:selectors {
    deviate not-supported;
}
deviation /oc-sys:system/oc-sys:aaa/oc-sys:config {
    deviate not-supported;
}
deviation /oc-sys:system/oc-sys:aaa/oc-sys:state {
    deviate not-supported;
}
deviation /oc-sys:system/oc-sys:aaa/oc-sys:authentication/oc-sys:admin-user {
    deviate not-supported;
}
deviation /oc-sys:system/oc-sys:aaa/oc-sys:authentication/oc-sys:users/oc-sys:user/oc-
sys:config/oc-sys:ssh-key {
    deviate not-supported;
}
deviation /oc-sys:system/oc-sys:aaa/oc-sys:authentication/oc-sys:users/oc-sys:user/oc-
sys:state/oc-sys:ssh-key {
    deviate not-supported;
}
deviation /oc-sys:system/oc-sys:aaa/oc-sys:authorization {
    deviate not-supported;
}
deviation /oc-sys:system/oc-sys:aaa/oc-sys:server-groups/oc-sys:server-group/oc-
sys:servers/oc-sys:server/oc-sys:config/oc-sys:timeout{
    deviate not-supported;
}
deviation /oc-sys:system/oc-sys:aaa/oc-sys:server-groups/oc-sys:server-group/oc-
sys:servers/oc-sys:server/oc-sys:state/oc-sys:timeout{
    deviate not-supported;
}
deviation /oc-sys:system/oc-sys:aaa/oc-sys:server-groups/oc-sys:server-group/oc-
sys:servers/oc-sys:server/oc-sys:state/oc-sys:connection-opens{
    deviate not-supported;
}
deviation /oc-sys:system/oc-sys:aaa/oc-sys:server-groups/oc-sys:server-group/oc-
sys:servers/oc-sys:server/oc-sys:state/oc-sys:connection-closes{
    deviate not-supported;
}
deviation /oc-sys:system/oc-sys:aaa/oc-sys:server-groups/oc-sys:server-group/oc-
sys:servers/oc-sys:server/oc-sys:state/oc-sys:connection-aborts{
    deviate not-supported;
}
deviation /oc-sys:system/oc-sys:aaa/oc-sys:server-groups/oc-sys:server-group/oc-
sys:servers/oc-sys:server/oc-sys:state/oc-sys:connection-failures{
    deviate not-supported;
}
deviation /oc-sys:system/oc-sys:aaa/oc-sys:server-groups/oc-sys:server-group/oc-
sys:servers/oc-sys:server/oc-sys:state/oc-sys:connection-timeouts{
    deviate not-supported;
}
deviation /oc-sys:system/oc-sys:aaa/oc-sys:server-groups/oc-sys:server-group/oc-
sys:servers/oc-sys:server/oc-sys:state/oc-sys:messages-sent{
    deviate not-supported;
}
deviation /oc-sys:system/oc-sys:aaa/oc-sys:server-groups/oc-sys:server-group/oc-
sys:servers/oc-sys:server/oc-sys:state/oc-sys:messages-received{
    deviate not-supported;
}
deviation /oc-sys:system/oc-sys:aaa/oc-sys:server-groups/oc-sys:server-group/oc-
sys:servers/oc-sys:server/oc-sys:state/oc-sys:errors-received{
    deviate not-supported;
}
deviation /oc-sys:system/oc-sys:aaa/oc-sys:server-groups/oc-sys:server-group/oc-

```

```
sys:servers/oc-sys:server/oc-sys:tacacs/oc-sys:config/oc-sys:source-address{
    deviate not-supported;
}
deviation /oc-sys:system/oc-sys:aaa/oc-sys:server-groups/oc-sys:server-group/oc-
sys:servers/oc-sys:server/oc-sys:tacacs/oc-sys:state/oc-sys:source-address{
    deviate not-supported;
}
deviation /oc-sys:system/oc-sys:aaa/oc-sys:server-groups/oc-sys:server-group/oc-
sys:servers/oc-sys:server/oc-sys:tacacs/oc-sys:config/oc-sys:port{
    deviate not-supported;
}
deviation /oc-sys:system/oc-sys:aaa/oc-sys:server-groups/oc-sys:server-group/oc-
sys:servers/oc-sys:server/oc-sys:tacacs/oc-sys:state/oc-sys:port{
    deviate not-supported;
}
deviation /oc-sys:system/oc-sys:aaa/oc-sys:server-groups/oc-sys:server-group/oc-
sys:servers/oc-sys:server/oc-sys:radius{
    deviate not-supported;
}
deviation /oc-sys:system/oc-sys:ssh-server{
    deviate not-supported;
}
deviation /oc-sys:system/oc-sys:telnet-server{
    deviate not-supported;
}
deviation /oc-sys:system/oc-sys:ntp/oc-sys:state/oc-sys:auth-mismatch{
    deviate not-supported;
}
deviation /oc-sys:system/oc-sys:ntp/oc-sys:servers/oc-sys:server/oc-sys:state/oc-
sys:stratum{
    deviate not-supported;
}
deviation /oc-sys:system/oc-sys:ntp/oc-sys:servers/oc-sys:server/oc-sys:state/oc-
sys:root-delay{
    deviate not-supported;
}
deviation /oc-sys:system/oc-sys:ntp/oc-sys:servers/oc-sys:server/oc-sys:state/oc-
sys:root-dispersion{
    deviate not-supported;
}
deviation /oc-sys:system/oc-sys:ntp/oc-sys:servers/oc-sys:server/oc-sys:state/oc-
sys:offset{
    deviate not-supported;
}
deviation /oc-sys:system/oc-sys:ntp/oc-sys:servers/oc-sys:server/oc-sys:state/oc-
sys:poll-interval{
    deviate not-supported;
}
}
```



Extreme YANG Tree

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

```
module: extreme-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 lag-load-balance-method?  aggregation-load-balance-method
  augment /oc-if:interfaces/oc-if:interface/oc-lag:aggregation/oc-lag:config:
    +--rw lag-load-balance-method?  aggregation-load-balance-method

module: extreme-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
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 igmp-type?             uint8
        +--ro igmp-group?            uint32
        +--ro esp-spi?               uint32

module: extreme-acl-mac-ext
  augment /oc-acl:acl/oc-acl:acl-sets/oc-acl:acl-set/oc-acl:acl-entries/oc-acl:acl-entry:
    +--rw npb-acl-mac
      +--rw config

```

```

| +--rw source-mac?          oc-yang:mac-address
| +--rw source-mac-mask?    oc-yang:mac-address
| +--rw destination-mac?    oc-yang:mac-address
| +--rw destination-mac-mask? oc-yang:mac-address
| +--rw pcp?                 uint8
| +--rw ethertype?          oc-pkt-match-types:ethertype-type
| +--rw network-id-type?    identityref
| +--rw network-id?         uint32
| +--rw length?             uint16
| +--rw vlan-tag?           uint16
+--ro state
  +--ro source-mac?          oc-yang:mac-address
  +--ro source-mac-mask?    oc-yang:mac-address
  +--ro destination-mac?    oc-yang:mac-address
  +--ro destination-mac-mask? oc-yang:mac-address
  +--ro pcp?                 uint8
  +--ro ethertype?          oc-pkt-match-types:ethertype-type
  +--ro network-id-type?    identityref
  +--ro network-id?         uint32
  +--ro length?             uint16
  +--ro vlan-tag?           uint16
module: extreme-egress-group
+--rw egress-groups
  +--rw egress-group* [name]
    +--rw name                -> ../config/name
    +--rw config
      | +--rw name?           string
      | +--rw description?   string
    +--ro state
      | +--ro name?          string
      | +--ro description?   string
      | +--ro packet-count?  uint64
      | +--ro byte-count?    uint64
    +--rw egress-objects
      +--rw egress-object* [name]
        +--rw name            -> ../config/name
        +--rw config
          | +--rw name?       extreme-egress:egress-ref
        +--ro state
          +--ro name?        extreme-egress:egress-ref
module: extreme-egress
+--rw egress-objects
  +--rw egress-object* [name]
    +--rw name                -> ../config/name
    +--rw config
      | +--rw name?          string
      | +--rw listener-policy? listener-policy:listener-policy-ref
      | +--rw encap?         tunnel-encap:tunnel-encap-ref
      | +--rw description?   string
    +--ro state
      | +--ro name?          string
      | +--ro listener-policy? listener-policy:listener-policy-ref
      | +--ro encap?         tunnel-encap:tunnel-encap-ref
      | +--ro description?   string
      | +--ro packet-count?  uint64
      | +--ro byte-count?    uint64
    +--rw interfaces
      +--rw interface* [precedence]
        +--rw precedence      -> ../config/precedence
        +--rw config
          | +--rw precedence? uint16
          | +--rw interface?  string
        +--ro state
          +--ro precedence?   uint16

```

```

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

```

```

        +--ro protocol?                oc-pkt-match-types:ip-protocol-type
        +--ro source-port?             oc-inet:port-number
        +--ro destination-port?       oc-inet:port-number
        +--ro mirror?                  mirror:mirror-ref

augment /oc-if:interfaces/oc-if:interface/oc-if:config:
  +--rw ingress-groups* [ingress-group]
    +--rw ingress-group      ingress-group-ref
module: extreme-listener-policy
  +--rw listener-policies
    +--rw listener-policy* [name]
      +--rw name                -> ../config/name
      +--rw config
        | +--rw name?   string
      +--ro state
        | +--ro name?   string
      +--rw listener-policy-instances
        +--rw listener-policy-instance* [sequence-id]
          +--rw sequence-id  -> ../config/sequence-id
          +--rw config
            | +--rw sequence-id?   uint32
            | +--rw permit-deny?   boolean
            | +--rw l2acl?         string
            | +--rw ipv4acl?       string
            | +--rw ipv6acl?       string
            | +--rw truncate?      uint16
            | +--rw strip-vn-tag?   boolean
            | +--rw strip-br-tag?   boolean
            | +--rw strip-vlan-tag? boolean
            | +--rw add-vlan-tag?   uint16
            | +--rw terminate?     boolean
            | +--rw terminate-outer? boolean
            | +--rw terminate-inner? boolean
            | +--rw description?   string
          +--rw state
            +--rw sequence-id?     uint32
            +--rw permit-deny?     boolean
            +--rw l2acl?           string
            +--rw ipv4acl?         string
            +--rw ipv6acl?         string
            +--rw truncate?        uint16
            +--rw strip-vn-tag?     boolean
            +--rw strip-br-tag?     boolean
            +--rw strip-vlan-tag?   boolean
            +--rw add-vlan-tag?     uint16
            +--rw terminate?       boolean
            +--rw terminate-outer?  boolean
            +--rw terminate-inner?  boolean
            +--rw description?     string
module: extreme-policy-statistics
  +--rw npb-policy-data-sets
    +--rw npb-policy-data-set* [owner]
      +--rw owner                -> ../config/owner
      +--rw config
        | +--rw owner?   identityref
      +--ro state
        | +--ro owner?   identityref
      +--rw policy-stats
        +--rw policy-stat* [sap]
          +--rw sap        -> ../config/sap
          +--rw config
            | +--rw sap?           uint16
            | +--rw sap-name?     string
            | +--rw policy?       string

```

```

+--ro state
| +--ro sap?      uint16
| +--ro sap-name? string
| +--ro policy?  string
+--rw ipv4
| +--rw acl-stats
|   +--rw acl-stat* [acl-name]
|     +--rw acl-name  -> ../config/acl-name
|     +--rw config
|       | +--rw acl-name?  string
|       +--ro state
|         +--ro acl-name?      string
|         +--ro acl-stats-entries
|           +--ro acl-stats-entry* [sequence-id]
|             +--ro sequence-id  -> ../config/sequence-id
|             +--ro config
|               | +--ro sequence-id?  uint32
|               +--ro state
|                 +--ro sequence-id?  uint32
|                 +--ro packet-count? uint64
|                 +--ro byte-count?   uint64
|                 +--ro packets-rate? uint64
|                 +--ro bits-rate?    uint64
+--rw ipv6
| +--rw acl-stats
|   +--rw acl-stat* [acl-name]
|     +--rw acl-name  -> ../config/acl-name
|     +--rw config
|       | +--rw acl-name?  string
|       +--ro state
|         +--ro acl-name?      string
|         +--ro acl-stats-entries
|           +--ro acl-stats-entry* [sequence-id]
|             +--ro sequence-id  -> ../config/sequence-id
|             +--ro config
|               | +--ro sequence-id?  uint32
|               +--ro state
|                 +--ro sequence-id?  uint32
|                 +--ro packet-count? uint64
|                 +--ro byte-count?   uint64
|                 +--ro packets-rate? uint64
|                 +--ro bits-rate?    uint64
+--rw mac
  +--rw acl-stats
    +--rw acl-stat* [acl-name]
      +--rw acl-name  -> ../config/acl-name
      +--rw config
        | +--rw acl-name?  string
        +--ro state
          +--ro acl-name?      string
          +--ro acl-stats-entries
            +--ro acl-stats-entry* [sequence-id]
              +--ro sequence-id  -> ../config/sequence-id
              +--ro config
                | +--ro sequence-id?  uint32
                +--ro state
                  +--ro sequence-id?  uint32
                  +--ro packet-count? uint64
                  +--ro byte-count?   uint64
                  +--ro packets-rate? uint64
                  +--ro bits-rate?    uint64

module: extreme-routemap
+--rw routemaps
  +--rw routemap* [name]

```

```

+--rw name                               -> ../config/name
+--rw config
| +--rw name?   string
+--ro state
| +--ro name?   string
+--rw routemap-instances
  +--rw routemap-instance* [sequence-id]
    +--rw sequence-id   -> ../config/sequence-id
    +--rw config
      | +--rw sequence-id?       uint32
      | +--rw permit-deny?      boolean
      | +--rw l2-acl?           string
      | +--rw ipv4-acl?         string
      | +--rw ipv6-acl?         string
      | +--rw egress-group?     eg-group:egress-group-ref
      | +--rw sfc-id?           uint32
      | +--rw description?      string
      | +--rw truncation-length? uint16
      | +--rw terminate?        boolean
      | +--rw scope-shift?      boolean
    +--ro state
      +--ro sequence-id?       uint32
      +--ro permit-deny?      boolean
      +--ro l2-acl?           string
      +--ro ipv4-acl?         string
      +--ro ipv6-acl?         string
      +--ro egress-group?     eg-group:egress-group-ref
      +--ro sfc-id?           uint32
      +--ro description?      string
      +--ro truncation-length? uint16
      +--ro terminate?        boolean
      +--ro scope-shift?      boolean
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 tunnel-type?          common-types:sap-trfc-type
| | +--rw tunnel-id?           uint32
| | +--rw mirror?              mirror:mirror-ref
| +--ro state
|   +--ro source-ip-addr?       oc-inet:ip-address
|   +--ro source-ip-mask?       oc-inet:ip-address
|   +--ro destination-ip-addr?  oc-inet:ip-address
|   +--ro destination-ip-mask?  oc-inet:ip-address
|   +--ro protocol?             oc-pkt-match-types:ip-protocol-type
|   +--ro source-port?          oc-inet:port-number
|   +--ro destination-port?     oc-inet:port-number
|   +--ro tunnel-type?          common-types:sap-trfc-type
|   +--ro tunnel-id?            uint32
|   +--ro mirror?               mirror:mirror-ref
|   +--ro hit-pkt-count?         uint64
|   +--ro hit-octet-count?       uint64
|   +--ro drop-pkt-count?        uint64
|   +--ro drop-octet-count?      uint64
+--rw network-sap
  +--rw config
  | +--rw tunnel-type?          common-types:sap-trfc-type
  | +--rw tunnel-id?            uint32
  +--ro state
  | +--ro tunnel-type?          common-types:sap-trfc-type
  | +--ro tunnel-id?            uint32
  | +--ro hit-pkt-count?        uint64
  | +--ro hit-octet-count?      uint64
module: extreme-sfcs
+--rw sfcs
  +--rw sfc* [name]
  | +--rw name                  -> ../config/name
  | +--rw config
  | | +--rw name?              string
  | | +--rw id?                uint32
  | | +--rw sfc-hopcnt?        uint8
  | +--ro state
  | | +--ro name?              string
  | | +--ro id?                uint32
  | | +--ro sfc-hopcnt?        uint8
  | | +--ro packet-count?      uint64
  | | +--ro byte-count?        uint64
  | +--rw sf-refs
  | | +--rw sf-ref* [sf-name]
  | |   +--rw sf-name          -> ../config/sf-name
  | |   +--rw config
  | | | +--rw sf-name?         string
  | | | +--rw sfc-hop?         uint8
  | |   +--ro state
  | | | +--ro sf-name?         string
  | | | +--ro sfc-hop?         uint8
  | +--rw sf-paths
  | | +--rw sf-path* [sf-path-id]
  | |   +--rw sf-path-id       -> ../config/sf-path-id
  | |   +--rw config
  | | | +--rw sf-path-id?      uint32
  | |   +--ro state
  | | | +--ro sf-path-id?      uint32
  | |   +--rw sf-inst-refs
  | | | +--rw sf-inst-ref* [sf-inst-name]
  | | |   +--rw sf-inst-name   -> ../config/sf-inst-name
  | | |   +--rw config
  | | | | +--rw sf-inst-name?   string
  | | | | +--rw hop?            uint8

```

```

|           | +--rw sf-next-hop?          uint16
|           | +--rw sf-egr-lagport-name?  string
|           | +--rw sf-egr-lagportid?     uint32
|           | +--rw dsap-id?              uint16
|           | +--rw encap-name?           string
|           | +--rw precedence?           uint16
|           +--ro state
|               +--ro sf-inst-name?       string
|               +--ro hop?                 uint8
|               +--ro sf-next-hop?        uint16
|               +--ro sf-egr-lagport-name? string
|               +--ro sf-egr-lagportid?   uint32
|               +--ro dsap-id?            uint16
|               +--ro encap-name?         string
|               +--ro precedence?         uint16
+--rw sfc-groups
  +--rw sfc-group* [name]
    +--rw name          -> ../config/name
    +--rw config
      | +--rw name?      string
      | +--rw num-sfc?  uint8
      +--ro state
        | +--ro name?    string
        | +--ro num-sfc? uint8
    +--rw sfc-refs
      +--rw sfc-ref* [name]
        +--rw name      -> ../config/name
        +--rw config
          | +--rw name?  sfc-ref
          +--ro state
            +--ro name?  sfc-ref
module: extreme-sfs
+--rw sfs
  +--rw sf* [name]
    +--rw name          -> ../config/name
    +--rw config
      | +--rw name?    string
      | +--rw type?   enumeration
      +--ro state
        | +--ro name?  string
        | +--ro type?  enumeration
    +--rw instances
      +--rw instance* [name]
        +--rw name      -> ../config/name
        +--rw config
          | +--rw name?  string
          +--ro state
            | +--ro name?  string
        +--rw basic-sf
          | +--rw config
          | | +--rw name?  string
          | +--ro state
          | | +--ro name?  string
          | +--rw saps
          |   +--rw sap* [name]
          |     +--rw name      -> ../config/name
          |     +--rw config
          |       | +--rw name?      string
          |       | +--rw apply-policy? string
          |       | +--rw sap-ref?   saps:base-sap-ref
          |       +--ro state
          |         +--ro name?      string
          |         +--ro apply-policy? string
          |         +--ro sap-ref?   saps:base-sap-ref

```

```

    +--rw tgtproxy-sf
      +--rw config
        | +--rw name?   string
      +--ro state
        | +--ro name?   string
      +--rw dsaps
        +--rw dsap* [name]
          +--rw name     -> ../config/name
          +--rw config
            | +--rw name?           string
            | +--rw id              uint16
            | +--rw apply-policy?   string
          +--ro state
            +--ro name?           string
            +--ro id              uint16
            +--ro apply-policy?   string
module: extreme-transport-tunnel
+--rw transport-tunnels
  +--rw transport-tunnel* [name]
    +--rw name           -> ../config/name
    +--rw config
      | +--rw name?           string
      | +--rw description?   string
      | +--rw source-ipv4-addr?   oc-inet:ipv4-address
      | +--rw source-ipv4-mask?   oc-inet:ipv4-address
      | +--rw source-ipv6-addr?   oc-inet:ipv6-address
      | +--rw source-ipv6-mask?   oc-inet:ipv6-address
      | +--rw destination-ipv4-addr? oc-inet:ipv4-address
      | +--rw destination-ipv4-mask? oc-inet:ipv4-address
      | +--rw destination-ipv6-addr? oc-inet:ipv6-address
      | +--rw destination-ipv6-mask? oc-inet:ipv6-address
      | +--rw tunnel-type?       common-types:sap-trfc-type
      | +--rw tunnel-id?         uint32
    +--ro state
      | +--ro name?           string
      | +--ro description?   string
      | +--ro source-ipv4-addr?   oc-inet:ipv4-address
      | +--ro source-ipv4-mask?   oc-inet:ipv4-address
      | +--ro source-ipv6-addr?   oc-inet:ipv6-address
      | +--ro source-ipv6-mask?   oc-inet:ipv6-address
      | +--ro destination-ipv4-addr? oc-inet:ipv4-address
      | +--ro destination-ipv4-mask? oc-inet:ipv4-address
      | +--ro destination-ipv6-addr? oc-inet:ipv6-address
      | +--ro destination-ipv6-mask? oc-inet:ipv6-address
      | +--ro tunnel-type?       common-types:sap-trfc-type
      | +--ro tunnel-id?         uint32
      | +--ro packet-count?     uint64
      | +--ro byte-count?       uint64
    +--rw ingress-groups
      +--rw ingress-group* [name]
        +--rw name     -> ../config/name
        +--rw config
          | +--rw name?   ig-group:ingress-group-ref
        +--ro state
          +--ro name?   ig-group:ingress-group-ref
module: extreme-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
```