



Extreme[®]
networks

Extreme 9920 Software YANG Reference Guide, 21.1.0.0

Supporting Extreme 9920

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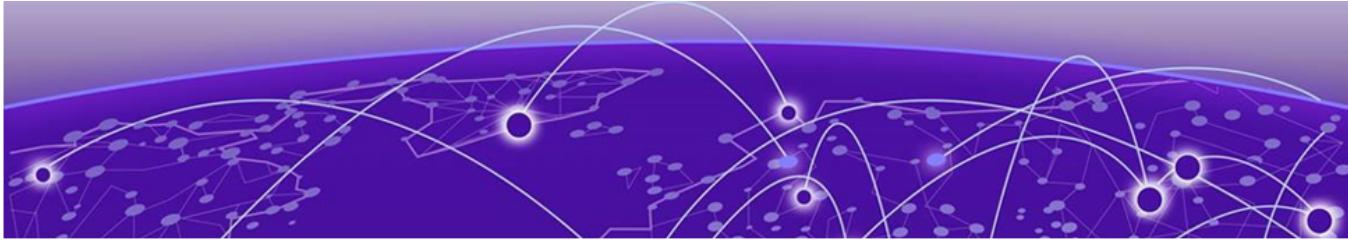
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Preface

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 |
| <i>Words in italicized type</i> | Italics emphasize a point or denote new terms at the place where they are defined in the text. Italics are also used when referring to publication titles. |
| NEW! | New information. In a PDF, this is searchable text. |

Table 3: Command syntax

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

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/.

Getting Help

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.

Providing Feedback

The Information Development team at Extreme Networks has made every effort to ensure the accuracy and completeness of this document. We are always striving to improve our documentation and help you work better, so we want to hear from you. We welcome all feedback, but we especially want to know about:

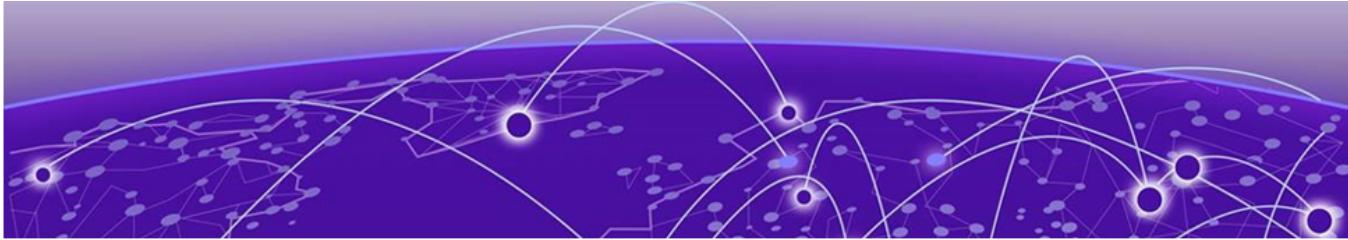
- Content errors, or confusing or conflicting information.

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

If you would like to provide feedback, you can do so in three ways:

- In a web browser, select the feedback icon and complete the online feedback form.
- Access the feedback form at <https://www.extremenetworks.com/documentation-feedback/>.
- Email us at documentation@extremenetworks.com.

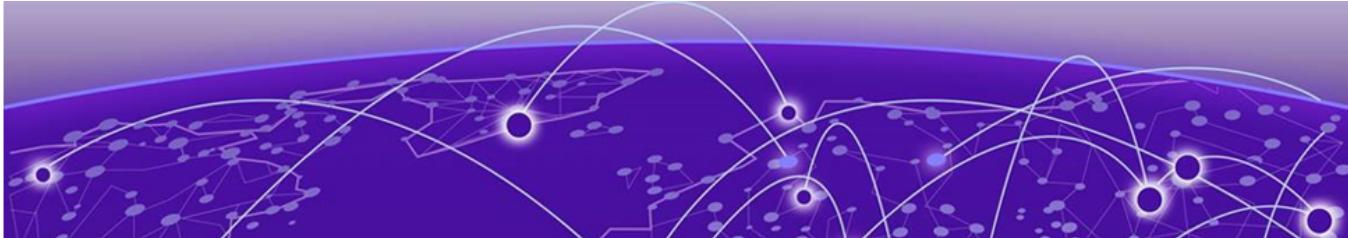
Provide the publication title, part number, and as much detail as possible, including the topic heading and page number if applicable, as well as your suggestions for improvement.



What's New in this Document

This document is new for the release of the Extreme 9920 software with the NPB application.

For more information about this release, see the [*Extreme 9920 Software Release Notes, 21.1.0.0*](#).



Standard OpenConfig YANG

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

[ACL Module Support on page 15](#)

[Interfaces Module Support on page 16](#)

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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-acl
  +-rw acl
    +-rw config
      |  +-rw extr-acl-ext:count?  boolean
      +-ro state
      |  +-ro extr-acl-ext:count?  boolean
    +-rw acl-sets
      +-rw acl-set* [name type]
        +-rw name          -> ../config/name
        +-rw type          -> ../config/type
        +-rw config
          |  +-rw name?   string
          |  +-rw type?   identityref
          +-ro state
          |  +-ro name?   string
          |  +-ro type?   identityref
    +-rw acl-entries
      +-rw acl-entry* [sequence-id]
        +-rw sequence-id          -> ../config/sequence-id
        +-rw config
          |  +-rw sequence-id?  uint32
        +-ro state
          |  +-ro sequence-id?  uint32
        +-rw actions
          |  +-rw config
            |  |  +-rw forwarding-action  identityref
            |  |  +-rw log-action?    identityref
            |  |  +-rw extr-acl-ext:count? boolean
            |  +-ro state
            |    +-ro forwarding-action  identityref
            |    +-ro log-action?    identityref
```

```

    |      +-+ro extr-acl-ext:count?    boolean
    +-rw extr-acl-ipv6-ext:npb-acl-ipv6
    |  +-+rw extr-acl-ipv6-ext:config
    |  |  +-+rw extr-acl-ipv6-ext:source-ipv6?          oc-inet:ipv6-
address
    |  |  +-+rw extr-acl-ipv6-ext:source-ipv6-mask?      oc-inet:ipv6-
address
    |  |  +-+rw extr-acl-ipv6-ext:destination-ipv6?      oc-inet:ipv6-
address
    |  |  +-+rw extr-acl-ipv6-ext:destination-ipv6-mask?  oc-inet:ipv6-
address
    |  |  +-+rw extr-acl-ipv6-ext:dscp?                  oc-inet:dscp
    |  |  +-+rw extr-acl-ipv6-ext:protocol?              oc-pkt-match-
types:ip-protocol-type
    |  |  +-+rw extr-acl-ipv6-ext:vlan-tag?            uint16
    |  |  +-+rw extr-acl-ipv6-ext:network-id-type?      identityref
    |  |  +-+rw extr-acl-ipv6-ext:network-id?           uint32
    |  |  +-+rw extr-acl-ipv6-ext:length?               uint16
    |  |  +-+rw extr-acl-ipv6-ext:length-end?          uint16
    |  |  +-+rw extr-acl-ipv6-ext:source-port?          oc-pkt-match-
types:port-num-range
    |  |  +-+rw extr-acl-ipv6-ext:destination-port?      oc-pkt-match-
types:port-num-range
    |  |  +-+rw extr-acl-ipv6-ext:tcp-flags*           identityref
    |  |  +-+rw extr-acl-ipv6-ext:icmp-type?            uint8
    |  |  +-+rw extr-acl-ipv6-ext:icmp-code?            uint8
    |  |  +-+rw extr-acl-ipv6-ext:igmp-type?            uint8
    |  |  +-+rw extr-acl-ipv6-ext:igmp-group?          uint32
    |  |  +-+rw extr-acl-ipv6-ext:esp-spi?             uint32
    |  +-+ro extr-acl-ipv6-ext:state
    |  |  +-+ro extr-acl-ipv6-ext:source-ipv6?          oc-inet:ipv6-
address
    |  |  +-+ro extr-acl-ipv6-ext:source-ipv6-mask?      oc-inet:ipv6-
address
    |  |  +-+ro extr-acl-ipv6-ext:destination-ipv6?      oc-inet:ipv6-
address
    |  |  +-+ro extr-acl-ipv6-ext:destination-ipv6-mask?  oc-inet:ipv6-
address
    |  |  +-+ro extr-acl-ipv6-ext:dscp?                  oc-inet:dscp
    |  |  +-+ro extr-acl-ipv6-ext:protocol?              oc-pkt-match-
types:ip-protocol-type
    |  |  +-+ro extr-acl-ipv6-ext:vlan-tag?            uint16
    |  |  +-+ro extr-acl-ipv6-ext:network-id-type?      identityref
    |  |  +-+ro extr-acl-ipv6-ext:network-id?           uint32
    |  |  +-+ro extr-acl-ipv6-ext:length?               uint16
    |  |  +-+ro extr-acl-ipv6-ext:length-end?          uint16
    |  |  +-+ro extr-acl-ipv6-ext:source-port?          oc-pkt-match-
types:port-num-range
    |  |  +-+ro extr-acl-ipv6-ext:destination-port?      oc-pkt-match-
types:port-num-range
    |  |  +-+ro extr-acl-ipv6-ext:tcp-flags*           identityref
    |  |  +-+ro extr-acl-ipv6-ext:icmp-type?            uint8
    |  |  +-+ro extr-acl-ipv6-ext:icmp-code?            uint8
    |  |  +-+ro extr-acl-ipv6-ext:igmp-type?            uint8
    |  |  +-+ro extr-acl-ipv6-ext:igmp-group?          uint32
    |  |  +-+ro extr-acl-ipv6-ext:esp-spi?             uint32
    +-+rw extr-acl-ipv4-ext:npb-acl-ipv4
    |  +-+rw extr-acl-ipv4-ext:config
    |  |  +-+rw extr-acl-ipv4-ext:source-ipv4?          oc-inet:ipv4-
address
    |  |  +-+rw extr-acl-ipv4-ext:source-ipv4-mask?      oc-inet:ipv4-
address
    |  |  +-+rw extr-acl-ipv4-ext:destination-ipv4?      oc-inet:ipv4-
address

```

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

```

        +--ro extr-acl-mac-ext:state
            +-+ro extr-acl-mac-ext:source-mac?          oc-yang:mac-address
            +-+ro extr-acl-mac-ext:source-mac-mask?    oc-yang:mac-address
            +-+ro extr-acl-mac-ext:destination-mac?   oc-yang:mac-address
            +-+ro extr-acl-mac-ext:destination-mac-mask? oc-yang:mac-address
            +-+ro extr-acl-mac-ext:pcp?                uint8
            +-+ro extr-acl-mac-ext:ethertype?          oc-pkt-match-
types:ethertype-type

module: openconfig-interfaces
---rw interfaces
    ---rw interface* [name]
        ---rw name                      -> ../config/name
        ---rw config
            | ---rw name?             string
            | ---rw type              identityref
            | ---rw mtu?              uint16
            | ---rw description?     string
            | ---rw enabled?          boolean
        ---ro state
            | ---ro name?             string
            | ---ro type              identityref
            | ---ro mtu?              uint16
            | ---ro description?     string
            | ---ro enabled?          boolean
            | ---ro ifindex?          uint32
            | ---ro admin-status      enumeration
            | ---ro oper-status       enumeration
            | ---ro last-change?     oc-types:timeticks64
            | ---ro counters
                | | ---ro in-octets?      oc-yang:counter64
                | | ---ro in-pkts?        oc-yang:counter64
                | | ---ro in-unicast-pkts? oc-yang:counter64
                | | ---ro in-broadcast-pkts? oc-yang:counter64
                | | ---ro in-multicast-pkts? oc-yang:counter64
                | | ---ro in-discards?    oc-yang:counter64
                | | ---ro in-errors?      oc-yang:counter64
                | | ---ro in-unknown-protos? oc-yang:counter64
                | | ---ro in-fcs-errors?  oc-yang:counter64
                | | ---ro out-octets?     oc-yang:counter64
                | | ---ro out-pkts?       oc-yang:counter64
                | | ---ro out-unicast-pkts? oc-yang:counter64
                | | ---ro out-broadcast-pkts? oc-yang:counter64
                | | ---ro out-multicast-pkts? oc-yang:counter64
                | | ---ro out-discards?   oc-yang:counter64
                | | ---ro out-errors?     oc-yang:counter64
                | | ---ro carrier-transitions? oc-yang:counter64
                | | ---ro last-clear?     oc-types:timeticks64
                | | ---ro extr-eth-ext:if-mib-counter
                | | | ---ro extr-eth-ext:if-counter-discontinuity-time? string
            ---ro extr-eth-ext:if-mib
                | ---ro extr-eth-ext:if-last-change? string
        ---rw subinterfaces
            ---rw subinterface* [index]
                ---rw index      -> ../config/index

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
    +-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
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
  |    +-ro auth-mismatch?  oc-yang:counter64
  |  +-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
|       | +-ro stratum?    uint8
|       | +-ro root-delay? uint32
|       | +-ro root-dispersion? uint64
|       | +-ro offset?     uint64
|       | +-ro poll-interval? uint32
+-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
      +-ro state
        | +-ro host?       oc-inet:host
        | +-ro source-address? oc-inet:ip-address
        | +-ro remote-port?  oc-inet:port-number
      +-rw selectors
        +-rw selector* [facility severity]
          +-rw facility      -> ../config/facility
          +-rw severity      -> ../config/severity
          +-rw config
            | +-rw facility?   identityref
            | +-rw severity?   syslog-severity
          +-ro state
            +-ro facility?   identityref
            +-ro severity?   syslog-severity

module: openconfig-network-instance
+-rw network-instances
  +-rw network-instance* [name]
    +-rw name          -> ../config/name
    +-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

```

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";

    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";
    }

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

    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:config/oc-if:loopback-mode {
        deviate not-supported;
    }
    deviation /oc-if:interfaces/oc-if:interface/oc-if:state/oc-if:loopback-mode {
        deviate not-supported;
    }
    deviation /oc-if:interfaces/oc-if:interface/oc-if:state/oc-if:logical {
        deviate not-supported;
    }
    deviation /oc-if:interfaces/oc-if:interface/oc-if:hold-time {
        deviate not-supported;
    }
    deviation /oc-if:interfaces/oc-if:interface/oc-if:subinterfaces/oc-if:subinterface/oc-
if:config {
        deviate not-supported;
    }
    deviation /oc-if:interfaces/oc-if:interface/oc-if:subinterfaces/oc-if:subinterface/oc-
if:state {
        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";

    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";
    }

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

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

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

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

```

```
        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:interfaces {
        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:vlangs {
        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:static-routes/oc-net:static/oc-net:next-hops {
        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";

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";
}

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

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-
platform:equipment-failure {
    deviate not-supported;
}
deviation /oc-platform:components/oc-platform:component/oc-platform:state/oc-
platform: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:part-no {
    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:cpu {
    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:fan {
    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:port {
    deviate not-supported;
}
deviation /oc-platform:components/oc-platform:component/oc-platform:power-supply {
    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";

    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";
    }
}

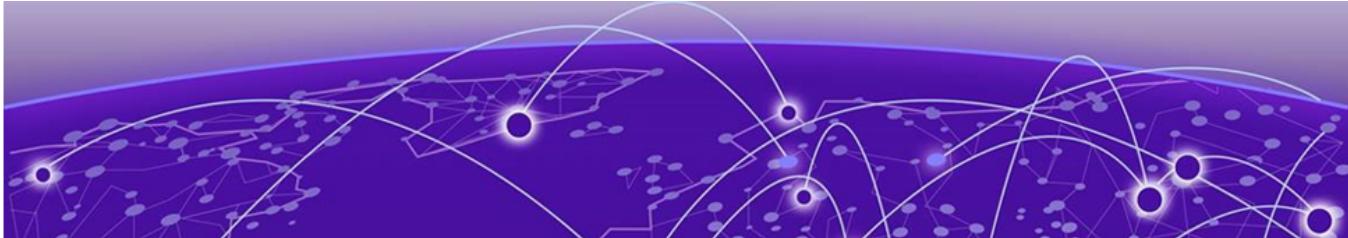
```

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

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:remote-servers/oc-sys:remote-server/oc-sys:selectors {
    deviate not-supported;
}
deviation /oc-sys:aaa/oc-sys:config {
    deviate not-supported;
}
deviation /oc-sys:aaa/oc-sys:state {
    deviate not-supported;
}
deviation /oc-sys:aaa/oc-sys:authentication/oc-sys:admin-user {
    deviate not-supported;
}
deviation /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:aaa/oc-sys:authentication/oc-sys:users/oc-sys:user/oc-sys:state/oc-
sys:ssh-key {
    deviate not-supported;
}
deviation /oc-sys:aaa/oc-sys:authorization {
    deviate not-supported;
}
deviation /oc-sys:aaa/oc-sys:accounting/oc-sys:events {
    deviate not-supported;
}
deviation /oc-sys:aaa/oc-sys:server-groups/oc-sys:server-group/oc-sys:config {
    deviate not-supported;
}
deviation /oc-sys:aaa/oc-sys:server-groups/oc-sys:server-group/oc-sys:state {
    deviate not-supported;
}
deviation /oc-sys:aaa/oc-sys:server-groups/oc-sys:server-group/oc-sys:servers/oc-
sys:server/oc-sys:config/oc-sys:name{
    deviate not-supported;
}
deviation /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:aaa/oc-sys:server-groups/oc-sys:server-group/oc-sys:servers/oc-
sys:server/oc-sys:state/oc-sys:name{
    deviate not-supported;
```

```
        }
        deviation /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: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: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: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: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: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: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: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: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: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: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: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: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:aaa/oc-sys:server-groups/oc-sys:server-group/oc-sys:servers/oc-
sys:server/oc-sys:radius{
            deviate not-supported;
        }
        deviation /oc-sys:ssh-server{
            deviate not-supported;
        }
        deviation /oc-sys:telnet-server{
            deviate not-supported;
        }
    }
    deviation /oc-sys:ntp/oc-sys:config/oc-sys:ntp-source-address{
```

```
        deviate not-supported;
    }
    deviation /oc-sys:ntp/oc-sys:config/oc-sys:enable-ntp-auth{
        deviate not-supported;
    }
    deviation /oc-sys:ntp/oc-sys:state/oc-sys:ntp-source-address{
        deviate not-supported;
    }
    deviation /oc-sys:ntp/oc-sys:state/oc-sys:enable-ntp-auth{
        deviate not-supported;
    }
    deviation /oc-sys:ntp/oc-sys:state/oc-sys:auth-mismatch{
        deviate not-supported;
    }
    deviation /oc-sys:ntp/oc-sys:ntp-keys{
        deviate not-supported;
    }
    deviation /oc-sys:ntp/oc-sys:servers/oc-sys:server/oc-sys:config/oc-sys:port{
        deviate not-supported;
    }
    deviation /oc-sys:ntp/oc-sys:servers/oc-sys:server/oc-sys:config/oc-sys:version{
        deviate not-supported;
    }
    deviation /oc-sys:ntp/oc-sys:servers/oc-sys:server/oc-sys:config/oc-sys:iburst{
        deviate not-supported;
    }
    deviation /oc-sys:ntp/oc-sys:servers/oc-sys:server/oc-sys:config/oc-sys:prefer{
        deviate not-supported;
    }
    deviation /oc-sys:ntp/oc-sys:servers/oc-sys:server/oc-sys:state/oc-sys:port{
        deviate not-supported;
    }
    deviation /oc-sys:ntp/oc-sys:servers/oc-sys:server/oc-sys:state/oc-sys:version{
        deviate not-supported;
    }
    deviation /oc-sys:ntp/oc-sys:servers/oc-sys:server/oc-sys:state/oc-sys:iburst{
        deviate not-supported;
    }
    deviation /oc-sys:ntp/oc-sys:servers/oc-sys:server/oc-sys:state/oc-sys:prefer{
        deviate not-supported;
    }
    deviation /oc-sys:ntp/oc-sys:servers/oc-sys:server/oc-sys:state/oc-sys:stratum{
        deviate not-supported;
    }
    deviation /oc-sys:ntp/oc-sys:servers/oc-sys:server/oc-sys:state/oc-sys:root-delay{
        deviate not-supported;
    }
    deviation /oc-sys:ntp/oc-sys:servers/oc-sys:server/oc-sys:state/oc-sys:root-dispersion{
        deviate not-supported;
    }
    deviation /oc-sys:ntp/oc-sys:servers/oc-sys:server/oc-sys:state/oc-sys:offset{
        deviate not-supported;
    }
    deviation /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-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?
        |  +-rw vlan-tag?
        |  +-rw vlan-pcp?
      +-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?
        +-ro vlan-tag?
        +-ro vlan-pcp?
      +-ro counter* [port-id]
        +-ro port-id          uint32
        +-ro pkt-count?       uint64
        +-ro octet-count?     uint64

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

```

        +-rw name      -> ../config/name
        +-rw config
        | +-rw name?   extreme-egress:egress-ref
        +-ro state
        | +-ro name?   extreme-egress:egress-ref

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

```

```

    +-rw interfaces
      +-rw interface* [precedence]
        +-rw precedence      -> ../config/precedence
        +-rw config
        |  +-rw precedence?  uint16
        |  +-rw interface?   string
        +-ro state
          +-ro precedence?  uint16
          +-ro interface?   string

module: extreme-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-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-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-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
            +-+rw ethernet-interfaces
                |  +-+rw ethernet-interface* [interface]
                    |      +-+rw interface    -> ../config/interface
                    |      +-+rw config

```

```

|   |   +-rw interface?    string
|   |   +-ro state
|   |   +-ro interface?    string
+-rw lag-interfaces
|   +-rw lag-interface* [interface]
|   +-rw interface      -> ../config/interface
|   +-rw config
|   |   +-rw interface?    string
|   +-ro state
|   +-ro interface?    string
+-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 scope?        boolean
|   |   +-rw decap?        boolean
|   +-ro state
|   |   +-ro traffic-type? common-types:sap-trfc-type
|   |   +-ro tunnel-id?    uint32
|   |   +-ro scope?        boolean
|   |   +-ro decap?        boolean

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

```

```

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

module: extreme-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?         string
            | +-rw community-or-user-name? string
            | +-rw udp-port?        uint16
            | +-rw notif-type?      notification-type
            +-rw state
                +-rw hostname?      string
                +-rw community-or-user-name? string
                +-rw udp-port?        uint16
                +-rw notif-type?      notification-type

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
|   +-ro state
|   |   +-ro vni?          uint32
|   |   +-ro scope?        boolean
|   |   +-ro terminate?    boolean
|   |   +-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
|   +-ro state
|   |   +-ro vsid?          uint32
|   |   +-ro scope?        boolean
|   |   +-ro terminate?    boolean
|   |   +-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
|   +-ro state
|   |   +-ro scope?        boolean
|   |   +-ro terminate?    boolean
|   |   +-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
|   +-ro state
|   |   +-ro teid?          uint32
|   |   +-ro scope?        boolean
|   |   +-ro terminate?    boolean
|   |   +-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
|   +-ro state
|   |   +-ro scope?        boolean
|   |   +-ro terminate?    boolean
|   |   +-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 tunnel-type?     common-types:sap-trfc-type
|   +-ro state

```

```
|   +-ro source-ip-addr?          oc-inet:ip-address
|   +-ro source-ip-mask?         oc-inet:ip-address
|   +-ro destination-ip-addr?    oc-inet:ip-address
|   +-ro destination-ip-mask?    oc-inet:ip-address
|   +-ro tunnel-type?           common-types:sap-trfc-type
|   +-ro hit-pkt-count?          uint64
|   +-ro hit-octet-count?        uint64
|   +-ro drop-pkt-count?          uint64
|   +-ro drop-octet-count?        uint64
+--rw network-sap
  +-rw config
    |  +-rw tunnel-type?    common-types:sap-trfc-type
    |  +-rw tunnel-id?      uint32
  +-ro state
    +-ro tunnel-type?          common-types:sap-trfc-type
    +-ro tunnel-id?            uint32
    +-ro hit-pkt-count?        uint64
    +-ro hit-octet-count?      uint64
```