

Chapter 5

Tag Elements Beginning with E

This chapter lists the configuration tag elements that have names beginning with the letter *e*. The tag names are in alphabetical order. For information about the notation used in this chapter, see Table 2 on page cdxiii.

For information about the tag elements that client applications use to request, change, and commit configuration information, see the *JUNOScript API Guide* and *NETCONF API Guide*.



NOTE: Every tag element in this chapter optionally accepts the `<apply-groups>` or `<apply-groups-except>` tag element and the `<apply-macro>` tag element as children. For brevity, the reference entries do not list these tag elements as children. For information about these tag elements, see `<apply-groups>` on page 631, `<apply-groups-except>` on page 631, and `<apply-macro>` on page 632.

<e1> (configuration/chassis/fpc/pic/ce1)

Usage	<pre><configuration> <chassis> <fpc> <pic> <ce1> <e1> <name>name</name> <!-- identifier --> <channel-group>...</channel-group> </e1> </ce1> </pic> </fpc> </chassis> </configuration></pre>
Description	E1 link.
Contents	<code><channel-group></code> —Define channel group. <code><name></code> —E1 link number.

<e1> (configuration/chassis/lcc/fpc/pic/ce1)

Usage <configuration>
 <chassis>
 <lcc>
 <fpc>
 <pic>
 <ce1>
 <e1>
 <name>name</name> <!-- identifier -->
 <channel-group>...</channel-group>
 </e1>
 </ce1>
 </pic>
 </fpc>
 </lcc>
 </chassis>
 </configuration>

Description E1 link.

Contents <channel-group>—Define channel group.

 <name>—E1 link number.

<e1-options> (configuration/dynamic-profiles/interfaces/interface)

Usage <configuration>
 <dynamic-profiles>
 <interfaces>
 <interface>
 <e1-options>
 <timeslots>*timeslots*</timeslots>
 <loopback>*loopback-choice*</loopback>
 <framing>*framing-choice*</framing>
 <fcs>*fcs-choice*</fcs>
 <invert-data/>
 <idle-cycle-flag>*idle-cycle-flag-choice*</idle-cycle-flag>
 <start-end-flag>*start-end-flag-choice*</start-end-flag>
 <bert-algorithm>*bert-algorithm-choice*</bert-algorithm>
 <bert-error-rate>*bert-error-rate*</bert-error-rate>
 <bert-period>*seconds*</bert-period>
 </e1-options>
 </interface>
 </interfaces>
 </dynamic-profiles>
 </configuration>

Description E1 interface-specific options.

Contents <bert-algorithm>—Set BERT algorithm.

- all-ones-repeating—Repeating one bits.
- all-zeros-repeating—Repeating zero bits.
- alternating-double-ones-zeros—Alternating pairs of ones and zeros.
- alternating-ones-zeros—Alternating ones and zeros.
- pseudo-2e10—Pattern is $2^{10} - 1$.
- pseudo-2e11-o152—Pattern is $2^{11} - 1$ (per O.152 standard).
- pseudo-2e15-o151—Pattern is $2^{15} - 1$ (per O.151 standard).
- pseudo-2e17—Pattern is $2^{17} - 1$.
- pseudo-2e18—Pattern is $2^{18} - 1$.
- pseudo-2e20-o151—Pattern is $2^{20} - 1$ (per O.151 standard).
- pseudo-2e20-o153—Pattern is $2^{20} - 1$ (per O.153 standard).
- pseudo-2e21—Pattern is $2^{21} - 1$.
- pseudo-2e22—Pattern is $2^{22} - 1$.
- pseudo-2e23-o151—Pattern is 2^{23} (per O.151 standard).

- `pseudo-2e25`—Pattern is $2^{25} - 1$.
 - `pseudo-2e28`—Pattern is $2^{28} - 1$.
 - `pseudo-2e29`—Pattern is $2^{29} - 1$.
 - `pseudo-2e3`—Pattern is $2^3 - 1$.
 - `pseudo-2e31`—Pattern is $2^{31} - 1$.
 - `pseudo-2e32`—Pattern is $2^{32} - 1$.
 - `pseudo-2e4`—Pattern is $2^4 - 1$.
 - `pseudo-2e5`—Pattern is $2^5 - 1$.
 - `pseudo-2e6`—Pattern is $2^6 - 1$.
 - `pseudo-2e7`—Pattern is $2^7 - 1$.
 - `pseudo-2e9-o153`—Pattern is $2^9 - 1$ (per O.153 standard).
 - `repeating-1-in-4`—1 bit in 4 is set.
 - `repeating-1-in-8`—1 bit in 8 is set.
 - `repeating-3-in-24`—3 bits in 24 are set.
- `<bert-error-rate>`—Bit error rate (10^{-n} for $n > 0$, and zero for $n = 0$).
- `<bert-period>`—Length of BERT test.
- `<fcs>`—Frame checksum.
- `16`—16-bit mode.
 - `32`—32-bit mode.
- `<framing>`—Framing mode.
- `g704`—G704 mode with CRC4.
 - `g704-no-crc4`—G704 mode without CRC4.
 - `unframed`—Unframed mode.
- `<idle-cycle-flag>`—Value to transmit in idle cycles.
- `flags`—Transmit 0x7E in idle cycles.
 - `ones`—Transmit 0xFF (all ones) in idle cycles.
- `<invert-data>`—Invert data.
- `<loopback>`—Loopback mode.

- **local**—Local loopback.

- **remote**—Remote loopback.

<start-end-flag>—Set start/end flags on transmission.

- **filler**—Send two idle cycles between start/end flags.

- **shared**—Share start/end flags on transmit.

<timeslots>—Timeslots (1..32); for example, 1-4,6,9-11,32 (no space).

<e1-options> (configuration/interfaces/interface)

Usage <configuration>
 <interfaces>
 <interface>
 <e1-options>
 <timeslots>*timeslots*</timeslots>
 <loopback>*loopback-choice*</loopback>
 <framing>*framing-choice*</framing>
 <fcs>*fcs-choice*</fcs>
 <invert-data/>
 <idle-cycle-flag>*idle-cycle-flag-choice*</idle-cycle-flag>
 <start-end-flag>*start-end-flag-choice*</start-end-flag>
 <bert-algorithm>*bert-algorithm-choice*</bert-algorithm>
 <bert-error-rate>*bert-error-rate*</bert-error-rate>
 <bert-period>*seconds*</bert-period>
 </e1-options>
 </interface>
</interfaces>
</configuration>

Description E1 interface-specific options.

Contents <bert-algorithm>—Set BERT algorithm.

- all-ones-repeating—Repeating one bits.
- all-zeros-repeating—Repeating zero bits.
- alternating-double-ones-zeros—Alternating pairs of ones and zeros.
- alternating-ones-zeros—Alternating ones and zeros.
- pseudo-2e10—Pattern is $2^{10} - 1$.
- pseudo-2e11-o152—Pattern is $2^{11} - 1$ (per O.152 standard).
- pseudo-2e15-o151—Pattern is $2^{15} - 1$ (per O.151 standard).
- pseudo-2e17—Pattern is $2^{17} - 1$.
- pseudo-2e18—Pattern is $2^{18} - 1$.
- pseudo-2e20-o151—Pattern is $2^{20} - 1$ (per O.151 standard).
- pseudo-2e20-o153—Pattern is $2^{20} - 1$ (per O.153 standard).
- pseudo-2e21—Pattern is $2^{21} - 1$.
- pseudo-2e22—Pattern is $2^{22} - 1$.
- pseudo-2e23-o151—Pattern is 2^{23} (per O.151 standard).
- pseudo-2e25—Pattern is $2^{25} - 1$.

- pseudo-2e28—Pattern is $2^{28} - 1$.
- pseudo-2e29—Pattern is $2^{29} - 1$.
- pseudo-2e3—Pattern is $2^3 - 1$.
- pseudo-2e31—Pattern is $2^{31} - 1$.
- pseudo-2e32—Pattern is $2^{32} - 1$.
- pseudo-2e4—Pattern is $2^4 - 1$.
- pseudo-2e5—Pattern is $2^5 - 1$.
- pseudo-2e6—Pattern is $2^6 - 1$.
- pseudo-2e7—Pattern is $2^7 - 1$.
- pseudo-2e9-o153—Pattern is $2^9 - 1$ (per O.153 standard).
- repeating-1-in-4—1 bit in 4 is set.
- repeating-1-in-8—1 bit in 8 is set.
- repeating-3-in-24—3 bits in 24 are set.

<bert-error-rate>—Bit error rate (10^{-n} for $n > 0$, and zero for $n = 0$).

<bert-period>—Length of BERT test.

<fcs>—Frame checksum.

- 16—16-bit mode.
- 32—32-bit mode.

<framing>—Framing mode.

- g704—G704 mode with CRC4.
- g704-no-crc4—G704 mode without CRC4.
- unframed—Unframed mode.

<idle-cycle-flag>—Value to transmit in idle cycles.

- flags—Transmit 0x7E in idle cycles.
- ones—Transmit 0xFF (all ones) in idle cycles.

<invert-data>—Invert data.

<loopback>—Loopback mode.

- local—Local loopback.

- `remote`—Remote loopback.

`<start-end-flag>`—Set start/end flags on transmission.

- `filler`—Send two idle cycles between start/end flags.
- `shared`—Share start/end flags on transmit.

`<timeslots>`—Timeslots (1..32); for example, 1-4,6,9-11,32 (no space).

<e3-options> (configuration/dynamic-profiles/interfaces/interface)

Usage <configuration>
 <dynamic-profiles>
 <interfaces>
 <interface>
 <e3-options>
 <loopback>loopback-choice</loopback>
 <unframed/>
 <compatibility-mode>...</compatibility-mode>
 <payload-scrambler/>
 <fcs>fcs-choice</fcs>
 <idle-cycle-flag>idle-cycle-flag-choice</idle-cycle-flag>
 <invert-data/>
 <start-end-flag>start-end-flag-choice</start-end-flag>
 <bert-algorithm>bert-algorithm-choice</bert-algorithm>
 <bert-error-rate>bert-error-rate</bert-error-rate>
 <bert-period>seconds</bert-period>
 <buildout>feet</buildout>
 <atm-encapsulation>atm-encapsulation-choice</atm-encapsulation>
 <framing>framing-choice</framing>
 </e3-options>
 </interface>
 </interfaces>
 </dynamic-profiles>
 </configuration>

Description E3 interface-specific options.

Contents <atm-encapsulation>—E3 interface encapsulation.

- direct—ATM direct mapping.
- plcp—PLCP encapsulation.

<bert-algorithm>—Set BERT algorithm.

- all-ones-repeating—Repeating one bits.
- all-zeros-repeating—Repeating zero bits.
- alternating-double-ones-zeros—Alternating pairs of ones and zeros.
- alternating-ones-zeros—Alternating ones and zeros.
- pseudo-2e10—Pattern is $2^{10} - 1$.
- pseudo-2e11-o152—Pattern is $2^{11} - 1$ (per O.152 standard).
- pseudo-2e15-o151—Pattern is $2^{15} - 1$ (per O.151 standard).
- pseudo-2e17—Pattern is $2^{17} - 1$.
- pseudo-2e18—Pattern is $2^{18} - 1$.

- `pseudo-2e20-o151`—Pattern is $2^{20} - 1$ (per O.151 standard).
- `pseudo-2e20-o153`—Pattern is $2^{20} - 1$ (per O.153 standard).
- `pseudo-2e21`—Pattern is $2^{21} - 1$.
- `pseudo-2e22`—Pattern is $2^{22} - 1$.
- `pseudo-2e23-o151`—Pattern is 2^{23} (per O.151 standard).
- `pseudo-2e25`—Pattern is $2^{25} - 1$.
- `pseudo-2e28`—Pattern is $2^{28} - 1$.
- `pseudo-2e29`—Pattern is $2^{29} - 1$.
- `pseudo-2e3`—Pattern is $2^3 - 1$.
- `pseudo-2e31`—Pattern is $2^{31} - 1$.
- `pseudo-2e32`—Pattern is $2^{32} - 1$.
- `pseudo-2e4`—Pattern is $2^4 - 1$.
- `pseudo-2e5`—Pattern is $2^5 - 1$.
- `pseudo-2e6`—Pattern is $2^6 - 1$.
- `pseudo-2e7`—Pattern is $2^7 - 1$.
- `pseudo-2e9-o153`—Pattern is $2^9 - 1$ (per O.153 standard).
- `repeating-1-in-4`—1 bit in 4 is set.
- `repeating-1-in-8`—1 bit in 8 is set.
- `repeating-3-in-24`—3 bits in 24 are set.

`<bert-error-rate>`—Bit error rate (10^{-n} for $n > 0$, and zero for $n = 0$).

`<bert-period>`—Length of BERT test.

`<buildout>`—Line buildout.

`<compatibility-mode>`—Set CSU compatibility mode.

`<fcs>`—Frame checksum.

- `16`—16-bit mode.

- `32`—32-bit mode.

`<framing>`—E3 line format.

- `g.751`—G.751 format.

- `g.832`—G.832 format.

`<idle-cycle-flag>`—Value to transmit in idle cycles.

- `flags`—Transmit 0x7E in idle cycles.
- `ones`—Transmit 0xFF (all ones) in idle cycles.

`<invert-data>`—Invert data (only for E3 IQ interfaces).

`<loopback>`—Loopback mode.

- `local`—Local loopback.
- `remote`—Remote loopback.

`<payload-scrambler>`—Enable payload scrambling.

`<start-end-flag>`—Set start/end flags on transmission.

- `filler`—Send two idle cycles between start/end flags.
- `shared`—Share start/end flags on transmit.

`<unframed>`—Enable unframed mode.

<e3-options> (configuration/interfaces/interface)

Usage <configuration>
 <interfaces>
 <interface>
 <e3-options>
 <loopback>loopback-choice</loopback>
 <unframed/>
 <compatibility-mode>...</compatibility-mode>
 <payload-scrambler/>
 <fcs>fcs-choice</fcs>
 <idle-cycle-flag>idle-cycle-flag-choice</idle-cycle-flag>
 <invert-data/>
 <start-end-flag>start-end-flag-choice</start-end-flag>
 <bert-algorithm>bert-algorithm-choice</bert-algorithm>
 <bert-error-rate>bert-error-rate</bert-error-rate>
 <bert-period>seconds</bert-period>
 <buildout>feet</buildout>
 <atm-encapsulation>atm-encapsulation-choice</atm-encapsulation>
 <framing>framing-choice</framing>
 </e3-options>
 </interface>
</interfaces>
</configuration>

Description E3 interface-specific options.

Contents <atm-encapsulation>—E3 interface encapsulation.

- direct—ATM direct mapping.

- plcp—PLCP encapsulation.

<bert-algorithm>—Set BERT algorithm.

- all-ones-repeating—Repeating one bits.

- all-zeros-repeating—Repeating zero bits.

- alternating-double-ones-zeros—Alternating pairs of ones and zeros.

- alternating-ones-zeros—Alternating ones and zeros.

- pseudo-2e10—Pattern is $2^{10} - 1$.

- pseudo-2e11-o152—Pattern is $2^{11} - 1$ (per O.152 standard).

- pseudo-2e15-o151—Pattern is $2^{15} - 1$ (per O.151 standard).

- pseudo-2e17—Pattern is $2^{17} - 1$.

- pseudo-2e18—Pattern is $2^{18} - 1$.

- pseudo-2e20-o151—Pattern is $2^{20} - 1$ (per O.151 standard).

- pseudo-2e20-o153—Pattern is $2^{20} - 1$ (per O.153 standard).
- pseudo-2e21—Pattern is $2^{21} - 1$.
- pseudo-2e22—Pattern is $2^{22} - 1$.
- pseudo-2e23-o151—Pattern is 2^{23} (per O.151 standard).
- pseudo-2e25—Pattern is $2^{25} - 1$.
- pseudo-2e28—Pattern is $2^{28} - 1$.
- pseudo-2e29—Pattern is $2^{29} - 1$.
- pseudo-2e3—Pattern is $2^3 - 1$.
- pseudo-2e31—Pattern is $2^{31} - 1$.
- pseudo-2e32—Pattern is $2^{32} - 1$.
- pseudo-2e4—Pattern is $2^4 - 1$.
- pseudo-2e5—Pattern is $2^5 - 1$.
- pseudo-2e6—Pattern is $2^6 - 1$.
- pseudo-2e7—Pattern is $2^7 - 1$.
- pseudo-2e9-o153—Pattern is $2^9 - 1$ (per O.153 standard).
- repeating-1-in-4—1 bit in 4 is set.
- repeating-1-in-8—1 bit in 8 is set.
- repeating-3-in-24—3 bits in 24 are set.

<bert-error-rate>—Bit error rate (10^{-n} for $n > 0$, and zero for $n = 0$).

<bert-period>—Length of BERT test.

<buildout>—Line buildout.

<compatibility-mode>—Set CSU compatibility mode.

<fcs>—Frame checksum.

- 16—16-bit mode.
- 32—32-bit mode.

<framing>—E3 line format.

- g.751—G.751 format.
- g.832—G.832 format.

<idle-cycle-flag>—Value to transmit in idle cycles.

- flags—Transmit 0x7E in idle cycles.
- ones—Transmit 0xFF (all ones) in idle cycles.

<invert-data>—Invert data (only for E3 IQ interfaces).

<loopback>—Loopback mode.

- local—Local loopback.
- remote—Remote loopback.

<payload-scrambler>—Enable payload scrambling.

<start-end-flag>—Set start/end flags on transmission.

- filler—Send two idle cycles between start/end flags.
- shared—Share start/end flags on transmit.

<unframed>—Enable unframed mode.

<east-interface> (configuration/logical-systems/protocols/protection-group/ethernet-ring)

Usage

```

<configuration>
  <logical-systems>
    <protocols>
      <protection-group>
        <ethernet-ring>
          <east-interface>
            <control-channel>...</control-channel>
            <ring-protection-link-end/>
          </east-interface>
        </ethernet-ring>
      </protection-group>
    </protocols>
  </logical-systems>
</configuration>

```

Description East interface configuration.

Contents <control-channel>—Contro channel of ring port.

<ring-protection-link-end>—Port is connecting to ring protection link.

<east-interface> (configuration/protocols/protection-group/ethernet-ring)

Usage	<pre> <configuration> <protocols> <protection-group> <ethernet-ring> <east-interface> <control-channel>...</control-channel> <ring-protection-link-end/> </east-interface> </ethernet-ring> </protection-group> </protocols> </configuration> </pre>
Description	East interface configuration.
Contents	<p><control-channel>—Contro channel of ring port.</p> <p><ring-protection-link-end>—Port is connecting to ring protection link.</p>

<egress-policy> (configuration/logical-systems/protocols/ldp)

Usage	<pre> <configuration> <logical-systems> <protocols> <ldp> <egress-policy> <name>name</name> <!-- identifier --> </egress-policy> </ldp> </protocols> </logical-systems> </configuration> </pre>
Description	Configure LSP egress policy.
Contents	<name>—Configure LSP egress policy.

<egress-policy> (configuration/logical-systems/routing-instances/instance/protocols/ldp)

Usage	<pre><configuration> <logical-systems> <routing-instances> <instance> <protocols> <ldp> <egress-policy> <name>name</name> <!-- identifier --> </egress-policy> </ldp> </protocols> </instance> </routing-instances> </logical-systems> </configuration></pre>
Description	Configure LSP egress policy.
Contents	<name>—Configure LSP egress policy.

<egress-policy> (configuration/protocols/ldp)

Usage	<pre><configuration> <protocols> <ldp> <egress-policy> <name>name</name> <!-- identifier --> </egress-policy> </ldp> </protocols> </configuration></pre>
Description	Configure LSP egress policy.
Contents	<name>—Configure LSP egress policy.

<egress-policy> (configuration/routing-instances/instance/protocols/ldp)

Usage	<pre> <configuration> <routing-instances> <instance> <protocols> <ldp> <egress-policy> <name>name</name> <!-- identifier --> </egress-policy> </ldp> </protocols> </instance> </routing-instances> </configuration> </pre>
Description	Configure LSP egress policy.
Contents	<name>—Configure LSP egress policy.

<embedded-rp> (configuration/logical-systems/protocols/pim/rp)

Usage	<pre> <configuration> <logical-systems> <protocols> <pim> <rp> <embedded-rp> <group-ranges>...</group-ranges> <maximum-rps>maximum-rps</maximum-rps> </embedded-rp> </rp> </pim> </protocols> </logical-systems> </configuration> </pre>
Description	Set embedded-RP mode (IPv6 only).
Contents	<p><group-ranges>—Group address range of RP.</p> <p><maximum-rps>—Maximum number of embedded RPs.</p>

<embedded-rp> (configuration/logical-systems/routing-instances/instance/protocols/pim/rp)

Usage <configuration>
 <logical-systems>
 <routing-instances>
 <instance>
 <protocols>
 <pim>
 <rp>
 <embedded-rp>
 <group-ranges>...</group-ranges>
 <maximum-rps>*maximum-rps*</maximum-rps>
 </embedded-rp>
 </rp>
 </pim>
 </protocols>
 </instance>
 </routing-instances>
 </logical-systems>
</configuration>

Description Set embedded-RP mode (IPv6 only).

Contents <group-ranges>—Group address range of RP.
 <maximum-rps>—Maximum number of embedded RPs.

<embedded-rp> (configuration/protocols/pim/rp)

Usage <configuration>
 <protocols>
 <pim>
 <rp>
 <embedded-rp>
 <group-ranges>...</group-ranges>
 <maximum-rps>*maximum-rps*</maximum-rps>
 </embedded-rp>
 </rp>
 </pim>
 </protocols>
</configuration>

Description Set embedded-RP mode (IPv6 only).

Contents <group-ranges>—Group address range of RP.
 <maximum-rps>—Maximum number of embedded RPs.

<embedded-rp> (configuration/routing-instances/instance/protocols/pim/rp)

Usage <configuration>
 <routing-instances>
 <instance>
 <protocols>
 <pim>
 <rp>
 <embedded-rp>
 <group-ranges>...</group-ranges>
 <maximum-rps>*maximum-rps*</maximum-rps>
 </embedded-rp>
 </rp>
 </pim>
 </protocols>
 </instance>
 </routing-instances>
 </configuration>

Description Set embedded-RP mode (IPv6 only).

Contents <group-ranges>—Group address range of RP.
 <maximum-rps>—Maximum number of embedded RPs.

<embedded-spdf> (configuration/services/border-signaling-gateway/gateway)

Usage <configuration>
 <services>
 <border-signaling-gateway>
 <gateway>
 <embedded-spdf>
 <service-class>...</service-class>
 </embedded-spdf>
 </gateway>
 </border-signaling-gateway>
 </services>
 </configuration>

Description No documentation is available yet.

Contents <service-class>—Definition of service class policies.

<enable-service> (configuration/services/mobile-ip/home-agent)

Usage <configuration>
 <services>
 <mobile-ip>
 <home-agent>
 <enable-service>
 <name>name</name> <!-- identifier -->
 </enable-service>
 </home-agent>
 </mobile-ip>
 </services>
 </configuration>

Description List of interfaces on which home agent service will be enabled.

Contents <name>—Interface name.

<enable-wtp-reassembly> (configuration/services/ggsn/service-set/service-identification)

Usage <configuration>
 <services>
 <ggsn>
 <service-set>
 <service-identification>
 <enable-wtp-reassembly>
 <max-reassembled-packets>max-reassembled-packets
 </max-reassembled-packets>
 <max-reassembled-bytes>max-reassembled-bytes
 </max-reassembled-bytes>
 </enable-wtp-reassembly>
 </service-identification>
 </service-set>
 </ggsn>
 </services>
 </configuration>

Description Enable WTP reassembly.

Contents <max-reassembled-bytes>—Maximum number of reassembled bytes.

<max-reassembled-packets>—Maximum number of reassembled packets.

<encoding> (configuration/services/pgcp/gateway/h248-options)

Usage <configuration>
 <services>
 <pgcp>
 <gateway>
 <h248-options>
 <encoding>
 <no-dscp-bit-mirroring/>
 <use-lower-case/>
 </encoding>
 </h248-options>
 </gateway>
 </pgcp>
 </services>
 </configuration>

Description No documentation is available yet.

Contents <no-dscp-bit-mirroring>—No DSCP bit mirroring.
 <use-lower-case>—Encode H248 message in lower case.

<encryption> (configuration/security/ipsec/internal/ security-association/manual/direction)

Usage

```

<configuration>
  <security>
    <ipsec>
      <internal>
        <security-association>
          <manual>
            <direction>
              <encryption>
                <algorithm>algorithm-choice</algorithm>    <!-- mandatory -->
                <key>...</key>    <!-- mandatory -->
              </encryption>
            </direction>
          </manual>
        </security-association>
      </internal>
    </ipsec>
  </security>
</configuration>

```

Description Define encryption parameters.

Contents <algorithm>—Define encryption algorithm.

- 3des-cbc—3DES-CBC encryption algorithm.
- aes-128-cbc—AES-CBC 128-bit encryption algorithm.
- aes-192-cbc—AES-CBC 192-bit encryption algorithm.
- aes-256-cbc—AES-CBC 256-bit encryption algorithm.
- des-cbc—DES-CBC encryption algorithm.

<key>—Define an encryption key.

<encryption> (configuration/security/ipsec/security-association/manual/direction)

Usage <configuration>
 <security>
 <ipsec>
 <security-association>
 <manual>
 <direction>
 <encryption>
 <algorithm>*algorithm-choice*</algorithm> <!-- mandatory -->
 <key>...</key> <!-- mandatory -->
 </encryption>
 </direction>
 </manual>
 </security-association>
 </ipsec>
 </security>
 </configuration>

Description Define encryption parameters.

Contents <algorithm>—Define encryption algorithm.

- 3des-cbc—3DES-CBC encryption algorithm.
- aes-128-cbc—AES-CBC 128-bit encryption algorithm.
- aes-192-cbc—AES-CBC 192-bit encryption algorithm.
- aes-256-cbc—AES-CBC 256-bit encryption algorithm.
- des-cbc—DES-CBC encryption algorithm.

<key>—Define an encryption key.

<encryption> (configuration/services/ggsn/ service-based-charging/subscription-update-nodes)

Usage <configuration>
 <services>
 <ggsn>
 <service-based-charging>
 <subscription-update-nodes>
 <encryption>
 <name>*name*</name> <!-- identifier -->
 <change-time>*change-time*</change-time> <!-- mandatory -->
 </encryption>
 </subscription-update-nodes>
 </service-based-charging>
 </ggsn>
 </services>
 </configuration>

Description External update encryption configuration.

Contents <change-time>—Activation time for secret.
 <name>—Secret shared with the external update nodes.

<encryption> (configuration/services/ipsec-vpn/rule/term/then/manual/direction)

Usage

```

<configuration>
  <services>
    <ipsec-vpn>
      <rule>
        <term>
          <then>
            <manual>
              <direction>
                <encryption>
                  <algorithm>algorithm-choice</algorithm>    <!-- mandatory -->
                  <key>...</key>    <!-- mandatory -->
                </encryption>
              </direction>
            </manual>
          </then>
        </term>
      </rule>
    </ipsec-vpn>
  </services>
</configuration>

```

Description Define encryption parameters.

Contents <algorithm>—Define encryption algorithm.

- 3des-cbc—3DES-CBC encryption algorithm.
- aes-128-cbc—AES-CBC 128-bit encryption algorithm.
- aes-192-cbc—AES-CBC 192-bit encryption algorithm.
- aes-256-cbc—AES-CBC 256-bit encryption algorithm.
- des-cbc—DES-CBC encryption algorithm.

<key>—Define an encryption key.

<end-interface> (configuration/logical-systems/protocols/l2circuit/local-switching/interface)

Usage <configuration>
 <logical-systems>
 <protocols>
 <l2circuit>
 <local-switching>
 <interface>
 <end-interface>
 <interface>*interface*</interface> <!-- mandatory -->
 <protect-interface>*protect-interface*</protect-interface>
 </end-interface>
 </interface>
 </local-switching>
 </l2circuit>
 </protocols>
 </logical-systems>
</configuration>

Description Interface name of the other end point.

Contents <interface>—Interface name.
 <protect-interface>—Name of protect interface.

<end-interface> (configuration/protocols/l2circuit/local-switching/interface)

Usage <configuration>
 <protocols>
 <l2circuit>
 <local-switching>
 <interface>
 <end-interface>
 <interface>*interface*</interface> <!-- mandatory -->
 <protect-interface>*protect-interface*</protect-interface>
 </end-interface>
 </interface>
 </local-switching>
 </l2circuit>
 </protocols>
</configuration>

Description Interface name of the other end point.

Contents <interface>—Interface name.
 <protect-interface>—Name of protect interface.

<engine-id> (configuration/snmp)

Usage	<pre> <configuration> <snmp> <engine-id> <use-mac-address/> <use-default-ip-address/> <local>local</local> </engine-id> </snmp> </configuration> </pre>
Description	SNMPv3 engine ID.
Contents	<p><local>—Local engine ID.</p> <p><use-default-ip-address>—Use default IP address for the engine ID.</p> <p><use-mac-address>—Uses management interface MAC Address for the engine ID.</p>

<enhanced-cdr> (configuration/services/ggsn/charging/cdr-attribute)

Usage	<pre> <configuration> <services> <ggsn> <charging> <cdr-attribute> <enhanced-cdr> <no-ps-furnish-charging-information/> <no-traffic-volume/> <no-service-data/> <service-data-attributes>...</service-data-attributes> </enhanced-cdr> </cdr-attribute> </charging> </ggsn> </services> </configuration> </pre>
Description	Attribute settings for enhanced CDR.
Contents	<p><no-ps-furnish-charging-information>—Don't include PS furnish charging information.</p> <p><no-service-data>—Don't include service data.</p> <p><no-traffic-volume>—Don't include traffic-volume.</p> <p><service-data-attributes>—Settings for service data attributes.</p>

<enrollment> (configuration/security/pki/ca-profile)

Usage <configuration>
 <security>
 <pki>
 <ca-profile>
 <enrollment>
 <url>*url*</url>
 <retry>*retry*</retry>
 <retry-interval>*retry-interval*</retry-interval>
 </enrollment>
 </ca-profile>
 </pki>
 </security>
 </configuration>

Description Enrollment parameters for certificate authority.

Contents <retry>—Number of enrollment retry attempts before aborting.
 <retry-interval>—Interval in seconds between the enrollment retries.
 <url>—Enrollment URL of certificate authority.

<entity-type> (configuration/services/mobile-ip/peer/ip-address/spi)

Usage <configuration>
 <services>
 <mobile-ip>
 <peer>
 <ip-address>
 <spi>
 <entity-type>
 <host/>
 <mobility-agent/>
 </entity-type>
 </spi>
 </ip-address>
 </peer>
 </mobile-ip>
 </services>
 </configuration>

Description Entity type.

Contents <host>—The mobile host to the home-agent.
 <mobility-agent>—The mobility-agent.

<entity-type> (configuration/services/mobile-ip/peer/nai/spi)

Usage <configuration>
 <services>
 <mobile-ip>
 <peer>
 <nai>
 <spi>
 <entity-type>
 <host/>
 <mobility-agent/>
 </entity-type>
 </spi>
 </nai>
 </peer>
 </mobile-ip>
 </services>
 </configuration>

Description Entity type.

Contents <host>—The mobile host to the home-agent.
 <mobility-agent>—The mobility-agent.

<epd-threshold> (configuration/dynamic-profiles/interfaces/interface/atm-options/scheduler-maps/forwarding-class)

Usage <configuration>
 <dynamic-profiles>
 <interfaces>
 <interface>
 <atm-options>
 <scheduler-maps>
 <forwarding-class>
 <epd-threshold>
 <epd-threshold-plp0>cells</epd-threshold-plp0> <!-- mandatory -->
 <plp1>cells</plp1>
 </epd-threshold>
 </forwarding-class>
 </scheduler-maps>
 </atm-options>
 </interface>
 </interfaces>
 </dynamic-profiles>
 </configuration>

Description Early packet discard threshold for ATM2.

Contents <epd-threshold-plp0>—Early packet discard threshold value.
 <plp1>—Early packet drop threshold value for PLP 1.

**<epd-threshold> (configuration/dynamic-profiles/interfaces/
interface/unit)**

Usage <configuration>
 <dynamic-profiles>
 <interfaces>
 <interface>
 <unit>
 <epd-threshold>
 <epd-threshold-plp0>cells</epd-threshold-plp0> <!-- mandatory -->
 <plp1>cells</plp1>
 </epd-threshold>
 </unit>
 </interface>
 </interfaces>
 </dynamic-profiles>
 </configuration>

Description Early packet discard threshold for ATM2.

Contents <epd-threshold-plp0>—Early packet discard threshold value.
 <plp1>—Early packet drop threshold value for PLP 1.

<epd-threshold> (configuration/dynamic-profiles/interfaces/ interface/unit/family/inet/address/multipoint-destination)

Usage

```

<configuration>
  <dynamic-profiles>
    <interfaces>
      <interface>
        <unit>
          <family>
            <inet>
              <address>
                <multipoint-destination>
                  <epd-threshold>
                    <epd-threshold-plp0>cells
                      </epd-threshold-plp0>    <!-- mandatory -->
                    <plp1>cells</plp1>
                  </epd-threshold>
                </multipoint-destination>
              </address>
            </inet>
          </family>
        </unit>
      </interface>
    </interfaces>
  </dynamic-profiles>
</configuration>

```

Description Early packet discard threshold for ATM2.

Contents <epd-threshold-plp0>—Early packet discard threshold value.

<plp1>—Early packet drop threshold value for PLP 1.

<epd-threshold> (configuration/interfaces/interface/atm-options/scheduler-maps/forwarding-class)

Usage <configuration>
 <interfaces>
 <interface>
 <atm-options>
 <scheduler-maps>
 <forwarding-class>
 <epd-threshold>
 <epd-threshold-plp0>cells</epd-threshold-plp0> <!-- mandatory -->
 <plp1>cells</plp1>
 </epd-threshold>
 </forwarding-class>
 </scheduler-maps>
 </atm-options>
 </interface>
 </interfaces>
 </configuration>

Description Early packet discard threshold for ATM2.

Contents <epd-threshold-plp0>—Early packet discard threshold value.

<plp1>—Early packet drop threshold value for PLP 1.

<epd-threshold> (configuration/interfaces/interface/unit)

Usage <configuration>
 <interfaces>
 <interface>
 <unit>
 <epd-threshold>
 <epd-threshold-plp0>cells</epd-threshold-plp0> <!-- mandatory -->
 <plp1>cells</plp1>
 </epd-threshold>
 </unit>
 </interface>
 </interfaces>
 </configuration>

Description Early packet discard threshold for ATM2.

Contents <epd-threshold-plp0>—Early packet discard threshold value.

<plp1>—Early packet drop threshold value for PLP 1.

<epd-threshold> (configuration/interfaces/interface/unit/family/inet/address/multipoint-destination)

Usage <configuration>
 <interfaces>
 <interface>
 <unit>
 <family>
 <inet>
 <address>
 <multipoint-destination>
 <epd-threshold>
 <epd-threshold-plp0>cells
 </epd-threshold-plp0> <!-- mandatory -->
 <plp1>cells</plp1>
 </epd-threshold>
 </multipoint-destination>
 </address>
 </inet>
 </family>
 </unit>
 </interface>
 </interfaces>
 </configuration>

Description Early packet discard threshold for ATM2.

Contents <epd-threshold-plp0>—Early packet discard threshold value.

 <plp1>—Early packet drop threshold value for PLP 1.

**<epd-threshold> (configuration/logical-systems/interfaces/
interface/unit)**

Usage <configuration>
 <logical-systems>
 <interfaces>
 <interface>
 <unit>
 <epd-threshold>
 <epd-threshold-plp0>cells</epd-threshold-plp0> <!-- mandatory -->
 <plp1>cells</plp1>
 </epd-threshold>
 </unit>
 </interface>
 </interfaces>
 </logical-systems>
 </configuration>

Description Early packet discard threshold for ATM2.

Contents <epd-threshold-plp0>—Early packet discard threshold value.
 <plp1>—Early packet drop threshold value for PLP 1.

<epd-threshold> (configuration/logical-systems/interfaces/ interface/unit/family/inet/address/multipoint-destination)

Usage

```

<configuration>
  <logical-systems>
    <interfaces>
      <interface>
        <unit>
          <family>
            <inet>
              <address>
                <multipoint-destination>
                  <epd-threshold>
                    <epd-threshold-plp0>cells
                    </epd-threshold-plp0>    <!-- mandatory -->
                    <plp1>cells</plp1>
                  </epd-threshold>
                </multipoint-destination>
              </address>
            </inet>
          </family>
        </unit>
      </interface>
    </interfaces>
  </logical-systems>
</configuration>

```

Description Early packet discard threshold for ATM2.

Contents <epd-threshold-plp0>—Early packet discard threshold value.

<plp1>—Early packet drop threshold value for PLP 1.

<equals> (configuration/bridge-domains/domain/forwarding-options/dhcp-relay/group/relay-option-60/vendor-option)

Usage

```

<configuration>
  <bridge-domains>
    <domain>
      <forwarding-options>
        <dhcp-relay>
          <group>
            <relay-option-60>
              <vendor-option>
                <equals>
                  <ascii>...</ascii>
                  <hexadecimal>...</hexadecimal>
                </equals>
              </vendor-option>
            </relay-option-60>
          </group>
        </dhcp-relay>
      </forwarding-options>
    </domain>
  </bridge-domains>
</configuration>

```

Description Option 60 equals.

Contents <ascii>—ASCII string.

<hexadecimal>—Hexadecimal string.

<equals> (configuration/bridge-domains/domain/forwarding-options/dhcp-relay/relay-option-60/vendor-option)

Usage	<pre> <configuration> <bridge-domains> <domain> <forwarding-options> <dhcp-relay> <relay-option-60> <vendor-option> <equals> <ascii>...</ascii> <hexadecimal>...</hexadecimal> </equals> </vendor-option> </relay-option-60> </dhcp-relay> </forwarding-options> </domain> </bridge-domains> </configuration> </pre>
Description	Option 60 equals.
Contents	<p><ascii>—ASCII string.</p> <p><hexadecimal>—Hexadecimal string.</p>

<equals> (configuration/forwarding-options/dhcp-relay/group/relay-option-60/vendor-option)

Usage	<pre> <configuration> <forwarding-options> <dhcp-relay> <group> <relay-option-60> <vendor-option> <equals> <ascii>...</ascii> <hexadecimal>...</hexadecimal> </equals> </vendor-option> </relay-option-60> </group> </dhcp-relay> </forwarding-options> </configuration> </pre>
Description	Option 60 equals.
Contents	<p><ascii>—ASCII string.</p> <p><hexadecimal>—Hexadecimal string.</p>

<equals> (configuration/forwarding-options/dhcp-relay/relay-option-60/vendor-option)

Usage	<pre> <configuration> <forwarding-options> <dhcp-relay> <relay-option-60> <vendor-option> <equals> <ascii>...</ascii> <hexadecimal>...</hexadecimal> </equals> </vendor-option> </relay-option-60> </dhcp-relay> </forwarding-options> </configuration> </pre>
Description	Option 60 equals.
Contents	<p><ascii>—ASCII string.</p> <p><hexadecimal>—Hexadecimal string.</p>

<equals> (configuration/logical-systems/forwarding-options/dhcp-relay/group/relay-option-60/vendor-option)

Usage	<pre> <configuration> <logical-systems> <forwarding-options> <dhcp-relay> <group> <relay-option-60> <vendor-option> <equals> <ascii>...</ascii> <hexadecimal>...</hexadecimal> </equals> </vendor-option> </relay-option-60> </group> </dhcp-relay> </forwarding-options> </logical-systems> </configuration> </pre>
Description	Option 60 equals.
Contents	<p><ascii>—ASCII string.</p> <p><hexadecimal>—Hexadecimal string.</p>

<equals> (configuration/logical-systems/forwarding-options/ dhcp-relay/relay-option-60/vendor-option)

Usage	<pre> <configuration> <logical-systems> <forwarding-options> <dhcp-relay> <relay-option-60> <vendor-option> <equals> <ascii>...</ascii> <hexadecimal>...</hexadecimal> </equals> </vendor-option> </relay-option-60> </dhcp-relay> </forwarding-options> </logical-systems> </configuration> </pre>
Description	Option 60 equals.
Contents	<p><ascii>—ASCII string.</p> <p><hexadecimal>—Hexadecimal string.</p>

<equals> (configuration/logical-systems/routing-instances/instance/bridge-domains/domain/forwarding-options/dhcp-relay/group/relay-option-60/vendor-option)

Usage <configuration>
 <logical-systems>
 <routing-instances>
 <instance>
 <bridge-domains>
 <domain>
 <forwarding-options>
 <dhcp-relay>
 <group>
 <relay-option-60>
 <vendor-option>
 <equals>
 <ascii>...</ascii>
 <hexadecimal>...</hexadecimal>
 </equals>
 </vendor-option>
 </relay-option-60>
 </group>
 </dhcp-relay>
 </forwarding-options>
 </domain>
 </bridge-domains>
 </instance>
 </routing-instances>
 </logical-systems>
 </configuration>

Description Option 60 equals.

Contents <ascii>—ASCII string.
 <hexadecimal>—Hexadecimal string.

<equals> (configuration/logical-systems/routing-instances/instance/bridge-domains/domain/forwarding-options/dhcp-relay/relay-option-60/vendor-option)

Usage <configuration>
 <logical-systems>
 <routing-instances>
 <instance>
 <bridge-domains>
 <domain>
 <forwarding-options>
 <dhcp-relay>
 <relay-option-60>
 <vendor-option>
 <equals>
 <ascii>...</ascii>
 <hexadecimal>...</hexadecimal>
 </equals>
 </vendor-option>
 </relay-option-60>
 </dhcp-relay>
 </forwarding-options>
 </domain>
 </bridge-domains>
 </instance>
 </routing-instances>
 </logical-systems>
 </configuration>

Description Option 60 equals.

Contents <ascii>—ASCII string.
 <hexadecimal>—Hexadecimal string.

<equals> (configuration/logical-systems/routing-instances/instance/forwarding-options/dhcp-relay/group/relay-option-60/vendor-option)

Usage <configuration>
 <logical-systems>
 <routing-instances>
 <instance>
 <forwarding-options>
 <dhcp-relay>
 <group>
 <relay-option-60>
 <vendor-option>
 <equals>
 <ascii>...</ascii>
 <hexadecimal>...</hexadecimal>
 </equals>
 </vendor-option>
 </relay-option-60>
 </group>
 </dhcp-relay>
 </forwarding-options>
 </instance>
 </routing-instances>
 </logical-systems>
 </configuration>

Description Option 60 equals.

Contents <ascii>—ASCII string.
 <hexadecimal>—Hexadecimal string.

<equals> (configuration/logical-systems/routing-instances/instance/forwarding-options/dhcp-relay/relay-option-60/vendor-option)

Usage <configuration>
 <logical-systems>
 <routing-instances>
 <instance>
 <forwarding-options>
 <dhcp-relay>
 <relay-option-60>
 <vendor-option>
 <equals>
 <ascii>...</ascii>
 <hexadecimal>...</hexadecimal>
 </equals>
 </vendor-option>
 </relay-option-60>
 </dhcp-relay>
 </forwarding-options>
 </instance>
 </routing-instances>
 </logical-systems>
 </configuration>

Description Option 60 equals.

Contents <ascii>—ASCII string.
 <hexadecimal>—Hexadecimal string.

<equals> (configuration/routing-instances/instance/bridge-domains/domain/forwarding-options/dhcp-relay/group/relay-option-60/vendor-option)

Usage

```
<configuration>
  <routing-instances>
    <instance>
      <bridge-domains>
        <domain>
          <forwarding-options>
            <dhcp-relay>
              <group>
                <relay-option-60>
                  <vendor-option>
                    <equals>
                      <ascii>...</ascii>
                      <hexadecimal>...</hexadecimal>
                    </equals>
                  </vendor-option>
                </relay-option-60>
              </group>
            </dhcp-relay>
          </forwarding-options>
        </domain>
      </bridge-domains>
    </instance>
  </routing-instances>
</configuration>
```

Description Option 60 equals.

Contents <ascii>—ASCII string.

<hexadecimal>—Hexadecimal string.

<equals> (configuration/routing-instances/instance/bridge-domains/domain/forwarding-options/dhcp-relay/relay-option-60/vendor-option)

Usage <configuration>
 <routing-instances>
 <instance>
 <bridge-domains>
 <domain>
 <forwarding-options>
 <dhcp-relay>
 <relay-option-60>
 <vendor-option>
 <equals>
 <ascii>...</ascii>
 <hexadecimal>...</hexadecimal>
 </equals>
 </vendor-option>
 </relay-option-60>
 </dhcp-relay>
 </forwarding-options>
 </domain>
 </bridge-domains>
 </instance>
 </routing-instances>
 </configuration>

Description Option 60 equals.

Contents <ascii>—ASCII string.
 <hexadecimal>—Hexadecimal string.

<equals> (configuration/routing-instances/instance/forwarding-options/dhcp-relay/group/relay-option-60/vendor-option)

Usage <configuration>
 <routing-instances>
 <instance>
 <forwarding-options>
 <dhcp-relay>
 <group>
 <relay-option-60>
 <vendor-option>
 <equals>
 <ascii>...</ascii>
 <hexadecimal>...</hexadecimal>
 </equals>
 </vendor-option>
 </relay-option-60>
 </group>
 </dhcp-relay>
 </forwarding-options>
 </instance>
 </routing-instances>
 </configuration>

Description Option 60 equals.

Contents <ascii>—ASCII string.
 <hexadecimal>—Hexadecimal string.

<equals> (configuration/routing-instances/instance/forwarding-options/dhcp-relay/relay-option-60/vendor-option)

Usage	<pre> <configuration> <routing-instances> <instance> <forwarding-options> <dhcp-relay> <relay-option-60> <vendor-option> <equals> <ascii>...</ascii> <hexadecimal>...</hexadecimal> </equals> </vendor-option> </relay-option-60> </dhcp-relay> </forwarding-options> </instance> </routing-instances> </configuration> </pre>
Description	Option 60 equals.
Contents	<p><ascii>—ASCII string.</p> <p><hexadecimal>—Hexadecimal string.</p>

<error-codes> (configuration/services/ggsn/fault-management/alarm/service-based-charging/error-indication-cca)

Usage	<pre> <configuration> <services> <ggsn> <fault-management> <alarm> <service-based-charging> <error-indication-cca> <error-codes> <name>name</name> <!-- identifier --> </error-codes> </error-indication-cca> </service-based-charging> </alarm> </fault-management> </ggsn> </services> </configuration> </pre>
Description	Error codes.
Contents	<name>—Error codes.

<error-indication-cca> (configuration/services/ggsn/fault-management/alarm/service-based-charging)

Usage <configuration>
 <services>
 <ggsn>
 <fault-management>
 <alarm>
 <service-based-charging>
 <error-indication-cca>
 <error-codes>...</error-codes> <!-- mandatory -->
 </error-indication-cca>
 </service-based-charging>
 </alarm>
 </fault-management>
 </ggsn>
 </services>
 </configuration>

Description Codes for error indication CCA.

Contents <error-codes>—Error codes.

<es-options> (configuration/dynamic-profiles/interfaces/interface)

Usage <configuration>
 <dynamic-profiles>
 <interfaces>
 <interface>
 <es-options>
 <backup-interface>*backup-interface*</backup-interface>
 </es-options>
 </interface>
 </interfaces>
 </dynamic-profiles>
 </configuration>

Description ES PIC interface-specific options.

Contents <backup-interface>—Name of backup interface.

<es-options> (configuration/interfaces/interface)

Usage	<pre> <configuration> <interfaces> <interface> <es-options> <backup-interface><i>backup-interface</i></backup-interface> </es-options> </interface> </interfaces> </configuration> </pre>
Description	ES PIC interface-specific options.
Contents	<backup-interface>—Name of backup interface.

<esis> (configuration/logical-systems/protocols)

Usage	<pre> <configuration> <logical-systems> <protocols> <esis> <disable/> <traceoptions>...</traceoptions> <preference><i>preference</i></preference> <graceful-restart>...</graceful-restart> <interface>...</interface> </esis> </protocols> </logical-systems> </configuration> </pre>
Description	End system-intermediate system options.
Contents	<p><disable>—Disable ES-IS.</p> <p><graceful-restart>—ES-IS graceful restart options.</p> <p><interface>—Interface configuration.</p> <p><preference>—Preference of routes.</p> <p><traceoptions>—Trace options for ES-IS.</p>

<esis> (configuration/logical-systems/routing-instances/instance/protocols)

Usage <configuration>
 <logical-systems>
 <routing-instances>
 <instance>
 <protocols>
 <esis>
 <disable/>
 <traceoptions>...</traceoptions>
 <preference>*preference*</preference>
 <graceful-restart>...</graceful-restart>
 <interface>...</interface>
 </esis>
 </protocols>
 </instance>
 </routing-instances>
 </logical-systems>
 </configuration>

Description ES-IS configuration.

Contents <disable>—Disable ES-IS.

 <graceful-restart>—ES-IS graceful restart options.

 <interface>—Interface configuration.

 <preference>—Preference of routes.

 <traceoptions>—Trace options for ES-IS.

<esis> (configuration/protocols)

Usage	<pre> <configuration> <protocols> <esis> <disable/> <traceoptions>...</traceoptions> <preference>preference</preference> <graceful-restart>...</graceful-restart> <interface>...</interface> </esis> </protocols> </configuration> </pre>
Description	End system-intermediate system options.
Contents	<p><disable>—Disable ES-IS.</p> <p><graceful-restart>—ES-IS graceful restart options.</p> <p><interface>—Interface configuration.</p> <p><preference>—Preference of routes.</p> <p><traceoptions>—Trace options for ES-IS.</p>

<esis> (configuration/routing-instances/instance/protocols)

Usage	<pre> <configuration> <routing-instances> <instance> <protocols> <esis> <disable/> <traceoptions>...</traceoptions> <preference>preference</preference> <graceful-restart>...</graceful-restart> <interface>...</interface> </esis> </protocols> </instance> </routing-instances> </configuration> </pre>
Description	ES-IS configuration.
Contents	<p><disable>—Disable ES-IS.</p> <p><graceful-restart>—ES-IS graceful restart options.</p> <p><interface>—Interface configuration.</p> <p><preference>—Preference of routes.</p> <p><traceoptions>—Trace options for ES-IS.</p>

<esp-spi> (configuration/firewall/family/inet/filter/term/from)

Usage	<pre> <configuration> <firewall> <family> <inet> <filter> <term> <from> <esp-spi> <name>name</name> <!-- identifier --> </esp-spi> </from> </term> </filter> </inet> </family> </firewall> </configuration> </pre>
Description	Match IPsec ESP SPI value.
Contents	<name>—Range of values.

<esp-spi> (configuration/firewall/family/inet/service-filter/term/from)

Usage <configuration>
 <firewall>
 <family>
 <inet>
 <service-filter>
 <term>
 <from>
 <esp-spi>
 <name>*name*</name> <!-- identifier -->
 </esp-spi>
 </from>
 </term>
 </service-filter>
 </inet>
 </family>
 </firewall>
</configuration>

Description Match IPsec ESP SPI value.

Contents <name>—Range of values.

<esp-spi> (configuration/firewall/family/inet6/service-filter/term/from)

Usage <configuration>
 <firewall>
 <family>
 <inet6>
 <service-filter>
 <term>
 <from>
 <esp-spi>
 <name>*name*</name> <!-- identifier -->
 </esp-spi>
 </from>
 </term>
 </service-filter>
 </inet6>
 </family>
 </firewall>
</configuration>

Description Match IPsec ESP SPI value.

Contents <name>—Range of values.

<esp-spi> (configuration/firewall/filter/term/from)

Usage <configuration>
 <firewall>
 <filter>
 <term>
 <from>
 <esp-spi>
 <name>*name*</name> <!-- identifier -->
 </esp-spi>
 </from>
 </term>
 </filter>
 </firewall>
 </configuration>

Description Match IPsec ESP SPI value.

Contents <name>—Range of values.

<esp-spi> (configuration/logical-systems/firewall/family/inet/filter/term/from)

Usage <configuration>
 <logical-systems>
 <firewall>
 <family>
 <inet>
 <filter>
 <term>
 <from>
 <esp-spi>
 <name>*name*</name> <!-- identifier -->
 </esp-spi>
 </from>
 </term>
 </filter>
 </inet>
 </family>
 </firewall>
 </logical-systems>
 </configuration>

Description Match IPsec ESP SPI value.

Contents <name>—Range of values.

<esp-spi> (configuration/logical-systems/firewall/family/inet/service-filter/term/from)

Usage <configuration>
 <logical-systems>
 <firewall>
 <family>
 <inet>
 <service-filter>
 <term>
 <from>
<esp-spi>
 <name>name</name> <!-- identifier -->
</esp-spi>
 </from>
 </term>
 </service-filter>
 </inet>
 </family>
 </firewall>
 </logical-systems>
 </configuration>

Description Match IPsec ESP SPI value.

Contents <name>—Range of values.

<esp-spi> (configuration/logical-systems/firewall/family/inet6/service-filter/term/from)

Usage <configuration>
 <logical-systems>
 <firewall>
 <family>
 <inet6>
 <service-filter>
 <term>
 <from>
<esp-spi>
 <name>name</name> <!-- identifier -->
</esp-spi>
 </from>
 </term>
 </service-filter>
 </inet6>
 </family>
 </firewall>
 </logical-systems>
 </configuration>

Description Match IPsec ESP SPI value.

Contents <name>—Range of values.

<esp-spi> (configuration/logical-systems/firewall/filter/term/from)

Usage	<pre> <configuration> <logical-systems> <firewall> <filter> <term> <from> <esp-spi> <name>name</name> <!-- identifier --> </esp-spi> </from> </term> </filter> </firewall> </logical-systems> </configuration> </pre>
Description	Match IPSec ESP SPI value.
Contents	<name>—Range of values.

<esp-spi-except> (configuration/firewall/family/inet/filter/term/from)

Usage	<pre> <configuration> <firewall> <family> <inet> <filter> <term> <from> <esp-spi-except> <name>name</name> <!-- identifier --> </esp-spi-except> </from> </term> </filter> </inet> </family> </firewall> </configuration> </pre>
Description	Do not match IPSec ESP SPI value.
Contents	<name>—Range of values.

<esp-spi-except> (configuration/firewall/family/inet/service-filter/term/from)

Usage <configuration>
 <firewall>
 <family>
 <inet>
 <service-filter>
 <term>
 <from>
 <esp-spi-except>
 <name>*name*</name> <!-- identifier -->
 </esp-spi-except>
 </from>
 </term>
 </service-filter>
 </inet>
 </family>
 </firewall>
</configuration>

Description Do not match IPsec ESP SPI value.

Contents <name>—Range of values.

<esp-spi-except> (configuration/firewall/family/inet6/service-filter/term/from)

Usage <configuration>
 <firewall>
 <family>
 <inet6>
 <service-filter>
 <term>
 <from>
 <esp-spi-except>
 <name>*name*</name> <!-- identifier -->
 </esp-spi-except>
 </from>
 </term>
 </service-filter>
 </inet6>
 </family>
 </firewall>
</configuration>

Description Do not match IPsec ESP SPI value.

Contents <name>—Range of values.

<esp-spi-except> (configuration/firewall/filter/term/from)

Usage <configuration>
 <firewall>
 <filter>
 <term>
 <from>
 <esp-spi-except>
 <name>*name*</name> <!-- identifier -->
 </esp-spi-except>
 </from>
 </term>
 </filter>
 </firewall>
 </configuration>

Description Do not match IPSec ESP SPI value.

Contents <name>—Range of values.

<esp-spi-except> (configuration/logical-systems/firewall/family/inet/filter/term/from)

Usage <configuration>
 <logical-systems>
 <firewall>
 <family>
 <inet>
 <filter>
 <term>
 <from>
 <esp-spi-except>
 <name>*name*</name> <!-- identifier -->
 </esp-spi-except>
 </from>
 </term>
 </filter>
 </inet>
 </family>
 </firewall>
 </logical-systems>
 </configuration>

Description Do not match IPSec ESP SPI value.

Contents <name>—Range of values.

<esp-spi-except> (configuration/logical-systems/firewall/family/inet/service-filter/term/from)

Usage <configuration>
 <logical-systems>
 <firewall>
 <family>
 <inet>
 <service-filter>
 <term>
 <from>
 <esp-spi-except>
 <name>name</name> <!-- identifier -->
 </esp-spi-except>
 </from>
 </term>
 </service-filter>
 </inet>
 </family>
 </firewall>
 </logical-systems>
 </configuration>

Description Do not match IPsec ESP SPI value.

Contents <name>—Range of values.

<esp-spi-except> (configuration/logical-systems/firewall/family/inet6/service-filter/term/from)

Usage <configuration>
 <logical-systems>
 <firewall>
 <family>
 <inet6>
 <service-filter>
 <term>
 <from>
 <esp-spi-except>
 <name>name</name> <!-- identifier -->
 </esp-spi-except>
 </from>
 </term>
 </service-filter>
 </inet6>
 </family>
 </firewall>
 </logical-systems>
 </configuration>

Description Do not match IPsec ESP SPI value.

Contents <name>—Range of values.

<esp-spi-except> (configuration/logical-systems/firewall/filter/term/from)

Usage <configuration>
 <logical-systems>
 <firewall>
 <filter>
 <term>
 <from>
 <esp-spi-except>
 <name>name</name> <!-- identifier -->
 </esp-spi-except>
 </from>
 </term>
 </filter>
 </firewall>
 </logical-systems>
 </configuration>

Description Do not match IPSec ESP SPI value.

Contents <name>—Range of values.

<ether-options> (configuration/dynamic-profiles/interfaces/interface)

Usage <configuration>
 <dynamic-profiles>
 <interfaces>
 <interface>
 <ether-options>
 <auto-negotiation/>
 <flow-control/>
 <link-mode>*link-mode-choice*</link-mode>
 <speed>...</speed>
 <ieee-802.3ad>...</ieee-802.3ad>
 </ether-options>
 </interface>
 </interfaces>
 </dynamic-profiles>
 </configuration>

Description Ethernet interface-specific options.

Contents <auto-negotiation>—Enable auto-negotiation.

<flow-control>—Enable flow control.

<ieee-802.3ad>—IEEE 802.3ad.

<link-mode>—Link duplex.

- automatic—Automatic negotiate duplex .
- full-duplex—Full-duplex operation.
- half-duplex—Half-duplex operation.

<speed>—Specify speed.

<ether-options> (configuration/interfaces/interface)

Usage <configuration>
 <interfaces>
 <interface>
 <ether-options>
 <auto-negotiation/>
 <flow-control/>
 <link-mode>*link-mode-choice*</link-mode>
 <speed>...</speed>
 <ieee-802.3ad>...</ieee-802.3ad>
 </ether-options>
 </interface>
 </interfaces>
 </configuration>

Description Ethernet interface-specific options.

Contents <auto-negotiation>—Enable auto-negotiation.

<flow-control>—Enable flow control.

<ieee-802.3ad>—IEEE 802.3ad.

<link-mode>—Link duplex.

- automatic—Automatic negotiate duplex .
- full-duplex—Full-duplex operation.
- half-duplex—Half-duplex operation.

<speed>—Specify speed.

<ether-type> (configuration/firewall/family/bridge/filter/term/from)

Usage <configuration>
 <firewall>
 <family>
 <bridge>
 <filter>
 <term>
 <from>
 <ether-type>
 <name>*name*</name> <!-- identifier -->
 </ether-type>
 </from>
 </term>
 </filter>
 </bridge>
 </family>
 </firewall>
</configuration>

Description Match Ethernet type.

Contents <name>—No documentation is available yet.

- aarp—AppleTalk AARP.
- appletalk—AppleTalk.
- arp—Address Resolution Protocol.
- ipv4—Internet Protocol version 4.
- ipv6—Internet Protocol version 6.
- mpls-multicast—MPLS Multicast.
- mpls-unicast—MPLS Unicast.
- oam—Ethernet OAM.
- ppp—Point-to-point protocol.
- pppoe-discovery—PPPoE Discovery stage.
- pppoe-session—PPPoE Session stage.
- range—Range of values.
- sna—IBM SNA Service on Ether.
- vlan—VLAN Tag Protocol Identifier.

<ether-type> (configuration/firewall/family/ethernet-switching/filter/term/from)

Usage

```

<configuration>
  <firewall>
    <family>
      <ethernet-switching>
        <filter>
          <term>
            <from>
              <ether-type>
                <name>name</name>    <!-- identifier -->
              </ether-type>
            </from>
          </term>
        </filter>
      </ethernet-switching>
    </family>
  </firewall>
</configuration>

```

Description Match Ethernet Type.

Contents <name>—No documentation is available yet.

- aarp—AppleTalk AARP.
- appletalk—AppleTalk.
- arp—Address Resoulution Protocol.
- ipv4—Internet Protocol version 4.
- ipv6—Internet Protocol version 6.
- mpls-multicast—MPLS Multicast.
- mpls-unicast—MPLS Unicast.
- oam—Ethernet OAM.
- ppp—Point-to-point protocol.
- pppoe-discovery—PPPoE Discovery stage.
- pppoe-session—PPPoE Session stage.
- range—Range of values.
- sna—IBM SNA Service on Ether.
- vlan—VLAN Tag Protocol Identifier.

<ether-type> (configuration/firewall/family/vpls/filter/term/from)

Usage <configuration>
 <firewall>
 <family>
 <vpls>
 <filter>
 <term>
 <from>
 <ether-type>
 <name>*name*</name> <!-- identifier -->
 </ether-type>
 </from>
 </term>
 </filter>
 </vpls>
 </family>
 </firewall>
 </configuration>

Description Match Ethernet type.

Contents <name>—No documentation is available yet.

- aarp—AppleTalk AARP.
- appletalk—AppleTalk.
- arp—Address Resoulution Protocol.
- ipv4—Internet Protocol version 4.
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- mpls-multicast—MPLS Multicast.
- mpls-unicast—MPLS Unicast.
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- pppoe-discovery—PPPoE Discovery stage.
- pppoe-session—PPPoE Session stage.
- range—Range of values.
- sna—IBM SNA Service on Ether.
- vlan—VLAN Tag Protocol Identifier.

<ether-type> (configuration/logical-systems/firewall/family/bridge/filter/term/from)

Usage

```

<configuration>
  <logical-systems>
    <firewall>
      <family>
        <bridge>
          <filter>
            <term>
              <from>
                <ether-type>
                  <name>name</name>    <!-- identifier -->
                </ether-type>
              </from>
            </term>
          </filter>
        </bridge>
      </family>
    </firewall>
  </logical-systems>
</configuration>

```

Description Match Ethernet type.

Contents <name>—No documentation is available yet.

- aarp—AppleTalk AARP.
- appletalk—AppleTalk.
- arp—Address Resolution Protocol.
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- mpls-multicast—MPLS Multicast.
- mpls-unicast—MPLS Unicast.
- oam—Ethernet OAM.
- ppp—Point-to-point protocol.
- pppoe-discovery—PPPoE Discovery stage.
- pppoe-session—PPPoE Session stage.
- range—Range of values.
- sna—IBM SNA Service on Ether.
- vlan—VLAN Tag Protocol Identifier.

<ether-type> (configuration/logical-systems/firewall/family/ethernet-switching/filter/term/from)

Usage <configuration>
 <logical-systems>
 <firewall>
 <family>
 <ethernet-switching>
 <filter>
 <term>
 <from>
 <ether-type>
 <name>*name*</name> <!-- identifier -->
 </ether-type>
 </from>
 </term>
 </filter>
 </ethernet-switching>
 </family>
 </firewall>
 </logical-systems>
 </configuration>

Description Match Ethernet Type.

Contents <name>—No documentation is available yet.

- aarp—AppleTalk AARP.
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- ipv6—Internet Protocol version 6.
- mpls-multicast—MPLS Multicast.
- mpls-unicast—MPLS Unicast.
- oam—Ethernet OAM.
- ppp—Point-to-point protocol.
- pppoe-discovery—PPPoE Discovery stage.
- pppoe-session—PPPoE Session stage.
- range—Range of values.
- sna—IBM SNA Service on Ether.
- vlan—VLAN Tag Protocol Identifier.

<ether-type> (configuration/logical-systems/firewall/family/vpls/filter/term/from)

Usage

```

<configuration>
  <logical-systems>
    <firewall>
      <family>
        <vpls>
          <filter>
            <term>
              <from>
                <ether-type>
                  <name>name</name>    <!-- identifier -->
                </ether-type>
              </from>
            </term>
          </filter>
        </vpls>
      </family>
    </firewall>
  </logical-systems>
</configuration>

```

Description Match Ethernet type.

Contents <name>—No documentation is available yet.

- aarp—AppleTalk AARP.
- appletalk—AppleTalk.
- arp—Address Resolution Protocol.
- ipv4—Internet Protocol version 4.
- ipv6—Internet Protocol version 6.
- mpls-multicast—MPLS Multicast.
- mpls-unicast—MPLS Unicast.
- oam—Ethernet OAM.
- ppp—Point-to-point protocol.
- pppoe-discovery—PPPoE Discovery stage.
- pppoe-session—PPPoE Session stage.
- range—Range of values.
- sna—IBM SNA Service on Ether.
- vlan—VLAN Tag Protocol Identifier.

<ether-type-except> (configuration/firewall/family/bridge/filter/term/from)

Usage <configuration>
 <firewall>
 <family>
 <bridge>
 <filter>
 <term>
 <from>
 <ether-type-except>
 <name>*name*</name> <!-- identifier -->
 </ether-type-except>
 </from>
 </term>
 </filter>
 </bridge>
 </family>
 </firewall>
 </configuration>

Description Do not match Ethernet type.

Contents <name>—No documentation is available yet.

- aarp—AppleTalk AARP.
- appletalk—AppleTalk.
- arp—Address Resolution Protocol.
- ipv4—Internet Protocol version 4.
- ipv6—Internet Protocol version 6.
- mpls-multicast—MPLS Multicast.
- mpls-unicast—MPLS Unicast.
- oam—Ethernet OAM.
- ppp—Point-to-point protocol.
- pppoe-discovery—PPPoE Discovery stage.
- pppoe-session—PPPoE Session stage.
- range—Range of values.
- sna—IBM SNA Service on Ether.
- vlan—VLAN Tag Protocol Identifier.

<ether-type-except> (configuration/firewall/family/ethernet-switching/filter/term/from)

Usage <configuration>
 <firewall>
 <family>
 <ethernet-switching>
 <filter>
 <term>
 <from>
 <ether-type-except>
 <name>*name*</name> <!-- identifier -->
 </ether-type-except>
 </from>
 </term>
 </filter>
 </ethernet-switching>
 </family>
 </firewall>
</configuration>

Description Do not match Ethernet Type.

Contents <name>—No documentation is available yet.

- aarp—AppleTalk AARP.
- appletalk—AppleTalk.
- arp—Address Resoulution Protocol.
- ipv4—Internet Protocol version 4.
- ipv6—Internet Protocol version 6.
- mpls-multicast—MPLS Multicast.
- mpls-unicast—MPLS Unicast.
- oam—Ethernet OAM.
- ppp—Point-to-point protocol.
- pppoe-discovery—PPPoE Discovery stage.
- pppoe-session—PPPoE Session stage.
- range—Range of values.
- sna—IBM SNA Service on Ether.
- vlan—VLAN Tag Protocol Identifier.

<ether-type-except> (configuration/firewall/family/vpls/filter/term/from)

Usage <configuration>
 <firewall>
 <family>
 <vpls>
 <filter>
 <term>
 <from>
 <ether-type-except>
 <name>*name*</name> <!-- identifier -->
 </ether-type-except>
 </from>
 </term>
 </filter>
 </vpls>
 </family>
 </firewall>
 </configuration>

Description Do not match Ethernet type.

Contents <name>—No documentation is available yet.

- aarp—AppleTalk AARP.
- appletalk—AppleTalk.
- arp—Address Resolution Protocol.
- ipv4—Internet Protocol version 4.
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- mpls-multicast—MPLS Multicast.
- mpls-unicast—MPLS Unicast.
- oam—Ethernet OAM.
- ppp—Point-to-point protocol.
- pppoe-discovery—PPPoE Discovery stage.
- pppoe-session—PPPoE Session stage.
- range—Range of values.
- sna—IBM SNA Service on Ether.
- vlan—VLAN Tag Protocol Identifier.

<ether-type-except> (configuration/logical-systems/firewall/family/bridge/filter/term/from)

Usage

```

<configuration>
  <logical-systems>
    <firewall>
      <family>
        <bridge>
          <filter>
            <term>
              <from>
                <ether-type-except>
                  <name>name</name>    <!-- identifier -->
                </ether-type-except>
              </from>
            </term>
          </filter>
        </bridge>
      </family>
    </firewall>
  </logical-systems>
</configuration>

```

Description Do not match Ethernet type.

Contents <name>—No documentation is available yet.

- aarp—AppleTalk AARP.
- appletalk—AppleTalk.
- arp—Address Resolution Protocol.
- ipv4—Internet Protocol version 4.
- ipv6—Internet Protocol version 6.
- mpls-multicast—MPLS Multicast.
- mpls-unicast—MPLS Unicast.
- oam—Ethernet OAM.
- ppp—Point-to-point protocol.
- pppoe-discovery—PPPoE Discovery stage.
- pppoe-session—PPPoE Session stage.
- range—Range of values.
- sna—IBM SNA Service on Ether.
- vlan—VLAN Tag Protocol Identifier.

<ether-type-except> (configuration/logical-systems/firewall/family/ethernet-switching/filter/term/from)

Usage <configuration>
 <logical-systems>
 <firewall>
 <family>
 <ethernet-switching>
 <filter>
 <term>
 <from>
 <ether-type-except>
 <name>name</name> <!-- identifier -->
 </ether-type-except>
 </from>
 </term>
 </filter>
 </ethernet-switching>
 </family>
 </firewall>
 </logical-systems>
 </configuration>

Description Do not match Ethernet Type.

Contents <name>—No documentation is available yet.

- aarp—AppleTalk AARP.
- appletalk—AppleTalk.
- arp—Address Resolution Protocol.
- ipv4—Internet Protocol version 4.
- ipv6—Internet Protocol version 6.
- mpls-multicast—MPLS Multicast.
- mpls-unicast—MPLS Unicast.
- oam—Ethernet OAM.
- ppp—Point-to-point protocol.
- pppoe-discovery—PPPoE Discovery stage.
- pppoe-session—PPPoE Session stage.
- range—Range of values.
- sna—IBM SNA Service on Ether.
- vlan—VLAN Tag Protocol Identifier.

<ether-type-except> (configuration/logical-systems/firewall/family/vpls/filter/term/from)

Usage

```

<configuration>
  <logical-systems>
    <firewall>
      <family>
        <vpls>
          <filter>
            <term>
              <from>
                <ether-type-except>
                  <name>name</name>    <!-- identifier -->
                </ether-type-except>
              </from>
            </term>
          </filter>
        </vpls>
      </family>
    </firewall>
  </logical-systems>
</configuration>

```

Description Do not match Ethernet type.

Contents <name>—No documentation is available yet.

- aarp—AppleTalk AARP.
- appletalk—AppleTalk.
- arp—Address Resolution Protocol.
- ipv4—Internet Protocol version 4.
- ipv6—Internet Protocol version 6.
- mpls-multicast—MPLS Multicast.
- mpls-unicast—MPLS Unicast.
- oam—Ethernet OAM.
- ppp—Point-to-point protocol.
- pppoe-discovery—PPPoE Discovery stage.
- pppoe-session—PPPoE Session stage.
- range—Range of values.
- sna—IBM SNA Service on Ether.
- vlan—VLAN Tag Protocol Identifier.

<ethernet> (configuration/chassis/aggregated-devices)

- Usage** `<configuration>`
 `<chassis>`
 `<aggregated-devices>`
 <ethernet>
 `<device-count>device-count</device-count>`
 `<lacp>...</lacp>`
 </ethernet>
 `</aggregated-devices>`
 `</chassis>`
`</configuration>`
- Description** Aggregated device options for Ethernet.
- Contents** `<device-count>`—Number of aggregated Ethernet devices.
 `<lacp>`—Global Link Aggregation Control Protocol configuration.

<ethernet> (configuration/chassis/alarm)

- Usage** `<configuration>`
 `<chassis>`
 `<alarm>`
 <ethernet>
 `<link-down>link-down-choice</link-down>`
 </ethernet>
 `</alarm>`
 `</chassis>`
`</configuration>`
- Description** Ethernet alarms.
- Contents** `<link-down>`—Link has gone down.
- `ignore`—Do not assert any alarm signals.
 - `red`—Assert red system alarm.
 - `yellow`—Assert yellow system alarm.

<ethernet> (configuration/chassis/fpc/pic)

Usage <configuration>
 <chassis>
 <fpc>
 <pic>
 <ethernet>
 <pic-mode>*pic-mode-choice*</pic-mode>
 </ethernet>
 </pic>
 </fpc>
 </chassis>
 </configuration>

Description J-series Ethernet PIM mode configuration.

Contents <pic-mode>—PIC mode.

- enhanced-switching—Enhanced switching mode of operation.
- routing—Routing mode of operation.
- switching—Switched mode of operation.

<ethernet> (configuration/chassis/lcc/fpc/pic)

Usage <configuration>
 <chassis>
 <lcc>
 <fpc>
 <pic>
 <ethernet>
 <pic-mode>*pic-mode-choice*</pic-mode>
 </ethernet>
 </pic>
 </fpc>
 </lcc>
 </chassis>
 </configuration>

Description J-series Ethernet PIM mode configuration.

Contents <pic-mode>—PIC mode.

- enhanced-switching—Enhanced switching mode of operation.
- routing—Routing mode of operation.
- switching—Switched mode of operation.

<ethernet> (configuration/logical-systems/protocols/oam)

Usage	<pre> <configuration> <logical-systems> <protocols> <oam> <ethernet> <link-fault-management>...</link-fault-management> <connectivity-fault-management>...</connectivity-fault-management> </ethernet> </oam> </protocols> </logical-systems> </configuration> </pre>
Description	OAM configuration for Ethernet.
Contents	<p><connectivity-fault-management>—Configurations related to 802.1ag ethernet oam.</p> <p><link-fault-management>—802.3ah Ethernet OAM configuration.</p>

<ethernet> (configuration/protocols/oam)

Usage	<pre> <configuration> <protocols> <oam> <ethernet> <link-fault-management>...</link-fault-management> <connectivity-fault-management>...</connectivity-fault-management> </ethernet> </oam> </protocols> </configuration> </pre>
Description	OAM configuration for Ethernet.
Contents	<p><connectivity-fault-management>—Configurations related to 802.1ag ethernet oam.</p> <p><link-fault-management>—802.3ah Ethernet OAM configuration.</p>

<ethernet-policer-profile> (configuration/dynamic-profiles/interfaces/interface/gigether-options/ethernet-switch-profile)

Usage <configuration>
 <dynamic-profiles>
 <interfaces>
 <interface>
 <gigether-options>
 <ethernet-switch-profile>
 <ethernet-policer-profile>
 <input-priority-map>...</input-priority-map>
 <output-priority-map>...</output-priority-map>
 <policer>...</policer>
 </ethernet-policer-profile>
 </ethernet-switch-profile>
 </gigether-options>
 </interface>
 </interfaces>
 </dynamic-profiles>
 </configuration>

Description Ethernet level CoS-based policer configuration.

Contents <input-priority-map>—Input policer priority map.
 <output-priority-map>—Output policer priority map.
 <policer>—Policer template definition.

<ethernet-policer-profile> (configuration/interfaces/interface/ gigether-options/ethernet-switch-profile)

Usage <configuration>
 <interfaces>
 <interface>
 <gigether-options>
 <ethernet-switch-profile>
 <ethernet-policer-profile>
 <input-priority-map>...</input-priority-map>
 <output-priority-map>...</output-priority-map>
 <policer>...</policer>
 </ethernet-policer-profile>
 </ethernet-switch-profile>
 </gigether-options>
 </interface>
 </interfaces>
 </configuration>

Description Ethernet level CoS-based policer configuration.

Contents <input-priority-map>—Input policer priority map.
 <output-priority-map>—Output policer priority map.
 <policer>—Policer template definition.

<ethernet-ring> (configuration/logical-systems/protocols/protection-group)

Usage <configuration>
 <logical-systems>
 <protocols>
 <protection-group>
 <ethernet-ring>
 <name>*name*</name> <!-- identifier -->
 <node-id>*node-id*</node-id>
 <ring-protection-link-owner/>
 <restore-interval>*minutes*</restore-interval>
 <guard-interval>*milliseconds*</guard-interval>
 <hold-interval>*milliseconds*</hold-interval>
 <east-interface>...</east-interface>
 <west-interface>...</west-interface>
 </ethernet-ring>
 </protection-group>
 </protocols>
 </logical-systems>
 </configuration>

Description Ethernet ring.

Contents <east-interface>—East interface configuration.

 <guard-interval>—Guard timer interval in 10ms.

 <hold-interval>—Hold off timer interval in 100ms steps.

 <name>—Name of Ethernet Ring protection group.

 <node-id>—Node ID of the protection group which should be the bridge MAC address.

 <restore-interval>—Wait to restore interval.

 <ring-protection-link-owner>—Ring protection link owner flag, one ring should have only one node as a ring protection link owner.

 <west-interface>—West interface configuration.

<ethernet-ring> (configuration/protocols/protection-group)

Usage <configuration>
 <protocols>
 <protection-group>
 <ethernet-ring>
 <name>*name*</name> <!-- identifier -->
 <node-id>*node-id*</node-id>
 <ring-protection-link-owner/>
 <restore-interval>*minutes*</restore-interval>
 <guard-interval>*milliseconds*</guard-interval>
 <hold-interval>*milliseconds*</hold-interval>
 <east-interface>...</east-interface>
 <west-interface>...</west-interface>
 </ethernet-ring>
 </protection-group>
 </protocols>
 </configuration>

Description Ethernet ring.

Contents <east-interface>—East interface configuration.

<guard-interval>—Guard timer interval in 10ms.

<hold-interval>—Hold off timer interval in 100ms steps.

<name>—Name of Ethernet Ring protection group.

<node-id>—Node ID of the protection group which should be the bridge MAC address.

<restore-interval>—Wait to restore interval.

<ring-protection-link-owner>—Ring protection link owner flag, one ring should have only one node as a ring protection link owner.

<west-interface>—West interface configuration.

<ethernet-switch-profile> (configuration/dynamic-profiles/interfaces/interface/aggregated-ether-options)

Usage <configuration>
 <dynamic-profiles>
 <interfaces>
 <interface>
 <aggregated-ether-options>
 <ethernet-switch-profile>
 <tag-protocol-id>...</tag-protocol-id>
 </ethernet-switch-profile>
 </aggregated-ether-options>
 </interface>
 </interfaces>
 </dynamic-profiles>
 </configuration>

Description Ethernet virtual LAN/media access control-level options.

Contents <tag-protocol-id>—IEEE 802.1q Tag Protocol Identifier values for VLAN-tagged frames.

<ethernet-switch-profile> (configuration/dynamic-profiles/interfaces/interface/gigether-options)

Usage <configuration>
 <dynamic-profiles>
 <interfaces>
 <interface>
 <gigether-options>
 <ethernet-switch-profile>
 <tag-protocol-id>...</tag-protocol-id>
 <ethernet-policer-profile>...</ethernet-policer-profile>
 <mac-learn-enable/>
 </ethernet-switch-profile>
 </gigether-options>
 </interface>
 </interfaces>
 </dynamic-profiles>
 </configuration>

Description Ethernet virtual LAN/media access control-level options.

Contents <ethernet-policer-profile>—Ethernet level CoS-based policer configuration.

<mac-learn-enable>—Learn MAC addresses dynamically.

<tag-protocol-id>—IEEE 802.1q Tag Protocol Identifier values for VLAN-tagged frames.

<ethernet-switch-profile> (configuration/interfaces/interface/aggregated-ether-options)

Usage	<pre> <configuration> <interfaces> <interface> <aggregated-ether-options> <ethernet-switch-profile> <tag-protocol-id>...</tag-protocol-id> </ethernet-switch-profile> </aggregated-ether-options> </interface> </interfaces> </configuration> </pre>
Description	Ethernet virtual LAN/media access control-level options.
Contents	<pre> <tag-protocol-id>—IEEE 802.1q Tag Protocol Identifier values for VLAN-tagged frames. </pre>

<ethernet-switch-profile> (configuration/interfaces/interface/gigether-options)

Usage	<pre> <configuration> <interfaces> <interface> <gigether-options> <ethernet-switch-profile> <tag-protocol-id>...</tag-protocol-id> <ethernet-policer-profile>...</ethernet-policer-profile> <mac-learn-enable/> </ethernet-switch-profile> </gigether-options> </interface> </interfaces> </configuration> </pre>
Description	Ethernet virtual LAN/media access control-level options.
Contents	<pre> <ethernet-policer-profile>—Ethernet level CoS-based policer configuration. <mac-learn-enable>—Learn MAC addresses dynamically. <tag-protocol-id>—IEEE 802.1q Tag Protocol Identifier values for VLAN-tagged frames. </pre>

<ethernet-switching> (configuration/dynamic-profiles/interfaces/interface/unit/family)

Usage <configuration>
 <dynamic-profiles>
 <interfaces>
 <interface>
 <unit>
 <family>
 <ethernet-switching>
 <port-mode>*port-mode-choice*</port-mode>
 <vlan>...</vlan>
 <native-vlan-id>*native-vlan-id*</native-vlan-id>
 <filter>...</filter>
 </ethernet-switching>
 </family>
 </unit>
 </interface>
 </interfaces>
 </dynamic-profiles>
 </configuration>

Description Ethernet switching parameters.

Contents <filter>—Packet filtering.

<native-vlan-id>—Untagged packets on a trunk interface belong to this vlan.

<port-mode>—Port mode (access or trunk).

- access—Interface mode is access.
- trunk—Interface mode is trunk.

<vlan>—Virtual LAN parameters.

<ethernet-switching> (configuration/firewall/family)

Usage <configuration>
 <firewall>
 <family>
 <ethernet-switching>
 <filter>...</filter>
 </ethernet-switching>
 </family>
 </firewall>
 </configuration>

Description Protocol family Ethernet Switching for firewall filter.

Contents <filter>—Define an Ethernet Switching firewall filter.

<ethernet-switching> (configuration/interfaces/interface/unit/family)

Usage	<pre> <configuration> <interfaces> <interface> <unit> <family> <ethernet-switching> <port-mode>port-mode-choice</port-mode> <vlan>...</vlan> <native-vlan-id>native-vlan-id</native-vlan-id> <filter>...</filter> </ethernet-switching> </family> </unit> </interface> </interfaces> </configuration> </pre>
Description	Ethernet switching parameters.
Contents	<p><filter>—Packet filtering.</p> <p><native-vlan-id>—Untagged packets on a trunk interface belong to this vlan.</p> <p><port-mode>—Port mode (access or trunk).</p> <ul style="list-style-type: none"> ■ access—Interface mode is access. ■ trunk—Interface mode is trunk. <p><vlan>—Virtual LAN parameters.</p>

<ethernet-switching> (configuration/logical-systems/firewall/family)

Usage	<pre> <configuration> <logical-systems> <firewall> <family> <ethernet-switching> <filter>...</filter> </ethernet-switching> </family> </firewall> </logical-systems> </configuration> </pre>
Description	Protocol family Ethernet Switching for firewall filter.
Contents	<filter>—Define an Ethernet Switching firewall filter.

<ethernet-switching> (configuration/logical-systems/interfaces/interface/unit/family)

Usage <configuration>
 <logical-systems>
 <interfaces>
 <interface>
 <unit>
 <family>
 <ethernet-switching>
 <port-mode>*port-mode-choice*</port-mode>
 <vlan>...</vlan>
 <native-vlan-id>*native-vlan-id*</native-vlan-id>
 <filter>...</filter>
 </ethernet-switching>
 </family>
 </unit>
 </interface>
 </interfaces>
 </logical-systems>
 </configuration>

Description Ethernet switching parameters.

Contents <filter>—Packet filtering.

 <native-vlan-id>—Untagged packets on a trunk interface belong to this vlan.

 <port-mode>—Port mode (access or trunk).

- access—Interface mode is access.
- trunk—Interface mode is trunk.

 <vlan>—Virtual LAN parameters.

<event> (configuration/logical-systems/protocols/oam/ethernet/link-fault-management/action-profile)

Usage <configuration>
 <logical-systems>
 <protocols>
 <oam>
 <ethernet>
 <link-fault-management>
 <action-profile>
 <event>
 <link-adjacency-loss/>
 <protocol-down/>
 <link-event-rate>...</link-event-rate>
 </event>
 </action-profile>
 </link-fault-management>
 </ethernet>
 </oam>
 </protocols>
 </logical-systems>
 </configuration>

Description Events this action profile will check.

Contents <link-adjacency-loss>—Loss of adjacency with OAM peer.

 <link-event-rate>—No documentation is available yet.

 <protocol-down>—Upper layer indication on protocol down.

<event> (configuration/protocols/oam/ethernet/link-fault-management/action-profile)

Usage <configuration>
 <protocols>
 <oam>
 <ethernet>
 <link-fault-management>
 <action-profile>
 <event>
 <link-adjacency-loss/>
 <protocol-down/>
 <link-event-rate>...</link-event-rate>
 </event>
 </action-profile>
 </link-fault-management>
 </ethernet>
 </oam>
 </protocols>
 </configuration>

Description Events this action profile will check.

Contents <link-adjacency-loss>—Loss of adjacency with OAM peer.
 <link-event-rate>—No documentation is available yet.
 <protocol-down>—Upper layer indication on protocol down.

<event> (configuration/snmp/rmon)

Usage <configuration>
 <snmp>
 <rmon>
 <event>
 <name>*name*</name> <!-- identifier -->
 <description>*description*</description>
 <type>*type-choice*</type>
 <community>*community*</community>
 </event>
 </rmon>
 </snmp>
 </configuration>

Description RMON event entries.

Contents <community>—The community (trap group) for outgoing traps.

<description>—General description of event.

<name>—RMON event identifier.

<type>—The type of notification for this event.

- log—Add entry to logTable.
- log-and-trap—Send SNMP trap and make log entry.
- none—No notifications.
- snmptrap—Send SNMP trap.

<event-options> (configuration)

Usage	<pre> <configuration> <event-options> <generate-event>...</generate-event> <policy>...</policy> <event-script>...</event-script> <destinations>...</destinations> <traceoptions>...</traceoptions> </event-options> </configuration> </pre>
Description	Event processing configuration.
Contents	<p><destinations>—List of destinations referred to in 'then' clause.</p> <p><event-script>—Configure event-scripts.</p> <p><generate-event>—Generate an internal event.</p> <p><policy>—Event policy for event policy manager.</p> <p><traceoptions>—Trace options for the event processing daemon.</p>

<event-script> (configuration/event-options)

Usage	<pre> <configuration> <event-options> <event-script> <traceoptions>...</traceoptions> <file>...</file> </event-script> </event-options> </configuration> </pre>
Description	Configure event-scripts.
Contents	<p><file>—File name for event script.</p> <p><traceoptions>—Trace options for event scripts.</p>

<event-script> (configuration/event-options/policy/then)

Usage <configuration>
 <event-options>
 <policy>
 <then>
 <event-script>
 <name>*name*</name> <!-- identifier -->
 <arguments>...</arguments>
 <user-name>*user-name*</user-name>
 <output-filename>*output-filename*</output-filename>
 <destination>...</destination>
 <output-format>*output-format-choice*</output-format>
 </event-script>
 </then>
 </policy>
 </event-options>
 </configuration>

Description Invoke event scripts.

Contents <arguments>—Command line argument to the script.

 <destination>—Location to which to upload event script output.

 <name>—Local filename of the script file.

 <output-filename>—Name of file in which to write event script output.

 <output-format>—Format of output from event-script.

- text—Formatted ASCII text.
- xml—JUNOS XML tags.

 <user-name>—User under whose privileges event script will execute.

<event-thresholds> (configuration/logical-systems/protocols/oam/ethernet/link-fault-management/interface)

Usage

```

<configuration>
  <logical-systems>
    <protocols>
      <oam>
        <ethernet>
          <link-fault-management>
            <interface>
              <event-thresholds>
                <symbol-period>symbol-period</symbol-period>
                <frame-error>frame-error</frame-error>
                <frame-period>frame-period</frame-period>
                <frame-period-summary>frame-period-summary
                  </frame-period-summary>
              </event-thresholds>
            </interface>
          </link-fault-management>
        </ethernet>
      </oam>
    </protocols>
  </logical-systems>
</configuration>

```

Description Thresholds for sending 802.3ah events.

Contents

- <frame-error>—Threshold for sending frame error events.
- <frame-period>—Threshold for sending frame period error events.
- <frame-period-summary>—Threshold for sending frame period summary error events.
- <symbol-period>—Threshold for sending symbol period events.

<event-thresholds> (configuration/protocols/oam/ethernet/link-fault-management/interface)

Usage <configuration>
 <protocols>
 <oam>
 <ethernet>
 <link-fault-management>
 <interface>
 <event-thresholds>
 <symbol-period>*symbol-period*</symbol-period>
 <frame-error>*frame-error*</frame-error>
 <frame-period>*frame-period*</frame-period>
 <frame-period-summary>*frame-period-summary*
 </frame-period-summary>
 </event-thresholds>
 </interface>
 </link-fault-management>
 </ethernet>
 </oam>
 </protocols>
 </configuration>

Description Thresholds for sending 802.3ah events.

Contents <frame-error>—Threshold for sending frame error events.

 <frame-period>—Threshold for sending frame period error events.

 <frame-period-summary>—Threshold for sending frame period summary error events.

 <symbol-period>—Threshold for sending symbol period events.

<event-time-stamp> (configuration/access/profile/radius/attributes/exclude)

Usage

```

<configuration>
  <access>
    <profile>
      <radius>
        <attributes>
          <exclude>
            <event-time-stamp>
              <name>name</name>    <!-- identifier -->
            </event-time-stamp>
          </exclude>
        </attributes>
      </radius>
    </profile>
  </access>
</configuration>

```

Description Excludes RADIUS attribute 55, Event-Timestamp.

Contents <name>—Excludes RADIUS attribute 55, Event-Timestamp.

- accounting-off—RADIUS Accounting-Off message.
- accounting-on—RADIUS Accounting-On Message.
- accounting-start—RADIUS Accounting-Start message.
- accounting-stop—RADIUS Accounting-Stop message.

<event-timestamp-notification> (configuration/services/pgcp/gateway/h248-properties)

- Usage** `<configuration>
 <services>
 <pgcp>
 <gateway>
 <h248-properties>
 <event-timestamp-notification>
 <request-timestamp>request-timestamp-choice</request-timestamp>
 </event-timestamp-notification>
 </h248-properties>
 </gateway>
 </pgcp>
 </services>
</configuration>`
- Description** Setting event timestamp notification.
- Contents** `<request-timestamp>`—Notification timestamp.
- `autonomous`—Show timestamp at notify request.
 - `requested`—Send event timestamp.
 - `suppressed`—Dont send event timestamp.

<events> (configuration/event-options/policy)

- Usage** `<configuration>
 <event-options>
 <policy>
 <events>
 <name>name</name> <!-- identifier -->
 </events>
 </policy>
 </event-options>
</configuration>`
- Description** List of events that trigger this policy.
- Contents** `<name>`—No documentation is available yet.

<events> (configuration/event-options/policy/within)

Usage <configuration>
 <event-options>
 <policy>
 <within>
 <events>
 <name>name</name> <!-- identifier -->
 </events>
 </within>
 </policy>
 </event-options>
 </configuration>

Description List of events that must occur within time interval.

Contents <name>—No documentation is available yet.

<events> (configuration/event-options/policy/within/not)

Usage <configuration>
 <event-options>
 <policy>
 <within>
 <not>
 <events>
 <name>name</name> <!-- identifier -->
 </events>
 </not>
 </within>
 </policy>
 </event-options>
 </configuration>

Description List of events that must not occur within time interval.

Contents <name>—No documentation is available yet.

<events> (configuration/system/accounting)

- Usage** <configuration>
 <system>
 <accounting>
 <events>
 <name>name</name> <!-- identifier -->
 </events>
 </accounting>
 </system>
 </configuration>
- Description** Events to be logged.
- Contents** <name>—Events to be logged.
- change-log—Configuration changes.
 - interactive-commands—Commands.
 - login—Login session.

<except> (configuration/logical-systems/policy-options/policy-statement/from/prefix-list-filter/install-nexthop)

- Usage** <configuration>
 <logical-systems>
 <policy-options>
 <policy-statement>
 <from>
 <prefix-list-filter>
 <install-nexthop>
 <except>
 <lsp>...</lsp>
 <lsp-regex>...</lsp-regex>
 </except>
 </install-nexthop>
 </prefix-list-filter>
 </from>
 </policy-statement>
 </policy-options>
 </logical-systems>
 </configuration>
- Description** Do not choose to install matching next hops.
- Contents** <lsp>—Next-hop LSP name.
- <lsp-regex>—Next-hop LSP name regular expression.

**<except> (configuration/logical-systems/policy-options/
policy-statement/from/route-filter/install-nexthop)**

Usage <configuration>
 <logical-systems>
 <policy-options>
 <policy-statement>
 <from>
 <route-filter>
 <install-nexthop>
 <except>
 <lsp>...</lsp>
 <lsp-regex>...</lsp-regex>
 </except>
 </install-nexthop>
 </route-filter>
 </from>
 </policy-statement>
 </policy-options>
 </logical-systems>
</configuration>

Description Do not choose to install matching next hops.

Contents <lsp>—Next-hop LSP name.

<lsp-regex>—Next-hop LSP name regular expression.

<except> (configuration/logical-systems/policy-options/ policy-statement/from/source-address-filter/install-nexthop)

Usage <configuration>
 <logical-systems>
 <policy-options>
 <policy-statement>
 <from>
 <source-address-filter>
 <install-nexthop>
 <except>
 <lsp>...</lsp>
 <lsp-regex>...</lsp-regex>
 </except>
 </install-nexthop>
 </source-address-filter>
 </from>
 </policy-statement>
 </policy-options>
 </logical-systems>
 </configuration>

Description Do not choose to install matching next hops.

Contents <lsp>—Next-hop LSP name.

 <lsp-regex>—Next-hop LSP name regular expression.

<except> (configuration/logical-systems/policy-options/ policy-statement/term/from/prefix-list-filter/install-nexthop)

Usage

```

<configuration>
  <logical-systems>
    <policy-options>
      <policy-statement>
        <term>
          <from>
            <prefix-list-filter>
              <install-nexthop>
                <except>
                  <lsp>...</lsp>
                  <lsp-regex>...</lsp-regex>
                </except>
              </install-nexthop>
            </prefix-list-filter>
          </from>
        </term>
      </policy-statement>
    </policy-options>
  </logical-systems>
</configuration>

```

Description Do not choose to install matching next hops.

Contents <lsp>—Next-hop LSP name.

<lsp-regex>—Next-hop LSP name regular expression.

<except> (configuration/logical-systems/policy-options/ policy-statement/term/from/route-filter/install-nexthop)

Usage <configuration>
 <logical-systems>
 <policy-options>
 <policy-statement>
 <term>
 <from>
 <route-filter>
 <install-nexthop>
 <except>
 <lsp>...</lsp>
 <lsp-regex>...</lsp-regex>
 </except>
 </install-nexthop>
 </route-filter>
 </from>
 </term>
 </policy-statement>
 </policy-options>
 </logical-systems>
 </configuration>

Description Do not choose to install matching next hops.

Contents <lsp>—Next-hop LSP name.

 <lsp-regex>—Next-hop LSP name regular expression.

<except> (configuration/logical-systems/policy-options/ policy-statement/term/from/source-address-filter/install-nexthop)

Usage

```

<configuration>
  <logical-systems>
    <policy-options>
      <policy-statement>
        <term>
          <from>
            <source-address-filter>
              <install-nexthop>
                <except>
                  <lsp>...</lsp>
                  <lsp-regex>...</lsp-regex>
                </except>
              </install-nexthop>
            </source-address-filter>
          </from>
        </term>
      </policy-statement>
    </policy-options>
  </logical-systems>
</configuration>

```

Description Do not choose to install matching next hops.

Contents <lsp>—Next-hop LSP name.

<lsp-regex>—Next-hop LSP name regular expression.

<except> (configuration/logical-systems/policy-options/ policy-statement/term/then/install-nexthop)

Usage <configuration>
 <logical-systems>
 <policy-options>
 <policy-statement>
 <term>
 <then>
 <install-nexthop>
 <except>
 <lsp>...</lsp>
 <lsp-regex>...</lsp-regex>
 </except>
 </install-nexthop>
 </then>
 </term>
 </policy-statement>
 </policy-options>
 </logical-systems>
 </configuration>

Description Do not choose to install matching next hops.

Contents <lsp>—Next-hop LSP name.

<lsp-regex>—Next-hop LSP name regular expression.

<except> (configuration/logical-systems/policy-options/ policy-statement/then/install-nexthop)

Usage <configuration>
 <logical-systems>
 <policy-options>
 <policy-statement>
 <then>
 <install-nexthop>
 <except>
 <lsp>...</lsp>
 <lsp-regex>...</lsp-regex>
 </except>
 </install-nexthop>
 </then>
 </policy-statement>
 </policy-options>
 </logical-systems>
 </configuration>

Description Do not choose to install matching next hops.

Contents <lsp>—Next-hop LSP name.

<lsp-regex>—Next-hop LSP name regular expression.

<except> (configuration/policy-options/policy-statement/from/prefix-list-filter/install-nexthop)

Usage <configuration>
 <policy-options>
 <policy-statement>
 <from>
 <prefix-list-filter>
 <install-nexthop>
<except>
 <lsp>...</lsp>
 <lsp-regex>...</lsp-regex>
</except>
 </install-nexthop>
 </prefix-list-filter>
 </from>
 </policy-statement>
 </policy-options>
 </configuration>

Description Do not choose to install matching next hops.

Contents <lsp>—Next-hop LSP name.

<lsp-regex>—Next-hop LSP name regular expression.

<except> (configuration/policy-options/policy-statement/from/route-filter/install-nexthop)

Usage <configuration>
 <policy-options>
 <policy-statement>
 <from>
 <route-filter>
 <install-nexthop>
<except>
 <lsp>...</lsp>
 <lsp-regex>...</lsp-regex>
</except>
 </install-nexthop>
 </route-filter>
 </from>
 </policy-statement>
 </policy-options>
 </configuration>

Description Do not choose to install matching next hops.

Contents <lsp>—Next-hop LSP name.

<lsp-regex>—Next-hop LSP name regular expression.

<except> (configuration/policy-options/policy-statement/from/source-address-filter/install-nexthop)

Usage <configuration>
 <policy-options>
 <policy-statement>
 <from>
 <source-address-filter>
 <install-nexthop>
 <except>
 <lsp>...</lsp>
 <lsp-regex>...</lsp-regex>
 </except>
 </install-nexthop>
 </source-address-filter>
 </from>
 </policy-statement>
 </policy-options>
 </configuration>

Description Do not choose to install matching next hops.

Contents <lsp>—Next-hop LSP name.
 <lsp-regex>—Next-hop LSP name regular expression.

<except> (configuration/policy-options/policy-statement/term/from/prefix-list-filter/install-nexthop)

Usage <configuration>
 <policy-options>
 <policy-statement>
 <term>
 <from>
 <prefix-list-filter>
 <install-nexthop>
 <except>
 <lsp>...</lsp>
 <lsp-regex>...</lsp-regex>
 </except>
 </install-nexthop>
 </prefix-list-filter>
 </from>
 </term>
 </policy-statement>
 </policy-options>
 </configuration>

Description Do not choose to install matching next hops.

Contents <lsp>—Next-hop LSP name.
 <lsp-regex>—Next-hop LSP name regular expression.

<except> (configuration/policy-options/policy-statement/term/ from/route-filter/install-nexthop)

Usage <configuration>
 <policy-options>
 <policy-statement>
 <term>
 <from>
 <route-filter>
 <install-nexthop>
 <except>
 <lsp>...</lsp>
 <lsp-regex>...</lsp-regex>
 </except>
 </install-nexthop>
 </route-filter>
 </from>
 </term>
 </policy-statement>
 </policy-options>
 </configuration>

Description Do not choose to install matching next hops.

Contents <lsp>—Next-hop LSP name.

<lsp-regex>—Next-hop LSP name regular expression.

<except> (configuration/policy-options/policy-statement/term/ from/source-address-filter/install-nexthop)

Usage <configuration>
 <policy-options>
 <policy-statement>
 <term>
 <from>
 <source-address-filter>
 <install-nexthop>
 <except>
 <lsp>...</lsp>
 <lsp-regex>...</lsp-regex>
 </except>
 </install-nexthop>
 </source-address-filter>
 </from>
 </term>
 </policy-statement>
 </policy-options>
 </configuration>

Description Do not choose to install matching next hops.

Contents <lsp>—Next-hop LSP name.
 <lsp-regex>—Next-hop LSP name regular expression.

<except> (configuration/policy-options/policy-statement/term/ then/install-nexthop)

Usage <configuration>
 <policy-options>
 <policy-statement>
 <term>
 <then>
 <install-nexthop>
 <except>
 <lsp>...</lsp>
 <lsp-regex>...</lsp-regex>
 </except>
 </install-nexthop>
 </then>
 </term>
 </policy-statement>
 </policy-options>
 </configuration>

Description Do not choose to install matching next hops.

Contents <lsp>—Next-hop LSP name.
 <lsp-regex>—Next-hop LSP name regular expression.

<except> (configuration/policy-options/policy-statement/then/install-nexthop)

Usage <configuration>
 <policy-options>
 <policy-statement>
 <then>
 <install-nexthop>
 <except>
 <lsp>...</lsp>
 <lsp-regex>...</lsp-regex>
 </except>
 </install-nexthop>
 </then>
 </policy-statement>
 </policy-options>
 </configuration>

Description Do not choose to install matching next hops.

Contents <lsp>—Next-hop LSP name.

<lsp-regex>—Next-hop LSP name regular expression.

<excess-bandwidth-share> (configuration/class-of-service/interfaces/interface)

Usage <configuration>
 <class-of-service>
 <interfaces>
 <interface>
 <excess-bandwidth-share>
 <proportional>*bits per second*</proportional>
 <equal/>
 </excess-bandwidth-share>
 </interface>
 </interfaces>
 </class-of-service>
 </configuration>

Description Output Excess bandwidth sharing policy.

Contents <equal>—Equal sharing of excess bandwidth.

<proportional>—Maximum Queue Bandwidth.

<excess-bandwidth-share> (configuration/class-of-service/interfaces/interface-set)

Usage	<pre> <configuration> <class-of-service> <interfaces> <interface-set> <excess-bandwidth-share> <proportional>bits per second</proportional> <equal/> </excess-bandwidth-share> </interface-set> </interfaces> </class-of-service> </configuration> </pre>
Description	Output Excess bandwidth sharing policy.
Contents	<p><equal>—Equal sharing of excess bandwidth.</p> <p><proportional>—Maximum Queue Bandwidth.</p>

<excess-bandwidth-share> (configuration/dynamic-profiles/class-of-service/interfaces/interface)

Usage	<pre> <configuration> <dynamic-profiles> <class-of-service> <interfaces> <interface> <excess-bandwidth-share> <proportional>bits per second</proportional> <equal/> </excess-bandwidth-share> </interface> </interfaces> </class-of-service> </dynamic-profiles> </configuration> </pre>
Description	Output Excess bandwidth sharing policy.
Contents	<p><equal>—Equal sharing of excess bandwidth.</p> <p><proportional>—Maximum Queue Bandwidth.</p>

<excess-bandwidth-share> (configuration/dynamic-profiles/class-of-service/interfaces/interface-set)

Usage <configuration>
 <dynamic-profiles>
 <class-of-service>
 <interfaces>
 <interface-set>
 <excess-bandwidth-share>
 <proportional>*bits per second*</proportional>
 <equal/>
 </excess-bandwidth-share>
 </interface-set>
 </interfaces>
 </class-of-service>
 </dynamic-profiles>
 </configuration>

Description Output Excess bandwidth sharing policy.

Contents <equal>—Equal sharing of excess bandwidth.

<proportional>—Maximum Queue Bandwidth.

<excess-rate> (configuration/class-of-service/schedulers)

Usage <configuration>
 <class-of-service>
 <schedulers>
 <excess-rate>
 <percent>*percent*</percent>
 </excess-rate>
 </schedulers>
 </class-of-service>
 </configuration>

Description Excess bandwidth shaing proportion.

Contents <percent>—Excess rate as a percentage.

<excess-rate> (configuration/class-of-service/traffic-control-profiles)

Usage	<pre> <configuration> <class-of-service> <traffic-control-profiles> <excess-rate> <percent>percent</percent> </excess-rate> </traffic-control-profiles> </class-of-service> </configuration> </pre>
Description	Excess bandwidth sharing proportion.
Contents	<percent>—Excess rate as a percentage.

<excess-rate> (configuration/dynamic-profiles/class-of-service/schedulers)

Usage	<pre> <configuration> <dynamic-profiles> <class-of-service> <schedulers> <excess-rate> <percent>percent</percent> </excess-rate> </schedulers> </class-of-service> </dynamic-profiles> </configuration> </pre>
Description	Excess bandwidth shaing proportion.
Contents	<percent>—Excess rate as a percentage.

<excess-rate> (configuration/dynamic-profiles/class-of-service/traffic-control-profiles)

Usage <configuration>
 <dynamic-profiles>
 <class-of-service>
 <traffic-control-profiles>
 <excess-rate>
 <percent>*percent*</percent>
 </excess-rate>
 </traffic-control-profiles>
 </class-of-service>
 </dynamic-profiles>
 </configuration>

Description Excess bandwidth sharing proportion.

Contents <percent>—Excess rate as a percentage.

<excessive-packet-loss-rate> (configuration/dynamic-profiles/interfaces/interface/satop-options)

Usage <configuration>
 <dynamic-profiles>
 <interfaces>
 <interface>
 <satop-options>
 <excessive-packet-loss-rate>
 <threshold>*threshold*</threshold>
 <sample-period>*sample-period*</sample-period>
 </excessive-packet-loss-rate>
 </satop-options>
 </interface>
 </interfaces>
 </dynamic-profiles>
 </configuration>

Description Packet loss options.

Contents <sample-period>—Number of milliseconds over which excessive packet loss rate is calculated.

<threshold>—Percentile designating the threshold of excessive packet loss rate.

<excessive-packet-loss-rate> (configuration/interfaces/ interface/satop-options)

Usage <configuration>
 <interfaces>
 <interface>
 <satop-options>
 <excessive-packet-loss-rate>
 <threshold>*threshold*</threshold>
 <sample-period>*sample-period*</sample-period>
 </excessive-packet-loss-rate>
 </satop-options>
 </interface>
 </interfaces>
 </configuration>

Description Packet loss options.

Contents <sample-period>—Number of milliseconds over which excessive packet loss rate is calculated.

 <threshold>—Percentile designating the threshold of excessive packet loss rate.

<exclude> (configuration/access/profile/radius/attributes)

Usage

```

<configuration>
  <access>
    <profile>
      <radius>
        <attributes>
          <exclude>
            <accounting-authentic>...</accounting-authentic>
            <accounting-delay-time>...</accounting-delay-time>
            <accounting-session-id>...</accounting-session-id>
            <accounting-terminate-cause>...</accounting-terminate-cause>
            <called-station-id>...</called-station-id>
            <calling-station-id>...</calling-station-id>
            <class>...</class>
            <dhcp-options>...</dhcp-options>
            <dhcp-gi-address>...</dhcp-gi-address>
            <dhcp-mac-address>...</dhcp-mac-address>
            <output-filter>...</output-filter>
            <event-time-stamp>...</event-time-stamp>
            <framed-ip-address>...</framed-ip-address>
            <framed-ip-netmask>...</framed-ip-netmask>
            <input-filter>...</input-filter>
            <input-gigapackets>...</input-gigapackets>
            <input-gigawords>...</input-gigawords>
            <interface-description>...</interface-description>
            <nas-identifier>...</nas-identifier>
            <nas-port>...</nas-port>
            <nas-port-id>...</nas-port-id>
            <nas-port-type>...</nas-port-type>
            <output-gigapackets>...</output-gigapackets>
            <output-gigawords>...</output-gigawords>
          </exclude>
        </attributes>
      </radius>
    </profile>
  </access>
</configuration>

```

Description Configures the exclusion of RADIUS attributes in RADIUS messages.

Contents

- <accounting-authentic>—Excludes RADIUS attribute 45, Acct-Authentic.
- <accounting-delay-time>—Excludes RADIUS attribute 41, Acct-Delay-Time.
- <accounting-session-id>—Excludes RADIUS attribute 44, Acct-Session-ID.
- <accounting-terminate-cause>—Excludes RADIUS attribute 49, Acct-Terminate-Cause.
- <called-station-id>—Excludes RADIUS attribute 30, Called-Station-ID.
- <calling-station-id>—Excludes RADIUS attribute 31, Calling-Station-ID.

<class>—Excludes RADIUS attribute 25, Class.

<dhcp-gi-address>—Excludes RADIUS attribute 26-57, DHCP-GI-Address.

<dhcp-mac-address>—Excludes RADIUS attribute 26-56, DHCP-MAC-Address.

<dhcp-options>—Excludes RADIUS attribute 26-55, DHCP-Options.

<event-time-stamp>—Excludes RADIUS attribute 55, Event-Timestamp.

<framed-ip-address>—Excludes RADIUS attribute 8, Framed-IP-Address.

<framed-ip-netmask>—Excludes RADIUS attribute 9, Framed-IP-Netmask.

<input-filter>—Excludes RADIUS attribute 26-10, Ingress-Policy-Name.

<input-gigapackets>—Excludes RADIUS attribute 26-42, Acct-Input-Gigapackets.

<input-gigawords>—Excludes RADIUS attribute 52, Acct-Input-Gigawords.

<interface-description>—Excludes RADIUS attribute 26-63, Interface-Desc.

<nas-identifier>—Excludes RADIUS attribute 32, NAS-identifier.

<nas-port>—Excludes RADIUS attribute 5, NAS-Port.

<nas-port-id>—Excludes RADIUS attribute 87, NAS-Port-ID.

<nas-port-type>—Excludes RADIUS attribute 61, NAS-Port-Type.

<output-filter>—Excludes RADIUS attribute 26-11, Egress-Policy-Name.

<output-gigapackets>—Excludes RADIUS attribute 26-43, Acct-Output-Gigapackets.

<output-gigawords>—Excludes RADIUS attribute 53, Acct-Output-Gigawords.

<exclude> (configuration/logical-systems/protocols/mpls/admin-group)

Usage <configuration>
 <logical-systems>
 <protocols>
 <mpls>
 <admin-group>
 <exclude>
 <name>name</name> <!-- identifier -->
 </exclude>
 </admin-group>
 </mpls>
 </protocols>
 </logical-systems>
 </configuration>

Description Groups, all of which must be absent.

Contents <name>—Groups, all of which must be absent.

<exclude> (configuration/logical-systems/protocols/mpls/label-switched-path/admin-group)

Usage <configuration>
 <logical-systems>
 <protocols>
 <mpls>
 <label-switched-path>
 <admin-group>
 <exclude>
 <name>name</name> <!-- identifier -->
 </exclude>
 </admin-group>
 </label-switched-path>
 </mpls>
 </protocols>
 </logical-systems>
 </configuration>

Description Groups, all of which must be absent.

Contents <name>—Groups, all of which must be absent.

<exclude> (configuration/logical-systems/protocols/mpls/label-switched-path/fast-reroute)

Usage <configuration>
 <logical-systems>
 <protocols>
 <mpls>
 <label-switched-path>
 <fast-reroute>
 <exclude>
 <name>*name*</name> <!-- identifier -->
 </exclude>
 </fast-reroute>
 </label-switched-path>
 </mpls>
 </protocols>
 </logical-systems>
 </configuration>

Description Groups, all of which must be absent.

Contents <name>—Groups, all of which must be absent.

<exclude> (configuration/logical-systems/protocols/mpls/label-switched-path/primary/admin-group)

Usage <configuration>
 <logical-systems>
 <protocols>
 <mpls>
 <label-switched-path>
 <primary>
 <admin-group>
 <exclude>
 <name>*name*</name> <!-- identifier -->
 </exclude>
 </admin-group>
 </primary>
 </label-switched-path>
 </mpls>
 </protocols>
 </logical-systems>
 </configuration>

Description Groups, all of which must be absent.

Contents <name>—Groups, all of which must be absent.

<exclude> (configuration/logical-systems/protocols/mpls/label-switched-path/secondary/admin-group)

Usage <configuration>
 <logical-systems>
 <protocols>
 <mpls>
 <label-switched-path>
 <secondary>
 <admin-group>
 <exclude>
 <name>name</name> <!-- identifier -->
 </exclude>
 </admin-group>
 </secondary>
 </label-switched-path>
 </mpls>
 </protocols>
 </logical-systems>
 </configuration>

Description Groups, all of which must be absent.

Contents <name>—Groups, all of which must be absent.

<exclude> (configuration/logical-systems/protocols/rsvp/interface/link-protection/admin-group)

Usage <configuration>
 <logical-systems>
 <protocols>
 <rsvp>
 <interface>
 <link-protection>
 <admin-group>
 <exclude>
 <name>name</name> <!-- identifier -->
 </exclude>
 </admin-group>
 </link-protection>
 </interface>
 </rsvp>
 </protocols>
 </logical-systems>
 </configuration>

Description Groups, all of which must be absent.

Contents <name>—Groups, all of which must be absent.

<exclude> (configuration/logical-systems/protocols/rsvp/ interface/link-protection/bypass/admin-group)

Usage <configuration>
 <logical-systems>
 <protocols>
 <rsvp>
 <interface>
 <link-protection>
 <bypass>
 <admin-group>
 <exclude>
 <name>name</name> <!-- identifier -->
 </exclude>
 </admin-group>
 </bypass>
 </link-protection>
 </interface>
 </rsvp>
 </protocols>
 </logical-systems>
 </configuration>

Description Groups, all of which must be absent.

Contents <name>—Groups, all of which must be absent.

<exclude> (configuration/protocols/mpls/admin-group)

Usage <configuration>
 <protocols>
 <mpls>
 <admin-group>
 <exclude>
 <name>name</name> <!-- identifier -->
 </exclude>
 </admin-group>
 </mpls>
 </protocols>
 </configuration>

Description Groups, all of which must be absent.

Contents <name>—Groups, all of which must be absent.

<exclude> (configuration/protocols/mpls/label-switched-path/admin-group)

Usage <configuration>
 <protocols>
 <mpls>
 <label-switched-path>
 <admin-group>
 <exclude>
 <name>*name*</name> <!-- identifier -->
 </exclude>
 </admin-group>
 </label-switched-path>
 </mpls>
 </protocols>
 </configuration>

Description Groups, all of which must be absent.

Contents <name>—Groups, all of which must be absent.

<exclude> (configuration/protocols/mpls/label-switched-path/fast-reroute)

Usage <configuration>
 <protocols>
 <mpls>
 <label-switched-path>
 <fast-reroute>
 <exclude>
 <name>*name*</name> <!-- identifier -->
 </exclude>
 </fast-reroute>
 </label-switched-path>
 </mpls>
 </protocols>
 </configuration>

Description Groups, all of which must be absent.

Contents <name>—Groups, all of which must be absent.

<exclude> (configuration/protocols/mpls/label-switched-path/primary/admin-group)

Usage <configuration>
 <protocols>
 <mpls>
 <label-switched-path>
 <primary>
 <admin-group>
 <exclude>
 <name>name</name> <!-- identifier -->
 </exclude>
 </admin-group>
 </primary>
 </label-switched-path>
 </mpls>
 </protocols>
 </configuration>

Description Groups, all of which must be absent.

Contents <name>—Groups, all of which must be absent.

<exclude> (configuration/protocols/mpls/label-switched-path/secondary/admin-group)

Usage <configuration>
 <protocols>
 <mpls>
 <label-switched-path>
 <secondary>
 <admin-group>
 <exclude>
 <name>name</name> <!-- identifier -->
 </exclude>
 </admin-group>
 </secondary>
 </label-switched-path>
 </mpls>
 </protocols>
 </configuration>

Description Groups, all of which must be absent.

Contents <name>—Groups, all of which must be absent.

<exclude> (configuration/protocols/rsvp/interface/link-protection/admin-group)

Usage <configuration>
 <protocols>
 <rsvp>
 <interface>
 <link-protection>
 <admin-group>
 <exclude>
 <name>name</name> <!-- identifier -->
 </exclude>
 </admin-group>
 </link-protection>
 </interface>
 </rsvp>
 </protocols>
 </configuration>

Description Groups, all of which must be absent.

Contents <name>—Groups, all of which must be absent.

<exclude> (configuration/protocols/rsvp/interface/link-protection/bypass/admin-group)

Usage <configuration>
 <protocols>
 <rsvp>
 <interface>
 <link-protection>
 <bypass>
 <admin-group>
 <exclude>
 <name>name</name> <!-- identifier -->
 </exclude>
 </admin-group>
 </bypass>
 </link-protection>
 </interface>
 </rsvp>
 </protocols>
 </configuration>

Description Groups, all of which must be absent.

Contents <name>—Groups, all of which must be absent.

<exclude-address> (configuration/system/services/dhcp/pool)

Usage <configuration>
 <system>
 <services>
 <dhcp>
 <pool>
 <exclude-address>
 <name>*name*</name> <!-- identifier -->
 </exclude-address>
 </pool>
 </dhcp>
 </services>
 </system>
 </configuration>

Description Address to exclude from pool.

Contents <name>—IPv4 address.

<execute-commands> (configuration/event-options/policy/then)

Usage <configuration>
 <event-options>
 <policy>
 <then>
 <execute-commands>
 <commands>...</commands> <!-- mandatory -->
 <user-name>*user-name*</user-name>
 <output-filename>*output-filename*</output-filename>
 <destination>...</destination>
 <output-format>*output-format-choice*</output-format>
 </execute-commands>
 </then>
 </policy>
 </event-options>
 </configuration>

Description Issue one or more CLI commands.

Contents <commands>—List of CLI commands to issue.

 <destination>—Location to which to upload command output.

 <output-filename>—Name of file in which to write command output.

 <output-format>—Format of output from CLI commands.

- text—Formatted ASCII text.
- xml—JUNOS XML tags.

 <user-name>—User under whose privileges command will execute.

<exp> (configuration/class-of-service/classifiers)

Usage	<pre> <configuration> <class-of-service> <classifiers> <exp> <name>name</name> <!-- identifier --> <import>import</import> <forwarding-class>...</forwarding-class> </exp> </classifiers> </class-of-service> </configuration> </pre>
Description	MPLS EXP classifier.
Contents	<p><forwarding-class>—Define a classification of code point aliases.</p> <p><import>—Include this classifier in this definition.</p> <p><name>—Classifier name.</p>

<exp> (configuration/class-of-service/code-point-aliases)

Usage	<pre> <configuration> <class-of-service> <code-point-aliases> <exp> <name>name</name> <!-- identifier --> <bits>bits</bits> <!-- mandatory --> </exp> </code-point-aliases> </class-of-service> </configuration> </pre>
Description	MPLS EXP code point aliases.
Contents	<p><bits>—EXP 3-bit pattern.</p> <p><name>—EXP alias name.</p>

<exp> (configuration/class-of-service/interfaces/interface/unit/classifiers)

Usage	<pre> <configuration> <class-of-service> <interfaces> <interface> <unit> <classifiers> <exp> <classifier-name>classifier-name</classifier-name> </exp> </classifiers> </unit> </interface> </interfaces> </class-of-service> </configuration> </pre>
Description	EXP classifier.
Contents	<classifier-name>—Name of classifier to be applied.

<exp> (configuration/class-of-service/interfaces/interface/unit/rewrite-rules)

Usage	<pre> <configuration> <class-of-service> <interfaces> <interface> <unit> <rewrite-rules> <exp> <name>name</name> <!-- identifier --> <protocol>...</protocol> </exp> </rewrite-rules> </unit> </interface> </interfaces> </class-of-service> </configuration> </pre>
Description	EXP rewrite rule.
Contents	<p><name>—Name of rewrite rule to be applied.</p> <p><protocol>—Specify protocol matching criteria.</p>

<exp> (configuration/class-of-service/rewrite-rules)

Usage	<pre> <configuration> <class-of-service> <rewrite-rules> <exp> <name>name</name> <!-- identifier --> <import>import</import> <forwarding-class>...</forwarding-class> </exp> </rewrite-rules> </class-of-service> </configuration> </pre>
Description	MPLS EXP rewrite rule.
Contents	<p><forwarding-class>—Markings for named forwarding class.</p> <p><import>—Include this rewrite rule in this definition.</p> <p><name>—Rewrite rule name.</p>

<exp> (configuration/class-of-service/routing-instances/classifiers)

Usage	<pre> <configuration> <class-of-service> <routing-instances> <classifiers> <exp> <classifier-name>classifier-name</classifier-name> </exp> </classifiers> </routing-instances> </class-of-service> </configuration> </pre>
Description	EXP classifier.
Contents	<classifier-name>—Name of classifier to be applied.

<exp> (configuration/dynamic-profiles/class-of-service/classifiers)

Usage	<pre> <configuration> <dynamic-profiles> <class-of-service> <classifiers> <exp> <name>name</name> <!-- identifier --> <import>import</import> <forwarding-class>...</forwarding-class> </exp> </classifiers> </class-of-service> </dynamic-profiles> </configuration> </pre>
Description	MPLS EXP classifier.
Contents	<p><forwarding-class>—Define a classification of code point aliases.</p> <p><import>—Include this classifier in this definition.</p> <p><name>—Classifier name.</p>

<exp> (configuration/dynamic-profiles/class-of-service/code-point-aliases)

Usage	<pre> <configuration> <dynamic-profiles> <class-of-service> <code-point-aliases> <exp> <name>name</name> <!-- identifier --> <bits>bits</bits> <!-- mandatory --> </exp> </code-point-aliases> </class-of-service> </dynamic-profiles> </configuration> </pre>
Description	MPLS EXP code point aliases.
Contents	<p><bits>—EXP 3-bit pattern.</p> <p><name>—EXP alias name.</p>

<exp> (configuration/dynamic-profiles/class-of-service/interfaces/interface/unit/classifiers)

Usage <configuration>
 <dynamic-profiles>
 <class-of-service>
 <interfaces>
 <interface>
 <unit>
 <classifiers>
 <exp>
 <classifier-name>*classifier-name*</classifier-name>
 </exp>
 </classifiers>
 </unit>
 </interface>
 </interfaces>
 </class-of-service>
 </dynamic-profiles>
 </configuration>

Description EXP classifier.

Contents <classifier-name>—Name of classifier to be applied.

<exp> (configuration/dynamic-profiles/class-of-service/interfaces/interface/unit/rewrite-rules)

Usage <configuration>
 <dynamic-profiles>
 <class-of-service>
 <interfaces>
 <interface>
 <unit>
 <rewrite-rules>
 <exp>
 <name>*name*</name> <!-- identifier -->
 <protocol>...</protocol>
 </exp>
 </rewrite-rules>
 </unit>
 </interface>
 </interfaces>
 </class-of-service>
 </dynamic-profiles>
 </configuration>

Description EXP rewrite rule.

Contents <name>—Name of rewrite rule to be applied.

<protocol>—Specify protocol matching criteria.

<exp> (configuration/dynamic-profiles/class-of-service/rewrite-rules)

Usage	<pre> <configuration> <dynamic-profiles> <class-of-service> <rewrite-rules> <exp> <name>name</name> <!-- identifier --> <import>import</import> <forwarding-class>...</forwarding-class> </exp> </rewrite-rules> </class-of-service> </dynamic-profiles> </configuration> </pre>
Description	MPLS EXP rewrite rule.
Contents	<p><forwarding-class>—Markings for named forwarding class.</p> <p><import>—Include this rewrite rule in this definition.</p> <p><name>—Rewrite rule name.</p>

<exp> (configuration/dynamic-profiles/class-of-service/routing-instances/classifiers)

Usage	<pre> <configuration> <dynamic-profiles> <class-of-service> <routing-instances> <classifiers> <exp> <classifier-name>classifier-name</classifier-name> </exp> </classifiers> </routing-instances> </class-of-service> </dynamic-profiles> </configuration> </pre>
Description	EXP classifier.
Contents	<classifier-name>—Name of classifier to be applied.

<exp> (configuration/firewall/family/mpls/filter/term/from)

Usage <configuration>
 <firewall>
 <family>
 <mpls>
 <filter>
 <term>
 <from>
 <exp>
 <name>name</name> <!-- identifier -->
 </exp>
 </from>
 </term>
 </filter>
 </mpls>
 </family>
 </firewall>
 </configuration>

Description Match MPLS EXP bits.

Contents <name>—Range of values between 0 and 7 in decimal, binary or hex.

<exp> (configuration/logical-systems/firewall/family/mpls/filter/term/from)

Usage <configuration>
 <logical-systems>
 <firewall>
 <family>
 <mpls>
 <filter>
 <term>
 <from>
 <exp>
 <name>name</name> <!-- identifier -->
 </exp>
 </from>
 </term>
 </filter>
 </mpls>
 </family>
 </firewall>
 </logical-systems>
 </configuration>

Description Match MPLS EXP bits.

Contents <name>—Range of values between 0 and 7 in decimal, binary or hex.

<exp-except> (configuration/firewall/family/mpls/filter/term/from)

Usage <configuration>
 <firewall>
 <family>
 <mpls>
 <filter>
 <term>
 <from>
 <exp-except>
 <name>*name*</name> <!-- identifier -->
 </exp-except>
 </from>
 </term>
 </filter>
 </mpls>
 </family>
 </firewall>
 </configuration>

Description Do not match MPLS EXP bits.

Contents <name>—Range of values between 0 and 7 in decimal, binary or hex.

<exp-except> (configuration/logical-systems/firewall/family/mpls/filter/term/from)

Usage <configuration>
 <logical-systems>
 <firewall>
 <family>
 <mpls>
 <filter>
 <term>
 <from>
 <exp-except>
 <name>*name*</name> <!-- identifier -->
 </exp-except>
 </from>
 </term>
 </filter>
 </mpls>
 </family>
 </firewall>
 </logical-systems>
 </configuration>

Description Do not match MPLS EXP bits.

Contents <name>—Range of values between 0 and 7 in decimal, binary or hex.

<exp-push-push-push> (configuration/class-of-service/interfaces/interface/unit/rewrite-rules)

Usage <configuration>
 <class-of-service>
 <interfaces>
 <interface>
 <unit>
 <rewrite-rules>
 <exp-push-push-push>
 <default/>
 </exp-push-push-push>
 </rewrite-rules>
 </unit>
 </interface>
 </interfaces>
 </class-of-service>
</configuration>

Description Top-label EXP rewrite rule for push-push-push operation.

Contents <default>—Apply default rewrite rule.

<exp-push-push-push> (configuration/dynamic-profiles/class-of-service/interfaces/interface/unit/rewrite-rules)

Usage <configuration>
 <dynamic-profiles>
 <class-of-service>
 <interfaces>
 <interface>
 <unit>
 <rewrite-rules>
 <exp-push-push-push>
 <default/>
 </exp-push-push-push>
 </rewrite-rules>
 </unit>
 </interface>
 </interfaces>
 </class-of-service>
</dynamic-profiles>
</configuration>

Description Top-label EXP rewrite rule for push-push-push operation.

Contents <default>—Apply default rewrite rule.

<exp-swap-push-push> (configuration/class-of-service/interfaces/interface/unit/rewrite-rules)

Usage <configuration>
 <class-of-service>
 <interfaces>
 <interface>
 <unit>
 <rewrite-rules>
 <exp-swap-push-push>
 <default/>
 </exp-swap-push-push>
 </rewrite-rules>
 </unit>
 </interface>
 </interfaces>
 </class-of-service>
</configuration>

Description Copy incoming EXP into all swap-push-push labels.

Contents <default>—Apply default rewrite rule.

<exp-swap-push-push> (configuration/dynamic-profiles/class-of-service/interfaces/interface/unit/rewrite-rules)

Usage <configuration>
 <dynamic-profiles>
 <class-of-service>
 <interfaces>
 <interface>
 <unit>
 <rewrite-rules>
 <exp-swap-push-push>
 <default/>
 </exp-swap-push-push>
 </rewrite-rules>
 </unit>
 </interface>
 </interfaces>
 </class-of-service>
</dynamic-profiles>
</configuration>

Description Copy incoming EXP into all swap-push-push labels.

Contents <default>—Apply default rewrite rule.

<explicit-null> (configuration/logical-systems/protocols/bgp/family/inet/labeled-unicast)

Usage <configuration>
 <logical-systems>
 <protocols>
 <bgp>
 <family>
 <inet>
 <labeled-unicast>
 <explicit-null>
 <connected-only/> <!-- mandatory -->
 </explicit-null>
 </labeled-unicast>
 </inet>
 </family>
 </bgp>
 </protocols>
 </logical-systems>
 </configuration>

Description Advertise explicit null.

Contents <connected-only>—Advertise explicit null only for connected routes.

<explicit-null> (configuration/logical-systems/protocols/bgp/group/family/inet/labeled-unicast)

Usage <configuration>
 <logical-systems>
 <protocols>
 <bgp>
 <group>
 <family>
 <inet>
 <labeled-unicast>
 <explicit-null>
 <connected-only/> <!-- mandatory -->
 </explicit-null>
 </labeled-unicast>
 </inet>
 </family>
 </group>
 </bgp>
 </protocols>
 </logical-systems>
 </configuration>

Description Advertise explicit null.

Contents <connected-only>—Advertise explicit null only for connected routes.

<explicit-null> (configuration/logical-systems/protocols/bgp/group/neighbor/family/inet/labeled-unicast)

Usage

```

<configuration>
  <logical-systems>
    <protocols>
      <bgp>
        <group>
          <neighbor>
            <family>
              <inet>
                <labeled-unicast>
                  <explicit-null>
                    <connected-only/>    <!-- mandatory -->
                  </explicit-null>
                </labeled-unicast>
              </inet>
            </family>
          </neighbor>
        </group>
      </bgp>
    </protocols>
  </logical-systems>
</configuration>

```

Description Advertise explicit null.

Contents <connected-only>—Advertise explicit null only for connected routes.

<explicit-null> (configuration/logical-systems/ routing-instances/instance/protocols/bgp/family/inet/ labeled-unicast)

Usage

```

<configuration>
  <logical-systems>
    <routing-instances>
      <instance>
        <protocols>
          <bgp>
            <family>
              <inet>
                <labeled-unicast>
                  <explicit-null>
                    <connected-only/>    <!-- mandatory -->
                  </explicit-null>
                </labeled-unicast>
              </inet>
            </family>
          </bgp>
        </protocols>
      </instance>
    </routing-instances>
  </logical-systems>
</configuration>

```

Description Advertise explicit null.

Contents <connected-only>—Advertise explicit null only for connected routes.

<explicit-null> (configuration/logical-systems/ routing-instances/instance/protocols/bgp/group/family/inet/ labeled-unicast)

Usage

```

<configuration>
  <logical-systems>
    <routing-instances>
      <instance>
        <protocols>
          <bgp>
            <group>
              <family>
                <inet>
                  <labeled-unicast>
                    <explicit-null>
                      <connected-only/>    <!-- mandatory -->
                    </explicit-null>
                  </labeled-unicast>
                </inet>
              </family>
            </group>
          </bgp>
        </protocols>
      </instance>
    </routing-instances>
  </logical-systems>
</configuration>

```

Description Advertise explicit null.

Contents <connected-only>—Advertise explicit null only for connected routes.

<explicit-null> (configuration/logical-systems/ routing-instances/instance/protocols/bgp/group/neighbor/family/ inet/labeled-unicast)

Usage

```

<configuration>
  <logical-systems>
    <routing-instances>
      <instance>
        <protocols>
          <bgp>
            <group>
              <neighbor>
                <family>
                  <inet>
                    <labeled-unicast>
                      <explicit-null>
                        <connected-only/>    <!-- mandatory -->
                      </explicit-null>
                    </labeled-unicast>
                  </inet>
                </family>
              </neighbor>
            </group>
          </bgp>
        </protocols>
      </instance>
    </routing-instances>
  </logical-systems>
</configuration>

```

Description Advertise explicit null.

Contents <connected-only>—Advertise explicit null only for connected routes.

<explicit-null> (configuration/protocols/bgp/family/inet/ labeled-unicast)

Usage <configuration>
 <protocols>
 <bgp>
 <family>
 <inet>
 <labeled-unicast>
 <explicit-null>
 <connected-only/> <!-- mandatory -->
 </explicit-null>
 </labeled-unicast>
 </inet>
 </family>
 </bgp>
 </protocols>
 </configuration>

Description Advertise explicit null.

Contents <connected-only>—Advertise explicit null only for connected routes.

<explicit-null> (configuration/protocols/bgp/group/family/inet/ labeled-unicast)

Usage <configuration>
 <protocols>
 <bgp>
 <group>
 <family>
 <inet>
 <labeled-unicast>
 <explicit-null>
 <connected-only/> <!-- mandatory -->
 </explicit-null>
 </labeled-unicast>
 </inet>
 </family>
 </group>
 </bgp>
 </protocols>
 </configuration>

Description Advertise explicit null.

Contents <connected-only>—Advertise explicit null only for connected routes.

<explicit-null> (configuration/protocols/bgp/group/neighbor/family/inet/labeled-unicast)

Usage <configuration>
 <protocols>
 <bgp>
 <group>
 <neighbor>
 <family>
 <inet>
 <labeled-unicast>
 <explicit-null>
 <connected-only/> <!-- mandatory -->
 </explicit-null>
 </labeled-unicast>
 </inet>
 </family>
 </neighbor>
 </group>
 </bgp>
 </protocols>
 </configuration>

Description Advertise explicit null.

Contents <connected-only>—Advertise explicit null only for connected routes.

<explicit-null> (configuration/routing-instances/instance/protocols/bgp/family/inet/labeled-unicast)

Usage <configuration>
 <routing-instances>
 <instance>
 <protocols>
 <bgp>
 <family>
 <inet>
 <labeled-unicast>
 <explicit-null>
 <connected-only/> <!-- mandatory -->
 </explicit-null>
 </labeled-unicast>
 </inet>
 </family>
 </bgp>
 </protocols>
 </instance>
 </routing-instances>
 </configuration>

Description Advertise explicit null.

Contents <connected-only>—Advertise explicit null only for connected routes.

<explicit-null> (configuration/routing-instances/instance/protocols/bgp/group/family/inet/labeled-unicast)

Usage <configuration>
 <routing-instances>
 <instance>
 <protocols>
 <bgp>
 <group>
 <family>
 <inet>
 <labeled-unicast>
 <explicit-null>
 <connected-only/> <!-- mandatory -->
 </explicit-null>
 </labeled-unicast>
 </inet>
 </family>
 </group>
 </bgp>
 </protocols>
 </instance>
 </routing-instances>
 </configuration>

Description Advertise explicit null.

Contents <connected-only>—Advertise explicit null only for connected routes.

<explicit-null> (configuration/routing-instances/instance/protocols/bgp/group/neighbor/family/inet/labeled-unicast)

Usage

```

<configuration>
  <routing-instances>
    <instance>
      <protocols>
        <bgp>
          <group>
            <neighbor>
              <family>
                <inet>
                  <labeled-unicast>
                    <explicit-null>
                      <connected-only/>    <!-- mandatory -->
                    </explicit-null>
                  </labeled-unicast>
                </inet>
              </family>
            </neighbor>
          </group>
        </bgp>
      </protocols>
    </instance>
  </routing-instances>
</configuration>

```

Description Advertise explicit null.

Contents <connected-only>—Advertise explicit null only for connected routes.

<export> (configuration/logical-systems/protocols/bgp)

Usage

```

<configuration>
  <logical-systems>
    <protocols>
      <bgp>
        <export>
          <name>name</name>    <!-- identifier -->
        </export>
      </bgp>
    </protocols>
  </logical-systems>
</configuration>

```

Description Export policy.

Contents <name>—Export policy.

<export> (configuration/logical-systems/protocols/bgp/group)

Usage <configuration>
 <logical-systems>
 <protocols>
 <bgp>
 <group>
 <export>
 <name>*name*</name> <!-- identifier -->
 </export>
 </group>
 </bgp>
 </protocols>
 </logical-systems>
 </configuration>

Description Export policy.

Contents <name>—Export policy.

<export> (configuration/logical-systems/protocols/bgp/group/neighbor)

Usage <configuration>
 <logical-systems>
 <protocols>
 <bgp>
 <group>
 <neighbor>
 <export>
 <name>*name*</name> <!-- identifier -->
 </export>
 </neighbor>
 </group>
 </bgp>
 </protocols>
 </logical-systems>
 </configuration>

Description Export policy.

Contents <name>—Export policy.

<export> (configuration/logical-systems/protocols/dvmp)

Usage	<pre><configuration> <logical-systems> <protocols> <dvmp> <export> <name>name</name> <!-- identifier --> </export> </dvmp> </protocols> </logical-systems> </configuration></pre>
Description	Export policy.
Contents	<name>—Export policy.

<export> (configuration/logical-systems/protocols/isis)

Usage	<pre><configuration> <logical-systems> <protocols> <isis> <export> <name>name</name> <!-- identifier --> </export> </isis> </protocols> </logical-systems> </configuration></pre>
Description	Export policy.
Contents	<name>—Export policy.

<export> (configuration/logical-systems/protocols/ldp)

Usage <configuration>
 <logical-systems>
 <protocols>
 <ldp>
 <export>
 <name>name</name> <!-- identifier -->
 </export>
 </ldp>
 </protocols>
 </logical-systems>
 </configuration>

Description Export policy.

Contents <name>—Export policy.

<export> (configuration/logical-systems/protocols/msdp)

Usage <configuration>
 <logical-systems>
 <protocols>
 <msdp>
 <export>
 <name>name</name> <!-- identifier -->
 </export>
 </msdp>
 </protocols>
 </logical-systems>
 </configuration>

Description Export policy.

Contents <name>—Export policy.

<export> (configuration/logical-systems/protocols/msdp/group)

Usage <configuration>
 <logical-systems>
 <protocols>
 <msdp>
 <group>
 <export>
 <name>*name*</name> <!-- identifier -->
 </export>
 </group>
 </msdp>
 </protocols>
 </logical-systems>
 </configuration>

Description Export policy.

Contents <name>—Export policy.

<export> (configuration/logical-systems/protocols/msdp/group/peer)

Usage <configuration>
 <logical-systems>
 <protocols>
 <msdp>
 <group>
 <peer>
 <export>
 <name>*name*</name> <!-- identifier -->
 </export>
 </peer>
 </group>
 </msdp>
 </protocols>
 </logical-systems>
 </configuration>

Description Export policy.

Contents <name>—Export policy.

<export> (configuration/logical-systems/protocols/msdp/peer)

Usage <configuration>
 <logical-systems>
 <protocols>
 <msdp>
 <peer>
 <export>
 <name>*name*</name> <!-- identifier -->
 </export>
 </peer>
 </msdp>
 </protocols>
 </logical-systems>
 </configuration>

Description Export policy.

Contents <name>—Export policy.

<export> (configuration/logical-systems/protocols/ospf)

Usage <configuration>
 <logical-systems>
 <protocols>
 <ospf>
 <export>
 <name>*name*</name> <!-- identifier -->
 </export>
 </ospf>
 </protocols>
 </logical-systems>
 </configuration>

Description Export policy.

Contents <name>—Export policy.

<export> (configuration/logical-systems/protocols/ospf3)

Usage <configuration>
 <logical-systems>
 <protocols>
 <ospf3>
 <export>
 <name>name</name> <!-- identifier -->
 </export>
 </ospf3>
 </protocols>
 </logical-systems>
 </configuration>

Description Export policy.

Contents <name>—Export policy.

<export> (configuration/logical-systems/protocols/ospf3/realm)

Usage <configuration>
 <logical-systems>
 <protocols>
 <ospf3>
 <realm>
 <export>
 <name>name</name> <!-- identifier -->
 </export>
 </realm>
 </ospf3>
 </protocols>
 </logical-systems>
 </configuration>

Description Export policy.

Contents <name>—Export policy.

<export> (configuration/logical-systems/protocols/pim/rp/bootstrap/family/inet)

Usage <configuration>
 <logical-systems>
 <protocols>
 <pim>
 <rp>
 <bootstrap>
 <family>
 <inet>
 <export>
 <name>name</name> <!-- identifier -->
 </export>
 </inet>
 </family>
 </bootstrap>
 </rp>
 </pim>
 </protocols>
 </logical-systems>
</configuration>

Description Bootstrap export policy.

Contents <name>—Bootstrap export policy.

<export> (configuration/logical-systems/protocols/pim/rp/bootstrap/family/inet6)

Usage <configuration>
 <logical-systems>
 <protocols>
 <pim>
 <rp>
 <bootstrap>
 <family>
 <inet6>
 <export>
 <name>name</name> <!-- identifier -->
 </export>
 </inet6>
 </family>
 </bootstrap>
 </rp>
 </pim>
 </protocols>
 </logical-systems>
</configuration>

Description Bootstrap export policy.

Contents <name>—Bootstrap export policy.

<export> (configuration/logical-systems/protocols/rip/group)

Usage <configuration>
 <logical-systems>
 <protocols>
 <rip>
 <group>
 <export>
 <name>*name*</name> <!-- identifier -->
 </export>
 </group>
 </rip>
 </protocols>
 </logical-systems>
 </configuration>

Description Export policy.

Contents <name>—Export policy.

<export> (configuration/logical-systems/protocols/ripng/group)

Usage <configuration>
 <logical-systems>
 <protocols>
 <ripng>
 <group>
 <export>
 <name>*name*</name> <!-- identifier -->
 </export>
 </group>
 </ripng>
 </protocols>
 </logical-systems>
 </configuration>

Description Export policy.

Contents <name>—Export policy.

<export> (configuration/logical-systems/routing-instances/instance/protocols/bgp)

Usage <configuration>
 <logical-systems>
 <routing-instances>
 <instance>
 <protocols>
 <bgp>
 <export>
 <name>*name*</name> <!-- identifier -->
 </export>
 </bgp>
 </protocols>
 </instance>
 </routing-instances>
 </logical-systems>
 </configuration>

Description Export policy.

Contents <name>—Export policy.

<export> (configuration/logical-systems/routing-instances/instance/protocols/bgp/group)

Usage <configuration>
 <logical-systems>
 <routing-instances>
 <instance>
 <protocols>
 <bgp>
 <group>
 <export>
 <name>*name*</name> <!-- identifier -->
 </export>
 </group>
 </bgp>
 </protocols>
 </instance>
 </routing-instances>
 </logical-systems>
 </configuration>

Description Export policy.

Contents <name>—Export policy.

<export> (configuration/logical-systems/routing-instances/instance/protocols/bgp/group/neighbor)

Usage <configuration>
 <logical-systems>
 <routing-instances>
 <instance>
 <protocols>
 <bgp>
 <group>
 <neighbor>
<export>
 <name>name</name> <!-- identifier -->
</export>
 </neighbor>
 </group>
 </bgp>
 </protocols>
 </instance>
 </routing-instances>
 </logical-systems>
 </configuration>

Description Export policy.

Contents <name>—Export policy.

<export> (configuration/logical-systems/routing-instances/instance/protocols/isis)

Usage <configuration>
 <logical-systems>
 <routing-instances>
 <instance>
 <protocols>
 <isis>
<export>
 <name>name</name> <!-- identifier -->
</export>
 </isis>
 </protocols>
 </instance>
 </routing-instances>
 </logical-systems>
 </configuration>

Description Export policy.

Contents <name>—Export policy.

<export> (configuration/logical-systems/routing-instances/instance/protocols/ldp)

Usage <configuration>
 <logical-systems>
 <routing-instances>
 <instance>
 <protocols>
 <ldp>
 <export>
 <name>name</name> <!-- identifier -->
 </export>
 </ldp>
 </protocols>
 </instance>
 </routing-instances>
 </logical-systems>
 </configuration>

Description Export policy.

Contents <name>—Export policy.

<export> (configuration/logical-systems/routing-instances/instance/protocols/msdp)

Usage <configuration>
 <logical-systems>
 <routing-instances>
 <instance>
 <protocols>
 <msdp>
 <export>
 <name>name</name> <!-- identifier -->
 </export>
 </msdp>
 </protocols>
 </instance>
 </routing-instances>
 </logical-systems>
 </configuration>

Description Export policy.

Contents <name>—Export policy.

<export> (configuration/logical-systems/routing-instances/instance/protocols/msdp/group)

Usage	<pre> <configuration> <logical-systems> <routing-instances> <instance> <protocols> <msdp> <group> <export> <name>name</name> <!-- identifier --> </export> </group> </msdp> </protocols> </instance> </routing-instances> </logical-systems> </configuration> </pre>
Description	Export policy.
Contents	<name>—Export policy.

<export> (configuration/logical-systems/routing-instances/instance/protocols/msdp/group/peer)

Usage	<pre> <configuration> <logical-systems> <routing-instances> <instance> <protocols> <msdp> <group> <peer> <export> <name>name</name> <!-- identifier --> </export> </peer> </group> </msdp> </protocols> </instance> </routing-instances> </logical-systems> </configuration> </pre>
Description	Export policy.
Contents	<name>—Export policy.

<export> (configuration/logical-systems/routing-instances/instance/protocols/msdp/peer)

Usage <configuration>
 <logical-systems>
 <routing-instances>
 <instance>
 <protocols>
 <msdp>
 <peer>
 <export>
 <name>*name*</name> <!-- identifier -->
 </export>
 </peer>
 </msdp>
 </protocols>
 </instance>
 </routing-instances>
 </logical-systems>
 </configuration>

Description Export policy.

Contents <name>—Export policy.

<export> (configuration/logical-systems/routing-instances/instance/protocols/ospf)

Usage <configuration>
 <logical-systems>
 <routing-instances>
 <instance>
 <protocols>
 <ospf>
 <export>
 <name>*name*</name> <!-- identifier -->
 </export>
 </ospf>
 </protocols>
 </instance>
 </routing-instances>
 </logical-systems>
 </configuration>

Description Export policy.

Contents <name>—Export policy.

<export> (configuration/logical-systems/routing-instances/instance/protocols/ospf3)

Usage	<pre> <configuration> <logical-systems> <routing-instances> <instance> <protocols> <ospf3> <export> <name>name</name> <!-- identifier --> </export> </ospf3> </protocols> </instance> </routing-instances> </logical-systems> </configuration> </pre>
Description	Export policy.
Contents	<name>—Export policy.

<export> (configuration/logical-systems/routing-instances/instance/protocols/ospf3/realm)

Usage	<pre> <configuration> <logical-systems> <routing-instances> <instance> <protocols> <ospf3> <realm> <export> <name>name</name> <!-- identifier --> </export> </realm> </ospf3> </protocols> </instance> </routing-instances> </logical-systems> </configuration> </pre>
Description	Export policy.
Contents	<name>—Export policy.

<export> (configuration/logical-systems/routing-instances/instance/protocols/pim/rp/bootstrap/family/inet)

Usage <configuration>
 <logical-systems>
 <routing-instances>
 <instance>
 <protocols>
 <pim>
 <rp>
 <bootstrap>
 <family>
 <inet>
 <export>
 <name>*name*</name> <!-- identifier -->
 </export>
 </inet>
 </family>
 </bootstrap>
 </rp>
 </pim>
 </protocols>
 </instance>
 </routing-instances>
 </logical-systems>
 </configuration>

Description Bootstrap export policy.

Contents <name>—Bootstrap export policy.

<export> (configuration/logical-systems/routing-instances/instance/protocols/pim/rp/bootstrap/family/inet6)

Usage <configuration>
 <logical-systems>
 <routing-instances>
 <instance>
 <protocols>
 <pim>
 <rp>
 <bootstrap>
 <family>
 <inet6>
 <export>
 <name>name</name> <!-- identifier -->
 </export>
 </inet6>
 </family>
 </bootstrap>
 </rp>
 </pim>
 </protocols>
 </instance>
 </routing-instances>
 </logical-systems>
 </configuration>

Description Bootstrap export policy.

Contents <name>—Bootstrap export policy.

<export> (configuration/logical-systems/routing-instances/instance/protocols/rip/group)

Usage <configuration>
 <logical-systems>
 <routing-instances>
 <instance>
 <protocols>
 <rip>
 <group>
 <export>
 <name>*name*</name> <!-- identifier -->
 </export>
 </group>
 </rip>
 </protocols>
 </instance>
 </routing-instances>
 </logical-systems>
 </configuration>

Description Export policy.

Contents <name>—Export policy.

<export> (configuration/logical-systems/routing-instances/instance/protocols/ripng/group)

Usage <configuration>
 <logical-systems>
 <routing-instances>
 <instance>
 <protocols>
 <ripng>
 <group>
 <export>
 <name>*name*</name> <!-- identifier -->
 </export>
 </group>
 </ripng>
 </protocols>
 </instance>
 </routing-instances>
 </logical-systems>
 </configuration>

Description Export policy.

Contents <name>—Export policy.

<export> (configuration/logical-systems/routing-instances/instance/routing-options/forwarding-table)

Usage	<pre> <configuration> <logical-systems> <routing-instances> <instance> <routing-options> <forwarding-table> <export> <name>name</name> <!-- identifier --> </export> </forwarding-table> </routing-options> </instance> </routing-instances> </logical-systems> </configuration> </pre>
Description	Export policy.
Contents	<name>—Export policy.

<export> (configuration/logical-systems/routing-instances/instance/routing-options/interface-routes/family)

Usage	<pre> <configuration> <logical-systems> <routing-instances> <instance> <routing-options> <interface-routes> <family> <export> <point-to-point/> <lan/> </export> </family> </interface-routes> </routing-options> </instance> </routing-instances> </logical-systems> </configuration> </pre>
Description	Control exportability of local routes.
Contents	<p><lan>—Make LAN routes exportable.</p> <p><point-to-point>—Make point-to-point routes exportable.</p>

<export> (configuration/logical-systems/routing-options/forwarding-table)

Usage <configuration>
 <logical-systems>
 <routing-options>
 <forwarding-table>
 <export>
 <name>name</name> <!-- identifier -->
 </export>
 </forwarding-table>
 </routing-options>
 </logical-systems>
 </configuration>

Description Export policy.

Contents <name>—Export policy.

<export> (configuration/logical-systems/routing-options/interface-routes/family)

Usage <configuration>
 <logical-systems>
 <routing-options>
 <interface-routes>
 <family>
 <export>
 <point-to-point/>
 <lan/>
 </export>
 </family>
 </interface-routes>
 </routing-options>
 </logical-systems>
 </configuration>

Description Control exportability of local routes.

Contents <lan>—Make LAN routes exportable.

 <point-to-point>—Make point-to-point routes exportable.

<export> (configuration/protocols/bgp)

Usage	<pre><configuration> <protocols> <bgp> <export> <name>name</name> <!-- identifier --> </export> </bgp> </protocols> </configuration></pre>
Description	Export policy.
Contents	<name>—Export policy.

<export> (configuration/protocols/bgp/group)

Usage	<pre><configuration> <protocols> <bgp> <group> <export> <name>name</name> <!-- identifier --> </export> </group> </bgp> </protocols> </configuration></pre>
Description	Export policy.
Contents	<name>—Export policy.

<export> (configuration/protocols/bgp/group/neighbor)

Usage <configuration>
 <protocols>
 <bgp>
 <group>
 <neighbor>
 <export>
 <name>*name*</name> <!-- identifier -->
 </export>
 </neighbor>
 </group>
 </bgp>
 </protocols>
 </configuration>

Description Export policy.

Contents <name>—Export policy.

<export> (configuration/protocols/dvmrp)

Usage <configuration>
 <protocols>
 <dvmrp>
 <export>
 <name>*name*</name> <!-- identifier -->
 </export>
 </dvmrp>
 </protocols>
 </configuration>

Description Export policy.

Contents <name>—Export policy.

<export> (configuration/protocols/isis)

Usage <configuration>
 <protocols>
 <isis>
 <export>
 <name>*name*</name> <!-- identifier -->
 </export>
 </isis>
 </protocols>
 </configuration>

Description Export policy.

Contents <name>—Export policy.

<export> (configuration/protocols/ldp)

Usage	<pre> <configuration> <protocols> <ldp> <export> <name>name</name> <!-- identifier --> </export> </ldp> </protocols> </configuration> </pre>
Description	Export policy.
Contents	<name>—Export policy.

<export> (configuration/protocols/msdp)

Usage	<pre> <configuration> <protocols> <msdp> <export> <name>name</name> <!-- identifier --> </export> </msdp> </protocols> </configuration> </pre>
Description	Export policy.
Contents	<name>—Export policy.

<export> (configuration/protocols/msdp/group)

Usage	<pre> <configuration> <protocols> <msdp> <group> <export> <name>name</name> <!-- identifier --> </export> </group> </msdp> </protocols> </configuration> </pre>
Description	Export policy.
Contents	<name>—Export policy.

<export> (configuration/protocols/msdp/group/peer)

Usage <configuration>
 <protocols>
 <msdp>
 <group>
 <peer>
 <export>
 <name>*name*</name> <!-- identifier -->
 </export>
 </peer>
 </group>
 </msdp>
 </protocols>
 </configuration>

Description Export policy.

Contents <name>—Export policy.

<export> (configuration/protocols/msdp/peer)

Usage <configuration>
 <protocols>
 <msdp>
 <peer>
 <export>
 <name>*name*</name> <!-- identifier -->
 </export>
 </peer>
 </msdp>
 </protocols>
 </configuration>

Description Export policy.

Contents <name>—Export policy.

<export> (configuration/protocols/ospf)

Usage	<pre> <configuration> <protocols> <ospf> <export> <name>name</name> <!-- identifier --> </export> </ospf> </protocols> </configuration> </pre>
Description	Export policy.
Contents	<name>—Export policy.

<export> (configuration/protocols/ospf3)

Usage	<pre> <configuration> <protocols> <ospf3> <export> <name>name</name> <!-- identifier --> </export> </ospf3> </protocols> </configuration> </pre>
Description	Export policy.
Contents	<name>—Export policy.

<export> (configuration/protocols/ospf3/realm)

Usage	<pre> <configuration> <protocols> <ospf3> <realm> <export> <name>name</name> <!-- identifier --> </export> </realm> </ospf3> </protocols> </configuration> </pre>
Description	Export policy.
Contents	<name>—Export policy.

<export> (configuration/protocols/pim/rp/bootstrap/family/inet)

Usage <configuration>
 <protocols>
 <pim>
 <rp>
 <bootstrap>
 <family>
 <inet>
 <export>
 <name>*name*</name> <!-- identifier -->
 </export>
 </inet>
 </family>
 </bootstrap>
 </rp>
 </pim>
 </protocols>
 </configuration>

Description Bootstrap export policy.

Contents <name>—Bootstrap export policy.

<export> (configuration/protocols/pim/rp/bootstrap/family/inet6)

Usage <configuration>
 <protocols>
 <pim>
 <rp>
 <bootstrap>
 <family>
 <inet6>
 <export>
 <name>*name*</name> <!-- identifier -->
 </export>
 </inet6>
 </family>
 </bootstrap>
 </rp>
 </pim>
 </protocols>
 </configuration>

Description Bootstrap export policy.

Contents <name>—Bootstrap export policy.

<export> (configuration/protocols/rip/group)

Usage <configuration>
 <protocols>
 <rip>
 <group>
 <export>
 <name>name</name> <!-- identifier -->
 </export>
 </group>
 </rip>
 </protocols>
 </configuration>

Description Export policy.

Contents <name>—Export policy.

<export> (configuration/protocols/ripng/group)

Usage <configuration>
 <protocols>
 <ripng>
 <group>
 <export>
 <name>name</name> <!-- identifier -->
 </export>
 </group>
 </ripng>
 </protocols>
 </configuration>

Description Export policy.

Contents <name>—Export policy.

<export> (configuration/routing-instances/instance/protocols/bgp)

Usage <configuration>
 <routing-instances>
 <instance>
 <protocols>
 <bgp>
 <export>
 <name>*name*</name> <!-- identifier -->
 </export>
 </bgp>
 </protocols>
 </instance>
 </routing-instances>
 </configuration>

Description Export policy.

Contents <name>—Export policy.

<export> (configuration/routing-instances/instance/protocols/bgp/group)

Usage <configuration>
 <routing-instances>
 <instance>
 <protocols>
 <bgp>
 <group>
 <export>
 <name>*name*</name> <!-- identifier -->
 </export>
 </group>
 </bgp>
 </protocols>
 </instance>
 </routing-instances>
 </configuration>

Description Export policy.

Contents <name>—Export policy.

<export> (configuration/routing-instances/instance/protocols/bgp/group/neighbor)

Usage <configuration>
 <routing-instances>
 <instance>
 <protocols>
 <bgp>
 <group>
 <neighbor>
 <export>
 <name>*name*</name> <!-- identifier -->
 </export>
 </neighbor>
 </group>
 </bgp>
 </protocols>
 </instance>
 </routing-instances>
 </configuration>

Description Export policy.

Contents <name>—Export policy.

<export> (configuration/routing-instances/instance/protocols/isis)

Usage <configuration>
 <routing-instances>
 <instance>
 <protocols>
 <isis>
 <export>
 <name>*name*</name> <!-- identifier -->
 </export>
 </isis>
 </protocols>
 </instance>
 </routing-instances>
 </configuration>

Description Export policy.

Contents <name>—Export policy.

<export> (configuration/routing-instances/instance/protocols/ldp)

Usage <configuration>
 <routing-instances>
 <instance>
 <protocols>
 <ldp>
 <export>
 <name>*name*</name> <!-- identifier -->
 </export>
 </ldp>
 </protocols>
 </instance>
 </routing-instances>
</configuration>

Description Export policy.

Contents <name>—Export policy.

<export> (configuration/routing-instances/instance/protocols/msdp)

Usage <configuration>
 <routing-instances>
 <instance>
 <protocols>
 <msdp>
 <export>
 <name>*name*</name> <!-- identifier -->
 </export>
 </msdp>
 </protocols>
 </instance>
</routing-instances>
</configuration>

Description Export policy.

Contents <name>—Export policy.

<export> (configuration/routing-instances/instance/protocols/msdp/group)

Usage	<pre> <configuration> <routing-instances> <instance> <protocols> <msdp> <group> <export> <name>name</name> <!-- identifier --> </export> </group> </msdp> </protocols> </instance> </routing-instances> </configuration> </pre>
Description	Export policy.
Contents	<name>—Export policy.

<export> (configuration/routing-instances/instance/protocols/msdp/group/peer)

Usage	<pre> <configuration> <routing-instances> <instance> <protocols> <msdp> <group> <peer> <export> <name>name</name> <!-- identifier --> </export> </peer> </group> </msdp> </protocols> </instance> </routing-instances> </configuration> </pre>
Description	Export policy.
Contents	<name>—Export policy.

<export> (configuration/routing-instances/instance/protocols/msdp/peer)

Usage <configuration>
 <routing-instances>
 <instance>
 <protocols>
 <msdp>
 <peer>
 <export>
 <name>*name*</name> <!-- identifier -->
 </export>
 </peer>
 </msdp>
 </protocols>
 </instance>
 </routing-instances>
 </configuration>

Description Export policy.

Contents <name>—Export policy.

<export> (configuration/routing-instances/instance/protocols/ospf)

Usage <configuration>
 <routing-instances>
 <instance>
 <protocols>
 <ospf>
 <export>
 <name>*name*</name> <!-- identifier -->
 </export>
 </ospf>
 </protocols>
 </instance>
 </routing-instances>
 </configuration>

Description Export policy.

Contents <name>—Export policy.

<export> (configuration/routing-instances/instance/protocols/ospf3)

Usage	<pre> <configuration> <routing-instances> <instance> <protocols> <ospf3> <export> <name>name</name> <!-- identifier --> </export> </ospf3> </protocols> </instance> </routing-instances> </configuration> </pre>
Description	Export policy.
Contents	<name>—Export policy.

<export> (configuration/routing-instances/instance/protocols/ospf3/realms)

Usage	<pre> <configuration> <routing-instances> <instance> <protocols> <ospf3> <realms> <export> <name>name</name> <!-- identifier --> </export> </realms> </ospf3> </protocols> </instance> </routing-instances> </configuration> </pre>
Description	Export policy.
Contents	<name>—Export policy.

<export> (configuration/routing-instances/instance/protocols/pim/rp/bootstrap/family/inet)

Usage <configuration>
 <routing-instances>
 <instance>
 <protocols>
 <pim>
 <rp>
 <bootstrap>
 <family>
 <inet>
 <export>
 <name>*name*</name> <!-- identifier -->
 </export>
 </inet>
 </family>
 </bootstrap>
 </rp>
 </pim>
 </protocols>
 </instance>
 </routing-instances>
 </configuration>

Description Bootstrap export policy.

Contents <name>—Bootstrap export policy.

<export> (configuration/routing-instances/instance/protocols/pim/rp/bootstrap/family/inet6)

Usage

```

<configuration>
  <routing-instances>
    <instance>
      <protocols>
        <pim>
          <rp>
            <bootstrap>
              <family>
                <inet6>
                  <export>
                    <name>name</name>    <!-- identifier -->
                  </export>
                </inet6>
              </family>
            </bootstrap>
          </rp>
        </pim>
      </protocols>
    </instance>
  </routing-instances>
</configuration>

```

Description Bootstrap export policy.

Contents <name>—Bootstrap export policy.

<export> (configuration/routing-instances/instance/protocols/rip/group)

Usage

```

<configuration>
  <routing-instances>
    <instance>
      <protocols>
        <rip>
          <group>
            <export>
              <name>name</name>    <!-- identifier -->
            </export>
          </group>
        </rip>
      </protocols>
    </instance>
  </routing-instances>
</configuration>

```

Description Export policy.

Contents <name>—Export policy.

<export> (configuration/routing-instances/instance/protocols/ripng/group)

Usage <configuration>
 <routing-instances>
 <instance>
 <protocols>
 <ripng>
 <group>
 <export>
 <name>name</name> <!-- identifier -->
 </export>
 </group>
 </ripng>
 </protocols>
 </instance>
 </routing-instances>
 </configuration>

Description Export policy.

Contents <name>—Export policy.

<export> (configuration/routing-instances/instance/routing-options/forwarding-table)

Usage <configuration>
 <routing-instances>
 <instance>
 <routing-options>
 <forwarding-table>
 <export>
 <name>name</name> <!-- identifier -->
 </export>
 </forwarding-table>
 </routing-options>
 </instance>
 </routing-instances>
 </configuration>

Description Export policy.

Contents <name>—Export policy.

<export> (configuration/routing-instances/instance/routing-options/interface-routes/family)

Usage	<pre> <configuration> <routing-instances> <instance> <routing-options> <interface-routes> <family> <export> <point-to-point/> <lan/> </export> </family> </interface-routes> </routing-options> </instance> </routing-instances> </configuration> </pre>
Description	Control exportability of local routes.
Contents	<p><lan>—Make LAN routes exportable.</p> <p><point-to-point>—Make point-to-point routes exportable.</p>

<export> (configuration/routing-options/forwarding-table)

Usage	<pre> <configuration> <routing-options> <forwarding-table> <export> <name>name</name> <!-- identifier --> </export> </forwarding-table> </routing-options> </configuration> </pre>
Description	Export policy.
Contents	<name>—Export policy.

<export> (configuration/routing-options/interface-routes/family)

- Usage** <configuration>
 <routing-options>
 <interface-routes>
 <family>
 <export>
 <point-to-point/>
 <lan/>
 </export>
 </family>
 </interface-routes>
 </routing-options>
 </configuration>
- Description** Control exportability of local routes.
- Contents** <lan>—Make LAN routes exportable.
 <point-to-point>—Make point-to-point routes exportable.

<export-target> (configuration/logical-systems/routing-instances/instance/protocols/mvpn/route-target)

- Usage** <configuration>
 <logical-systems>
 <routing-instances>
 <instance>
 <protocols>
 <mvpn>
 <route-target>
 <export-target>
 <unicast/>
 <target>target</target>
 </export-target>
 </route-target>
 </mvpn>
 </protocols>
 </instance>
 </routing-instances>
 </logical-systems>
 </configuration>
- Description** Target communities used when exporting routes.
- Contents** <target>—Target community.
 <unicast>—Use the same target community as configured for unicast.

<export-target> (configuration/routing-instances/instance/protocols/mvpn/route-target)

Usage <configuration>
 <routing-instances>
 <instance>
 <protocols>
 <mvpn>
 <route-target>
 <export-target>
 <unicast/>
 <target>target</target>
 </export-target>
 </route-target>
 </mvpn>
 </protocols>
 </instance>
 </routing-instances>
 </configuration>

Description Target communities used when exporting routes.

Contents <target>—Target community.

<unicast>—Use the same target community as configured for unicast.

<expression> (configuration/logical-systems/policy-options/policy-statement/from/prefix-list-filter/metric)

Usage <configuration>
 <logical-systems>
 <policy-options>
 <policy-statement>
 <from>
 <prefix-list-filter>
 <metric>
 <expression>
 <metric>...</metric>
 <metric2>...</metric2>
 </expression>
 </metric>
 </prefix-list-filter>
 </from>
 </policy-statement>
 </policy-options>
 </logical-systems>
 </configuration>

Description Calculate value based on route metric and metric2.

Contents <metric>—Parameters for metric attribute.

<metric2>—Parameters for metric2 attribute.

<expression> (configuration/logical-systems/policy-options/ policy-statement/from/route-filter/metric)

Usage <configuration>
 <logical-systems>
 <policy-options>
 <policy-statement>
 <from>
 <route-filter>
 <metric>
 <expression>
 <metric>...</metric>
 <metric2>...</metric2>
 </expression>
 </metric>
 </route-filter>
 </from>
 </policy-statement>
 </policy-options>
 </logical-systems>
 </configuration>

Description Calculate value based on route metric and metric2.

Contents <metric>—Parameters for metric attribute.

 <metric2>—Parameters for metric2 attribute.

<expression> (configuration/logical-systems/policy-options/policy-statement/from/source-address-filter/metric)

Usage <configuration>
 <logical-systems>
 <policy-options>
 <policy-statement>
 <from>
 <source-address-filter>
 <metric>
 <expression>
 <metric>...</metric>
 <metric2>...</metric2>
 </expression>
 </metric>
 </source-address-filter>
 </from>
 </policy-statement>
 </policy-options>
 </logical-systems>
 </configuration>

Description Calculate value based on route metric and metric2.

Contents <metric>—Parameters for metric attribute.

 <metric2>—Parameters for metric2 attribute.

<expression> (configuration/logical-systems/policy-options/ policy-statement/term/from/prefix-list-filter/metric)

Usage <configuration>
 <logical-systems>
 <policy-options>
 <policy-statement>
 <term>
 <from>
 <prefix-list-filter>
 <metric>
 <expression>
 <metric>...</metric>
 <metric2>...</metric2>
 </expression>
 </metric>
 </prefix-list-filter>
 </from>
 </term>
 </policy-statement>
 </policy-options>
 </logical-systems>
 </configuration>

Description Calculate value based on route metric and metric2.

Contents <metric>—Parameters for metric attribute.

 <metric2>—Parameters for metric2 attribute.

<expression> (configuration/logical-systems/policy-options/ policy-statement/term/from/route-filter/metric)

Usage

```

<configuration>
  <logical-systems>
    <policy-options>
      <policy-statement>
        <term>
          <from>
            <route-filter>
              <metric>
                <expression>
                  <metric>...</metric>
                  <metric2>...</metric2>
                </expression>
              </metric>
            </route-filter>
          </from>
        </term>
      </policy-statement>
    </policy-options>
  </logical-systems>
</configuration>

```

Description Calculate value based on route metric and metric2.

Contents <metric>—Parameters for metric attribute.

<metric2>—Parameters for metric2 attribute.

<expression> (configuration/logical-systems/policy-options/ policy-statement/term/from/source-address-filter/metric)

Usage <configuration>
 <logical-systems>
 <policy-options>
 <policy-statement>
 <term>
 <from>
 <source-address-filter>
 <metric>
 <expression>
 <metric>...</metric>
 <metric2>...</metric2>
 </expression>
 </metric>
 </source-address-filter>
 </from>
 </term>
 </policy-statement>
 </policy-options>
 </logical-systems>
 </configuration>

Description Calculate value based on route metric and metric2.

Contents <metric>—Parameters for metric attribute.

 <metric2>—Parameters for metric2 attribute.

<expression> (configuration/logical-systems/policy-options/policy-statement/term/then/metric)

Usage <configuration>
 <logical-systems>
 <policy-options>
 <policy-statement>
 <term>
 <then>
 <metric>
 <expression>
 <metric>...</metric>
 <metric2>...</metric2>
 </expression>
 </metric>
 </then>
 </term>
 </policy-statement>
 </policy-options>
 </logical-systems>
 </configuration>

Description Calculate value based on route metric and metric2.

Contents <metric>—Parameters for metric attribute.
 <metric2>—Parameters for metric2 attribute.

<expression> (configuration/logical-systems/policy-options/policy-statement/then/metric)

Usage <configuration>
 <logical-systems>
 <policy-options>
 <policy-statement>
 <then>
 <metric>
 <expression>
 <metric>...</metric>
 <metric2>...</metric2>
 </expression>
 </metric>
 </then>
 </policy-statement>
 </policy-options>
 </logical-systems>
 </configuration>

Description Calculate value based on route metric and metric2.

Contents <metric>—Parameters for metric attribute.
 <metric2>—Parameters for metric2 attribute.

<expression> (configuration/policy-options/policy-statement/from/prefix-list-filter/metric)

- Usage** <configuration>
 <policy-options>
 <policy-statement>
 <from>
 <prefix-list-filter>
 <metric>
 <expression>
 <metric>...</metric>
 <metric2>...</metric2>
 </expression>
 </metric>
 </prefix-list-filter>
 </from>
 </policy-statement>
 </policy-options>
 </configuration>
- Description** Calculate value based on route metric and metric2.
- Contents** <metric>—Parameters for metric attribute.
 <metric2>—Parameters for metric2 attribute.

<expression> (configuration/policy-options/policy-statement/from/route-filter/metric)

- Usage** <configuration>
 <policy-options>
 <policy-statement>
 <from>
 <route-filter>
 <metric>
 <expression>
 <metric>...</metric>
 <metric2>...</metric2>
 </expression>
 </metric>
 </route-filter>
 </from>
 </policy-statement>
 </policy-options>
 </configuration>
- Description** Calculate value based on route metric and metric2.
- Contents** <metric>—Parameters for metric attribute.
 <metric2>—Parameters for metric2 attribute.

<expression> (configuration/policy-options/policy-statement/ from/source-address-filter/metric)

Usage	<pre> <configuration> <policy-options> <policy-statement> <from> <source-address-filter> <metric> <expression> <metric>...</metric> <metric2>...</metric2> </expression> </metric> </source-address-filter> </from> </policy-statement> </policy-options> </configuration> </pre>
Description	Calculate value based on route metric and metric2.
Contents	<p><metric>—Parameters for metric attribute.</p> <p><metric2>—Parameters for metric2 attribute.</p>

<expression> (configuration/policy-options/policy-statement/ term/from/prefix-list-filter/metric)

Usage	<pre> <configuration> <policy-options> <policy-statement> <term> <from> <prefix-list-filter> <metric> <expression> <metric>...</metric> <metric2>...</metric2> </expression> </metric> </prefix-list-filter> </from> </term> </policy-statement> </policy-options> </configuration> </pre>
Description	Calculate value based on route metric and metric2.
Contents	<p><metric>—Parameters for metric attribute.</p> <p><metric2>—Parameters for metric2 attribute.</p>

<expression> (configuration/policy-options/policy-statement/term/from/route-filter/metric)

Usage <configuration>
 <policy-options>
 <policy-statement>
 <term>
 <from>
 <route-filter>
 <metric>
 <expression>
 <metric>...</metric>
 <metric2>...</metric2>
 </expression>
 </metric>
 </route-filter>
 </from>
 </term>
 </policy-statement>
 </policy-options>
 </configuration>

Description Calculate value based on route metric and metric2.

Contents <metric>—Parameters for metric attribute.

 <metric2>—Parameters for metric2 attribute.

<expression> (configuration/policy-options/policy-statement/term/from/source-address-filter/metric)

Usage <configuration>
 <policy-options>
 <policy-statement>
 <term>
 <from>
 <source-address-filter>
 <metric>
 <expression>
 <metric>...</metric>
 <metric2>...</metric2>
 </expression>
 </metric>
 </source-address-filter>
 </from>
 </term>
 </policy-statement>
 </policy-options>
 </configuration>

Description Calculate value based on route metric and metric2.

Contents <metric>—Parameters for metric attribute.

<metric2>—Parameters for metric2 attribute.

<expression> (configuration/policy-options/policy-statement/term/then/metric)

Usage <configuration>
 <policy-options>
 <policy-statement>
 <term>
 <then>
 <metric>
 <expression>
 <metric>...</metric>
 <metric2>...</metric2>
 </expression>
 </metric>
 </then>
 </term>
 </policy-statement>
 </policy-options>
 </configuration>

Description Calculate value based on route metric and metric2.

Contents <metric>—Parameters for metric attribute.

<metric2>—Parameters for metric2 attribute.

<expression> (configuration/policy-options/policy-statement/then/metric)

Usage <configuration>
 <policy-options>
 <policy-statement>
 <then>
 <metric>
 <expression>
 <metric>...</metric>
 <metric2>...</metric2>
 </expression>
 </metric>
 </then>
 </policy-statement>
 </policy-options>
 </configuration>

Description Calculate value based on route metric and metric2.

Contents <metric>—Parameters for metric attribute.

 <metric2>—Parameters for metric2 attribute.

<extension-provider> (configuration/chassis/fpc/pic/adaptive-services/service-package)

Usage

```

<configuration>
  <chassis>
    <fpc>
      <pic>
        <adaptive-services>
          <service-package>
            <extension-provider>
              <control-cores>control-cores</control-cores>    <!-- mandatory -->
              <data-cores>data-cores</data-cores>
              <object-cache-size>megabytes</object-cache-size>
              <forwarding-db-size>megabytes</forwarding-db-size>
              <policy-db-size>megabytes</policy-db-size>
              <wired-process-mem-size>megabytes</wired-process-mem-size>
              <package>...</package>
              <syslog>...</syslog>
            </extension-provider>
          </service-package>
        </adaptive-services>
      </pic>
    </fpc>
  </chassis>
</configuration>

```

Description Extension provider package configuration.

Contents <control-cores>—Number of processing cores dedicated to control.

<data-cores>—Number of processing cores dedicated to data.

<forwarding-db-size>—Forwarding Database Size.

<object-cache-size>—Object cache size, multiple of 128.

<package>—Extension provider package to run on the PIC.

<policy-db-size>—Policy Database Size.

<syslog>—System logging facility.

<wired-process-mem-size>—Wired process memory size.

<extension-provider> (configuration/chassis/lcc/fpc/pic/adaptive-services/service-package)

Usage

```

<configuration>
  <chassis>
    <lcc>
      <fpc>
        <pic>
          <adaptive-services>
            <service-package>
              <extension-provider>
                <control-cores>control-cores</control-cores>    <!-- mandatory -->
                <data-cores>data-cores</data-cores>
                <object-cache-size>megabytes</object-cache-size>
                <forwarding-db-size>megabytes</forwarding-db-size>
                <policy-db-size>megabytes</policy-db-size>
                <wired-process-mem-size>megabytes</wired-process-mem-size>
                <package>...</package>
                <syslog>...</syslog>
              </extension-provider>
            </service-package>
          </adaptive-services>
        </pic>
      </fpc>
    </lcc>
  </chassis>
</configuration>

```

Description Extension provider package configuration.

Contents

- <control-cores>—Number of processing cores dedicated to control.
- <data-cores>—Number of processing cores dedicated to data.
- <forwarding-db-size>—Forwarding Database Size.
- <object-cache-size>—Object cache size, multiple of 128.
- <package>—Extension provider package to run on the PIC.
- <policy-db-size>—Policy Database Size.
- <syslog>—System logging facility.
- <wired-process-mem-size>—Wired process memory size.

<extension-service> (configuration/forwarding-options/sampling/output)

Usage <configuration>
 <forwarding-options>
 <sampling>
 <output>
 <extension-service>
 <name>name</name> <!-- identifier -->
 </extension-service>
 </output>
 </sampling>
 </forwarding-options>
 </configuration>

Description Define the customer specific sampling configuration.

Contents <name>—Customer prefixed sampling service name.

<extension-service> (configuration/logical-systems/routing-instances/instance/forwarding-options/sampling/output)

Usage <configuration>
 <logical-systems>
 <routing-instances>
 <instance>
 <forwarding-options>
 <sampling>
 <output>
 <extension-service>
 <name>name</name> <!-- identifier -->
 </extension-service>
 </output>
 </sampling>
 </forwarding-options>
 </instance>
 </routing-instances>
</logical-systems>
</configuration>

Description Define the customer specific sampling configuration.

Contents <name>—Customer prefixed sampling service name.

<extension-service> (configuration/routing-instances/instance/forwarding-options/sampling/output)

Usage	<pre> <configuration> <routing-instances> <instance> <forwarding-options> <sampling> <output> <extension-service> <name>name</name> <!-- identifier --> </extension-service> </output> </sampling> </forwarding-options> </instance> </routing-instances> </configuration> </pre>
Description	Define the customer specific sampling configuration.
Contents	<name>—Customer prefixed sampling service name.

<extension-service> (configuration/services/service-set)

Usage	<pre> <configuration> <services> <service-set> <extension-service> <name>name</name> <!-- identifier --> </extension-service> </service-set> </services> </configuration> </pre>
Description	Define the customer specific extensions.
Contents	<name>—Customer-prefixed service name.

<extensions> (configuration/system)

Usage	<pre> <configuration> <system> <extensions> <providers>...</providers> </extensions> </system> </configuration> </pre>
Description	Configuration for extensions to JUNOS.
Contents	<providers>—No documentation is available yet.

<external> (configuration/logical-systems/policy-options/policy-statement/from)

Usage <configuration>
 <logical-systems>
 <policy-options>
 <policy-statement>
 <from>
 <external>
 <type>type</type>
 </external>
 </from>
 </policy-statement>
 </policy-options>
 </logical-systems>
 </configuration>

Description External route.

Contents <type>—OSPF external metric type.

<external> (configuration/logical-systems/policy-options/policy-statement/from/prefix-list-filter)

Usage <configuration>
 <logical-systems>
 <policy-options>
 <policy-statement>
 <from>
 <prefix-list-filter>
 <external>
 <type>type</type> <!-- mandatory -->
 </external>
 </prefix-list-filter>
 </from>
 </policy-statement>
 </policy-options>
 </logical-systems>
 </configuration>

Description External route.

Contents <type>—OSPF external metric type.

<external> (configuration/logical-systems/policy-options/policy-statement/from/route-filter)

Usage <configuration>
 <logical-systems>
 <policy-options>
 <policy-statement>
 <from>
 <route-filter>
 <external>
 <type>type</type> <!-- mandatory -->
 </external>
 </route-filter>
 </from>
 </policy-statement>
 </policy-options>
 </logical-systems>
 </configuration>

Description External route.

Contents <type>—OSPF external metric type.

<external> (configuration/logical-systems/policy-options/policy-statement/from/source-address-filter)

Usage <configuration>
 <logical-systems>
 <policy-options>
 <policy-statement>
 <from>
 <source-address-filter>
 <external>
 <type>type</type> <!-- mandatory -->
 </external>
 </source-address-filter>
 </from>
 </policy-statement>
 </policy-options>
 </logical-systems>
 </configuration>

Description External route.

Contents <type>—OSPF external metric type.

<external> (configuration/logical-systems/policy-options/policy-statement/term/from)

Usage <configuration>
 <logical-systems>
 <policy-options>
 <policy-statement>
 <term>
 <from>
 <external>
 <type>type</type>
 </external>
 </from>
 </term>
 </policy-statement>
 </policy-options>
 </logical-systems>
 </configuration>

Description External route.

Contents <type>—OSPF external metric type.

<external> (configuration/logical-systems/policy-options/policy-statement/term/from/prefix-list-filter)

Usage <configuration>
 <logical-systems>
 <policy-options>
 <policy-statement>
 <term>
 <from>
 <prefix-list-filter>
 <external>
 <type>type</type> <!-- mandatory -->
 </external>
 </prefix-list-filter>
 </from>
 </term>
 </policy-statement>
 </policy-options>
 </logical-systems>
 </configuration>

Description External route.

Contents <type>—OSPF external metric type.

<external> (configuration/logical-systems/policy-options/policy-statement/term/from/route-filter)

Usage <configuration>
 <logical-systems>
 <policy-options>
 <policy-statement>
 <term>
 <from>
 <route-filter>
 <external>
 <type>type</type> <!-- mandatory -->
 </external>
 </route-filter>
 </from>
 </term>
 </policy-statement>
 </policy-options>
 </logical-systems>
</configuration>

Description External route.

Contents <type>—OSPF external metric type.

<external> (configuration/logical-systems/policy-options/policy-statement/term/from/source-address-filter)

Usage <configuration>
 <logical-systems>
 <policy-options>
 <policy-statement>
 <term>
 <from>
 <source-address-filter>
 <external>
 <type>type</type> <!-- mandatory -->
 </external>
 </source-address-filter>
 </from>
 </term>
 </policy-statement>
 </policy-options>
 </logical-systems>
</configuration>

Description External route.

Contents <type>—OSPF external metric type.

<external> (configuration/logical-systems/policy-options/policy-statement/term/then)

Usage <configuration>
 <logical-systems>
 <policy-options>
 <policy-statement>
 <term>
 <then>
 <external>
 <type>type</type> <!-- mandatory -->
 </external>
 </then>
 </term>
 </policy-statement>
 </policy-options>
 </logical-systems>
</configuration>

Description External route.

Contents <type>—OSPF external metric type.

<external> (configuration/logical-systems/policy-options/policy-statement/term/to)

Usage <configuration>
 <logical-systems>
 <policy-options>
 <policy-statement>
 <term>
 <to>
 <external>
 <type>type</type>
 </external>
 </to>
 </term>
 </policy-statement>
 </policy-options>
 </logical-systems>
</configuration>

Description External route.

Contents <type>—OSPF external metric type.

<external> (configuration/logical-systems/policy-options/policy-statement/then)

Usage <configuration>
 <logical-systems>
 <policy-options>
 <policy-statement>
 <then>
 <external>
 <type>type</type> <!-- mandatory -->
 </external>
 </then>
 </policy-statement>
 </policy-options>
 </logical-systems>
 </configuration>

Description External route.

Contents <type>—OSPF external metric type.

<external> (configuration/logical-systems/policy-options/policy-statement/to)

Usage <configuration>
 <logical-systems>
 <policy-options>
 <policy-statement>
 <to>
 <external>
 <type>type</type>
 </external>
 </to>
 </policy-statement>
 </policy-options>
 </logical-systems>
 </configuration>

Description External route.

Contents <type>—OSPF external metric type.

<external> (configuration/policy-options/policy-statement/from)

Usage `<configuration>
 <policy-options>
 <policy-statement>
 <from>
 <external>
 <type>type</type>
 </external>
 </from>
 </policy-statement>
 </policy-options>
</configuration>`

Description External route.

Contents `<type>`—OSPF external metric type.

<external> (configuration/policy-options/policy-statement/from/prefix-list-filter)

Usage `<configuration>
 <policy-options>
 <policy-statement>
 <from>
 <prefix-list-filter>
 <external>
 <type>type</type> <!-- mandatory -->
 </external>
 </prefix-list-filter>
 </from>
 </policy-statement>
 </policy-options>
</configuration>`

Description External route.

Contents `<type>`—OSPF external metric type.

<external> (configuration/policy-options/policy-statement/from/route-filter)

Usage <configuration>
 <policy-options>
 <policy-statement>
 <from>
 <route-filter>
 <external>
 <type>type</type> <!-- mandatory -->
 </external>
 </route-filter>
 </from>
 </policy-statement>
 </policy-options>
 </configuration>

Description External route.

Contents <type>—OSPF external metric type.

<external> (configuration/policy-options/policy-statement/from/source-address-filter)

Usage <configuration>
 <policy-options>
 <policy-statement>
 <from>
 <source-address-filter>
 <external>
 <type>type</type> <!-- mandatory -->
 </external>
 </source-address-filter>
 </from>
 </policy-statement>
 </policy-options>
 </configuration>

Description External route.

Contents <type>—OSPF external metric type.

<external> (configuration/policy-options/policy-statement/term/ from)

Usage <configuration>
 <policy-options>
 <policy-statement>
 <term>
 <from>
 <external>
 <type>type</type>
 </external>
 </from>
 </term>
 </policy-statement>
 </policy-options>
 </configuration>

Description External route.

Contents <type>—OSPF external metric type.

<external> (configuration/policy-options/policy-statement/term/ from/prefix-list-filter)

Usage <configuration>
 <policy-options>
 <policy-statement>
 <term>
 <from>
 <prefix-list-filter>
 <external>
 <type>type</type> <!-- mandatory -->
 </external>
 </prefix-list-filter>
 </from>
 </term>
 </policy-statement>
 </policy-options>
 </configuration>

Description External route.

Contents <type>—OSPF external metric type.

<external> (configuration/policy-options/policy-statement/term/ from/route-filter)

Usage <configuration>
 <policy-options>
 <policy-statement>
 <term>
 <from>
 <route-filter>
 <external>
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 </route-filter>
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 </policy-statement>
 </policy-options>
 </configuration>

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Contents <type>—OSPF external metric type.

<external> (configuration/policy-options/policy-statement/term/ from/source-address-filter)

Usage <configuration>
 <policy-options>
 <policy-statement>
 <term>
 <from>
 <source-address-filter>
 <external>
 <type>type</type> <!-- mandatory -->
 </external>
 </source-address-filter>
 </from>
 </term>
 </policy-statement>
 </policy-options>
 </configuration>

Description External route.

Contents <type>—OSPF external metric type.

<external> (configuration/policy-options/policy-statement/term/then)

Usage <configuration>
 <policy-options>
 <policy-statement>
 <term>
 <then>
 <external>
 <type>type</type> <!-- mandatory -->
 </external>
 </then>
 </term>
 </policy-statement>
 </policy-options>
 </configuration>

Description External route.

Contents <type>—OSPF external metric type.

<external> (configuration/policy-options/policy-statement/term/to)

Usage <configuration>
 <policy-options>
 <policy-statement>
 <term>
 <to>
 <external>
 <type>type</type>
 </external>
 </to>
 </term>
 </policy-statement>
 </policy-options>
 </configuration>

Description External route.

Contents <type>—OSPF external metric type.

<external> (configuration/policy-options/policy-statement/then)

Usage <configuration>
 <policy-options>
 <policy-statement>
 <then>
 <external>
 <type>type</type> <!-- mandatory -->
 </external>
 </then>
 </policy-statement>
 </policy-options>
 </configuration>

Description External route.

Contents <type>—OSPF external metric type.

<external> (configuration/policy-options/policy-statement/to)

Usage <configuration>
 <policy-options>
 <policy-statement>
 <to>
 <external>
 <type>type</type>
 </external>
 </to>
 </policy-statement>
 </policy-options>
 </configuration>

Description External route.

Contents <type>—OSPF external metric type.

