

Firewall Filter Configuration Statements Supported by JUNOS Software for EX-series Switches

You configure firewall filters to filter packets based on their components and to perform an action on packets that match the filter.

Table 1 lists the options that are supported for the firewall statement in JUNOS software for EX-series switches.

Table 1: Supported Options for Firewall Filter Statements

Statement and Option	Description
<code>family <i>family-name</i> { }</code>	The <i>family-name</i> option specifies the version or type of addressing protocol: <ul style="list-style-type: none">■ <code>bridge</code> or <code>ethernet-switching</code>—Filter Layer 2 (Ethernet) packets and Layer 3 (IP) packets■ <code>inet</code>— Filter IPv4 packets
<code>filter <i>filter-name</i> { }</code>	The <i>filter-name</i> option identifies the filter. The name can contain letters, numbers, and hyphens (-) and can be up to 64 characters long. To include spaces in the name, enclose the name in quotation marks (" ").
<code>interface-specific</code>	The <code>interface-specific</code> option configures unique names for individual firewall counters specific to each interface.
<code>term <i>term-name</i> { }</code>	The <i>term-name</i> option identifies the term. The name can contain letters, numbers, and hyphens (-) and can be up to 64 characters long. To include spaces in the name, enclose the entire name in quotation marks (" "). Each term name must be unique within a filter.
<code>from { <i>match-conditions</i>; }</code>	The <code>from</code> statement is optional. If you omit it, all packets are considered to match.
<code>then { <i>action</i>; <i>action-modifiers</i>; }</code>	For information about the <i>action</i> and <i>action-modifiers</i> options, see Firewall Filter Match Conditions and Actions for EX-series Switches.
<code>policer <i>policer-name</i> { }</code>	The <i>policer-name</i> option identifies the policer. The name can contain letters, numbers, and hyphens (-) and can be up to 64 characters long. To include spaces in the name, enclose the name in quotation marks (" ").
<code>filter-specific</code>	The <code>filter-specific</code> option configures policers and counters for a specific filter name.

Table 1: Supported Options for Firewall Filter Statements (*continued*)

Statement and Option	Description
<pre>if-exceeding { bandwidth-limit <i>bps</i> burst-size-limit <i>bytes</i> }</pre>	<p>The bandwidth-limit <i>bps</i> option specifies the traffic rate in bits per second (bps).</p> <p>You can specify <i>bps</i> as a decimal value or as a decimal number followed by one of the following abbreviations:</p> <ul style="list-style-type: none">■ k (thousand)■ m (million)■ g (billion, which is also called a thousand million) <p>Range: 1000 (1k) through 102,300,000,000 (102.3g) bps</p> <p>The burst-size-limit <i>bytes</i> option specifies the maximum allowed burst size to control the amount of traffic bursting. To determine the value for the burst-size limit, you can multiply the bandwidth of the interface on which the filter is applied by the amount of time to allow a burst of traffic at that bandwidth to occur:</p> <p>burst size = bandwidth * allowable time for burst traffic</p> <p>You can specify a decimal value or a decimal number followed by k (thousand) or m (million).</p> <p>Range: 1 through 2,147,450,880 bytes</p>
<pre>then { <i>policer-action</i> }</pre>	<p>Use the <i>policer-action</i> option to specify discard to discard traffic that exceeds the rate limits.</p>

JUNOS software for EX-series switches does not support some of the firewall filter statements that are supported by other JUNOS software packages. Table 2 shows the firewall filter statements that are not supported by JUNOS Software for EX-series switches.

Table 2: Firewall Filter Statements That Are Not Supported by JUNOS Software for EX-series Switches

Statements not supported	Statement hierarchy level
<ul style="list-style-type: none"> ■ interface-set <i>interface-set-name</i> { } ■ load-balance-group <i>group-name</i> { } ■ three-color-policer <i>name</i> { } ■ logical-interface-policer; ■ single-rate { } ■ two-rate { } 	[edit firewall]
<ul style="list-style-type: none"> ■ prefix-action <i>name</i> { } ■ prefix-policer { } ■ service-filter <i>filter-name</i> { } ■ simple-filter <i>simple-filter-name</i> { } 	[edit firewall family <i>family-name</i>]
<ul style="list-style-type: none"> ■ accounting-profile <i>name</i>; 	[edit firewall family <i>family-name</i> filter <i>filter-name</i>]
<ul style="list-style-type: none"> ■ logical-bandwidth-policer; ■ logical-interface-policer; 	[edit firewall policer <i>policer-name</i>]
bandwidth-percent <i>number</i> ;	[edit firewall policer <i>policer-name</i> if-exceeding]

Related Topics

- Firewall Filter Match Conditions and Actions for EX-series Switches
- Example: Configuring Firewall Filters for Port, VLAN, and Router Traffic on EX-series Switches
- Configuring Firewall Filters (CLI Procedure)
- Configuring Policers to Control Traffic Rates (CLI Procedure)
- Firewall Filters for EX-series Switches Overview

