

## 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"><li>■ <code>bridge</code> or <code>ethernet-switching</code>—Filter Layer 2 (Ethernet) packets and Layer 3 (IP) packets</li><li>■ <code>inet</code>—Filter IPv4 packets</li></ul>
<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> statement 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> statement 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 <b>bandwidth-limit <i>bps</i></b> option specifies the traffic rate in bits per second (bps).</p> <p>You can specify <b><i>bps</i></b> as a decimal value or as a decimal number followed by one of the following abbreviations:</p> <ul style="list-style-type: none"> <li>■ k (thousand)</li> <li>■ m (million)</li> <li>■ g (billion, which is also called a thousand million)</li> </ul> <p><b>Range:</b> 1000 (1k) through 102,300,000,000 (102.3g) bps</p> <p>The <b>burst-size-limit <i>bytes</i></b> 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 (in seconds) to allow a burst of traffic at that bandwidth to occur:</p> <p style="text-align: center;">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><b>Range:</b> 1 through 2,147,450,880 bytes</p>
<pre> then {   <i>policer-action</i> } </pre>	<p>Use the <b><i>policer-action</i></b> option to specify <b>discard</b> 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"><li>■ <code>interface-set <i>interface-set-name</i> {</code> <code>}</code></li><li>■ <code>load-balance-group <i>group-name</i> {</code> <code>}</code></li><li>■ <code>three-color-policer <i>name</i> {</code> <code>}</code></li><li>■ <code>logical-interface-policer;</code></li><li>■ <code>single-rate {</code> <code>}</code></li><li>■ <code>two-rate {</code> <code>}</code></li></ul>	[edit firewall]
<ul style="list-style-type: none"><li>■ <code>prefix-action <i>name</i> {</code> <code>}</code></li><li>■ <code>prefix-policer {</code> <code>}</code></li><li>■ <code>service-filter <i>filter-name</i> {</code> <code>}</code></li><li>■ <code>simple-filter <i>simple-filter-name</i> {</code> <code>}</code></li></ul>	[edit firewall family <i>family-name</i> ]
<ul style="list-style-type: none"><li>■ <code>accounting-profile <i>name</i>;</code></li></ul>	[edit firewall family <i>family-name</i> filter <i>filter-name</i> ]
<ul style="list-style-type: none"><li>■ <code>logical-bandwidth-policer;</code></li><li>■ <code>logical-interface-policer;</code></li></ul>	[edit firewall policer <i>policer-name</i> ]
<code>bandwidth-percent <i>number</i>;</code>	[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

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