

Chapter 24

Summary of Firewall Filter Configuration Statements

The following sections explain each of the firewall filter configuration statements. The statements are organized alphabetically.

filter

Syntax

```
filter filter-name {  
  term term-name {  
    from {  
      match-conditions;  
    }  
    then {  
      action;  
      action-modifiers;  
    }  
  }  
}
```

Hierarchy Level [edit firewall]

Description Configure firewall filters.

Usage Guidelines See “Firewall Filter Configuration Guidelines” on page 267.

Required Privilege Level firewall—To view this statement in the configuration.
firewall-control—To add this statement to the configuration.

firewall

Syntax firewall { ... }

Hierarchy Level [edit]

Description Configure firewall filters.

Usage Guidelines See “Firewall Filter Configuration Guidelines” on page 267.

Required Privilege Level firewall—To view this statement in the configuration.
firewall-control—To add this statement to the configuration.

if-exceeding

Syntax	if-exceeding { bandwidth-limit <i>rate</i> ; burst-size-limit <i>bytes</i> ; }
Hierarchy Level	[edit firewall filter <i>filter-name</i> policer <i>policer-name</i>]
Description	Configure policer rate limits by setting the bandwidth-limit and burst-size-limit values.
Options	<p><i>rate</i>—Traffic rate, in bits per second. There is no minimum value, but any value below 61,040 bps results in an effective rate of 30,520 bps. Range: 0 through 4.29 Gbps Default: None</p> <p><i>bytes</i>—Maximum burst size, in bytes. The minimum recommended value is the MTU of the IP packets being policed. Range: 0 through 16.7 MB Default: None</p>
Usage Guidelines	See “Rate-Limiting Statement” on page 290.
Required Privilege Level	firewall—To view this statement in the configuration. firewall-control—To add this statement to the configuration.

policer

Syntax	policer <i>policer-name</i> { if-exceeding { bandwidth-limit <i>rate</i> ; burst-size-limit <i>bytes</i> ; } then { <i>policer-action</i> ; } }
Hierarchy Level	[edit firewall filter <i>filter-name</i>]
Description	Configure policer rate limits and actions.
Usage Guidelines	See “Configure Policing” on page 289.
Required Privilege Level	firewall—To view this statement in the configuration. firewall-control—To add this statement to the configuration.

policer-action

Syntax	<i>policer-action;</i>
Hierarchy Level	[edit firewall filter <i>filter-name</i> policer <i>policer-name</i> then]
Description	Configure policer outcomes.
Options	<p>discard—Configure the policer to discard traffic that exceeds the rate limits.</p> <p>plp <i>value</i>—Set the PLP control bit for subsequent processing. <i>value</i> can be 0 or 1.</p> <p>output-queue <i>value</i>—Set the output queue control bits for subsequent processing. Range: 0 through 3</p>
Usage Guidelines	See “Policer Action Statement” on page 291.
Required Privilege Level	<p>firewall—To view this statement in the configuration.</p> <p>firewall-control—To add this statement to the configuration.</p>

