

Chapter 21

Summary of Service Set Configuration Statements

The following sections explain each of the service set configuration statements. The statements are organized alphabetically.

adaptive-services-pics

Syntax adaptive-services-pics {
 traceoptions {
 flag *flag*;
 }
}

Hierarchy Level [edit services]

Description Define global services properties.

Options The remaining statements are explained separately.

Usage Guidelines See “Tracing Adaptive Services PIC Operations” on page 250.

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

facility-override

Syntax	<code>facility-override <i>facility-name</i>;</code>
Hierarchy Level	[edit services service-set <i>service-set-name</i> syslog host <i>hostname</i>]
Description	Override the default facility for system log reporting.
Options	<p><i>facility-name</i>—Name of the facility that overrides the default assignment. Valid entries are:</p> <ul style="list-style-type: none"> authorization daemon ftp kernel local0 through local7 user
Usage Guidelines	See “Configuring System Log Properties” on page 248.
Required Privilege Level	<p>interface—To view this statement in the configuration.</p> <p>interface-control—To add this statement to the configuration.</p>

host

Syntax	<pre>host <i>hostname</i> { services <i>severity-level</i>; facility-override <i>facility-name</i>; interface-service <i>prefix-number</i>; }</pre>
Hierarchy Level	[edit services service-set <i>service-set-name</i> syslog]
Description	Specify the hostname for the system logging utility.
Options	<p><i>hostname</i>—Name of the system logging utility host machine.</p> <p>The remaining statements are explained separately.</p>
Usage Guidelines	See “Configuring System Log Properties” on page 248.
Required Privilege Level	<p>interface—To view this statement in the configuration.</p> <p>interface-control—To add this statement to the configuration.</p>

ids-rules

Syntax	([<i>ids-rules rule-name</i>] <i>ids-rule-sets rule-set-name</i>);
Hierarchy Level	[edit services service-set <i>service-set-name</i>]
Description	Specify the IDS rules or rule set included in this service set. You can configure multiple rules, but only one rule set for each service.
Options	<i>rule-name</i> —Identifier for the collection of terms that constitute this rule. <i>rule-set-name</i> —Identifier for the set of rules to be included.
Usage Guidelines	See “Configuring Service Rules” on page 247.
Required Privilege Level	interface—To view this statement in the configuration. interface-control—To add this statement to the configuration.

interface-service

Syntax	interface-service { service-interface <i>name</i> ; }
Hierarchy Level	[edit services service-set <i>service-set-name</i>]
Description	Specify the device name for the interface service PIC.
Options	<i>service-interface name</i> —Name of the service device associated with the interface-wide service set.
Usage Guidelines	See “Configuring Service Interfaces” on page 246.
Required Privilege Level	interface—To view this statement in the configuration. interface-control—To add this statement to the configuration.

ipsec-vpn-options

Syntax	ipsec-vpn-options { local-gateway <i>address</i> ; }
Hierarchy Level	[edit services service-set <i>service-set-name</i>]
Description	Specify IPSec service options.
Options	The remaining statements are explained separately.
Usage Guidelines	See “Configuring Service Rules” on page 247.
Required Privilege Level	interface—To view this statement in the configuration. interface-control—To add this statement to the configuration.

ipsec-vpn-rules

Syntax	([ipsec-vpn-rules <i>rule-name</i>] ipsec-vpn-rule-sets <i>rule-set-name</i>);
Hierarchy Level	[edit services service-set <i>service-set-name</i>]
Description	Specify the IPSec rules or rule set included in this service set. You can configure multiple rules, but only one rule set for each service.
Options	<i>rule-name</i> —Identifier for the collection of terms that constitute this rule. <i>rule-set-name</i> —Identifier for the set of rules to be included.
Usage Guidelines	See “Configuring Service Rules” on page 247.
Required Privilege Level	interface—To view this statement in the configuration. interface-control—To add this statement to the configuration.

local-gateway

Syntax	local-gateway <i>address</i> ;
Hierarchy Level	[edit service-set service-set <i>service-set-name</i> ipsec-vpn-options]
Description	Define the local address for the IPSec traffic.
Options	<i>address</i> —Local address.
Usage Guidelines	See “Configuring Service Rules” on page 247.
Required Privilege Level	admin—To view this statement in the configuration. admin-control—To add this statement to the configuration.

log-prefix

Syntax	log-prefix <i>prefix-number</i> ;
Hierarchy Level	[edit services service-set <i>service-set-name</i> syslog host <i>hostname</i>]
Description	Set the system logging prefix value.
Options	<i>prefix-number</i> —System logging prefix value.
Usage Guidelines	See “Configuring System Log Properties” on page 248.
Required Privilege Level	interface—To view this statement in the configuration. interface-control—To add this statement to the configuration.

nat-rules

Syntax	([nat-rules <i>rule-name</i>] nat-rule-sets <i>rule-set-name</i>);
Hierarchy Level	[edit services service-set <i>service-set-name</i>]
Description	Specify the NAT rules or rule set included in this service set. You can configure multiple rules, but only one rule set for each service.
Options	<i>rule-name</i> —Identifier for the collection of terms that constitute this rule. <i>rule-set-name</i> —Identifier for the set of rules to be included.
Usage Guidelines	See “Configuring Service Rules” on page 247.
Required Privilege Level	interface—To view this statement in the configuration. interface-control—To add this statement to the configuration.

next-hop-service

Syntax	next-hop-service { inside-service-interface <i>name.number</i> ; outside-service-interface <i>name.number</i> ; }
Hierarchy Level	[edit services service-set <i>service-set-name</i>]
Description	Specify interface names for the forwarding next-hop service set.
Options	<i>inside-service-interface name.number</i> —Name and logical unit number of the service interface associated with the service set applied inside the network. <i>outside-service-interface name.number</i> —Name and logical unit number of the service interface associated with the service set applied outside the network.
Usage Guidelines	See “Configuring Service Interfaces” on page 246.
Required Privilege Level	interface—To view this statement in the configuration. interface-control—To add this statement to the configuration.

service-interface

Syntax	<code>service-interface <i>interface-name</i>;</code>
Hierarchy Level	[edit services service-set <i>service-set-name</i> interface-service]
Description	Specify the name for the AS PIC interface associated with an interface-wide service set.
Options	<i>interface-name</i> —Identifier of the service interface.
Usage Guidelines	See “Configuring Service Interfaces” on page 246.
Required Privilege Level	interface—To view this statement in the configuration. interface-control—To add this statement to the configuration.

service-set

Syntax	<pre> service-set <i>service-set-name</i> { ([ids-rules <i>rule-names</i>] ids-rule-sets <i>rule-set-name</i>); ([nat-rules <i>rule-names</i>] nat-rule-sets <i>rule-set-name</i>); ([stateful-firewall-rules <i>rule-names</i>] stateful-firewall-rule-sets <i>rule-set-name</i>); interface-service { service-interface <i>name</i>; } next-hop-service { inside-service-interface <i>name.number</i>; outside-service-interface <i>name.number</i>; } syslog { host <i>hostname</i> { services <i>severity-level</i>; facility-override <i>facility-name</i>; interface-service <i>prefix-number</i>; } } } </pre>
Hierarchy Level	[edit services]
Description	Define the service set.
Options	<p><i>service-set-name</i>—Identifies the service set.</p> <p>The remaining statements are explained separately.</p>
Usage Guidelines	See “Service Sets Configuration Guidelines” on page 245.
Required Privilege Level	interface—To view this statement in the configuration. interface-control—To add this statement to the configuration.

services

See the following sections:

services (Hierarchy) on page 259

services (System Logging) on page 259

services (Hierarchy)

Syntax `services { ... }`

Hierarchy Level [edit]

Description Define the service rules to be applied to traffic.

Usage Guidelines See “Service Sets Configuration Guidelines” on page 245.

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

services (System Logging)

Syntax `services severity-level;`

Hierarchy Level [edit services service-set *service-set-name* syslog host *hostname*]

Description Specify the severity level for system logging messages.

Options *severity-level*—Assigns a severity level to the facility. Valid entries are:

alert—Conditions that should be corrected immediately.

any—Matches any level.

critical—Critical conditions.

emergency—Panic conditions.

error—Error conditions.

info—Informational messages.

notice—Conditions that require special handling.

warning—Warning messages.

Usage Guidelines See “Configuring System Log Properties” on page 248.

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

stateful-firewall-rules

Syntax	([stateful-firewall-rules <i>rule-names</i>] stateful-firewall-rule-sets <i>rule-set-name</i>);
Hierarchy Level	[edit services service-set <i>service-set-name</i>]
Description	Specify the stateful firewall rules or rule set included in this service set. You can configure multiple rules, but only one rule set for each service.
Options	<i>rule-name</i> —Identifier for the collection of terms that comprise this rule. <i>rule-set-name</i> —Identifier for the set of rules to be included.
Usage Guidelines	See “Configuring Service Rules” on page 247.
Required Privilege Level	interface—To view this statement in the configuration. interface-control—To add this statement to the configuration.

syslog

Syntax	<pre> syslog { host <i>hostname</i> { services <i>severity-level</i>; facility-override <i>facility-name</i>; interface-service <i>prefix-number</i>; } } </pre>
Hierarchy Level	[edit services service-set <i>service-set-name</i>]
Description	Configure generation of system log messages for the service set. The system log information is passed to the kernel for logging in the /var/log directory. These settings override the values defined at the [edit interfaces <i>interface-name</i> sp-options] hierarchy level; for more information on configuring those values, see the <i>JUNOS Network Interfaces and Class of Service Configuration Guide</i> .
Options	The remaining statements are described separately.
Usage Guidelines	See “Configuring System Log Properties” on page 248.
Required Privilege Level	interface—To view this statement in the configuration. interface-control—To add this statement to the configuration.

traceoptions

Syntax	traceoptions { flag <i>flag</i> ; }
Hierarchy Level	[edit services adaptive-services-pics]
Description	Configure Adaptive Services PIC tracing operations. The messages are output to /var/log/spd.
Options	flag <i>flag</i> —Tracing operation to perform: all—Trace everything. configuration—Trace configuration events. routing-protocol—Trace routing protocol events. routing-socket—Trace routing socket events.
Usage Guidelines	See “Tracing Adaptive Services PIC Operations” on page 250.
Required Privilege Level	interface—To view this statement in the configuration. interface-control—To add this statement to the configuration.

