

Chapter 23

Summary of Encryption Configuration Statements

The following sections explain each of the encryption services statements. The statements are organized alphabetically.

address

Syntax	<pre>address <i>address</i> { destination <i>address</i>; }</pre>
Hierarchy Level	[edit interfaces <i>interface-name</i> unit <i>logical-unit-number</i> family <i>family</i>]
Description	Configure the interface address.
Options	<i>address</i> —Address of the interface. The remaining statements are explained separately.
Usage Guidelines	See “Configure an Encryption Interface” on page 236.
Required Privilege Level	interface—To view this statement in the configuration. interface-control—To add this statement to the configuration.

backup-destination

Syntax	backup-destination <i>destination-address</i> ;
Hierarchy Level	[edit interfaces <i>interface-name</i> unit <i>logical-unit-number</i> tunnel]
Description	For tunnel interfaces, specify the remote address of the backup tunnel.
Options	<i>destination-address</i> —Address of the remote side of the connection.
Usage Guidelines	See “Configure IPSec Tunnel Redundancy” on page 245.
Required Privilege Level	interface—To view this statement in the configuration. interface-control—To add this statement to the configuration.
See Also	destination on page 248

backup-interface

Syntax	backup-interface <i>interface-name</i> ;
Hierarchy Level	[edit interfaces <i>interface-name</i> es-options]
Description	Configure a backup ES PIC. When the primary ES PIC has a servicing failure, the backup becomes active, inherits all the tunnels and security associations (SAs), and acts as the new next hop for IPSec traffic.
Options	<i>interface-name</i> —Name of ES interface to serve as the backup.
Usage Guidelines	See “Configure ES PIC Redundancy” on page 244.
Required Privilege Level	interface—To view this statement in the configuration. interface-control—To add this statement to the configuration.

destination

Syntax	destination <i>destination-address</i> ;
Hierarchy Level	[edit interfaces <i>interface-name</i> unit <i>logical-unit-number</i> family inet address <i>address</i>], [edit interfaces <i>interface-name</i> unit <i>logical-unit-number</i> tunnel]
Description	For tunnel and encryption interfaces, specify the remote address.
Options	<i>destination-address</i> —Address of the remote side of the connection.
Usage Guidelines	See “Configure an Encryption Interface” on page 236, “Configure Traffic Sampling” on page 266, and “Configure Flow Monitoring” on page 273.
Required Privilege Level	interface—To view this statement in the configuration. interface-control—To add this statement to the configuration.

es-options

Syntax	es-options { backup-interface <i>interface-name</i> ; }
Hierarchy Level	[edit interfaces <i>interface-name</i>]
Description	On ES interfaces, configure ES interface-specific interface properties. The backup-interface statement is explained separately.
Usage Guidelines	See “Configure ES PIC Redundancy” on page 244.
Required Privilege Level	interface—To view this statement in the configuration. interface-control—To add this statement to the configuration.

family

Syntax	family inet { ipsec-sa <i>sa-name</i> ; }
Hierarchy Level	[edit interfaces <i>interface-name</i> unit <i>logical-unit-number</i>]
Description	Configure protocol family information for the logical interface.
Options	<p><i>family</i>—Protocol family:</p> <ul style="list-style-type: none"> ccc—Circuit cross-connect protocol suite inet—Internet Protocol version 4 suite inet6—Internet Protocol version 6 suite iso—OSI ISO protocol suite mfr-end-to-end—Multilink Frame Relay FRF.15 mfr-uni-nni—Multilink Frame Relay FRF.16 multilink-ppp—Multilink Point-to-Point Protocol mpls—Multiprotocol Label Switching tcc—Translational Cross Connect protocol suite tnp—Trivial Network Protocol vpls—Virtual Private LAN Service <p>The remaining statements are explained separately.</p>
Usage Guidelines	See “Configure Encryption Interfaces” on page 235; for a general discussion of family statement options, see the <i>JUNOS Internet Software Network Interfaces and Class of Service Configuration Guide</i> .
Required Privilege Level	<p>interface—To view this statement in the configuration.</p> <p>interface-control—To add this statement to the configuration.</p>
See Also	<i>JUNOS Internet Software Network Interfaces and Class of Service Configuration Guide</i> for other statements that do not affect services interfaces.

filter

Syntax	filter { input <i>filter-name</i> ; output <i>filter-name</i> ; }
Hierarchy Level	[edit interfaces <i>interface-name</i> unit <i>logical-unit-number</i> family inet]
Description	Define the filters to be applied on an interface.
Options	input <i>filter-name</i> —Identifier for the input filter. output <i>filter-name</i> —Identifier for the output filter.
Usage Guidelines	See “Configure Traffic” on page 237.
Required Privilege Level	interface—To view this statement in the configuration. interface-control—To add this statement to the configuration.

interfaces

Syntax	interfaces { ... }
Hierarchy Level	[edit]
Description	Configure interfaces on the router.
Default	The management and internal Ethernet interfaces are automatically configured. You must configure all other interfaces.
Usage Guidelines	See the <i>JUNOS Internet Software Network Interfaces and Class of Service Configuration Guide</i> .
Required Privilege Level	interface—To view this statement in the configuration. interface-control—To add this statement to the configuration.

ipsec-sa

Syntax	<code>ipsec-sa sa-name;</code>
Hierarchy Level	[edit interfaces <i>es-fpc/pic/port</i> unit <i>logical-unit-number</i> family inet]
Description	Specify the Internet Protocol security architecture (IPSec) security association (SA) name associated with the interface.
Options	<i>sa-name</i> —IPSEC security association name.
Usage Guidelines	See “Configure Encryption Interfaces” on page 235.
Required Privilege Level	interface—To view this statement in the configuration. interface-control—To add this statement to the configuration.
See Also	<i>JUNOS Internet Software System Basics Configuration Guide</i>

tunnel

Syntax	<pre>tunnel { backup-destination destination-address; destination destination-address; routing-instance { destination routing-instance-name; } source source-address; ttl number; }</pre>
Hierarchy Level	[edit interfaces <i>interface-name</i> unit <i>logical-unit-number</i>]
Description	Configure a tunnel. You can use the tunnel for unicast and multicast traffic or just for multicast traffic. You can also use tunnels for encrypted traffic or VPNs. The statements are explained separately.
Usage Guidelines	See “Configure Encryption Interfaces” on page 235 and “Configure Tunnel Interfaces” on page 417.
Required Privilege Level	interface—To view this statement in the configuration. interface-control—To add this statement to the configuration.
See Also	<i>JUNOS Internet Software VPNs Configuration Guide</i>

unit

Syntax	<pre> unit <i>logical-unit-number</i> { family inet { ipsec-sa <i>sa-name</i>; } tunnel { backup-destination <i>destination-address</i>; destination <i>destination-address</i>; routing-instance { destination <i>routing-instance-name</i>; } source <i>source-address</i>; ttl <i>number</i>; } } </pre>
Hierarchy Level	[edit interfaces <i>interface-name</i>]
Description	Configure a logical interface on the physical device. You must configure a logical interface to be able to use the physical device.
Options	<p><i>logical-unit-number</i>—Number of the logical unit. Range: 0 through 16,384</p> <p>The remaining statements are explained separately.</p>
Usage Guidelines	See “Configure Encryption Interfaces” on page 235; for a general discussion of logical interface properties, see the <i>JUNOS Internet Software Network Interfaces and Class of Service Configuration Guide</i> .
Required Privilege Level	<p>interface—To view this statement in the configuration.</p> <p>interface-control—To add this statement to the configuration.</p>
See Also	<i>JUNOS Internet Software Network Interfaces and Class of Service Configuration Guide</i> for other statements that do not affect services interfaces.

