

IPv6 to IPv4 Tunnel Interface Configuration Mode Commands

The IPv6 to IPv4 Tunnel Interface Configuration Mode is used to create and manage the IP interface for addresses, address resolution options, etc.

Command Modes

Exec > Global Configuration > Context Configuration > Tunnel Interface Configuration > IPv6 to IPv4 Tunnel Interface Configuration

configure > context context name > interface interface name tunnel > tunnel-mode ipv6ip

Entering the above command sequence results in the following prompt:

[context name]host name(config-if-tunnel-ipv6ip)#



Important The commands or keywords/variables that are available are dependent on platform type, product version, and installed license(s).

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destination address

Configures the destination of the tunnelled packets for a manual tunnel.

Product All
Privilege Administrator

IPv6 to IPv4 Tunnel Interface Configuration Mode Commands

Command Modes	Exec > Global Configuration > Context Configuration > Tunnel Interface Configuration > IPv6 to IPv4 Tunnel Interface Configuration
	<pre>configure > context context_name > interface interface_name tunnel > tunnel-mode ipv6ip</pre>
	Entering the above command sequence results in the following prompt:
	[context_name]host_name(config-if-tunnel-ipv6ip)#
Syntax Description	destination address
	no destination address
	no
	Removes configuration for the specified keyword.
	address
	Specifies the IP address of the destination device. <i>address</i> must be specified in IPv4 dotted decimal or IPv6 colon-separated-hexadecimal notation.
Usage Guidelines	Use this command to configure the IP address of the destination end of the tunnel.
	Example
	The following command sets the destination address for packets on this tunnelled interface to 10.2.3.4:

destination address 10.2.3.4

do show

	Executes all show commands while in Configuration mode.
Product	All
Privilege	Security Administrator, Administrator
Syntax Descripti	on do show
Usage Guideline	s Use this command to run all Exec mode show commands while in Configuration mode. It is not necessary to exit the Config mode to run a show command.
	The pipe character is only available if the command is valid in the Exec mode.
Cau	tion There are some Exec mode show commands which are too resource intensive to run from Config mode. These include: do show support collection, do show support details, do show support record and do show support summary. If there is a restriction on a specific show command, the following error message is displayed:
	Failure: Cannot execute 'do show support' command from Config mode.

end

	Exits the current configuration mode and returns to the Exec mode.
Product	All
Privilege	Security Administrator, Administrator
Syntax Description	end
Usage Guidelines	Use this command to return to the Exec mode.
exit	

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Exits the current mode and returns to the parent configuration mode.

Product	All
Privilege	Security Administrator, Administrator
Syntax Description	exit
Usage Guidelines	Use this command to return to the parent configuration mode.

mode

Configures the mode of IPv6 to IPv4 tunneling. The default is set to manual mode.

Product	All
Privilege	Security Administrator, Administrator
Command Modes	Exec > Global Configuration > Context Configuration > Tunnel Interface Configuration > IPv6 to IPv4 Tunnel Interface Configuration
	<pre>configure > context context_name > interface interface_name tunnel > tunnel-mode ipv6ip</pre>
	Entering the above command sequence results in the following prompt:
	[context_name]host_name(config-if-tunnel-ipv6ip)#
Syntax Description	mode { 6to4 manual }
	default mode
	6to4
	Configures automatic IPv6-to-IPv4 (6to4) tunnels as specified in RFC 3056.

end

	manual Configures point-to-point manual IPv6-to-IPv4 tunnels by specifying the IPv4 address of the tunnel remote end.
	default
	Resets the mode of IPv6-to-IPv4 tunneling to manual mode.
Usage Guidelines	There can be only one IPv6-to-IPv4 tunnel possible in a context. Once an IPv6-to-IPv4 tunnel is configured, all subsequent tunnels will be configured as manual tunnels.
	Example
	The following command configures the mode to IPv6-to-IPv4 (6to4).
	mode 6to4
	The following command configures the mode to 6to4.
	mode manual

source

Configures the source of tunneled packets.

Product	PDSN
	НА
Privilege	Security Administrator, Administrator
Command Modes	Exec > Global Configuration > Context Configuration > Tunnel Interface Configuration > IPv6 to IPv4 Tunnel Interface Configuration
	<pre>configure > context context_name > interface interface_name tunnel > tunnel-mode ipv6ip</pre>
	Entering the above command sequence results in the following prompt:
	[context_name]host_name(config-if-tunnel-ipv6ip)#
Syntax Description	<pre>source { address ip_address interface interface_name } no source { address interface }</pre>
	address <i>ip_address</i>
	Specifies the IPv4 address to use as the source address of the tunnel.
	<i>ip_address</i> must be expressed in IPv4 dotted-decimal notation.
	interface interface_name
	Specifies the name of a new turned ID-14 interface, where address is used as the source address of the turned

Specifies the name of a non-tunnel IPv4 interface, whose address is used as the source address of the tunnel. *interface* must be an alphanumeric string of 1 through 79 characters.

I

no source { address | interface }

Removes configuration for the specified keyword.

Usage Guidelines Configures the source IPv4 address of the tunnel by either specifying the IP address (host address) or by specifying another configured non-tunnel IPv4 interface. The source address must be an existing interface address before it is used. State of source address will affect the operational state of the tunnel.

Example

The following command configures the source address of the tunnel.

source address 10.2.3.4

The following command specifies the source interface as testsource1.

source interface testsource1

tos

	Configures the type of service (TOS) settings of the outer IPv4 header of the tunneled packets.
Product	PDSN
	НА
Privilege	Security Administrator, Administrator
Command Modes	Exec > Global Configuration > Context Configuration > Tunnel Interface Configuration > IPv6 to IPv4 Tunnel Interface Configuration
	<pre>configure > context context_name > interface interface_name tunnel > tunnel-mode ipv6ip</pre>
	Entering the above command sequence results in the following prompt:
	[context_name]host_name(config-if-tunnel-ipv6ip)#
Syntax Description	<pre>tos { copy value tos_value } default tos</pre>
	сору
	Copies the DC octet of the IPv6 packet to the TOS octet of IPv4 packet.
	default
	Configures default setting for the specified keyword.
	value tos_value
	Configures the raw TOS value ranging from 0 to 255. The default is 0.
Usage Guidelines	Sets the TOS parameter to be used in the tunnel transport protocol or copies the TOS value from the original IPv6 DC byte to the TOS value of the encapsulating IPv4 header.

Example

The following command sets the tos value to *I*: tos value 1

ttl

	Configures the TTL (Time to live) value of the outer IPv4 header of the tunneled packets.
Product	PDSN
	HA
Privilege	Security Administrator, Administrator
Command Modes	Exec > Global Configuration > Context Configuration > Tunnel Interface Configuration > IPv6 to IPv4 Tunnel Interface Configuration
	<pre>configure > context context_name > interface interface_name tunnel > tunnel-mode ipv6ip</pre>
	Entering the above command sequence results in the following prompt:
	[context_name]host_name(config-if-tunnel-ipv6ip)#
Syntax Description	ttl value ttl_value
	default
	Configures default setting for the specified keyword.
	value <i>ttl_value</i>
	<i>ttl_value</i> is an integer from 1 through 255. The default is 16.
Usage Guidelines	Configures the TTL parameter to be used in the tunnel transport protocol.
	Example
	The following command sets the TTL value to 25.
	ttl value 25