

ACLI Commands Reference for Avaya Ethernet Routing Switch 4000 Series

Introduction

This guide describes the Avaya Command Line Interface (ACLI) commands for the configuration of various features in Avaya ERS 4000 Series for the 5.8 release.

This document provides two different ways of navigating ACLI command documentation.

- [alphabetically](#) Each command is listed corresponding to the first letter of the command.
- [command mode](#) Each command mode page has a list of commands that are available in that mode. Each page is organized alphabetically for those commands in that mode.

Use the 'find-in-page' function of the browser to search for a command based on the page you are viewing. Most browsers launch 'find' using CTRL+F.

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NN47205-105 ACLI Commands Reference for Avaya Ethernet Routing Switch 4000 Series
Version 02.01 June 26 2014
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VRRP Router Configuration

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accept adv-rtr

Configures the OSPF accept-advertisements router policy.

Syntax

- `accept adv-rtr <router_ip_address> [enable] [metric-type {any | type1 | type2}] [route-policy <rmap_name>]`
- `no accept adv-rtr <router_ip_address> [enable] [metric-type {any | type1 | type2}] [route-policy <rmap_name>]`
- `default accept adv-rtr <router_ip_address> [enable] [metric-type {any | type1 | type2}] [route-policy <rmap_name>]`

Default

None

Command mode

OSPF Router Configuration

Command parameters

Parameter	Description
<code><router_ip_address></code>	Represents the IP address of the router from which advertisements are to be accepted. The value 0.0.0.0 denotes that advertisements from all routers are accepted.
<code>any</code>	Specifies match as any metric type.
<code>enable</code>	Enables the accept entry for the router specified in the <code><ip_address></code> parameter.
<code>metric-type {any type1 type2}</code>	Indicates the type of OSPF external routes that will be accepted from this router.
<code>route-policy <rmap_name></code>	Specifies the name of a previously configured route map to be used for filtering external routes advertised by the specified advertising router before accepting them into the routing table.
<code>type1</code>	Specifies match as type-1 metric type.
<code>type2</code>	Specifies match as type-2 metric type.

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adac call-server-port

Sets call server port(s) range.

Syntax

- `adac call-server-port <LINE>`
- `no adac call-server-port`
- `default adac call-server-port`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<LINE>	Set call server port(s) range.

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adac detection

Enables detection mechanisms on ports.

Syntax

- `adac detection [port <LINE>] {[mac][lldp]}`
- `no adac detection [port <LINE>] {[mac][lldp]}`
- `default adac detection [port <LINE>] {[mac][lldp]}`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<code>lldp</code>	Enable 802.1ab-based detection on ports.
<code>mac</code>	Enable MAC-based detection on ports.
<code>port <LINE></code>	Port number(s) for which to change settings.

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adac enable

Enables adac on the port or ports listed.

Syntax

- `adac enable [op-mode {tagged-frames | untagged-frames-advanced | untagged-frames-basic}] [voice-vlan <1-4094>] [uplink-port {<LINE> | spbm}] [call-server-port <LINE>]`
- `no adac enable [voice-vlan] [uplink-port] [call-server-port]`
- `default adac enable [voice-vlan] [uplink-port] [call-server-port]`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<code>call-server-port <LINE></code>	Set call server port(s) range.
<code>op-mode</code>	Set ADAC operation mode.
<code>spbm</code>	Use an SPBM I-SID as uplink-port.
<code>tagged-frames</code>	IP phones send tagged frames
<code>untagged-frames-advanced</code>	IP phones send untagged frames and Voice-VLAN is created
<code>untagged-frames-basic</code>	IP phones send untagged frames and Voice-VLAN is not created

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adac (Ethernet Interface Configuration)

Modifies ADAC port settings.

Syntax

- `adac [port <LINE>] {[enable] [tagged-frames-pvid (<1-4094>| no-change)] [tagged-frames-tagging (tag-all|tag-pvid-only|untag-pvid-only|no-change)]}`
- `no adac [enable] [port <LINE> enable]`
- `default adac [enable] [port <LINE> tagged-frames-pvid enable] [port <LINE> tagged-frames-tagging enable]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<code>enable</code>	Enable auto-detection on ports.
<code>no-change</code>	Leave the tagging unchanged to its current set value.
<code>port <LINE></code>	Ports to which to apply the ADAC configuration.
<code>tag-all</code>	Enable tagging.
<code>tagged-frames-pvid {<1-4094> [no-change]}</code>	Sets Tagged-Frames PVID on the port or ports listed. Use no-change to keep the current setting.
<code>tagged-frames-tagging {no-change tag-all tag-pvid-only untag-pvid-only}</code>	Set the tagging to be configured for telephony ports in Tagged Frames operating mode.
<code>tag-pvid-only</code>	Enable tagging of frames matching the PVID of the port.
<code>untag-pvid-only</code>	Disable tagging of frames matching the PVID of the port.

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adac mac-range-table

Adds new supported MAC address range.

Syntax

- `adac mac-range-table low-end <H.H.H> high-end <H.H.H>`
- `no adac mac-range-table low-end <H.H.H> high-end <H.H.H>`
- `default adac mac-range-table`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<H.H.H>	MAC Address to add (i.e. H.H.H or xx:xx:xx:xx:xx:xx or xx.xx.xx.xx.xx.xx or xx-xx-xx-xx-xx-xx)
high-end	High end of the MAC address range to add
low-end	Low end of the MAC address range to add

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adac op-mode

Sets ADAC operation mode.

Syntax

- `adac op-mode {tagged-frames | untagged-frames-advanced | untagged-frames-basic} [voice-vlan <1-4094>] [uplink-port {<LINE> | spbm}] [call-server-port <LINE>]`
- `default adac op-mode [voice-vlan] [uplink-port] [call-server-port]`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<code>call-server-port <LINE></code>	Set call server port(s) range
<code>spbm</code>	Use an SPBM I-SID as uplink-port
<code>tagged-frames</code>	IP phones send tagged frames
<code>untagged-frames-advanced</code>	IP phones send untagged frames and Voice-VLAN is created
<code>untagged-frames-basic</code>	IP phones send untagged frames and Voice-VLAN is not created
<code>uplink-port <LINE></code>	Set uplink port(s) range
<code>voice-vlan <1-4094></code>	Set Voice-VLAN

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adac uplink-port

Sets uplink port(s) range.

Syntax

- `adac uplink-port {<LINE> | spbm} [call-server-port <LINE>]`
- `no adac uplink-port [call-server-port]`
- `default adac uplink-port [call-server-port]`

Default

The default is none.

Command mode

Global Configuration

Command parameters

Parameter	Description
<LINE>	Specifies an uplink port(s) range.
call-server-port <LINE>	Specifies a call server port(s) range.
spbm	Specifies Shortest Path Bridging MAC (SPBM) uplink-port.

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adac voice-vlan

Sets Voice-VLAN ID.

Syntax

- `adac voice-vlan <1-4094> [uplink-port {<LINE> | spbm}] call-server-port <LINE>`
- `no adac voice-vlan [uplink-port] call-server-port`
- `default adac voice-vlan [uplink-port] call-server-port`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<code><1-4094></code>	Voice-VLAN ID
<code>call-server-port <LINE></code>	Set call server port(s) range
<code>spbm</code>	Use an SPBM I-SID as uplink-port
<code>uplink-port <LINE></code>	Set uplink port(s) range

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area

Configures area.

Syntax

- `area <area-id> [default-cost {0-16777215}] [import {external | noexternal | nssa}] [import-summaries {enable}] [range {ip_addr/subnet_mask} {nssa-extlink {advertise-metric <0-65535> | advertise-mode {no-summarize | summarize | suppress} } | summary-link {advertise-metric <0-65535> | advertise-mode {no-summarize | summarize | suppress} }]`
- `no area <area-id> [default-cost {0-16777215}] [import {external | noexternal | nssa}] [import-summaries {enable}] [range {ip_addr/subnet_mask} {nssa-extlink {advertise-metric <0-65535> | advertise-mode {no-summarize | summarize | suppress} } | summary-link {advertise-metric <0-65535> | advertise-mode {no-summarize | summarize | suppress} }]`
- `default area <area-id> [default-cost {0-16777215}] [import {external | noexternal | nssa}] [import-summaries {enable}] [range {ip_addr/subnet_mask} {nssa-extlink {advertise-metric <0-65535> | advertise-mode {no-summarize | summarize | suppress} } | summary-link {advertise-metric <0-65535> | advertise-mode {no-summarize | summarize | suppress} }]`

Default

None

Command mode

OSPF Router Configuration

Command parameters

Parameter	Description
<code>advertise-metric <0-65535></code>	Configure metric to be advertised for area range
<code>advertise-mode {no-summarize summarize suppress}</code>	Select advertise mode for area range
<code>area-id</code>	Specifies the Area ID in dotted decimal notation (A.B.C.D)
<code>default-cost {0-16777215}</code>	Specifies the default cost associated with an OSPF stub area
<code>external</code>	Specifies a normal area
<code>import {external noexternal nssa}</code>	Specifies the area type by defining the area's support for importing Autonomous System external link state advertisements: external: specifies a normal area ;noexternal: specifies a stub area ; nssa: specifies an NSSA.
<code>import-summaries {enable}</code>	Controls the import of summary link state advertisements into stub areas. This setting has no effect on other areas.
<code>noexternal</code>	Specifies a stub area
<code>nssa</code>	Specifies a not-so-stubby area
<code>nssa-extlink</code>	Not-so-stubby area link summary (Type 7)
<code>range {ip_addr/subnet_mask} [{nssa-extlink </code>	Specifies range parameters for the OSPF area

summary-link}]
summary-link

Aggregated summary (Type 3)

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area virtual-link

Creates a virtual link.

Syntax

- `area virtual-link <area-id> <nghbr-router-id> {[authentication-key <WORD>] [authentication-type {none| simple|message-digest}] [primary-md5-key <1-255>] [dead-interval <1-2147483647>] [hello-interval <1-65535>] [retransmit-interval <1-3600>] [transit-delay <1-3600>]}`
- `no area virtual-link <area-id> <nghbr-router-id> {[authentication-key <WORD>] [authentication-type {none| simple|message-digest}] [primary-md5-key <1-255>] [dead-interval <1-2147483647>] [hello-interval <1-65535>] [retransmit-interval <1-3600>] [transit-delay <1-3600>]}`
- `default area virtual-link <area-id> <nghbr-router-id> {[authentication-key <WORD>] [authentication-type {none| simple|message-digest}] [primary-md5-key <1-255>] [dead-interval <1-2147483647>] [hello-interval <1-65535>] [retransmit-interval <1-3600>] [transit-delay <1-3600>]}`

Default

None

Command mode

OSPF Router Configuration

Command parameters

Parameter	Description
<area_id>	Specifies the transit area ID in dotted decimal notation (A.B.C.D)
<nghbr-routerid>	Specifies the transit area ID in dotted decimal notation (A.B.C.D)
authentication-key <WORD>	Specifies the unique identifier assigned to the authentication key
authentication-type	Specifies one of the following authentication types: none; simple; password; message; digest MD5
dead-interval	Specifies the time interval, in seconds, that a Hello packet has not been transmitted from the virtual interface before its neighbors declare it down. Expressed as an integer from 1-2147483647, the default dead interval value is 60 seconds
hello-interval	Specifies the time interval, in seconds, between transmission of Hello packets from the virtual interface. Expressed as an integer from 1-65535, the hello-interval default value is 10 seconds
primary-md5-key	Specifies the user-selected key used to encrypt OSPF protocol packets for transmission.
retransmit-interval	Specifies the time interval, in seconds, between link stage advertisement retransmissions for adjacencies belonging to the virtual interface. Expressed as an integer from 1-3600, the default value is 5 seconds.
	Specifies the estimated number of seconds required to transmit a link state

`transit-delay`

update packet over the virtual interface. Expressed as an integer from 1-3600, the default value is 1 second.

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area virtual-link message-digest-key

Creates a virtual interface message digest key.

Syntax

- `area virtual-link message-digest-key <area_id> <neighbor_id> <1-255> md5-key <WORD>`
- `no area virtual-link message-digest-key <area_id> <neighbor_id> <1-255> md5-key <WORD>`
- `default area virtual-link message-digest-key <area_id> <neighbor_id> <1-255> md5-key <WORD>`

Default

None

Command mode

OSPF Router Configuration

Command parameters

Parameter	Description
<1-255>	Specifies the primary MD5 key value, expressed as an integer from 1-255.
<area_id>	Specifies the transit area Id expressed as an IP address
<neighbor_id>	Specifies the neighbor router ID expressed as an IP address
md5-key <WORD>	Specifies the user-selected key used to encrypt OSPF protocol packets for transmission.

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arp

Configures a static ARP entry.

Syntax

- `arp {<A.B.C.D> <H.H.H> <WORD> id <1-4094> | timeout <5-360>}`
- `no arp {A.B.C.D}`
- `default arp timeout`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<A.B.C.D>	IP addr of ARP entry
<H.H.H>	MAC addr of ARP entry (i.e. H.H.H or xx:xx:xx:xx:xx:xx or xx.xx.xx.xx.xx or xx-xx-xx-xx-xx)
<WORD>	unit/port
id <1-4094>	VLAN ID to apply ARP entry for
timeout <5-360>	time for the entry to exist

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as-boundary-router

Configures a router as an ASBR.

Syntax

- `as-boundary-router enable`
- `no as-boundary-router enable`
- `default as-boundary-router enable`

Default

Disabled

Command mode

OSPF Router Configuration

Command parameters

Parameter	Description
<code>enable</code>	Disable ASBR on the switch

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asset-id

Configures the Asset-ID.

Syntax

- `asset-id {stack <WORD> | unit <1-8> <WORD>| <WORD>}`
- `no asset-id {stack | unit <1-8>}`
- `default asset-id {stack | unit <1-8>}`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<WORD>	Asset-ID of this unit
stack <WORD>	Asset-ID for the Stack
unit <1-8>	Asset-ID for specific unit in the Stack

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audit

Configures audit settings.

Syntax

- `audit log {noerase enable | save}`
- `no audit log`
- `default audit log`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<code>log</code>	Configure audit log settings
<code>noerase enable</code>	Enable noerase for audit log
<code>save</code>	Enable audit log save settings

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audit log

Configures audit settings.

Syntax

- `audit log noerase enable`

Default

None

Command mode

Privileged Executive

Command parameters

Parameter	Description
<code>noerase enable</code>	Enable noerase for audit log

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auto-negotiation-advertisements

Configure auto-negotiation advertisement settings.

Syntax

- auto-negotiation-advertisements {[port <LINE>][add | remove][10-full] [10-half] [100-full] [100-half] [1000-full] [asymm-pause-frame] [none]}
- no auto-negotiation-advertisements [port <LINE>]
- default auto-negotiation-advertisements [port <LINE>]

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
1000-full	Advertise 1000Mbps full-duplex.
100-full	Advertise 100Mbps half-duplex.
100-half	Advertise 100Mbps full-duplex.
10-full	Advertise 10Mbps half-duplex.
10-half	Advertise 10Mbps full-duplex.
add	Specifies the option as add.
asymm-pause-frame	Advertise use of asymmetric pause frames half-duplex.
port <LINE>	Select a port for operation.
remove	Specifies the option as remove.
none	Do not advertise anything during auto-negotiation

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auto-pvid

Enables Auto-PVID (for all ports).

Syntax

- auto-pvid
- no auto-pvid

Default

None

Command mode

Global Configuration

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autosave

Changes autosave settings.

Syntax

- `autosave enable`
- `no autosave enable`
- `default autosave enable`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<code>enable</code>	Enable autosave

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autotopology

Enables the autotopology protocol.

Syntax

- `autotopology`
- `no autotopology`
- `default autotopology`

Default

None

Command mode

Global Configuration

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auto-vlink

Enables global automatic Virtual Link creation.

Syntax

- `auto-vlink`
- `no auto-vlink`
- `default auto-vlink`

Default

None

Command mode

OSPF Router Configuration

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banner

Sets custom banner info.

Syntax

- banner {<1-19> <LINE> | custom | disabled | static}
- no banner

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<1-19> <LINE>	Custom banner line number
custom	Use custom banner
disabled	Skip banner display
static	Use static banner

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blink-leds

Blinks the LEDs on the display panel to identify the unit.

Syntax

- `blink-leds [unit <1-8>] { time <1-10> | off}`

Default

None

Command mode

Privileged Executive

Command parameters

Parameter	Description
<code>off</code>	Stop blinking the LEDs
<code>time <1-10></code>	How long to blink the LEDs
<code>unit <1-8></code>	Unit number

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boot

Resets the switch/stack.

Syntax

- `boot {default unit <1-8> | partial-default | unit <1-8>}`

Default

None

Command mode

Privileged Executive

Command parameters

Parameter	Description
<code>default</code>	Reboot the stack/switch and use the factory default configurations
<code>partial-default</code>	Reboot the stack/switch and use partial factory default configurations
<code>unit <1-8></code>	Unit number

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brouter

Configures brouter ports.

Syntax

- `brouter [port <LINE>] vlan <1-4094> subnet <ip_address/mask> [routing enable]`
- `no brouter [port <LINE>] [routing enable]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<code>port <LINE></code>	Specifies the port to configure as a brouter port
<code>routing enable</code>	Enables Layer 3 routing on the brouter port
<code>subnet A.B.C.D/<0-32></code>	Specifies the IP address and subnet mask of the brouter. When creating a new brouter, this is the IP address and subnet mask assigned.
<code>vlan <1-4094></code>	Specifies the VLAN ID of the brouter. When creating a new brouter port, this is the VLAN ID assigned to the brouter port.

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cfm

Configures CFM.

Syntax

- `cfm {[ethertype <0x0-0xFFFF>] | [spbm [enable] [level <0-7>] mepid <1-8191>]}`
- `no cfm spbm enable`
- `default cfm ethertype`
- `default cfm spbm [enable] [level] [mepid]`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<code>enable</code>	Enable CFM SPBM
<code>ethertype <0x0-0xFFFF></code>	Specify the ethertype classifier criteria
<code>level <0-7></code>	Configure maintenance domain level
<code>mepid <1-8191></code>	Configure maintenance end point id
<code>spbm</code>	Configure CFM SPBM settings

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clear arp-cache

Clears the Layer 3 ARP cache.

Syntax

- clear arp-cache

Default

None

Command mode

Privileged Executive

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clear arp-cache (Ethernet Interface Configuration)

Clears the Layer 3 ARP cache.

Syntax

- clear arp-cache

Default

None

Command mode

Ethernet Interface Configuration

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clear audit log

Clears audit log.

Syntax

- clear audit log

Default

None

Command mode

Privileged Executive

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clear eapol

Clears authenticated clients.

Syntax

- `clear eapol non-eap [<LINE>] address <H.H.H>`

Default

None

Command mode

Privileged Executive

Command parameters

Parameter	Description
<LINE>	List of ports
address <H.H.H>	Non-EAP MAC address
non-eap	Clear NEAP authenticated clients

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clear eapol non-eap (Ethernet Interface Configuration)

Clears NEAP authenticated clients.

Syntax

- clear eapol non-eap [<LINE>] address <H.H.H>

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<LINE>	Specifies an individual port or list of ports from which to clear authenticated NEAP clients.
address <H.H.H>	Specifies the MAC address of an authenticated NEAP client to clear from the port. If you enter a MAC address value of 00:00:00:00:00:00, all authenticated NEAP clients are cleared from the specified port.

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clear ip-blocking (Ethernet Interface Configuration)

Clears the Layer 3 IP blocking state.

Syntax

- `clear ip-blocking`

Default

None

Command mode

Ethernet Interface Configuration

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clear ip dhcp-snooping

Clears DHCP snooping data.

Syntax

- `clear ip dhcp-snooping binding {dynamic | static}`

Default

None

Command mode

Privileged Executive

Command parameters

Parameter	Description
<code>binding</code>	Clear DHCP snooping bindings
<code>dynamic</code>	Clear DHCP snooping dynamic bindings
<code>static</code>	Clear DHCP snooping static bindings

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clear ip dhcp-snooping binding (Ethernet Interface Configuration)

Clears DHCP snooping bindings.

Syntax

- `clear ip dhcp-snooping binding {dynamic|static}`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<code>dynamic</code>	Clear DHCP snooping dynamic bindings
<code>static</code>	Clear DHCP snooping static bindings

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clear ip forward-protocol

Clears broadcast protocols counters.

Syntax

- clear ip forward-protocol udp counters <LINE>

Default

None

Command mode

Privileged Executive

Command parameters

Parameter	Description
<LINE>	Clear counters for specific VLAN
udp counters	Clear UDP broadcast counters

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clear ip forward-protocol udp counters (Ethernet Interface Configuration)

Clears UDP broadcast counters.

Syntax

- clear ip forward-protocol udp counters <LINE>

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<LINE>	Clear counters for specific VLAN

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clear ip igmp

Clears IGMP data.

Syntax

- `clear ip igmp profile stats <1-65535>`

Default

None

Command mode

Privileged Executive

Command parameters

Parameter	Description
<code><1-65535></code>	Profile ID
<code>profile</code>	Clear IGMP profile data
<code>stats</code>	Clear IGMP profile statistics

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clear ip igmp profile stats (Ethernet Interface Configuration)

Clears IGMP profile statistics.

Syntax

- clear ip igmp profile stats <1-65535>

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<1-65535>	Specifies the profile ID. If you do not include this variable in the command, statistics for all profiles are cleared.

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clear ip ospf

Clears OSPF-related data.

Syntax

- clear ip ospf counters <1-4094>

Default

None

Command mode

Privileged Executive

Command parameters

Parameter	Description
<1-4094>	VLAN ID
counters	Clear OSPF counters

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clear ip ospf counters (Ethernet Interface Configuration)

Clears OSPF statistics counters.

Syntax

- clear ip ospf counters <1-4094>

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<1-4094>	Specifies the VLAN ID. Range is 1-4094. If no VLAN is specified, the command clears OSPF global counters.

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clear ipv6 destinationcache

Clear the IPv6 destination cache.

Syntax

- `clear ipv6 destinationcache`

Default

None

Command mode

Privileged Executive

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clear ipv6 destinationcache (Ethernet Interface Configuration)

Clear the IPv6 destination cache.

Syntax

- clear ipv6 destinationcache

Default

None

Command mode

Ethernet Interface Configuration

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clear ipv6 neighbor-cache (Ethernet Interface Configuration)

Clears the IPv6 neighbor-cache.

Syntax

- `clear ipv6 neighbor-cache`

Default

None

Command mode

Ethernet Interface Configuration

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clear ip verify

Clears IP Source Guard statistics.

Syntax

- `clear ip verify source statistics interface [ethernet] <WORD>`

Default

None

Command mode

Privileged Executive

Command parameters

Parameter	Description
<WORD>	ports line
Ethernet	Select Ethernet interfaces
interface	select interfaces
source	Clear IP Source Guard statistics
statistics	Clear IP Source Guard statistics

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clear ip verify source statistics (Ethernet Interface Configuration)

Clears IP Source Guard statistics.

Syntax

- clear ip verify source statistics interface [ethernet] <WORD>

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<WORD>	Port list
interface Ethernet	Select interface

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clear isis lsdb (Ethernet Interface Configuration)

Clears LSP database and restarts the state machine.

Syntax

- `clear isis lsdb`

Default

None

Command mode

Ethernet Interface Configuration

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clear isis stats (Ethernet Interface Configuration)

Clears ISIS statistics.

Syntax

- `clear isis stats {error-counters | packet-counters}`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<code>error-counters</code>	Clear ISIS error counters
<code>packet-counters</code>	Clear ISIS packet counters

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clear license (Ethernet Interface Configuration)

Clears licenses.

Syntax

- clear license {<1-10>|all}

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<1-10>	Specify an individual license with the designated number
all	Delete all installed licenses

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clear logging (Ethernet Interface Configuration)

Clears log messages (with no parameters, from DRAM only).

Syntax

- `clear logging {non-volatile <critical> <serious>|nv|volatile <critical> <informational> <serious>}`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
critical	Clear critical log messages
informational	Clear informational log messages
non-volatile	Clear log messages from NVRAM
nv	Clear log messages from NVRAM and DRAM
serious	Clear serious log messages
volatile	Clear log messages from DRAM

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clear mac-address-table (Ethernet Interface Configuration)

Flushes the MAC address table for a specific VLAN.

Syntax

- `clear mac-address-table [address <H.H.H>|dynamic|static] [interface {Ethernet |mlt <1-32>|vlan <1-4094>}]`
- `clear mac-address-table interface mlt <1-32>`
- `clear mac-address-table address <H.H.H>`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<1-4094>	Vlan to be flushed out
address <H.H.H>	Flush a single MAC Address
dynamic	Flush only dynamically learned addresses
interface {Ethernet mlt <1-32> vlan 1-4094>}	Flush MAC Addresses of a specific interface
mlt <1-32>	Trunk to be flushed out
static	Flush only statically inserted addresses

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clear sshc known-host

Clears the public key of a known host.

Syntax

- clear sshc known-host {<A.B.C.D> | <host_name> | <ipv6_address> | all}

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<A.B.C.D>	IP address
<host_name>	Remote host name
<ipv6_address>	Remote host IPv6 address
all	Clear all licenses

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clear stack port-statistics (Ethernet Interface Configuration)

Clears the stack port counters.

Syntax

- clear stack port-statistics unit <1-8>

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
unit <1-8>	Specifies the unit in the stack

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clear-stats

Clears the port counter.

Syntax

- `clear-stats port <LINE>`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<code>port <LINE></code>	Selects a port to clear the port counter

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clear system last-exception (Ethernet Interface Configuration)

Clears last software exception information.

Syntax

- `clear system last-exception unit {<1-8>| all}`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<1-8>	Clear last software exception for a specified unit
all	All units

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cli

Modifies session settings.

Syntax

- `cli` `{[timestamp enable] | [password [{read-only | read-write} <WORD>] | [{serial | telnet} {local | none | radius | tacacs }]] }`
- `no cli timestamp enable`
- `default cli timestamp enable`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<WORD>	password
local	Use local password
none	Disable password
password	Modify CLI passwords
radius	Use RADIUS password authentication
read-only	Modify read-only password
read-write	Modify read-write password
serial	Enable/disable serial port password
tacacs	Use TACACS+ AAA services
telnet	Enable/disable telnet, ssh and web password
timestamp	Enable Displays timestamp

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clock source

Configures time source.

Syntax

- `clock source {ntp | sntp | sysUpTime}`
- `default clock source`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<code>ntp</code>	Configure NTP as time source
<code>sntp</code>	Configure SNTP as time source
<code>sysUpTime</code>	Configure System Up Time as time source

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clock summer-time

Configures the system to automatically switch to summer time (daylight saving time).

Syntax

- `clock summer-time {[recurring <1-5 | Last > <Day> <Month> <hh:mm> <1-5 | Last > <Day> <Month> <hh:mm> <1-1440>] | [<WPRD> date <1-31> <Month> <1999-2099> hh:mm <1-31> <Month> <1999-2099> hh:mm <-840 - 840>]}`
- `no clock summer-time recurring`
- `default clock summer-time recurring`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<1-1440>	Number of minutes to add/subtract during summer-time recurring
<1-31>	Day of the month, when summer time starts/ends
<1-5>	Week of the month when the summer-time recurring starts/ends
<1990-2099>	Year when summer time starts/ends
<-840 - 840>	Number of minutes to add/subtract during summer time
<WORD>	Set time zone acronym containing at most 4 chars (for example 'PDT' for Pacific Daylight Time) to be displayed when summer time is in effect.
date	Indicates that summer time should start on the first specific date listed in the command and end the second specific date in the command
day	Day of the week when summer-time recurring starts/ends (Monday, Tuesday etc)
hh:mm	Time in hours and minutes when summer-time recurring starts
last	Select the last day which will be specified of the month for summer-time starts/ends
month	Month when summer-time recurring starts/ends (January, February etc)
recurring	Specify the summer-time dates which recur every year

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clock sync-rtc-with-sntp enable

Configure sync RTC with NTP/SNTP status.

Syntax

- clock sync-rtc-with-sntp enable
- no clock sync-rtc-with-sntp enable

Default

None

Command mode

Global Configuration

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clock time-zone

Sets local time zone.

Syntax

- clock time-zone <WORD> <-12 - 13> <0-59>
- no clock time-zone

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<0-59>	Minutes difference from UTC (0, 15, 30 or 45)
<-12 - 13>	Hours difference from UTC
<WORD>	Set time zone acronym containing at most 4 chars

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configure network address

Specifies address of TFTP server.

Syntax

- `configure network address {A.B.C.D | <WORD>} filename <word>`

Default

None

Command mode

Privileged Executive

Command parameters

Parameter	Description
{A.B.C.D}	TFTP Server IP address
<WORD>	TFTP Server IPv6 address
filename <word>	Specify filename of config file

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configure network filename

Specifies filename of config file.

Syntax

- `configure network filename <WORD> address {<A.B.C.D> | word}`

Default

None

Command mode

Privileged Executive

Command parameters

Parameter	Description
{<A.B.C.D> word}	TFTP Server IP address or TFTP Server IPv6 address
<WORD>	Config file name
address	Specify address of TFTP server

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configure network load-on-boot

Specifies settings for loading config file at boot time.

Syntax

- configure network load-on-boot {[disable] [use-config] [filename <word>] address {A.B.C.D | <WORD>} filename <word>} | use-bootp

Default

None

Command mode

Privileged Executive

Command parameters

Parameter	Description
{A.B.C.D}	TFTP Server IP address
<WORD>	TFTP Server IPv6 address
address {A.B.C.D <WORD>}	Specify address of TFTP server
disable	Disable loading of config file at boot time
filename <word>	Specify filename of config file
use-bootp	Load config file at boot time using BOOTP
use-config	Load config file at boot time using configured parameters

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configure sftp

Configures from an SFTP network host.

Syntax

- `configure sftp {[address {<A.B.C.D> | <ipv6addr>}] [filename <WORD>]} [username <WORD>]`

Default

None

Command mode

Privileged Executive

Command parameters

Parameter	Description
address {<A.B.C.D> <ipv6addr>	Specifies the address of the SFTP server as an IPv4 address or IPv6 address.
filename <WORD>	Specifies the name of the configuration file on the SFTP server.
username <WORD>	Specifies the username.

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configure terminal

Configures from the terminal.

Syntax

- `configure terminal`

Default

None

Command mode

Privileged Executive

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configure usb

Configures from USB.

Syntax

- `configure usb filename <WORD> unit <1-8>`

Default

None

Command mode

Privileged Executive

Command parameters

Parameter	Description
<code>filename <WORD></code>	Specifies the filename of a config file.
<code>unit <1-8></code>	Configure from USB of another unit in a stack

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copy config nvram

Copies to local NV storage.

Syntax

- `copy config nvram block <1-2> name <WORD>`

Default

None

Command mode

Privileged Executive

Command parameters

Parameter	Description
block <1-2>	Specify configuration block number
name <WORD>	Specify configuration block name

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copy config sftp

Copy configuration in a binary file to an SFTP server.

Syntax

- `copy config sftp` {[address {<A.B.C.D> | <ipv6addr>}] [filename <WORD>] [username <WORD>] [password]}

Default

None

Command mode

Privileged Executive

Command parameters

Parameter	Description
address {<A.B.C.D> <ipv6addr>	Specifies the address of the SFTP server as IPv4 address or IPv6 address.
filename <WORD>	Specifies the name of the configuration file on the SFTP server.
password	Specifies the password which is mandatory when password authentication is enabled.
username <WORD>	Specifies the username.

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copy config tftp

Copies to TFTP server.

Syntax

- `copy config tftp [filename <word>] address {A.B.C.D | <WORD>} filename <word>`

Default

None

Command mode

Privileged Executive

Command parameters

Parameter	Description
{A.B.C.D}	TFTP Server IP address
<WORD>	TFTP Server IPv6 address
address {A.B.C.D <WORD>	Specify address of the TFTP server
filename <word>	Specify filename in which to store configuration on TFTP server

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copy config usb

Copies to USB.

Syntax

- `copy config usb filename <word> unit <1-8>`

Default

None

Command mode

Privileged Executive

Command parameters

Parameter	Description
filename <word>	Specify filename in which to store configuration on USB
unit <1-8>	Copies the to USB of another unit in a stack

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copy nvram

Loads the configuration from the specified NV storage configuration block.

Syntax

- `copy nvram config block <1-2>`

Default

None

Command mode

Privileged Executive

Command parameters

Parameter	Description
block <1-2>	Specify configuration block number
config	Load the configuration from the specified NV storage configuration block

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copy running-config sftp

Copies the contents of the current configuration file to another file on the SFTP server.

Syntax

- `copy running-config sftp` {[address {<A.B.C.D> | <ipv6addr>}] [filename <WORD>] [verbose] [module <applicationModules>]} [username <WORD>] [password]

Default

None

Command mode

Privileged Executive

Command parameters

Parameter	Description
address {<A.B.C.D> <ipv6addr>}	Specifies the address of the SFTP server to be used. <A.B.C.D> specifies the IPv4 address. <WORD> specifies the IPv6 address.
filename <WORD>	Specifies the name of the file that is created when the configuration is saved to the TFTP or SFTP server or USB Mass Storage Device.
module <applicationModules>	Displays the configuration of an application for any of the following parameter values: [802.1ab] [aaur] [adac] [arpinspection] [asset-id] [aur] [banner][brouter] [core] [dhcp-relay] [dhcp-snooping] [eap] [energy-saver] [fa] [interface] [ip] [ip-sourceguard] [ipfix][ipmc] [ipmgr] [ipv6] [ipv6-fhs] [I3] [I3-protocols] [lacp] [logging] [mac-security] [mld] [mlt] [pim][nsna] [poe] [port-mirroring] [qos] [rate-limit] [rmon] [rtc] [slpp] [snmp] [ssh] [sshc] [ssl] [stack] [stkmon] [storm-control] [stp] [vlacp] [vlan]
password	If the sshc password authentication is enabled, then password parameter is mandatory.
username <WORD>	Specifies the username.
verbose	Copies the entire configuration for the switch or stack (defaults and non-defaults).

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copy running-config tftp

Copy to a Trivial File Transfer Protocol (TFTP) server.

Syntax

- copy running-config tftp [verbose] [module [802.1ab] [aur] [adac] [arp-inspection] [asset-id] [aur] [banner] [brouter] [cfm] [core] [dhcp-relay] [dhcp-snooping] [eap] [energy-saver] [igmp] [interface] [ip] [ip-source-guard] [ipfix] [ipmgr] [ipv6] [l3] [l3-protocols] [lacp] [link-state] [logging] [mac-security] [mlt] [poe] [port-mirroring] [qos] [rate-limit] [rmon] [rtc] [slamon] [slpp] [snmp] [spbm] [stack] [stkmon] [stp] [vlacp] [vlan]] filename <file-name> address {A.B.C.D | <WORD>}

Default

None

Command mode

Privileged Executive

Command parameters

Parameter	Description
<file-name>	Config file name on TFTP server
802.1ab	Copies the 802.1ab configuration.
aur	Copies the AAUR configuration.
adac	Copies the ADAC configuration.
address {<A.B.C.D> <WORD>}	Specifies the TFTP server IP address. <A.B.C.D> specifies an IPv4 address and <WORD> specifies an IPv6 address.
filename <WORD>	Specifies the filename in which to store configuration on TFTP server.
module 802.1ab	Copies the 802.1ab configuration.
module aur	Copies the AAUR configuration.
module adac	Copies the ADAC configuration.
module arp-inspection	Copies the ARP inspection configuration.
module asset-id	Copies the Asset ID configuration.
module aur	Copies the AUR configuration.
module banner	Copies the custom banner configuration.
module brouter	Copies the brouter configuration.
module cfm	Copies the Connectivity Fault Management (CFM) configuration.
module core	Copies the core configuration.
module dhcp-relay	Copies the DHCP Relay configuration.
module dhcp-snooping	Copies the DHCP Snooping configuration.
module eap	Copies the EAP configuration.
module energy-saver	Copies the Energy Saver configuration.
module fa	Copies the Fabric Attach (FA) configuration.

module igmp	Copies the IGMP configuration.
module interface	Copies the interface configuration.
module ip	Copies the IP configuration.
module ipfix	Copies the IPFIX configuration.
module ipmgr	Copies the IP Manager configuration.
module ip-source-guard	Copies the IP Source Guard configuration.
module ipv6	Copies the IPv6 configuration.
module ipv6-fhs	Copies the IPv6 first hop security (FHS) configuration.
module l3	Copies the Layer 3 configuration.
module l3-protocols	Copies the Layer 3 protocols configuration.
module lacp	Copies the LACP configuration.
module link-state	Copies the Link State tracking configuration.
module logging	Copies the system logging configuration.
module mac-security	Copies the MAC security configuration.
module mld	Copies the Multicast Listener Discovery (MLD) configuration.
module mlt	Copies the MultiLink Trunking (MLT) configuration.
module pim	Copies the Protocol Independent Multicast (PIM) configuration.
module poe	Copies the power over Ethernet (PoE) configuration.
module port-mirroring	Copies the port mirroring configuration.
module qos	Copies the Quality of Service (QoS) configuration.
module rate-limit	Copies the rate limiting configuration.
module rmon	Copies the Remote Network Monitoring (RMON) configuration.
module rtc	Copies the real-time clock (RTC) configuration.
module slamon	Copies the SLAMon configuration.
module slpp	Copies the SLPP configuration.
module snmp	Copies the Simple Network Management Protocol (SNMP) configuration.
module spbm	Copies the Shortest Path Bridging MAC (SPBM) configuration.
module ssh	Copies the Secure Shell (SSH) configuration.
module sshc	Copies the SSHC configuration.
module ssl	Copies the SSL configuration.
module stack	Copies the stack configuration.
module stkmon	Copies the stack monitor configuration.
module storm-control	Copies the storm-control configuration.
module stp	Copies the spanning tree protocol (STP) configuration.
module vlacp	Copies the Virtual Link Aggregation Control Protocol (VLACP) configuration.
module vlan	Copies the VLAN configuration.
verbose	Copies the entire configuration (defaults and non-defaults).

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copy running-config usb

Copies to USB.

Syntax

- copy running-config usb [verbose] [module [802.1ab] [aur] [adac] [arp-inspection] [asset-id] [banner] [brouter] [cfm] [core] [dhcp-relay] [dhcp-snooping] [eap] [energy-saver] [igmp] [interface] [ip] [ip-source-guard] [ipfix] [ipmgr] [ipv6] [l3] [l3-protocols] [lcp] [link-state] [logging] [mac-security] [mlt] [poe] [port-mirroring] [qos] [rate-limit] [rmon] [rtc] [slamon] [slpp] [snmp] [spbm] [stack] [stkmon] [stp] [vlacp] [vlan]] [filename <file-name>] [unit <1-8>]

Default

None

Command mode

Privileged Executive

Command parameters

Parameter	Description
filename <file-name>	Specifies the filename in which to store the configuration on the USB server.
module 802.1ab	Copies the 802.1ab configuration.
module aaur	Copies the AAUR configuration.
module adac	Copies the ADAC configuration.
module arp-inspection	Copies the ARP inspection configuration.
module asset-id	Copies the Asset ID configuration.
module aur	Copies the AUR configuration.
module banner	Copies the custom banner configuration.
module brouter	Copies the brouter configuration.
module cfm	Copies the Connectivity Fault Management (CFM) configuration.
module core	Copies the core configuration.
module dhcp-relay	Copies the DHCP Relay configuration.
module dhcp-snooping	Copies the DHCP Snooping configuration.
module eap	Copies the EAP configuration.
module energy-saver	Copies the Energy Saver configuration.
module fa	Copies the Fabric Attach (FA) configuration.
module igmp	Copies the IGMP configuration.
module interface	Copies the interface configuration.
module ip	Copies the IP configuration.
module ipfix	Copies the IPFIX configuration.
module ipmgr	Copies the IP Manager configuration.
module ipv6	Copies the IPv6 configuration.
module ipv6-fhs	Copies the IPv6 first hop security (FHS) configuration.

module l3	Copies the Layer 3 configuration.
module l3-protocols	Copies the Layer 3 protocols configuration.
module lacp	Copies the LACP configuration.
module link-state	Copies the Link State tracking configuration.
module logging	Copies the system logging configuration.
module mac-security	Copies the MAC security configuration.
module mld	Copies the Multicast Listener Discovery (MLD) configuration.
module mlt	Copies the MultiLink Trunking (MLT) configuration.
module pim	Copies the Protocol Independent Multicast (PIM) configuration.
module poe	Copies the power over Ethernet (PoE) configuration.
module port-mirroring	Copies the port mirroring configuration.
module qos	Copies the Quality of Service (QoS) configuration.
module rate-limit	Copies the rate limiting configuration.
module rmon	Copies the Remote Network Monitoring (RMON) configuration.
module rtc	Copies the real-time clock (RTC) configuration.
module slamon	Copies the SLAMon configuration.
module slpp	Copies the SLPP configuration.
module snmp	Copies the Simple Network Management Protocol (SNMP) configuration.
module spbm	Copies the Shortest Path Bridging MAC (SPBM) configuration.
module ssh	Copies the Secure Shell (SSH) configuration.
module sshc	Copies the SSHC configuration.
module ssl	Copies the SSL configuration.
module stack	Copies the stack configuration.
module stkmon	Copies the stack monitor configuration.
module storm-control	Copies the storm-control configuration.
module stp	Copies the spanning tree protocol (STP) configuration.
module vlacp	Copies the Virtual Link Aggregation Control Protocol (VLACP) configuration.
module vlan	Copies the VLAN configuration.
verbose	Copies the entire configuration (defaults and non-defaults)

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copy sftp

Copies configuration from SFTP server.

Syntax

- `copy sftp`

Default

None

Command mode

Privileged Executive

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copy sftp config

Copies the configuration from a binary file from a SFTP server.

Syntax

- `copy sftp config` {[address {<A.B.C.D> | <ipv6addr>}] [unit {all|<1-8>}][filename <WORD>] [username <WORD>] [password]}

Default

None

Command mode

Privileged Executive

Command parameters

Parameter	Description
address {<A.B.C.D> <ipv6addr>}	Specifies the address of the SFTP server as IPv4 address or IPv6 address.
filename <WORD>	Specifies the name of the file to be retrieved.
password	Specifies the password.
unit {all <1-8>}	Selects units from which to copy the configuration. You can specify all units or a unit number from 1 to 8.
username <WORD>	Specifies the username.

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copy sftp license

Copy the license from SFTP server.

Syntax

- `copy sftp license {[address {<A.B.C.D> | <ipv6addr>}] [filename <WORD>] [username <WORD>]}`

Default

None

Command mode

Privileged Executive

Command parameters

Parameter	Description
address {<A.B.C.D> <WORD>}	Specifies the address of the SFTP server as an IPv4 address or an IPv6 address. A.B.C.D specifies an IPv4 address and <WORD> specifies an IPv6 address.
filename <WORD>	Specifies the name of the file to be retrieved.
username <WORD>	Specifies the username.

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copy tftp config

Copies to local configuration.

Syntax

- `copy tftp config [filename <word>] [address {A.B.C.D | <WORD>} [filename <word>]] unit {<1-8> | all}`

Default

None

Command mode

Privileged Executive

Command parameters

Parameter	Description
{A.B.C.D}	TFTP server IP address
<WORD>	TFTP server IPv6 address
address	Specify address of the TFTP server
filename	Specify filename on TFTP server from which to Copies the configuration
unit {<1-8> all}	Select units from which config should be copied

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copy tftp license

Copies license from TFTP server.

Syntax

- `copy tftp license {address {A.B.C.D | <WORD>} filename <file-name> | filename <file-name> address {A.B.C.D | <WORD>}}`

Default

None

Command mode

Privileged Executive

Command parameters

Parameter	Description
<file-name>	License file name on TFTP server
<WORD>	TFTP server IPv6 address
A.B.C.D	TFTP server IP address
address	Specify address of the TFTP server
filename	Specify filename on TFTP server from which to license file

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copy usb

Copies from USB memory stick.

Syntax

- `copy usb {config | license} filename <WORD> unit <1-8>`

Default

None

Command mode

Privileged Executive

Command parameters

Parameter	Description
<WORD>	Config file name on USB
config	Copies the configuration from usb
filename	Specify filename from which to Copies the configuration from USB
license	Copies the license file from USB
unit <1-8>	Unit number

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csnp-interval

Creates/modifies/deletes ASCII configuration script table entries.

Syntax

- `csnp-interval <1-600>`
- `no csnp-interval`
- `default csnp-interval`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<1-600>	Specifies the CSNP interval in seconds. This is a system level parameter that applies for level 1 CSNP generation on all interfaces. A longer interval reduces overhead, while a shorter interval speeds up convergence. The default value is 10. Use the no or default options to set this parameter to the default value of 10.

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default-cost

Configures the OSPF default cost metric.

Syntax

- `default-cost {ethernet | fast-ethernet | gig-ethernet | ten-gig-ethernet} <metric_value>`
- `no default-cost {ethernet | fast-ethernet | gig-ethernet | ten-gig-ethernet} <metric_value>`
- `default default-cost {ethernet | fast-ethernet | gig-ethernet | ten-gig-ethernet} <metric_value>`

Default

None

Command mode

OSPF Router Configuration

Command parameters

Parameter	Description
<metric_value>	Specifies the default cost metric to assign to the specified port type. The metric value is an integer between 1 and 65535.
default	Sets the OSPF default cost metric to factory default values. The default values are as follows: ethernet (10 Mb/s): 100; fast-ethernet (100 Mb/s): 10; gig-ethernet (1000 Mb/s): 1; ten-gig-ethernet (10000 Mb/s): 1.
ethernet	Set default cost for ethernet interfaces
fast-ethernet	Set default cost for fast-ethernet interfaces
gig-ethernet	Set default cost for gigabit-ethernet interfaces
ten-gig-ethernet	Set default cost for ten-gigabit-ethernet interfaces

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default-metric

Configures the default RIP metric value.

Syntax

- default-metric <metric_value>
- default default-metric

Default

None

Command mode

RIP Router Configuration

Command parameters

Parameter	Description
<metric_value>	Specifies a metric value between 0 and 15

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device-role (DHCP Guard Configuration)

Enables verification of the role of the device attached to the port.

Syntax

- `device-role {client|server}`
- `default device-role`

Default

The default is `router`.

Command mode

DHCP Guard Configuration

Command parameters

Parameter	Description
<code>client</code>	Specifies client.
<code>server</code>	Specifies server.

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device-role (RA Guard Configuration)

Enables verification of the role of the device attached to the port.

Syntax

- `device-role {router|host}`
- `default device-role`

Default

The default is `router`.

Command mode

RA Guard Configuration

Command parameters

Parameter	Description
<code>host</code>	Configures a device as host.
<code>router</code>	Configures a device as router.

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disable

Turns off privileged commands.

Syntax

- disable

Default

None

Command mode

Privileged Executive

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download

Downloads and run new image.

Syntax

- download poe_module_image <image-name> | {[address {A.B.C.D | <WORD>}] [diag <image-name>] [image <image-name>] [image-if-newer <image-name>] no-reset} | usb {[diag <image-name>] [image <image-name>] [image-if-newer <image-name>]} [unit <1-8>] no-reset | usb poe_module_image <image-name> [unit <1-8>]
- download sftp [address {A.B.C.D | <WORD>}] [diag <image-name> | image <image-name>] [no-reset] [username <WORD>] [password]

Default

None

Command mode

Privileged Executive

Command parameters

Parameter	Description
{A.B.C.D}	TFTP Server IP address
<WORD>	TFTP server IPv6 address
address {A.B.C.D <WORD>	Specify IP address of TFTP server
diag <image-name>	Diagnostics image file name
image <image-name>	Software image
image-if-newer <image-name>	Software image if version newer
no-reset	Do not reset the switch after downloading
password	Specify the password
poe_module_image <image-name>	PoE image file name
unit <1-8>	Diagnostics image download from USB of another unit in a stack
usb	Download image from USB
username <WORD>	Specify the username

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duplex

Configures duplex mode of a port.

Syntax

- `duplex [port <LINE>] {full | half | auto}`
- `default duplex [port <LINE>]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
auto	Set duplex to autonegotiation
full	Set duplex to full-duplex mode
half	Set duplex to half-duplex mode
port	Select port for operation

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eapol allow-port-mirroring

Enables port mirroring on eap ports.

Syntax

- eapol allow-port-mirroring
- no eapol allow-port-mirroring
- default eapol allow-port-mirroring

Default

None

Command mode

Global Configuration

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eapol (Ethernet Interface Configuration)

Modifies EAPOL-based security parameters.

Syntax

- eapol [port <portlist>] [init] [status {authorized|unauthorized| auto}] [traffic-control {in-out|in}] [re-authentication {enable| disable}] [re-authentication-period <1-604800>] [re-authenticate] [quiet-interval <0-65535>] [supplicant-timeout <1-65535>] [server-timeout <1-65535>] [max-request <1-10>]

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
init	Reinitiates EAP authentication
max-request <1-10>	Enter the number of times to retry sending packets to supplicant
port <LINE>	Specifies the ports to configure for EAPOL
quiet-interval <0-65535>	Enter the desired number of seconds between an authentication failure and the start of a new authentication attempt.
re-authenticate	Specifies an immediate reauthentication. NonEAP clients are not reauthenticated even if reauthentication is enabled on the port.
reauthentication enable disable	Enables or disables reauthentication for EAPOL clients
reauthentication-period <1-604800>	Enter the desired number of seconds between reauthentication attempts
server-timeout <1-65535>	Specifies a waiting period for response from the server. Enter the number of seconds to wait; range is 1 to 65535.
status {authorized unauthorized auto}	Specifies the EAP status of the port (authorized — port is always authorized; unauthorized — port is always unauthorized; auto — port authorization status depends on the result of the EAP authentication).
supplicant-timeout <1-65535>	Specifies a waiting period for response from supplicant for all EAP packets except EAP Request/Identity packets. Enter the number of seconds to wait.
traffic-control {in-out in}	Sets the level of traffic control (in-out — if EAP authentication fails, both ingressing and egressing traffic are blocked; in — if EAP authentication fails, only ingressing traffic is blocked).

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eapol (Global Configuration)

Enables/Disables EAPOL protocol.

Syntax

- eapol {disable | enable}
- no eapol
- default eapol

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
{disable enable}	Disable/enable EAPOL protocol

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eapol guest-vlan (Ethernet Interface Configuration)

Sets guest-vlan.

Syntax

- eapol guest-vlan [port <LINE>] {enable|vid {<1-4094>|global}}
- no eapol [port<LINE>] enable
- default eapol guest-vlan [port <LINE>] [enable] [vid]

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
enable	Enable guest-vlan
port <LINE>	Port number on which to enable EAPOL
vid {<1-4094> global}	Guest-vlan ID

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eapol guest-vlan (Global Configuration)

Sets guest-vlan.

Syntax

- eapol guest-vlan [enable] vid <1-4094>
- no eapol guest-vlan enable
- default eapol guest-vlan [enable] vid <1-4094>

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
enable	Enable guest-vlan
vid <1-4094>	guest-vlan ID

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eapol multihost dummy-adac-radius-requests

Sets dummy radius request status.

Syntax

- `eapol multihost dummy-adac-radius-requests enable`
- `no eapol multihost dummy-adac-radius-requests enable`
- `default eapol multihost dummy-adac-radius-requests enable`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<code>enable</code>	Enable dummy request for ADAC non-eap clients

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eapol multihost (Ethernet Interface Configuration)

Sets EAPOL multihost settings.

Syntax

- eapol multihost [port <LINE>] {[adac-non-eap-enable] [allow-non-eap-enable] [auto-non-eap-mhsa-enable] [block-different-radius-assigned-vlan] [eap-mac-max <1-32>] [eap-packet-mode {multicast | unicast}] [eap-protocol-enable] [enable] [mac-max <1-64>][non-eap-mac-max <1-32>] [non-eap-phone-enable] [non-eap-use-radius-assigned-vlan][radius-non-eap-enable][use-most-recent-radius-vlan] [use-radius-assigned-vlan]}
- no eapol multihost [port <LINE>][enable][allow-non-eap-enable] [radius-non-eap-enable] [auto-non-eap-mhsa-enable] [non-eap-phone-enable] [use-radius-assigned-vlan] [non-eap-use-radius-assigned-vlan] [use-most-recent-radius-vlan]
- default eapol multihost [port <LINE>] [enable] [mac-max] [eap-mac-max] [non-eap-mac-max] [allow-non-eap-enable] [radius-non-eap-enable] [auto-non-eap-mhsa-enable] [non-eap-phone-enable][use-radius assigned-vlan] [eap-packet-mode] [use-most-recent-radius-vlan] [non-eap-use-radius-assigned-vlan]

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
adac-non-eap-enable	Allow authentication of Non-EAP Phones using ADAC
allow-non-eap-enable	Control of non-EAP clients (MAC addresses)
auto-non-eap-mhsa-enable	Allow auto-auth of non-EAP clients
block-different-radius-assigned-vlan	Block clients with different RADIUS Assigned VLAN
eap-mac-max <1-32>	Maximum number of EAP-authentication MAC addresses allowed
eap-packet-mode {multicast unicast}	Send initial EAP requests multicast or unicast
eap-protocol-enable	Enable EAP protocol on port
enable	Enables multihost support for EAPOL
mac-max <1-64>	Maximum clients per port
non-eap-mac-max <1-32>	Maximum number of non-EAP-authentication MAC addresses allowed
non-eap-phone-enable	Allow non-eap phone clients
non-eap-use-radius-assigned-vlan	Allow the use of VLAN IDs assigned by RADIUS for non-EAP clients
port <LINE>	Port number on which to apply EAPOL settings
radius-non-eap-enable	Enable RADIUS authentication of non-eap clients
use-most-recent-radius-vlan	Allow the use of most recent RADIUS vlan

use-radius-assigned-vlan

Allow the use of VLAN IDs assigned by RADIUS

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eapol multihost fail-open-vlan

Sets fail-open-vlan.

Syntax

- eapol multihost fail-open-vlan [enable] [vid <1-4094>] continuity-mode enable
- no eapol multihost fail-open-vlan [enable] continuity-mode enable
- default eapol multihost fail-open-vlan [enable] [vid <1-4094>] continuity-mode enable

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
continuity-mode enable	Enable fail-open-vlan continuity-mode
vid <1-4094>	Enable fail-open-vlan fail-open-vlan ID

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eapol multihost (Global Configuration)

Sets EAPOL multihost settings of port.

Syntax

- `eapol multihost [allow-non-eap-enable] [radius-non-eap-enable] [auto-non-eap-mhsa-enable] [non-eap-phone-enable] [use-radius-assigned-vlan] [use-most-recent-radius-vlan] [non-eap-use-radius-assigned-vlan] [eap-packet-mode { multicast | unicast }] [eap-protocol-enable] [non-eap-reauthentication-enable] [block-different-radius-assigned-vlan] [adac-non-eap-enable]`
- `no eapol multihost [allow-non-eap-enable] [radius-non-eap-enable] [auto-non-eap-mhsa-enable] [non-eap-phone-enable] [use-radius-assigned-vlan] [use-most-recent-radius-vlan] [non-eap-use-radius-assigned-vlan] [eap-protocol-enable] [non-eap-reauthentication-enable] [block-different-radius-assigned-vlan] [adac-non-eap-enable]`
- `default eapol multihost [allow-non-eap-enable] [radius-non-eap-enable] [auto-non-eap-mhsa-enable] [non-eap-phone-enable] [use-radius-assigned-vlan] [use-most-recent-radius-vlan] [non-eap-use-radius-assigned-vlan] [eap-packet-mode] [eap-protocol-enable] [non-eap-reauthentication-enable] [block-different-radius-assigned-vlan] [adac-non-eap-enable]`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<code>adac-non-eap-enable</code>	Allow authentication of Non-EAP Phones using ADAC
<code>allow-non-eap-enable</code>	Control of non-EAP clients (MAC addresses)
<code>auto-non-eap-mhsa-enable</code>	Allow auto-auth of non-EAP clients
<code>block-different-radius-assigned-vlan</code>	Block clients with different RADIUS Assigned VLAN
<code>eap-packet-mode</code>	Select type of packet used for initial eap request for ids
<code>eap-protocol-enable</code>	Enable EAP protocol on port
<code>non-eap-phone-enable</code>	Allow non-eap phone clients
<code>non-eap-reauthentication-enable</code>	Enable re-authentication for non-EAP clients
<code>non-eap-use-radius-assigned-vlan</code>	Allow the use of VLAN IDs assigned by RADIUS for non-EAP clients
<code>radius-non-eap-enable</code>	Enable RADIUS authentication of non-eap clients
<code>use-most-recent-radius-vlan</code>	Allow the use of most recent RADIUS vlan
<code>use-radius-assigned-vlan</code>	Allow the use of VLAN IDs assigned by RADIUS

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eapol multihost multivlan

Sets EAPOL multihost multiVlan.

Syntax

- eapol multihost multivlan enable
- no eapol multihost multivlan enable
- default eapol multihost multivlan enable

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
enable	Enable multiVLAN functionality with MHMA mode

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eapol multihost non-eap-mac

Sets the maximum number of non-EAP-authentication MAC addresses allowed.

Syntax

- eapol multihost non-eap-mac [port <portlist>] <H.H.H>
- no eapol multihost non-eap-mac [port <portlist>] <H.H.H>
- default eapol multihost non-eap-mac [port <portlist>] <H.H.H>

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<H.H.H>	The MAC address of the allowed non EAPOL host
port <portlist>	The list of ports on which you want to allow the specified non EAPOL hosts

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eapol multihost non-eap-pwd-fmt

Sets bits in RADIUS non-EAPOL password format.

Syntax

- eapol multihost non-eap-pwd-fmt { [padding | no-padding] [ip-addr] [mac-addr] [port-number] key | key-string <LINE> }
- no eapol multihost non-eap-pwd-fmt { [padding] [ip-addr] [mac-addr] [port-number] key | key-string }
- default eapol multihost non-eap-pwd-fmt { [padding] [ip-addr] [mac-addr] [port-number] key | key-string }

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<LINE>	Non-EAP Password key
ip-addr	Set IP Address bit
key	Use the key for Non-EAP Password
key-string	Enter Non-EAP Password Key
mac-addr	Set MAC Address bit
no-padding	Use dots only to separate fields in password
padding	Use dots for every missing parameters
port-number	Set Port Number bit

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eapol multihost non-eap-user-based-policies

Enables non-EAPOL user-based policies.

Syntax

- `eapol multihost non-eap-user-based-policies [enable] filter-on-mac enable`
- `no eapol multihost non-eap-user-based-policies [enable] filter-on-mac enable`
- `default eapol multihost non-eap-user-based-policies [enable] filter-on-mac enable`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<code>enable</code>	Enable non-EAPOL user-based policies
<code>filter-on-mac enable</code>	Enable UBP filtering based on non-EAPOL MAC address

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eapol multihost voip-vlan

Sets voip-vlan.

Syntax

- `eapol multihost voip-vlan <1-5> [enable] vid <1-4094>`
- `no eapol multihost voip-vlan <1-5> enable`
- `default eapol multihost voip-vlan <1-5> [enable] vid`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<1-5>	Number of voip vlan
enable	Enable voip-vlan
vid <1-4094>	voip-vlan ID

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eapol radius-dynamic-server enable

Enables 802.1X dynamic authorization extension (RFC 3576) on an EAP port.

Syntax

- eapol [port <LINE>] radius-dynamic-server enable
- no eapol port <LINE> radius-dynamic-server enable
- default eapol [port <LINE>] radius-dynamic-server

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<LINE>	Indicates an individual port or list of ports

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edm help-file-path

Sets the EDM help file path.

Syntax

- `edm help-file-path <WORD> {tftp <address> {<A.B.C.D> | <IPv6-Address>} | usb unit <1-8>}`
- `no edm help-file-path`
- `default edm help-file-path`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<A.B.C.D>	IPv4 address of the TFTP server
<IPv6-address>	IPv6 address
<WORD>	EDM help file path
address	TFTP server address
tftp	Tftp-server
unit	Unit
usb	Usb device

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edm inactivity-timeout

Sets the EDM inactivity timeout.

Syntax

- `edm inactivity-timeout <30 - 65535>`
- `no edm inactivity-timeout`
- `default edm inactivity-timeout`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<code><30 - 65535></code>	seconds

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enable (Privileged Executive)

Turns on privileged commands.

Syntax

- enable

Default

None

Command mode

Privileged Executive

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enable (User Executive)

Turns on privileged commands.

Syntax

- enable

Default

None

Command mode

User Executive

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end (Application Configuration)

Exits from configure mode.

Syntax

- end

Default

None

Command mode

Application Configuration

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end (DHCP Guard Configuration)

Exits from configure mode.

Syntax

- end

Default

None

Command mode

Ethernet Interface Configuration

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end (Ethernet Interface Configuration)

Exits from configure mode.

Syntax

- end

Default

None

Command mode

Ethernet Interface Configuration

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end (Global configuration)

Exits from configure mode.

Syntax

- end

Default

None

Command mode

Global Configuration

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end (ISIS Router Configuration)

Exits from router configure mode.

Syntax

- end

Default

None

Command mode

ISIS Router Configuration

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end (Loopback Interface Configuration)

Exits from Loopback Configuration mode.

Syntax

- end

Default

None

Command mode

Loopback Interface Configuration

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end (OSPF Router Configuration)

Exits from router configure mode.

Syntax

- end

Default

None

Command mode

OSPF Router Configuration

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end (RA Guard Configuration)

Exits from RA Guard configure mode.

Syntax

- end

Default

None

Command mode

RIP Router Configuration

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end (RIP Router Configuration)

Exits from router configure mode.

Syntax

- end

Default

None

Command mode

RIP Router Configuration

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end (VLAN Interface Configuration)

Exits from interface configure mode.

Syntax

- end

Default

None

Command mode

VLAN Interface Configuration

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end (VRRP Router Configuration)

Exits from router configuration mode.

Syntax

- end

Default

None

Command mode

VRRP Router Configuration

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energy-saver (Ethernet Interface Configuration)

Configures per-port energy saver settings.

Syntax

- `energy-saver [enable] [port <portlist> enable]`
- `no energy-saver [enable] [port <portlist> enable]`
- `default energy-saver [enable] [port <portlist> enable]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<code>enable</code>	Enable energy saving
<code>port <LINE></code>	Specify list of ports

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energy-saver (Global configuration)

Configures global energy saver settings.

Syntax

- energy-saver [enable] [poe-power-saving] [efficiency-mode]

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
efficiency-mode	Enable Efficiency mode
enable	Enable energy saver
poe-power-saving	Enable POE power saving

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energy-saver (Privileged Executive)

Manually activates or deactivate energy saver.

Syntax

- energy-saver {activate | deactivate}

Default

None

Command mode

Privileged Executive

Command parameters

Parameter	Description
activate	Manually activate energy saver
deactivate	Manually deactivate energy saver

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energy-saver schedule

Configures energy saver activation/deactivation schedule.

Syntax

- `energy-saver schedule { {sunday | monday | tuesday | wednesday | thursday | friday | saturday | weekday | weekend} <hh:mm> {activate | deactivate} }`
- `no energy-saver schedule { {sunday | monday | tuesday | wednesday | thursday | friday | saturday | weekday | weekend} <hh:mm>`
- `default energy-saver schedule { {sunday | monday | tuesday | wednesday | thursday | friday | saturday | weekday | weekend} <hh:mm>`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<hh:mm>	Set the hour and minutes
activate	Activate event
deactivate	Deactivate event
friday	Configure schedule entry for Friday
monday	Configure schedule entry for Monday
saturday	Configure schedule entry for Saturday
sunday	Configure schedule entry for Sunday
thursday	Configure schedule entry for Thursday
tuesday	Configure schedule entry for Tuesday
wednesday	Configure schedule entry for Wednesday
weekday	Configure schedule entries for weekdays
weekend	Configure schedule entries for weekends

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exit (Application Configuration)

Exits from application configuration mode.

Syntax

- exit

Default

None

Command mode

Application Configuration

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exit (DHCP Guard Configuration)

Exits from the DHCP Guard configuration mode.

Syntax

- exit

Default

None

Command mode

Application Configuration

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exit (Ethernet Interface Configuration)

Exits from interface configuration mode.

Syntax

- exit

Default

None

Command mode

Ethernet Interface Configuration

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exit (Global configuration)

Exits from configure mode.

Syntax

- exit

Default

None

Command mode

Global Configuration

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exit (ISIS Router Configuration)

Exits from router configuration mode.

Syntax

- exit

Default

None

Command mode

ISIS Router Configuration

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exit (Loopback Interface Configuration)

Exits from Loopback Interface Configuration mode.

Syntax

- exit

Default

None

Command mode

Loopback Interface Configuration

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exit (OSPF Router Configuration)

Exits from router configuration mode.

Syntax

- exit

Default

None

Command mode

OSPF Router Configuration

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exit (Privileged Executive)

Exits from the EXEC.

Syntax

- exit

Default

None

Command mode

Privileged Executive

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exit (RA Guard Configuration)

Exits from RA Guard configuration mode.

Syntax

- exit

Default

None

Command mode

RIP Router Configuration

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exit (RIP Router Configuration)

Exits from router configuration mode.

Syntax

- exit

Default

None

Command mode

RIP Router Configuration

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exit (User Executive)

Exits from the EXEC.

Syntax

- exit

Default

None

Command mode

User Executive

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exit (VLAN Interface Configuration)

Exits from interface configuration mode.

Syntax

- exit

Default

None

Command mode

VLAN Interface Configuration

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exit (VRRP Router Configuration)

Exits from router configuration mode.

Syntax

- exit

Default

None

Command mode

VRRP Router Configuration

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fa

Configures Fabric Attach.

Syntax

- `fa [authentication-key][auto-attach][message-authentication][proxy][port-enable [<LINE>]]`
- `default fa [authentication-key][auto-attach][message-authentication][proxy][port-enable]`
- `no fa [auto-attach][message-authentication][proxy][port-enable [<LINE>]]`

Default

Enabled

Command mode

Global Configuration

Command parameters

Parameter	Description
<code>authentication-key</code>	Configure Fabric Attach authentication key
<code>auto-attach</code>	Enables Fabric Attach auto attach. The default is enabled.
<code>message-authentication</code>	Enable Fabric Attach message authentication. The default is enabled.
<code>proxy</code>	Enables Fabric Attach external client proxy. The default is enabled.
<code>port-enable</code>	Enables the Fabric Attach operation for each port. The default is enabled.

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flowcontrol

Configures flow control mode of a port.

Syntax

- `flowcontrol [port <LINE>] {asymmetric | symmetric | auto | disable}`
- `no flowcontrol [port <portlist>]`
- `default flowcontrol [port <portlist>]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<code>asymmetric</code>	Set the mode for flow control. PAUSE frames can flow only in one direction.
<code>auto</code>	Set the port to automatically determine the flow control mode (default).
<code>disable</code>	Disable flow control on the port
<code>port <LINE></code>	Specify the port numbers to configure for flow control
<code>symmetric</code>	Set the mode for flow control. PAUSE frames can flow in either direction.

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help (Privileged Executive)

Description of the interactive help system.

Syntax

- `help {commands mode {application | config | current | exec | ifconfig | interface {Ethernet | vlan} | privExec | router {ospf | rip | vrrp}} | modes`

Default

None

Command mode

Privileged Executive

Command parameters

Parameter	Description
<code>application</code>	Displays commands available in Application Configuration mode
<code>commands</code>	Displays commands available
<code>config</code>	Displays commands available in Global Configuration mode
<code>current</code>	Displays commands available in current configuration mode
<code>exec</code>	Displays commands available in executive mode
<code>ifconfig</code>	Displays commands available in Interface Configuration mode
<code>interface</code>	Displays commands available in Interface Configuration modes
<code>mode</code>	Displays commands available on specific mode
<code>modes</code>	Displays available modes
<code>privExec</code>	Displays commands available in Privileged Executive mode
<code>router</code>	Displays commands available in Router Configuration modes

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help (User Executive)

Description of the interactive help system.

Syntax

- help {commands mode {application | config | current | exec | ifconfig | interface {Ethernet | vlan} | privExec | router {ospf | rip | vrrp}} | modes

Default

None

Command mode

User Executive

Command parameters

Parameter	Description
application	Displays commands available in Application Configuration mode
commands	Displays commands available
config	Displays commands available in Global Configuration mode
current	Displays commands available in current configuration mode
exec	Displays commands available in executive mode
ifconfig	Displays commands available in Interface Configuration mode
interface	Displays commands available in Interface Configuration modes
mode	Displays commands available on specific mode
modes	Displays available modes
ospf	Displays commands available in OSPF Router Configuration mode
privExec	Displays commands available in Privileged Executive mode
rip	Displays commands available in RIP Router Configuration mode
router	Displays commands available in Router Configuration modes
vrrp	Displays commands available in VRRP Router Configuration mode

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hop-limit

Enables verification of the advertised hop count limit. By default the minimum and maximum limit will be 0. If the limit is 0, the hop-limit check is bypassed. If maximum and minimum value are 0, then hop-limit check is ignored.

Syntax

- `hop-limit {[maximum <0-255>]}|[minimum <0-255>]}`
- `default hop-limit [maximum][minimum]`

Default

The default is 0.

Command mode

RA Guard Configuration

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host-route

Adds a host to a router.

Syntax

- `host-route {A.B.C.D} metric <0-65535>`
- `no host-route {A.B.C.D} metric <0-65535>`
- `default host-route {A.B.C.D} metric <0-65535>`

Default

None

Command mode

OSPF Router Configuration

Command parameters

Parameter	Description
{A.B.C.D}	Specifies the host IP address
metric <0-65535>	Specifies an integer between 0 and 65535 representing the configured cost of the host route.

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http-port

Sets the TCP port on which web server will listen.

Syntax

- `http-port <1024-65535>`
- `default http-port`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<code><1024-65535></code>	http port number

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igmp last-member-query-interval

Sets the maximum response time (in tenths of a second) that is inserted into group-specific queries that are sent in response to leave group messages.

Syntax

- `ip igmp last-member-query-interval <0-255>`
- `default ip igmp last-member-query-interval <0-255>`

Default

10

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
<0-255>	Specifies the last member query interval value in 1/10 of a second. Values range from 0 to 255. Avaya recommends that you configure this parameter to values higher than 3. If a fast leave process is not required, Avaya recommends values above 10.
default	Sets the last member query interval to the default value of 10.

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igmp query-interval

Sets the frequency (in seconds) at which host query packets are transmitted on the VLAN.

Syntax

- `ip igmp query-interval <1-65535>`
- `default ip igmp query-interval <1-65535>`

Default

125

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
<1-65535>	Specifies the query interval value. Values range from 1 to 65535 seconds.
default	Sets the query interval to the default value of 125 seconds

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igmp query-max-response

Sets the maximum response time (in tenths of a second) that is advertised in IGMPv2 general queries on the VLAN.

Syntax

- `ip igmp query-max-response <0-255>`
- `default ip igmp query-max-response <0-255>`

Default

100

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
<code><0-255></code>	Specifies the maximum query response time value in 1/10 of a second. Values range from 0 to 255.
<code>default</code>	Sets the maximum query response time to the default value of 100.

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igmp send-query

Enables or disables IGMP send query on a snoop-enabled VLAN.

Syntax

- `ip igmp send-query`
- `no ip igmp send-query`
- `default ip igmp send-query`

Default

None

Command mode

VLAN Interface Configuration

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install

Quick Install & Setup Script.

Syntax

- `install`

Default

None

Command mode

Privileged Executive

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interface

Selects an interface to configure.

Syntax

- `interface {Ethernet <LINE> | loopback <1-16> | vlan <1-4094>}`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<LINE>	Specifies the port list.
Ethernet	Specifies the Ethernet IEEE 802.3 interface.
loopback <1-16>	Specifies the loopback interface.
vlan <1-4094>	Specifies the Layer 3 IP VLAN interface.

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ip address (Global Configuration)

Sets switch/stack IP address.

Syntax

- ip address { [[stack | switch] {A.B.C.D} [netmask {A.B.C.D}] [default-gateway {A.B.C.D}]] | [source {bootp-always | bootp-last-address | bootp-when-needed | configured-address | dhcp-always | dhcp-last-address | dhcp-when-needed} | [unit <1-8> {A.B.C.D}]] }
- no ip address {stack | switch | unit <1-8>}
- default ip address <source>

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<source>	Restore default BootP/DHCP settings
A.B.C.D	IP address
bootp-always	Always use the bootp server
bootp-last-address	Use the last time bootp server
bootp-when-needed	Use bootp server when needed
configured-address	User-configured IP address
default-gateway {A.B.C.D}	set default-gateway address
dhcp-always	Always use the DHCP server
dhcp-last-address	Use the last time DHCP server
dhcp-when-needed	Use DHCP client when needed
netmask {A.B.C.D}	The subnet mask
source	BootP/DHCP mode
stack	The address of the stack
switch	To set the IP address of local unit
unit <1-8> {A.B.C.D}	To set the IP address of another unit in a stack

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ip address (Loopback Interface Configuration)

Assigns an IP address to a Loopback Interface.

Syntax

- ip address <A.B.C.D> <A.B.C.D> [<1-256>]
- no ip address <A.B.C.D> <A.B.C.D>

Default

None

Command mode

Loopback Interface Configuration

Command parameters

Parameter	Description
<1-256>	Specifies the MAC offset value. Note: 1 is for the management VLAN only.
<A.B.C.D><A.B.C.D>	The first <A.B.C.D> specifies the IP address and the second <A.B.C.D> specifies the subnet mask.

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ip address (VLAN Interface Configuration)

Assigns an IP address to a VLAN.

Syntax

- ip address {A.B.C.D} <subnet_mask> [<1-256>]
- no ip address {A.B.C.D} <subnet_mask> [<1-256>]

Default

None

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
{A.B.C.D}	IP address
<1-256>	MAC offset, 1 for management vlan only
<subnet_mask>	Subnet mask

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ip area (Loopback Interface Configuration)

Assigns a Loopback Interface to an area.

Syntax

- ip area <A.B.C.D>
- no ip area <A.B.C.D>
- default ip area

Default

None

Command mode

Loopback Interface Configuration

Command parameters

Parameter	Description
<A.B.C.D>	Specifies an area IP address.

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ip arp-inspection (Ethernet Interface Configuration)

Specifies whether a particular port or range of ports is trusted (ARP traffic is not subject to dynamic ARP inspection) or untrusted (ARP traffic is subject to dynamic ARP inspection).

Syntax

- ip arp-inspection [port <LINE>] {trusted|untrusted}
- default ip arp-inspection port <LINE>

Default

untrusted

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
port <LINE>	Specify list of ports
trusted	ARP traffic is not subject to dynamic ARP inspection
untrusted	ARP traffic is subject to dynamic ARP inspection

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ip arp-inspection (Global Configuration)

Enables ARP inspection.

Syntax

- ip arp-inspection vlan <1-4094>
- no ip arp-inspection vlan <1-4094>

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
vlan <LINE>	Configure ARP inspection VLAN list.

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ip arp-proxy

Configures proxy ARP status on a VLAN.

Syntax

- `ip arp-proxy enable`
- `no ip arp-proxy enable`
- `default ip arp-proxy enable`

Default

None

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
<code>enable</code>	Enable arp-proxy

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ip blocking-mode

Configures the Layer 3 IP blocking mode.

Syntax

- ip blocking-mode {full | none}
- default ip blocking-mode

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
full	Set the IP blocking mode to full
none	Set the IP blocking mode to none

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ip bootp

Configures BOOTP services.

Syntax

- `ip bootp server {always | default-ip | disable | last}`
- `no ip bootp server`
- `default ip bootp server`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<code>always</code>	Always use the bootp server
<code>default-ip</code>	Use BootP server or the default IP
<code>disable</code>	Never use bootp server
<code>last</code>	Use the last time bootp server

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ip default-gateway

Specifies default gateway (if not routing IP).

Syntax

- ip default-gateway {A.B.C.D}
- no ip default-gateway
- default ip default-gateway

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
{A.B.C.D}	IP address of default gateway

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ip dhcp

Configures DHCP client settings.

Syntax

- `ip dhcp client lease {<10-4294967295> | days <1-49710> | hours <1-1193046> | minutes <1-71582788>|weeks <1-7101>}`
- `no ip dhcp client lease`
- `default ip dhcp client lease`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<code><10-4294967295></code>	Lease time in seconds
<code>client</code>	Configure DHCP client settings
<code>days <1-49710></code>	Lease time in days
<code>hours <1-1193046></code>	Lease time in hours
<code>lease</code>	Configure DHCP lease time
<code>minutes <1-71582788></code>	Lease time in minutes
<code>weeks <1-7101></code>	Lease time in weeks

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ip dhcp-relay (Ethernet Interface Configuration)

Assigns an Option 82 for DHCP Relay subscriber Id to a port.

Syntax

- `ip dhcp-relay [port <LINE>] option82-subscriber-id <WORD>`
- `no ip dhcp-relay option82-subscriber-id`
- `default ip dhcp-relay option82-subscriber-id`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<code>option82-subscriber-id <WORD></code>	Specifies the DHCP Option 82 subscriber Id for the port. Value is a character string between 0 and 64 characters.
<code>port <LINE></code>	Specify list of ports

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ip dhcp-relay (Global Configuration)

Enables DHCP relay.

Syntax

- `ip dhcp-relay {fwd-path <agent-ip> <dhcp-ip> {disable | enable | mode <bootp | bootp-dhcp | dhcp>}} | max-frame <576-1536> | option82}`
- `no ip dhcp-relay {fwd-path <agent-ip> <dhcp-ip> | option82}`
- `default ip dhcp-relay {max-frame | option82}`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<code>bootp</code>	set DHCP server mode to BOOTP only
<code>bootp-dhcp</code>	set DHCP server mode to both BOOTP and DHCP
<code>dhcp</code>	set DHCP server mode to DHCP only
<code>disable</code>	disable this forwarder path
<code>enable</code>	enable this forwarder path
<code>fwd-path <agent-ip> <dhcp-ip></code>	Configure DHCP relay forward path
<code>max-frame <576-1536></code>	Set the maximum length for which option82 is added to DHCP packets for relay
<code>mode</code>	set DHCP mode supported by this forwarder path
<code>option82</code>	Enable option 82 for DHCP Relay

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ip dhcp-relay (VLAN Interface Configuration)

Configures DHCP relay for a vlan.

Syntax

- ip dhcp-relay [broadcast] [min-sec <min-sec>] [mode {bootp | dhcp | bootp_dhcp}] [option82]
- no ip dhcp-relay [broadcast] [min-sec <min-sec>] [mode {bootp | dhcp | bootp_dhcp}] [option82]
- default ip dhcp-relay option82
- ip dhcp-relay clear-counters

Default

None

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
broadcast	Enables the broadcast of DHCP reply packets to the DHCP clients on this VLAN interface
min-sec <minsec>	Indicates the min-sec value. The switch immediately forwards a BootP/DHCP packet if the secs field in the BootP/DHCP packet header is greater than the configured min-sec value; otherwise, the packet is dropped. Range is 0-65535. The default is 0.
mode {bootp dhcp bootp_dhcp}	Specifies the type of DHCP packets this VLAN supports: bootp - Supports BootP only; dhcp - Supports DHCP only; bootp_dhcp - Supports both BootP and DHCP.
option82	Enables Option 82 for DHCP relay on a VLAN

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ip dhcp-snooping binding

Adds static DHCP snooping binding table entry.

Syntax

- ip dhcp-snooping binding <1-4094> <H.H.H> ip {A.B.C.D} port <LINE> expiry <1-4294967295>
- no ip dhcp-snooping binding <1-4094> <H.H.H>

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<1-4094>	Specifies the VLAN ID.
<H.H.H>	Specifies the MAC address to add. The format can include one of the following: H.H.H or XX:XX:XX:XX:XX:XX or XX.XX.XX.XX.XX.XX or XX-XX-XX-XX-XX-XX.
expiry <1-4294967295>	Specifies the entry expiry time.
ip {A.B.C.D}	Specifies the IP address of the device.
port <LINE>	Specifies the port on which the device is connected.

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ip dhcp-snooping (Ethernet Interface Configuration)

Configures DHCP snooping port settings.

Syntax

- ip dhcp-snooping [port <portlist>] <trusted | untrusted> option82-subscriber-id <WORD>
- no ip dhcp-snooping [port <portlist>] <trusted | untrusted> option82-subscriber-id <WORD>
- default ip dhcp-snooping [port <portlist>] <trusted | untrusted> option82-subscriber-id <WORD>

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
option82-subscriber-id WORD	Specifies the DHCP Option 82 subscriber Id for the port. Value is a character string between 0 and 64 characters.
port <portlist>	Specifies a port or group of ports
trusted	When selected, the port or ports automatically forward DHCP replies.
untrusted	When selected, the port or ports filter DHCP replies through DHCP snooping.

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ip dhcp-snooping external-save

Controls the external DHCP snooping binding table saving.

Syntax

- ip dhcp-snooping external-save [enable] {[tftp {[<A.B.C.D> | <WORD>] filename <WORD>}] | [usb {[unit <1-8>] [filename <WORD>]}] }
- no ip dhcp-snooping external-save enable

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
enable	Enables DHCP snooping binding table external saving.
filename <WORD>	DHCP snooping binding table external file name
tftp	Save the DHCP snooping binding table on a TFTP server
unit <1-8>	USB unit number on which to save the DHCP snooping binding table
usb	Save the DHCP snooping binding table on USB
WORD	IPv6 address of TFTP server

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ip dhcp-snooping (Global Configuration)

Configures DHCP snooping settings.

Syntax

- `ip dhcp-snooping {enable | option82 | vlan <LINE> option82}`
- `no ip dhcp-snooping {option82 | vlan <LINE> option82}`
- `default ip dhcp-snooping {external-save | option82 | vlan <LINE> option82}`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<code>enable</code>	Enable DHCP Snooping
<code>external-save</code>	Disable DHCP snooping binding table external saving
<code>option82</code>	Enable option 82 for DHCP snooping
<code>vlan <LINE></code>	Configure DHCP snooping VLANs

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ip dhcp-snooping (Privileged Executive)

Configures DHCP snooping settings.

Syntax

- `ip dhcp-snooping external-save restore`

Default

None

Command mode

Privileged Executive

Command parameters

Parameter	Description
<code>external-save</code>	Control the external DHCP snooping binding table saving
<code>restore</code>	Restore previously saved DHCP snooping binding table

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ip directed-broadcast

Enabled directed broadcast forwarding.

Syntax

- ip directed-broadcast enable
- no ip directed-broadcast enable
- default ip directed-broadcast enable

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
enable	Enable IP directed broadcast

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ip domain-name

Configures DNS domain name.

Syntax

- ip domain-name <LINE>
- no ip domain-name
- default ip domain-name

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<LINE>	DNS domain name

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ip forward-protocol

Configures broadcast forwarding.

Syntax

- ip forward-protocol udp {<1-65535> <WORD> | portfwddlist <1-128> <1-65535> <A.B.C.D> <name>}
- no ip forward-protocol udp {<1-65535> | portfwddlist <1-128> <1-65535> <A.B.C.D>}

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<1-128>	Enter ID of list of ports to forward
<1-65535>	Enter UDP port to forward
<A.B.C.D>	Enter IP Destination for the UDP port
<WORD>	Protocol name
name	Enter name of the list
portfwddlist	Set a port forwarding list
udp	Configure UDP broadcast forwarding

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ip forward-protocol udp (VLAN Interface Configuration)

Associates a UDP forwarding list with a VLAN interface.

Syntax

- `ip forward-protocol udp [vlan <vid>] [portfwddlist <forward_list>] [broadcastmask <bcast_mask>] [maxttl <max_ttl>]`
- `no ip forward-protocol udp [vlan <vid>] [portfwddlist <forward_list>] [broadcastmask <bcast_mask>] [maxttl <max_ttl>]`
- `default ip forward-protocol udp [vlan <vid>] [broadcastmask] [maxttl]`

Default

None

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
<bcast_mask>	Specifies the 32-bit mask used by the selected VLAN interface to make forwarding decisions based on the destination IP address of the incoming UDP broadcast traffic. If you do not specify a broadcast mask value, the switch uses the mask of the interface to which the forwarding list is attached.
<forward_list>	Specifies the ID of the UDP forwarding list to attach to the selected VLAN interface.
<max_ttl>	Specifies the timet-to-live (TTL) value inserted in the IP headers of the forwarded UDP packets coming out of the selected VLAN interface. If you do not specify a TTL value, the default value (4) is used.
<vid>	Specifies the VLAN ID on which to attach the UDP forwarding list. This parameter is optional, and if not specified, the UDP forwarding list is applied to the interface specified in the interface vlan command.

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ip igmp filter

Adds IGMP filter profile to interface.

Syntax

- ip igmp filter <1-65535>
- no ip igmp filter

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<1-65535>	Add IGMP filter profile to interface

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ip igmp (Global Configuration)

Configures global IGMP settings.

Syntax

- `ip igmp { [flush {Ethernet <LINE> | vlan <1-4094> {grp-member | mrouter}}] | [profile <1-65535>] }`
- `no ip igmp [profile <1-65535>]`
- `default ip igmp profile <1-65535>`

Default

None

Command mode

Global Configuration

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ip igmp mrouter

Adds one or more static mrouter ports to a VLAN.

Syntax

- ip igmp mrouter <port_list>
- no ip igmp mrouter [<port_list>]
- default ip igmp mrouter

Default

None

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
<port_list>	Specifies the port or ports to add to the VLAN as static mrouter ports

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ip igmp proxy

Enables or disables IGMP proxy on a VLAN.

Syntax

- `ip igmp proxy`
- `no ip igmp proxy`
- `default ip igmp proxy`

Default

None

Command mode

VLAN Interface Configuration

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ip igmp robust-value

Sets the robustness value for a VLAN. With IGMP snooping robustness, the switch can offset expected packet loss on a subnet.

Syntax

- ip igmp robust-value <2-255>
- default ip igmp robust-value <2-255>

Default

2

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
<2-255>	Specifies a numerical value for IGMP snooping robustness. Values range from 2 to 255.

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ip igmp router-alert

Enables the router alert feature. This feature instructs the router to drop control packets that do not have the router-alert flag in the IP header.

Syntax

- ip igmp router-alert
- no ip igmp router-alert
- default ip igmp router-alert

Default

None

Command mode

VLAN Interface Configuration

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ip igmp snooping

Enables or disables IGMP snooping for a VLAN.

Syntax

- `ip igmp snooping`
- `no ip igmp snooping`
- `default ip igmp snooping`

Default

None

Command mode

VLAN Interface Configuration

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ip igmp version

Configures the IGMP version running on the VLAN.

Syntax

- ip igmp version <1-3>
- default ip igmp version <1-3>

Default

IGMPv2

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
<1-3>	Specifies the IGMP version: 1—IGMPv1; 2—IGMPv2; 3—IGMPv3
default	Restores the IGMP protocol version to the default value (IGMPv2)

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ip igmp (VLAN Interface Configuration)

Creates a new IGMP interface.

Syntax

- ip igmp
- no ip igmp
- default ip igmp

Default

None

Command mode

VLAN Interface Configuration

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ip ipfix collector

Configures IPFIX collectors.

Syntax

- `ip ipfix collector <A.B.C.D> [enable] dest-port <1-65535>`
- `no ip ipfix collector <A.B.C.D> enable`
- `default ip ipfix collector <A.B.C.D> {dest-port | enable dest-port}`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
A.B.C.D	Collector address
dest-port <1-65535>	Set destination port
enable	Enable IPFIX collector

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ip ipfix enable

Enables IPFIX.

Syntax

- ip ipfix enable
- no ip ipfix enable
- default ip ipfix enable

Default

None

Command mode

Global Configuration

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ip ipfix (Ethernet Interface Configuration)

Enables IPFIX for one or more ports.

Syntax

- `ip ipfix [enable] [port <LINE> enable]`
- `no ip ipfix [enable] [port <LINE> enable]`
- `default ip ipfix [enable] [port <LINE> enable]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<code>enable</code>	Enable IPFIX for one or more ports
<code>port <LINE></code>	Specifies an individual port or list of ports

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ip ipfix (Global Configuration)

Configures IPFIX.

Syntax

- `ip ipfix { [export-interval <10-3600>] [exporter-enable] [template-refresh-interval [<300 - 3600>]] template-refresh-packets <10000-100000> }`
- `no ip ipfix exporter-enable`
- `default ip ipfix {export-interval | exporter-enable | template-refresh-interval | template-refresh-packets}`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<code>exporter-enable</code>	Enable exporter
<code>export-interval <10-3600></code>	Set frequency of flow export to collector
<code>template-refresh-interval <300-3600></code>	Set template refresh timeout interval
<code>template-refresh-packets <10000-100000></code>	Set template refresh packets

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ip ipfix (Privileged Executive)

Exports/Flushes IPFIX.

Syntax

- `ip ipfix flush port <LINE> export-and-flush`

Default

None

Command mode

Privileged Executive

Command parameters

Parameter	Description
<code>export-and-flush</code>	Export and flush ipfix data
<code>flush</code>	Flush ipfix port data
<code>port<LINE></code>	Specify ports

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ip ipfix slot

Configures IPFIX per-slot/unit settings.

Syntax

- ip ipfix slot <LINE> aging-interval <0-2147400>
- default ip ipfix slot <LINE> aging-interval

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<LINE>	slot list (1 for standalone; 1- n for n high stack)
aging-interval <0-2147400>	Set flow record aging interval

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ip mgmt

Configures management information.

Syntax

- ip mgmt route <destination-ip-addr> <destination-subnet-mask> <gateway-ip>
- no ip mgmt route <destination-ip-addr> <destination-subnet-mask> <gateway-ip>
- default ip mgmt {address unit <1-8> | default-gateway | limit | netmask unit <1-8> | shutdown-interval}

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<destination-ip-addr>	destination IP <A.B.C.D>
<destination-subnet-mask>	destination subnet mask <A.B.C.D>
<gateway-ip>	gateway IP <A.B.C.D>
route	Configure a static route for the mgmt vlan

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ipmgr

Modifies IP Manager settings.

Syntax

- `ipmgr {snmp|telnet|web|source-ip <list ID> <IPaddr> [mask <mask>]}`
- `no ipmgr {snmp|telnet|web|source-ip <list ID>}`
- `default ipmgr {snmp|telnet|web|source-ip <list ID>}`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
snmp	Enable IP Manager control over SNMP traffic
source-ip {<1-50> <50-100> <WORD>}	Set source IP address from which connections are allowed
telnet	Enable IP Manager control over TELNET sessions
web	Enable IP Manager control over WEB connections

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ip name-server

Configures DNS server IP addresses.

Syntax

- ip name-server {<A.B.C.D> | <WORD>}
- no ip name-server {<A.B.C.D> | <WORD>}

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<A.B.C.D>	IPv4 address
<WORD>	IPv6 address, 45 length

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ip num-routes

Limits max allowed routes per protocol type.

Syntax

- `ip num-routes [max-local <2-256>] max-static <0-256>`
- `default ip num-routes {max-local | max-static}`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<code>max-local <2-256></code>	Set maximum allowed local routes
<code>max-static <0-256></code>	Set maximum allowed static routes

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ip ospf apply

Applies OSPF policy/redistribute configuration.

Syntax

- `ip ospf apply {accept | redistribute <direct | rip | static>}`

Default

None

Command mode

Privileged Executive

Command parameters

Parameter	Description
accept	Apply OSPF accept policies
direct	Only apply direct redistribute configuration
redistribute	Apply OSPF redistribute configurations
rip	Only apply RIP redistribute configuration
static	Only apply static redistribute configuration

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ip ospf (Ethernet Interface Configuration)

Configures OSPF for an interface.

Syntax

- `ip ospf [port LINE] {[enable] [advertise-when-down enable] [area {A.B.C.D}] [authentication-key <WORD>] [authentication-type {message-digest | none | simple}] [primary-md5-key <1-255>] [network <broadcast | passive>] [hello-interval <1-65535>] [dead-interval <1-2147483647>] [retransmit-interval <1-3600>] [transit-delay <1-3600>] [cost <1-65535>] [mtu-ignore enable] [priority <0-255>] }`
- `no ip ospf [port <LINE>]{[enable] [advertise-when-down enable] [area {A.B.C.D}] [authentication-key <WORD>] [authentication-type]}`
- `default ip ospf [port LINE] {[enable] [advertise-when-down] [area] [authentication-key] [authentication-type] [network] [hello-interval] [dead-interval] [retransmit-interval] [transit-delay] [cost] [mtu-ignore enable] [priority]}`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<code>advertise-when-down enable</code>	Enables the advertisement of the OSPF interface, and even if the port or VLAN for the routing interface subsequently goes down, the switch continues to advertise the route.
<code>area {A.B.C.D}</code>	Specifies the unique ID of the area to which the interface connects. An area ID of 0.0.0.0 indicates the OSPF area backbone and is created automatically by the switch.
<code>authentication-key <WORD></code>	Configure interface authentication password
<code>authentication-type {message-digest none simple}</code>	Select interface authentication type
<code>cost <1-65535></code>	Specifies the cost assigned to the interface. This is an integer value between 1 and 65535.
<code>dead-interval <1-2147483647></code>	Specifies a dead interval for the interface. This is the interval of time that a neighbor waits for a Hello packet from this interface before the neighbor declares it down. This is an integer value between 1 and 2147483647.
<code>enable</code>	Enable OSPF on an interface
<code>hello-interval <1-65535></code>	Specifies the amount of time between transmission of hello packets from this interface. This is an integer value between 1 and 65535.
<code>mtu-ignore enable</code>	Instructs the interface to ignore the packet MTU size specified in Database Descriptors.

network {broadcast passive}	Defines the type of OSPF interface this interface is.
port <LINE>	Select port(s) for operation
primary-md5-key <1-255>	Select MD5 key used for transmit
priority <0-255>	Assigns a priority to the interface for the purposes of Designated Router election. This is an integer value between 0 and 255.
retransmit- interval <1-3600>	Defines the number of seconds between link state advertisement retransmissions for adjacencies belonging to this interface. This is an integer value between 1 and 3600.
transit-delay <1- 3600>	Defines the transit delay for this OSPF interface in seconds. The transit delay is the estimated number of seconds it takes to transmit a link-state update over the interface. This is an integer value between 1 and 3600.

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ip ospf (Loopback Interface Configuration)

Enables Open Shortest Path First (OSPF) on an interface.

Syntax

Default

None

Command mode

Loopback Interface Configuration

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ip ospf message-digest-key(Ethernet Interface Configuration)

Configure MD5 key for interface.

Syntax

- ip ospf message-digest-key <1-255> md5 <WORD>
- no ip ospf message-digest-key <1-255>
- default ip ospf message-digest-key <1-255>

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<1-255>	Specifies an index value for the MD5 key being configured. This is an integer value between 1 and 255.
md5 <WORD>	Specifies the value of the MD5 key. This is a string value of up to 16 characters in length.

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ip ospf message-digest-key (VLAN Interface Configuration)

Configure MD5 key for interface.

Syntax

- ip ospf message-digest-key <1-255> md5 <WORD>
- no ip ospf message-digest-key <1-255>
- default ip ospf message-digest-key <1-255>

Default

None

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
<1-255>	Specifies an index value for the MD5 key being configured. This is an integer value between 1 and 255.
md5 <WORD>	Specifies the value of the MD5 key. This is a string value of up to 16 characters in length.

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ip ospf spf-run

Initiates SPF run to immediately update OSPF LSDB.

Syntax

- ip ospf spf-run

Default

None

Command mode

Privileged Executive

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ip ospf (VLAN Interface Configuration)

Configures OSPF settings.

Syntax

- `ip ospf [vlan <1-4094>][[enable] [advertise-when-down enable] [area {A.B.C.D}] [authentication-key <WORD>] [authentication-type {message-digest | none | simple}] [primary-md5-key <1-255>] [network <broadcast | passive>] [hello-interval <1-65535>] [dead-interval <1-2147483647>] [retransmit-interval <1-3600>] [transit-delay <1-3600>] [cost <1-65535>] [mtu-ignore enable] [priority <0-255>] }`
- `no ip ospf [vlan <1-4094>][[enable] [advertise-when-down enable] [area {A.B.C.D}] [authentication-key <WORD>] [authentication-type]]`
- `default ip ospf [vlan <1-4094>] [[enable] [advertise-when-down] [area] [authentication-key] [authentication-type] [network] [hello-interval] [dead-interval] [retransmit-interval] [transit-delay] [cost] [mtu-ignore enable] [priority]]`

Default

None

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
<code>advertise-when-down enable</code>	Enables the advertisement of the OSPF interface, and even if the port or VLAN for the routing interface subsequently goes down, the switch continues to advertise the route.
<code>area {A.B.C.D}</code>	Specifies the unique ID of the area to which the interface connects. An area ID of 0.0.0.0 indicates the OSPF area backbone and is created automatically by the switch.
<code>authentication-key <WORD></code>	Configure interface authentication password
<code>authentication-type {message-digest none simple}</code>	Select interface authentication type
<code>cost <1-65535></code>	Specifies the cost assigned to the interface.
<code>dead-interval <1-2147483647></code>	Specifies a dead interval for the interface. This is the interval of time that a neighbor waits for a Hello packet from this interface before the neighbor declares it down.
<code>hello-interval <1-65535></code>	Specifies the amount of time between transmission of hello packets from this interface.
<code>mtu-ignore enable</code>	Instructs the interface to ignore the packet MTU size specified in Database Descriptors.
<code>network <broadcast </code>	Defines the type of OSPF interface this interface is.

<code>passive></code>	
<code>primary-md5-key <1-255></code>	Select MD5 key used for transmit
<code>priority <0-255></code>	Assigns a priority to the interface for the purposes of Designated Router election. This is an integer value between 0 and 255.
<code>vlan <1-4094></code>	Select VLAN ID
<code>retransmit- interval <1-3600></code>	Defines the number of seconds between link state advertisement retransmissions for adjacencies belonging to this interface.
<code>transit-delay <1- 3600></code>	Defines the transit delay for this OSPF interface in seconds. The transit delay is the estimated number of seconds it takes to transmit a link-state update over the interface. This is an integer value between 1 and 3600.

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ip pim

Configure global Protocol Independent Multicast (PIM) settings.

Syntax

- ip pim {[bootstrap-period <5-32757>][disc-data-timeout <5-65535>][enable][fwd-cache-timeout <10-86400>][join-prune-interval <1-18724>][mode sparse][register-suppression-timeout <6-65535>][rp-c-adv-timeout <5-26214>][unicast-route-change-timeout <2-65535>]}

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
bootstrap-period <5-32757>	Configures the PIM bootstrap period.
disc-data-timeout <5-65535>	Configures the PIM disc data timeout.
enable	Enables PIM.
fwd-cache-timeout <1-86400>	Configures the forwarding cache timeout.
join-prune-interval <1-18724>	Configures the PIM join-prune interval.
mode {sparse}	Configures the PIM mode globally.
register-suppression-timeout <6-65535>	Configures the PIM register suppression timeout.
rp-c-adv-timeout <5-26214>	Configures how often the candidate rendezvous points send C-RP advertisement messages.
unicast-route-change-timeout <2-65535>	Configures the PIM-SM unicast route change timeout.

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ip pim rp-candidate group

Configure a dynamic C-RP.

Syntax

- ip pim rp-candidate group <A.B.C.D> <A.B.C.D> rp <A.B.C.D>
- no ip pim rp-candidate group <A.B.C.D> <A.B.C.D> rp <A.B.C.D>
- default ip pim rp-candidate group <A.B.C.D> <A.B.C.D> rp <A.B.C.D>

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<A.B.C.D> <A.B.C.D>	Specifies the group address and group subnet. The first <A.B.C.D> is the group address and the second <A.B.C.D> is the group subnet.
rp <A.B.C.D>	Specifies the RP address.

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ip pim static-rp

Configure a Protocol Independent Multicast (PIM) static RP.

Syntax

- ip pim static-rp [<A.B.C.D> <A.B.C.D> <A.B.C.D>][enable]
- ip pim static-rp [<A.B.C.D>/<0-32> <A.B.C.D>][enable]
- no ip pim static-rp [<A.B.C.D> <A.B.C.D> <A.B.C.D>][enable]
- no ip pim static-rp [<A.B.C.D>/<0-32> <A.B.C.D>][enable]
- default ip pim static-rp [<A.B.C.D> <A.B.C.D> <A.B.C.D>]
- default ip pim static-rp [<A.B.C.D>/<0-32> <A.B.C.D>]

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<A.B.C.D>	The first <A.B.C.D> specifies the group address.
<A.B.C.D>	The third <A.B.C.D> specifies the RP address.
<A.B.C.D>/<0-32>	The second <A.B.C.D> specifies the address and mask.
enable	Enables the static RP.

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ip pim virtual-neighbor

Configure a Protocol Independent Multicast (PIM) virtual neighbor.

Syntax

- `ip pim virtual-neighbor <A.B.C.D> <A.B.C.D>`
- `no ip pim virtual-neighbor <A.B.C.D> <A.B.C.D>`
- `default ip pim virtual-neighbor <A.B.C.D> <A.B.C.D>`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<A.B.C.D> <A.B.C.D>	The first <A.B.C.D> specifies the interface address, and the second specifies the virtual neighbor address.

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Version 02.01 June 26 2014
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ip pim (VLAN Interface Configuration)

Configure global Protocol Independent Multicast (PIM) settings.

Syntax

- `ip pim {[bsr-candidate priority <0-255>][enable][interface-type {active|passive}][join-prune-interval <1-18724>][query-interval <0-18724>]}`
- `no ip pim {[bsr-candidate][enable]}`
- `default ip pim {[bsr-candidate][interface-type][join-prune-interval][query-interval][enable]}`

Default

None

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
<code>bsr-candidate</code>	Enable PIM bootstrap router (BSR) candidate and configure preference on a VLAN.
<code>enable</code>	Enables PIM.
<code>interface-type {active passive}</code>	Specifies the interface type as active or passive.
<code>join-prune-interval <1-18724></code>	Configures the PIM join-prune interval.
<code>priority <0-255></code>	Configures the PIM BSR-candidate priority on a VLAN.
<code>query-interval <0-18724></code>	Configures the PIM query interval on a VLAN.

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ip prefix-list

Adds/modifies a prefix from an IP prefix list.

Syntax

- `ip prefix-list <WORD> { {A.B.C.D/<0-32> {ge <0-32> le <0-32>} | {le <0-32> ge <0-32>}} | {name <WORD> } }`
- `no ip prefix-list <WORD> <A.B.C.D>/<0-32>`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<WORD>	Ip prefix list name
A.B.C.D/<0-32>	IP prefix and mask bits
ge <0-32>	Starting point within the mask length, greater than or equal to
le <0-32>	Ending point within the mask length, less than or equal to
name <WORD>	Rename the ip prefix list

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ip rip (Ethernet Interface Configuration)

Configures RIP parameters on an interface.

Syntax

- `ip rip [port <LINE>] [advertise-when-down enable] [auto-aggregation enable] [cost <cost>] [default-listen enable] [default-supply enable] [enable] [holddown <holddown> | <global>] [listen enable] [poison enable] [proxy-announce enable] [receive version {rip1 | rip1orrip2 | rip 2}] [send version { notsend |rip1 | rip1comp | rip 2}] [supply enable] [timeout <timeout> | global}] [triggered enable]`
- `no ip rip [port <LINE>] [advertise-when-down enable] [auto-aggregation enable] [cost <cost>] [default-listen enable] [default-supply enable] [enable] [holddown <holddown> | <global>] [listen enable] [poison enable] [proxy-announce enable] [receive version {rip1 | rip1orrip2 | rip 2}] [send version { notsend |rip1 | rip1comp | rip 2}] [supply enable] [timeout {<timeout> | global}] [triggered enable]`
- `default ip rip [port <LINE>] [advertise-when-down enable] [auto-aggregation enable] [cost <cost>] [default-listen enable] [default-supply enable] [enable] [holddown <holddown> | <global>] [listen enable] [poison enable] [proxy-announce enable] [receive version {rip1 | rip1orrip2 | rip 2}] [send version { notsend |rip1 | rip1comp | rip 2}] [supply enable] [timeout {<timeout> | global}] [triggered enable]`
- `[default] [no] ip rip in-policy <rmap_name>`
- `[default] [no] ip rip out-policy <rmap_name>`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<code>advertise-when-down enable</code>	Enables RIP advertisements for an interface even when the link to the network fails. The router continues to advertise the subnet even if that particular network is no longer connected (no link in the enabled VLAN). This feature does not advertise the route until the VLAN is first enabled. After the VLAN is enabled, the route is advertised even when the link fails. By default, advertise when down functionality is disabled.
<code>auto-aggregation enable</code>	Enables auto aggregation on the RIP interface. After you enable auto aggregation, the Ethernet Routing Switch automatically aggregates routes to their natural net mask when they are advertised on an interface in a network of a different class. Automatic route aggregation can be enabled only in RIP2 mode or RIP1 compatibility mode. By default, auto aggregation is disabled.
<code>cost <cost></code>	Specifies the RIP cost (metric) for this interface in a range from 1 to 15. The default cost is 1.
<code>default-listen enable</code>	Enables the interface to accept default routes learned through RIP updates. The default setting is disabled.

default-supply enable	Enables the interface to send default route information in RIP updates. This setting takes effect only if a default route exists in the routing table. The default setting is disabled
enable	Enables RIP on the interface.
holddown {<holddown> <global>}	Specifies the interface holddown timer, which is the length of time (in seconds) that RIP maintains a route in the garbage list after determining that it is unreachable. <holddown> — overrides the global parameter and does not change if the global parameter is modified. Range is 0–360 seconds; <global> — default global holddown parameter (120 seconds).
in-policy <WORD>	Add in-policy on this interface.
listen enable	Enables this interface to listen for RIP advertisements. The default value is enabled.
out-policy <WORD>	Add out-policy on this interface.
poison enable	Specifies whether RIP routes on the interface learned from a neighbor are advertised back to the neighbor. If poison reverse is disabled, split horizon is invoked and IP routes learned from an immediate neighbor are not advertised back to the neighbor. If poison reverse is enabled, the RIP updates sent to a neighbor from which a route is learned are "poisoned" with a metric of 16. The receiving neighbor ignores this route because the metric 16 indicates infinite hops in the network. By default, poison reverse is disabled.
port <LINE>	Select ports.
proxy-announce enable	Enables proxy announcements on a RIP interface. When proxy announcements are enabled, the source of a route and its next hop are treated as the same when processing received updates. So, instead of the advertising router being used as the source, the next hop is. Proxy announcements are disabled by default.
receive version {rip1 riplorrip2 rip 2}	Specifies the RIP version received on this interface. Default is rip1orrip2.
send version {notsend rip1 rip1comp rip 2}	Specifies the RIP version sent on an interface. Default is rip1compatible
supply enable	Enables RIP route advertisements on this interface. The default value is enabled.
timeout <timeout> <global>	Specifies the RIP timeout value on this interface. If a RIP interface does not receive an update from another RIP router within the configured timeout period, it moves the routes advertised by the nonupdating router to the garbage list. The timeout interval must be greater than the update timer. <timeout> — sets the interface timeout. Value ranges from 15 to 259200 seconds. <global> — sets the timeout to the global default (180 seconds). The interface timer setting overrides the global parameter and does not change if the global parameter is changed.
triggered enable	Enables automatic triggered updates on this RIP interface. Default is disabled.

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ip rip (VLAN Interface Configuration)

Configures RIP settings.

Syntax

- ip rip [port <LINE>] [advertise-when-down enable] [auto-aggregation enable [domain <WORD>]] [cost <cost>] [default-listen enable] [default-supply enable] [enable] [holddown <holddown> | <global>] [listen enable] [poison enable] [proxy-announce enable] [receive version {rip1 | riplorrip2 | rip 2}] [send version { notsend |rip1 | rip1comp | rip 2}] [supply enable] [timeout {<timeout> | global}] [triggered enable]
- no ip rip [port <LINE>] [advertise-when-down enable] [auto-aggregation enable [domain <WORD>]] [cost <cost>] [default-listen enable] [default-supply enable] [enable] [holddown <holddown> | <global>] [listen enable] [poison enable] [proxy-announce enable] [receive version {rip1 | riplorrip2 | rip 2}] [send version { notsend |rip1 | rip1comp | rip 2}] [supply enable] [timeout {<timeout> | global}] [triggered enable]
- default ip rip [port <LINE>] [advertise-when-down enable] [auto-aggregation enable [domain <WORD>]] [cost <cost>] [default-listen enable] [default-supply enable] [enable] [holddown <holddown> | <global>] [listen enable] [poison enable] [proxy-announce enable] [receive version {rip1 | riplorrip2 | rip 2}] [send version { notsend |rip1 | rip1comp | rip 2}] [supply enable] [timeout {<timeout> | global}] [triggered enable]
- [default] [no] ip rip in-policy <rmap_name>
- [default] [no] ip rip out-policy <rmap_name>

Default

None

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
advertise-when-down enable	Enables RIP advertisements for an interface even when the link to the network fails. The router continues to advertise the subnet even if that particular network is no longer connected (no link in the enabled VLAN). This feature does not advertise the route until the VLAN is first enabled. After the VLAN is enabled, the route is advertised even when the link fails. By default, advertise when down functionality is disabled.
auto-aggregation enable	Enables auto aggregation on the RIP interface. After you enable auto aggregation, the Ethernet Routing Switch automatically aggregates routes to their natural net mask when they are advertised on an interface in a network of a different class. Automatic route aggregation can be enabled only in RIP2 mode or RIP1 compatibility mode. By default, auto aggregation is disabled.
cost <cost>	Specifies the RIP cost (metric) for this interface in a range from 1 to 15. The default cost is 1.
default-listen enable	Enables the interface to accept default routes learned through RIP updates. The default setting is disabled.

default-supply enable	Enables the interface to send default route information in RIP updates. This setting takes effect only if a default route exists in the routing table. The default setting is disabled.
enable	Enables RIP on the interface
holddown {<holddown> <global>}	Specifies the interface holddown timer, which is the length of time (in seconds) that RIP maintains a route in the garbage list after determining that it is unreachable. <holddown> — overrides the global parameter and does not change if the global parameter is modified. Range is 0–360 seconds. <global> — default global holddown parameter (120 seconds).
in-policy <WORD>	Add in-policy on this interface
listen enable	Enables this interface to listen for RIP advertisements. The default value is enabled.
out-policy <WORD>	Add out-policy on this interface
poison enable	Specifies whether RIP routes on the interface learned from a neighbor are advertised back to the neighbor. If poison reverse is disabled, split horizon is invoked and IP routes learned from an immediate neighbor are not advertised back to the neighbor. If poison reverse is enabled, the RIP updates sent to a neighbor from which a route is learned are "poisoned" with a metric of 16. The receiving neighbor ignores this route because the metric 16 indicates infinite hops in the network. By default, poison reverse is disabled.
port <LINE>	Select ports
proxy-announce enable	Enables proxy announcements on a RIP interface. When proxy announcements are enabled, the source of a route and its next hop are treated as the same when processing received updates. So, instead of the advertising router being used as the source, the next hop is. Proxy announcements are disabled by default.
receive version {rip1 rip1orrip2 rip 2}	Specifies the RIP version received on this interface. Default is rip1orrip2.
send version {notsend rip1 rip1comp rip 2}	Specifies the RIP version sent on an interface. Default is rip1compatible
supply enable	Enables RIP route advertisements on this interface. The default value is enabled.
timeout <timeout> <global>	Specifies the RIP timeout value on this interface. If a RIP interface does not receive an update from another RIP router within the configured timeout period, it moves the routes advertised by the nonupdating router to the garbage list. The timeout interval must be greater than the update timer. <timeout> — sets the interface timeout. Value ranges from 15 to 259200 seconds. <global> — sets the timeout to the global default (180 seconds). The interface timer setting overrides the global parameter and does not change if the global parameter is changed.
triggered enable	Enables automatic triggered updates on this RIP interface. Default is disabled.

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ip route

Creates a static IP route.

Syntax

- `ip route <destination-ip> <destination-subnet-mask> <next-hop-ip> {<1-65535> | disable | enable | weight <1-65535>}`
- `no ip route <destination-ip> <destination-subnet-mask> <next-hop-ip>`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<1-65535>	cost
<destination-ip>	destination IP <A.B.C.D>
<destination-subnet-mask>	destination subnet mask <A.B.C.D>
<next-hop-ip>	next hop IP <A.B.C.D>
disable	disable a route
enable	enable a route
weight	change cost of existing route

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ip routing (Global Configuration)

Enables global routing.

Syntax

- ip routing force
- no ip routing

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
force	Do not ask for confirmation

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ip routing (VLAN Interface Configuration)

Enables L3 routing on a VLAN.

Syntax

- ip routing force
- no ip routing

Default

None

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
force	Do not ask for confirmation

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ipv6

Sets global IPv6 configuration subcommands.

Syntax

- `ipv6 [enable] [icmp] {[block-multicast-replies] [icmp] [error-interval <0-2147483647>] [icmp] [error-quota <0-2000000>] [icmp] [unreach-msg]}`
- `no ipv6 [enable] [icmp] {[block-multicast-replies] [icmp] [unreach-msg]}`
- `default ipv6 [enable] [icmp] {[block-multicast-replies] [icmp] [error-interval] [icmp] [error-quota] [icmp] [unreach-msg]}`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<code>block-multicast-replies</code>	Enable IPv6 ICMP block-multicast-replies
<code>enable</code>	Enable IPv6 global admin status
<code>error-interval<0-2147483647></code>	Set IPv6 ICMP error-interval
<code>error-quota<0-2000000></code>	Set IPv6 ICMP error-quota
<code>icmp</code>	Set IPv6 ICMP parameters
<code>unreach-msg</code>	Enable IPv6 ICMP unreach-msg

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ipv6 address

Sets default IPv6 address.

Syntax

- `ipv6 address {[stack <WORD>] [switch <WORD>] [unit <1-8> <WORD>] [<WORD>]}`
- `no ipv6 address [stack] [switch] [unit <1-8>]`
- `default ipv6 address [stack] [switch] [unit <1-8>]`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<WORD>	IPv6 address /prefix length
stack	The address of the stack
switch	Set the IP address of local unit
unit <1-8>	Set the IP address of another unit in a stack

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ipv6 autoconfig

Configures IPv6 autoconfiguration.

Syntax

- `ipv6 autoconfig`
- `default ipv6 autoconfig`
- `no ipv6 autoconfig`

Default

None

Command mode

Global Configuration

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ipv6 default-gateway

Configures IPv6 default gateway.

Syntax

- `ipv6 default-gateway <WORD>`
- `no ipv6 default-gateway`
- `default ipv6 default-gateway`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<WORD>	IPv6 address

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ipv6 dhcp guard attach-policy

Attaches a Dynamic Host Configuration Protocol (DHCP) guard policy to an interface.

Syntax

- `ipv6 dhcp guard attach-policy <WORD>`
- `no ipv6 dhcp guard attach-policy <WORD>`
- `default ipv6 dhcp guard attach-policy <WORD>`

Default

The default is disabled.

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<WORD>	Specifies a policy name.

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ipv6 dhcp guard clear stats

Clears Dynamic Host Configuration Protocol (DHCP) guard statistics globally.

Syntax

- `ipv6 dhcp guard clear stats [<LINE>]`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<LINE>	Specifies a list of ports.

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ipv6 dhcp guard enable

Enable Dynamic Host Configuration Protocol (DHCP) guard globally.

Syntax

- `ipv6 dhcp guard enable`
- `default ipv6 dhcp guard enable`
- `no ipv6 dhcp guard enable`

Default

None

Command mode

Global Configuration

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ipv6 dhcp guard policy

Enables the user to enter into DHCP Guard Configuration mode.

Syntax

- `ipv6 dhcp guard policy <WORD>`
- `default ipv6 dhcp guard policy <WORD>`
- `no ipv6 dhcp guard policy <WORD>`

Default

The default is disabled.

Command mode

Global Configuration

Command parameters

Parameter	Description
<WORD>	Specifies a policy name.

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ipv6 fhs enable

Enable First Hop Security (FHS) globally.

Syntax

- `ipv6 fhs enable`
- `default ipv6 fhs enable`
- `no ipv6 fhs enable`

Default

The default is disabled.

Command mode

Global Configuration

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ipv6 fhs ipv6-access-list

Creates the First Hop Security (FHS) IPv6 access list or adds IP prefixes to the existing FHS IPv6 access list.

Syntax

- `ipv6 fhs ipv6-access-list <WORD> <WORD> [ge <0-128>][le <0-128>][mode {allow|deny}]`
- `default ipv6 fhs ipv6-access-list <WORD> [<WORD>]`
- `no ipv6 fhs ipv6-access-list <WORD> <WORD>`

Default

The default is disabled.

Command mode

Global Configuration

Command parameters

Parameter	Description
<WORD> <WORD>	The first <WORD> specifies the access list name. The second <WORD> specifies the IPV6 address prefix and mask length.
ge <0-128>	Specifies the start mask length for providing the IP range. The default is 0.
le <0-128>	Specifies the end mask length for providing the IP range. The default is 0.
mode {allow deny}	Specifies the access mode. The default is allow.

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ipv6 fhs mac-access-list

Create the First Hop Security (FHS) MAC access list or add a MAC to the existing MAC address list.

Syntax

- `ipv6 fhs mac-access-list <WORD> <H.H.H> [mode {allow|deny}]`
- `default ipv6 fhs mac-access-list <WORD> <H.H.H>`
- `no ipv6 fhs mac-access-list <WORD> <H.H.H>`

Default

The default is disabled.

Command mode

Global Configuration

Command parameters

Parameter	Description
<H.H.H>	Specifies the MAC address. The format can include one of the following: H.H.H., XX:XX:XX:XX:XX:XX, XX.XX.XX.XX.XX.XX, XX-XX-XX-XX-XX-XX.
<WORD>	Specifies the MAC address name.
mode {allow deny}	Specifies the access mode.

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ipv6 fhs nd inspection stats clear

Clears ND inspection global overflow statistics.

Syntax

- `ipv6 fhs nd inspection stats clear`

Default

None

Command mode

Global Configuration

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ipv6 icmp addr-unreach

Configure IPv6 Internet Control Message Protocol (ICMP) parameters.

Syntax

- `ipv6 icmp addr-unreach icmp`
- `default ipv6 icmp addr-unreach icmp`
- `no ipv6 icmp addr-unreach [icmp]`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<code>icmp</code>	Enables IPv6 redirect message.

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ipv6 icmp port-unreach

Configure IPv6 Internet Control Message Protocol (ICMP) parameters.

Syntax

- `ipv6 icmp port-unreach icmp`
- `default ipv6 icmp port-unreach icmp`
- `no ipv6 icmp port-unreach icmp`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<code>icmp</code>	Enables IPv6 ICMP port unreachable message.

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ipv6 interface (Loopback Interface Configuration)

Creates and configures a Loopback IPv6 interface.

Syntax

- `ipv6 interface [address <WORD>][enable]`
- `default ipv6 interface [enable]`
- `no ipv6 interface [address <WORD>][enable]`

Default

None

Command mode

Loopback Interface Configuration

Command parameters

Parameter	Description
<code>address <WORD></code>	Specifies the IPv6 address.
<code>enable</code>	Enables the address.

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ipv6 interface (VLAN Interface Configuration)

Creates and configures a VLAN IPv6 interface.

Syntax

- `ipv6 interface [address <WORD>][enable][link-local][mtu <bytes>] [name <name>] [process-redirect][reachable-time <ms>] [retransmit-timer <ms>]`
- `default ipv6 interface [all][enable][link-local][mtu] [process-redirect][reachable-time] [retransmit-timer]`
- `no ipv6 interface[address <WORD>][all][enable][process-redirect]`

Default

None

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
<code>address <ipv6 address></code>	Configures the IPv6 address and prefix length. The default value is none.
<code>address <WORD></code>	Configures the IPv6 address and prefix length. The default value is none.
<code>enable</code>	Enables the interface admin status.
<code>enable</code>	Enables the interface admin status.
<code>link-local <link-local></code>	Configures the link local identifier. The default value is none.
<code>mtu <bytes></code>	Configures the maximum transmission unit for the interface. The default value is 1500.
<code>name <name></code>	Configures a description for the interface. This variable does not support the default parameter.
<code>process-redirect.</code>	Enables processing of IPv6 redirect-message.
<code>reachable-time <ms></code>	Configures the time, in milliseconds, that a neighbor is considered reachable after receiving a reachability confirmation. Range is 0-3600000. The default value is 30000.
<code>retransmit-timer <ms></code>	Configures the time, in milliseconds, between retransmissions of Neighbor Solicitation messages to a neighbor when resolving the address or when probing the reachability of a neighbor. Range is 0-3600000. The default value is 1000.

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ipv6 mld flush

Flush the multicast listener discovery (MLD) multicast router, group member, or sender.

Syntax

- `ipv6 mld flush [grp-member][mrouter][port <line>]`
- `ipv6 mld flush [port <line>] [grp-member][mrouter]`
- `ipv6 mld flush [vlan <1-4094>][grp-member][mrouter][port <line>]`
- `ipv6 mld flush [vlan <1-4094>][port <line>][grp-member][mrouter]`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<code>grp-member</code>	Flushes the MLD group member.
<code>mrouter</code>	Flushes the MLD multicast router.
<code>port <LINE></code>	Flushes the ports.
<code>vlan <1-4094></code>	Flushes the VLAN interfaces.

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ipv6 mld (VLAN Interface Configuration)

Configures the multicast listener discovery (MLD) settings for each VLAN.

Syntax

- `ipv6 mld [last-memb-query-int <0-255>][mrouter <LINE>][query-interval <1-65535>][query-max-response-time <0-255>][robust-value <2-255>][snoping [enable]]`
- `no ipv6 mld [mrouter <LINE>][snoping [enable]]`
- `default ipv6 mld [last-memb-query-int][mrouter][query-interval][query-max-response-time][robust-value][snoping]`

Default

None

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
<code>dad-ns <0-600></code>	Duplicates address detection - neighbor solicitation.
<code>hop-limit <1-255></code>	Specifies the hop limit value for the interface.
<code>las-memb-query-int <0-255></code>	Configures the last member query interval.
<code>mrouter <LINE></code>	Configures multicast forwarding ports.
<code>query-interval <0-65535></code>	Configures the query interval time.
<code>query-max-response-time <0-255></code>	Configures the maximum response time in the query message in seconds.
<code>robust-value <2-255></code>	Configures the robustness variable.
<code>snoping [enable]</code>	Enables multicast listener discovery (MLD) snooping.

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ipv6 nd inspection clear stats

Clear the network discovery (ND)-inspection statistics and the source binding table (SBT) entry drop status. If you select a particular port-number option, the device clears the statistics for that particular port.

Syntax

- `ipv6 nd inspection clear stats [<LINE>]`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<LINE>	Specifies a list of ports.

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ipv6 nd inspection dynamic-learning enable

Enable dynamic learning of a neighbor source address.

Syntax

- `ipv6 nd inspection dynamic-learning enable`
- `no ipv6 nd inspection dynamic-learning enable`
- `default ipv6 nd inspection dynamic-learning enable`

Default

None

Command mode

Ethernet Interface Configuration

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ipv6 nd inspection enable

Enable ND inspection globally.

Syntax

- `ipv6 nd inspection enable`
- `default ipv6 nd inspection enable`
- `no ipv6 nd inspection enable`

Default

The default is disabled.

Command mode

Global Configuration

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ipv6 nd rguard attach-policy

Apply the router advertisement (RA) guard on a particular interface.

Syntax

- `ipv6 nd rguard attach-policy <WORD>`
- `no ipv6 nd rguard attach-policy <WORD>`
- `default ipv6 nd rguard attach-policy <WORD>`

Default

The default is disabled.

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<WORD>	Specifies the policy.

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ipv6 nd raguard clear stats

Clear the router advertisement (RA) guard statistics.

Syntax

- `ipv6 nd raguard clear stats [<LINE>]`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<LINE>	Specifies a list of ports.

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ipv6 nd rguard enable

Enable router advertisement (RA) guard globally.

Syntax

- `ipv6 nd rguard enable`
- `default ipv6 nd rguard enable`
- `no ipv6 nd rguard enable`

Default

The default is disabled.

Command mode

Global Configuration

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ipv6 nd rguard policy

Enables the user to enter RA Guard Configuration mode to create, configure, and modify the router advertisement (RA) guard policy.

Syntax

- `ipv6 nd rguard policy <WORD>`
- `default ipv6 nd rguard policy <WORD>`
- `no ipv6 nd rguard policy <WORD>`

Default

The default is disabled.

Command mode

Global Configuration

Command parameters

Parameter	Description
<WORD>	Specifies the RA guard policy name.

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ipv6 nd (VLAN Interface Configuration)

Configures neighbor discovery.

Syntax

- `ipv6 nd [dad-ns <0-600>][hop-limit <1-255>]`
- `default ipv6 nd [dad-ns][hop-limit]`

Default

None

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
<code>dad-ns <0-600></code>	Duplicates address detection - neighbor solicitation.
<code>hop-limit <1-255></code>	Specifies the hop limit value for the interface.

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ipv6 neighbor

Configures neighbor cache.

Syntax

- `ipv6 neighbor <WORD> port <WORD> mac <H.H.H>`
- `no ipv6 neighbor <WORD>`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<code><WORD></code>	IPv6 address, 45 length
<code>mac</code> <code><H.H.H></code>	MAC address of IPv6 neighbor entry (H.H.H or xx:xx:xx:xx:xx:xx or xx.xx.xx.xx.xx.xx or xx-xx-xx-xx-xx-xx)
<code>port</code> <code><WORD></code>	unit/ port

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ipv6 neighbor binding clear

Clears all dynamically learned source binding table (SBT) entries, such as DHCP learned information. The command does not clear the SBT static entries.

Syntax

- `ipv6 neighbor binding clear`

Default

None

Command mode

Global Configuration

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ipv6 neighbor binding down-lifetime

Configures the maximum downtime for a dynamically learned source binding table (SBT) entry. If the switch receives any network discovery (ND) messages in this state that matches the information in the source binding table (SBT) entry, then no validation occurs on that packet, rather the entry moves directly to the REACHABLE state. After this timer expires, the device deletes this entry from the SBT. In the case of "infinite" option, the device never deletes the SBT entry. If you change the timer value from "infinite" to a "finite" value then the timer restarts and expires after the finite value in seconds.

Syntax

- `ipv6 neighbor binding down-lifetime [<30-86400>][infinite]`
- `default ipv6 neighbor binding down-lifetime`

Default

The default is 86400.

Command mode

Global Configuration

Command parameters

Parameter	Description
<30-86400>	Configures the down lifetime value in seconds.
infinite	Configures the down lifetime to infinite. In the case of "infinite" option, the device never deletes the SBT entry. If you change the timer value from "infinite" to a "finite" value then the timer restarts and expires after the finite value in seconds.

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ipv6 neighbor binding max-entries

Specifies the maximum number of dynamic entries that can be inserted into the source binding table (SBT). The maximum number of static entries is 100. If the SBT has more than the maximum number of entries, the additional entries are not allowed until the SBT is cleared.

Syntax

- `ipv6 neighbor binding max-entries <1-1024>`
- `default ipv6 neighbor binding max-entries`

Default

The default is 512.

Command mode

Global Configuration

Command parameters

Parameter	Description
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<1-1024>	Specifies the number of entries in the neighbor binding table.
----------	--

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ipv6 neighbor binding reachable-lifetime

Specifies the maximum reachable lifetime for a dynamically-learned source binding table (SBT) entry. After this timeout, the entry moves to a STALE state. If the interface is down before the timer expires, then the state moves to a DOWN state. In the DOWN state, if the switch receives any network discovery (ND) packets with the matching entry in the source binding table (SBT), then without validation the state moves to REACHABLE. Similarly if the switch receives any ND packets that match the entry in the SBT, then this aging timer is refreshed. In the case of the "infinite" option, the SBT entry state never moves from a REACHABLE state to an other state. If the timer value changes from "infinite" to a "finite" value, then the timer restarts and expires after the finite value in seconds.

Syntax

- `ipv6 neighbor binding reachable-lifetime [<30-86400>][infinite]`
- `default ipv6 neighbor binding reachable-lifetime`

Default

The default is 300 seconds.

Command mode

Global Configuration

Command parameters

Parameter	Description
<code><30-86400></code>	Configures the reachable lifetime value in seconds.
<code>infinite</code>	Configures the reachable-lifetime to infinite. In the case of the "infinite" option, the SBT entry state never moves from a REACHABLE state to an other state. If the timer value changes from "infinite" to a "finite" value, then the timer restarts and expires after the finite value in seconds.

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ipv6 neighbor binding stale-lifetime

Specifies the maximum stale lifetime for a dynamically learned source binding table (SBT) entry. In this state, if the switch receives any network discovery (ND) message that matches the information of the SBT entry, then no validation occurs on that packet, instead the SBT entry moves directly to a REACHABLE state. After this timer expires the entry is deleted from the SBT. In the case of "infinite" option, the SBT entry state is never deleted. If the timer value is changed from "infinite" to a "finite" value, then the timer restarts and expires after the finite value in seconds.

Syntax

- `ipv6 neighbor binding stale-lifetime [<30-86400>][infinite]`
- `default ipv6 neighbor binding stale-lifetime`

Default

The default is 86400 seconds.

Command mode

Global Configuration

Command parameters

Parameter	Description
<code>infinite</code>	Configures the stale lifetime to infinite. In the case of "infinite" option, the SBT entry state is never deleted. If the timer value is changed from "infinite" to a "finite" value, then the timer restarts and expires after the finite value in seconds.

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ipv6 neighbor binding vlan

Adds a static entry to the Source Binding Table (SBT). Note: The static entry replaces the dynamic entry (matching the source IP). If a static SBT entry with a matching source IP already exists, then if you try to add a static SBT entry with a different MAC address and port, the pre-existing entries are not overwritten. The same SBT entry can be added to a different VLAN. The SBT entry is not tied to a particular VLAN, or a VLAN to port mapping. An SBT entry can be created without the VLAN existing. Ipv6-address: "0::0" is not allowed. LL-MAC: "0:0:0:0:0:0" is not allowed.

Syntax

- `ipv6 neighbor binding vlan <1-4094> <WORD> interface Ethernet <WORD> <H.H.H>`
- `no ipv6 neighbor binding vlan <1-4094> <WORD> interface Ethernet <WORD> <H.H.H>`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<1-4094>	Specifies the VLAN ID.
<H.H.H>	Specifies the MAC address in the following formats: H.H.H, xx:xx:xx:xx:xx:xx, xx.xx.xx.xx.xx.xx, xx-xx-xx-xx-xx-xx. LL-MAC "0:0:0:0:0:0" is not allowed.
<WORD>	Specifies the IPv6 address. IPv6 address 0::0 is not allowed.
interface Ethernet <WORD>	Specifies the Ethernet interface. <WORD> specifies unit/port.

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ip verify source

Enables IP Source Guard to add a higher level of security to the desired port by preventing IP spoofing.

Syntax

- ip verify source [interface Ethernet <WORD>]
- no ip verify source [interface Ethernet [<WORD>]]
- default ip verify source [interface Ethernet [<WORD>]]

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<WORD>	Port list
interface Ethernet	Select Ethernet interfaces

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ip vrrp

Changes VR settings or associate addresses.

Syntax

- ip vrrp <vr_id> adver-int <interval>
- no ip vrrp <vr_id> fast-adv enable
- ip vrrp <vr_id> action {none | preempt}

Default

None

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
{none preempt}	Specify the holddown action. Enter none for no action, Enter preempt to cancel the holddown timer.
<interval>	Specify the advertisement interval in seconds. Value between 1 and 255.
<vr_id>	Specify the virtual router ID to configure

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ip vrrp address

Associates an IP address with a virtual router ID.

Syntax

- ip vrrp address <vr_id> <ip_address>
- no ip vrrp address <vr_id> <ip_address>

Default

None

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
<vr_id>	Specify the virtual router to configure. Value between 1 and 255.

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ip vrrp critical-ip-addr

Configures the VRRP critical IP address.

Syntax

- ip vrrp <vr_id> critical-ip-addr <ip_address>
- no ip vrrp <vr_id> critical-ip-addr <ip_address>

Default

None

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
<ip_address>	Specify the critical IP address
<vr_id>	Specify the virtual router ID to configure

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ip vrrp critical-ip enable

Configures the VRRP critical IP status.

Syntax

- ip vrrp <vr_id> critical-ip enable
- no ip vrrp <vr_id> critical-ip enable

Default

None

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
<vr_id>	Specify the virtual router ID to configure

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ip vrrp fast-adv-int

Configures the VRRP fast advertisement interval.

Syntax

- `ip vrrp <vr_id> fast-adv-int <interval>`

Default

None

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
<interval>	Specify the fast advertisement interval in milliseconds. Value between 200 and 1000.
<vr_id>	Specify the virtual router ID to configure

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ip vrrp holddown-timer

Configures the VRRP holddown timer.

Syntax

- ip vrrp <vr_id> holddown-timer <timer_value>

Default

None

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
<timer_value>	Specify the holddown timer value. Value in seconds between 1 and 21600.
<vr_id>	Specify the virtual router ID to configure

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ip vrrp priority

Assigns a priority to the router for a specific virtual router ID.

Syntax

- ip vrrp <vr_id> priority <1-255>

Default

None

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
<1-255>	Specify the priority value for the virtual router ID. Value between 1 and 255.
<vr_id>	Specify the virtual router ID to configure

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i-sid

Configures the User-Network-Interface (UNI).

Syntax

- `i-sid [<1-16777214>] {port<LINE>|vlan <1-4094>} [port <LINE>][vlan <1-4094>]`
- `no i-sid [<1-16777214>] {port<LINE>|vlan <1-4094>} [port <LINE>][vlan <1-4094>]`
- `default i-sid [<1-16777214>]{port<LINE>|vlan <1-4094>} [port <LINE>][vlan <1-4094>]`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<code><1-16777214></code>	Specifies the I-SID.
<code><LINE></code>	Specifies the port list.
<code>port</code>	Configures the switched UNI by assigning port and VLAN to I-SID.
<code>vlan <1-4094></code>	Configures the C-VLAN UNI by assigning VLAN to I-SID.

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isis

Creates an IS-IS circuit and interface on the selected ports.

Syntax

- `isis enable`
- `no isis enable`
- `default isis enable`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<code>enable</code>	Enables the IS-IS circuit/interface on the selected ports.

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isis hello-auth type

Specifies the authentication type used for IS-IS hello packets on the interface.

Syntax

- `isis hello-auth type {none|simple|hmac-md5}`
- `isis hello-auth type simple key <WORD> [key-id <1-255>]`
- `isis hello-auth type hmac-md5 key <WORD> [key-id <1-255>]`
- `no isis hello-auth`
- `default isis hello-auth`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<code>hmac-md5</code>	If selected, you must also specify a key value but the key-id is optional. MD5 authentication creates an encoded checksum in the transmitted packet. The receiving router uses an authentication key (password) to verify the MD5 checksum of the packet. There is an optional key ID.
<code>key</code> <code><WORD></code>	Authentication key
<code>key-id</code>	Key value (1-16 length)
<code>none</code>	Specifies the authentication type used for IS-IS hello packets on the interface
<code>simple</code>	If selected, you must also specify a key value but the key id is optional. Simple password authentication uses a text password in the transmitted packet. The receiving router uses an authentication key (password) to verify the packet.

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isis l1-dr-priority

Configures the level 1 IS-IS designated router priority to the specified value. This parameter is not used for SPBM because SPBM only runs on point-to-point interfaces. This parameter is for designated router election on a broadcast LAN segment, which is not supported.

Syntax

- `isis l1-dr-priority <0-127>`
- `no isis l1-dr-priority`
- `default isis l1-dr-priority`

Default

64

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<0-127>	Configures the level 1 IS-IS designated router priority to the specified value

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isis l1-hello-interval

Configures the level 1 hello interval.

Syntax

- `isis l1-hello-interval <1-600>`
- `no isis l1-hello-interval`
- `default isis l1-hello-interval`

Default

9

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<1-600>	Configures the level 1 hello interval

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isis l1-hello-multiplier

Configures the level 1 hello multiplier.

Syntax

- `isis l1-hello-multiplier <2-100>`
- `no isis l1-hello-multiplier`
- `default isis l1-hello-multiplier`

Default

3

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<code><2-100></code>	Level-1 hello multiplier value

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isis spbm

SPBM commands

Syntax

- `isis spbm <1-100> {interface-type ptpt | l1-metric <1-16777215>}`
- `no isis spbm <1-100> [interface-type | l1-metric]`
- `default isis spbm <1-100> { interface-type | l1-metric }`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<code>l1-metric <1-16777215></code>	Configures the SPBM instance l1-metric on the IS-IS interface located on the specified port or MLT. The default value is 10.
<code><1-100></code>	SPBM instance
<code>interface-type ptpt</code>	Configures the SPBM instance interfacetype on the IS-IS interface located on the specified port or MLT.

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is-type

Configures the router type globally.

Syntax

- `is-type {11}`
- `no is-type`

Default

None

Command mode

ISIS Router Configuration

Command parameters

Parameter	Description
{11}	Sets the router type globally: 11: Level-1 router type

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jumbo-frames

Enables jumbo frames on switch/stack.

Syntax

- `jumbo-frames [enable]`
- `no jumbo-frames [enable]`
- `default jumbo-frames [enable]`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<code>enable</code>	Enable jumbo frames on switch/stack

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I2 ping (Privileged Executive)

Trigger a Connectivity Fault Management (CFM) loopback message (LBM).

Syntax

- `i2 ping vlan <1-4094> {mac <H.H.H> | routernodename <WORD>} [burst-count <1-200>] [data-tlv-size <0-400>] [frame-size <64-1500>] [priority <0-7>] [testfill-pattern {allZero | allZeroCrc | pseudoRandomBitSequence | pseudoRandomBitSequenceCrc}] [time-out <1-10>]`

Default

None

Command mode

Privileged Executive

Command parameters

Parameter	Description
<code>burst-count <1-200></code>	Specifies the number of packets.
<code>data-tlv-size <0-400></code>	Specifies the data type-length-value (TLV) size.
<code>frame-size <64-1500></code>	Specifies the packet size.
<code>mac <H.H.H></code>	Specifies the destination MAC address.
<code>priority <0-7></code>	Specifies the priority.
<code>routernodename <WORD></code>	Specifies the destination node name.
<code>testfill-pattern {allZero allZeroCrc pseudoRandomBitSequence pseudoRandomBitSequenceCrc}</code>	Specifies the fill pattern.
<code>time-out <1-10></code>	Specifies the timeout in seconds.
<code>vlan <1-4094></code>	Specifies the destination VLAN.

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I2 ping (User Executive)

Trigger a Connectivity Fault Management (CFM) loopback message (LBM).

Syntax

- `i2 ping vlan <1-4094> {mac <H.H.H> | routernodname <WORD>} [burst-count <1-200>] [data-tlv-size <0-400>] [frame-size <64-1500>] [priority <0-7>][source-mode {nodal|smltVirtual}] [testfill {allZero | allZeroCrc | pseudoRandomBitSequence | pseudoRandomBitSequenceCrc}] [time-out <1-10>]`

Default

None

Command mode

User Executive

Command parameters

Parameter	Description
<code>burst-count <1-200></code>	Specifies the number of packets.
<code>data-tlv-size <0-400></code>	Specifies the data TLV size.
<code>frame-size <64-1500></code>	Specifies the packet size.
<code>mac <H.H.H></code>	Specifies the destination MAC address.
<code>priority <0-7></code>	Specifies the priority
<code>routernodename <WORD></code>	Specifies the destination node name
<code>source-mode {nodal smltVirtual}</code>	Specifies the source modes of the transmit loopback service as either nodal or smltVirtual. The default is nodal.
<code>testfill-pattern {allZero allZeroCrc pseudoRandomBitSequence pseudoRandomBitSequenceCrc}</code>	Specifies the fill pattern.
<code>time-out <1-10></code>	Specifies the timeout in seconds.
<code>vlan <1-4094></code>	Specifies the destination VLAN.

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I2 traceroute (Privileged Executive)

Trigger a Connectivity Fault Management (CFM) linktrace message (LTM).

Syntax

- `l2 traceroute vlan <1-4094> {mac <H.H.H> | routernodename <WORD>} [priority <0-7>] [ttl <1-255>]`

Default

None

Command mode

Privileged Executive

Command parameters

Parameter	Description
mac <H.H.H>	Specifies the destination MAC address.
priority <0-7>	Specifies the priority.
routernodename <WORD>	Specifies the destination node name.
ttl <1-255>	Specifies the time-to-live (TTL).
vlan <1-4094>	Specifies the destination VLAN.

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I2 traceroute (User Executive)

Trigger a Connectivity Fault Management (CFM) linktrace message (LTM).

Syntax

- `l2 traceroute vlan <1-4094> {mac <H.H.H> | routernodname <WORD>} [priority <0-7>] [ttl <1-255>]`

Default

None

Command mode

User Executive

Command parameters

Parameter	Description
mac <H.H.H>	Specifies the MAC address.
priority <0-7>	Specifies the priority.
routernodename <WORD>	Specifies the destination node name.
ttl <1-255>	Specifies the time to live (TTL).
vlan <1-4094>	Specifies the destination VLAN.

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I2 tracetree (Privileged Executive)

Trigger a Connectivity Fault Management (CFM) multicast linktrace message (LTM).

Syntax

- `i2 tracetree vlan <1-4094> i-sid <1-16777215> [mac <H.H.H> | routernodename <WORD>] [priority <0-7>] [ttl <1-255>]`

Default

None

Command mode

Privileged Executive

Command parameters

Parameter	Description
<code>i-sid <1-16777215></code>	Specifies the instance identifier (I-SID).
<code>mac <H.H.H></code>	Specifies the destination MAC address.
<code>priority <0-7></code>	Specifies the priority.
<code>routernodename <WORD></code>	Specifies the destination node name.
<code>ttl <1-255></code>	Specifies the time-to-live.
<code>vlan <1-4094></code>	Specifies the destination VLAN.

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I2 tracetree (User Executive)

Trigger a Connectivity Fault Management (CFM) multicast linktrace message (LTM).

Syntax

- `i2 tracetree vlan <1-4094> i-sid <1-16777215> {mac <H.H.H> | routernodname <WORD>} [priority <0-7>] [ttl <1-255>]`

Default

None

Command mode

User Executive

Command parameters

Parameter	Description
<code>i-sid <1-16777215></code>	Specifies the Instance identifier (I-SID).
<code>mac <H.H.H></code>	Specifies the destination MAC address.
<code>priority <0-7></code>	Specifies the priority.
<code>routernodname <WORD></code>	Specifies the destination node name.
<code>ttl <1-255></code>	Specifies the time to live (TTL).
<code>vlan <1-4094></code>	Specifies the destination VLAN.

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lacp aggregation

Enables the port aggregation mode.

Syntax

- lacp aggregation [port <portList>] enable
- no lacp aggregation [port <portList>] enable
- default lacp aggregation

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
enable	Enable port aggregation mode
port <portList>	Specify port list

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lacp clear-stats

Clears LACP statistics.

Syntax

- lacp clear-stats [port <WORD>]

Default

none

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
port <WORD>	Specify port list

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lacp key (Ethernet Interface Configuration)

Configures the administrative LACP key for a set of ports.

Syntax

- lacp key [port <portList>] <1-4095>
- default lacp key [port <portList>]

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<1-4095>	The LACP key to use
<portList>	The ports to configure the LACP key for

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lacp key (Global Configuration)

Configures LACP key to MLT mappings.

Syntax

- lacp key <1-4095> mlt-id <1-32>
- default lacp key <1-4095>

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<1-4095>	LACP key value
mlt-id <1-32>	Configure MLT ID for this LACP key

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lacp mode

Configures the LACP mode of operations for a set of ports.

Syntax

- lacp mode [port <portList>] {active | passive | off}
- default lacp mode [port <portList>]

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<portList>	The ports for which the LACP mode is to be set
active	The port will participate as an active Link Aggregation port. Ports in active mode send LACPDUs periodically to the other end to negotiate for link aggregation.
off	The port does not participate in Link Aggregation
passive	The port will participate as a passive Link Aggregation port. Ports in passive mode send LACPDUs only when the configuration is changed or when its link partner communicates first.

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lacp priority

Configures the per-port LACP priority for a set of ports.

Syntax

- lacp priority [port <portList>] <0-65535>
- default lacp priority [port <portList>]

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<0-65535>	The priority value to assign
port <portList>	The ports for which to configure LACP priority

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lacp system-priority

Sets LACP system priority.

Syntax

- lacp system-priority <0-65535>
- default lacp system-priority

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<0-65535>	Priority

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lacp timeout-time

Configures the LACP periodic transmission timeout interval for a set of ports.

Syntax

- lacp timeout-time [port <portList>] {long | short}
- default lacp timeout-time [port <portList>]

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
{long short}	Specify the long or short timeout interval
port <portList>	The ports for which to configure the timeout interval

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link-state

Configures link state tracking group.

Syntax

- link-state group <1-2> {[downstream interface] [enable] [upstream interface] [Ethernet <LINE>] [mlt <1-32>]}
- no link-state group <1-2> {[downstream interface] [enable] [upstream interface] [Ethernet <LINE>] [mlt <1-32>]}
- default link-state group <1-2> [downstream] [upstream]

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
downstream interface	Add a specific interface to group downstream
enable	Enable group
Ethernet <LINE>	Add list of ports
group <1-2>	Tracking group ID
mlt <1-32>	Add trunk number
upstream interface	Add a specific interface to group upstream

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lldp config-notification(Ethernet Interface Configuration)

Enable notification on configuration change.

Syntax

- `lldp config-notification`
- `no lldp config-notification`
- `default lldp config-notification`

Default

None

Command mode

Ethernet Interface Configuration

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lldp (Global Configuration)

Configures 802.1ab settings.

Syntax

- `lldp [tx-interval <5-32768>] [tx-hold-multiplier <2-10>] [reinit-delay <1-10>][tx-delay <1-8192>] [notification-interval <5-3600>][med-fast-start <1-10>] [vendor-specific avaya] {[call-server] {[<1-8> A.B.C.D] [<1-8> A.B.C.D] [<1-8> A.B.C.D] [<1-8> A.B.C.D] [<1-8> A.B.C.D] [<1-8> A.B.C.D] [<1-8> A.B.C.D] [<1-8> A.B.C.D]} [file-server] {[<1-4> A.B.C.D] [<1-4> A.B.C.D] [<1-4> A.B.C.D] [<1-4> A.B.C.D] [<1-4> A.B.C.D] [<1-4> A.B.C.D] [<1-4> A.B.C.D] [<1-4> A.B.C.D]}]}`
- `default lldp [tx-interval] [tx-hold-multiplier] [reinit-delay] [tx-delay] [notification-interval][med-fast-start] [vendor-specific avaya] {[call-server] {[<1-8>] [<1-8>] [<1-8>] [<1-8>] [<1-8>] [<1-8>] [<1-8>] [<1-8>]} [file-server] {[<1-4>] [<1-4>] [<1-4>] [<1-4>] [<1-4>] [<1-4>] [<1-4>] [<1-4>]}]}`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<code>call-server <1-8> {A.B.C.D}</code>	Configure call server address number or IP address
<code>file-server <1-4> {A.B.C.D}</code>	Configure file server address number or IP address
<code>med-fast-start <1-10></code>	Set MED Fast Start repeat count value
<code>notification-interval <5-3600></code>	Set notification interval value
<code>reinit-delay <1-10></code>	Set reinitialize delay value
<code>tx-delay <1-8192></code>	Set transmission delay value
<code>tx-hold-multiplier <2-10></code>	Set transmission multiplier value
<code>tx-interval <5-32768></code>	Set retransmission interval value
<code>vendor-specific avaya</code>	Configure 802.1ab Avaya vendor specific settings

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lldp location-identification (Ethernet Interface Configuration)

Location Configuration Information (LCI)

Syntax

- `lldp location-identification [port <LINE>] [civic-address country-code <WORD> { [additional-code <WORD>] [additional-information <WORD>] [apartment <WORD>] [block <WORD>] [building <WORD>] [city <WORD>] [city-district <WORD>] [county <WORD>] [floor <WORD>] [house-number <WORD>] [house-number-suffix <WORD>] [landmark <WORD>] [leading-street-direction <WORD>] [name <WORD>] [p.o.box <WORD>] [place-type <WORD>] [postal-community-name <WORD>] [postal/zip-code <WORD>] [room-number <WORD>] [state <WORD>] [street <WORD>] [street-suffix <WORD>] [trailing-street-suffix <WORD>] }] [coordinate-base {altitude <LINE> {floors | meters} | {datum {NAD83/MLLW | NAD83/NAVD88 | WGS84}} | latitude <LINE> {north | south}} | {longitude <LINE> {east | west}}] [ecs-elin <LINE>]`
- `no lldp location-identification [port <LINE>] [civic-address] [coordinate-base] [ecs-elin]`
- `default lldp location-identification [civic-address] [coordinate-base] [ecs-elin]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<code>additional-code <WORD></code>	Additional code
<code>additional-information <WORD></code>	Additional location information
<code>altitude <LINE> {floors meters}</code>	Altitude
<code>apartment <WORD></code>	Unit (apartment, suite)
<code>block <WORD></code>	Neighborhood, block
<code>building <WORD></code>	Building (structure)
<code>city <WORD></code>	City, township, shi (JP)
<code>city-district <WORD></code>	City division, city district, ward
<code>coordinate-base</code>	Coordinate-based
<code>country-code <WORD></code>	Country code
<code>county <WORD></code>	County, parish, gun (JP), district(IN)
<code>datum {NAD83/MLLW NAD83/NAVD88 WGS84}</code>	Reference datum
<code>ecs-elin <LINE></code>	Emergency Call Service ELIN
<code>floor <WORD></code>	Floor
<code>house-number <WORD></code>	House number
<code>house-number-suffix <WORD></code>	House number suffix
<code>landmark <WORD></code>	Landmark or vanity address

latitude <LINE> {north | south}
leading-street-direction <WORD>
longitude <LINE> {east | west}
name <WORD>
p.o.box <WORD>
place-type <WORD>
port <LINE>
postal/zip-code <WORD>
postal-community-name <WORD>
room-number <WORD>
state <WORD>
street <WORD>
street-suffix <WORD>
trailing-street-suffix <WORD>

Latitude
Leading street direction
Longitude
Residence and office occupant
Post office box
Office
Port list
Postal/Zip code
Postal community name
Room number
National subdivisions: (state, canton, region)
Street
Street suffix
Trailing street suffix

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lldp med-network-policies (Ethernet Interface Configuration)

Configures LLDP Media Endpoint Devices (MED) policies for switch ports.

Syntax

- `lldp med-network-policies [port <portList>] {voice|voice-signaling} [dscp <0-63>] [priority <0-7>] [tagging {tagged|untagged}] [vlan-id <0-4094>]`
- `no lldp med-network-policies [port <portList>] {voice|voice signaling}`
- `default lldp med-network-policies [port <portList>]{voice|voice-signaling}`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<code>dscp <0-63></code>	Specifies the value of the Differentiated Service Code Point (DSCP) as defined in IETF RFC 2474 and RFC 2475 that is associated with the selected switch port or ports. Values range from 0–63. The default value is 46.
<code>port <portlist></code>	Specifies the port or ports on which to configure LLDP MED policies
<code>priority <0-7></code>	Specifies the value of the 802.1p priority that applies to the selected switch port or ports. Values range from 0–7. The default value is 6
<code>tagging {tagged untagged}</code>	Specifies the type of VLAN tagging to apply on the selected switch port or ports. tagged—uses a tagged VLAN. untagged—uses an untagged VLAN or does not support port-based VLANs. If you select untagged, the system ignores the VLAN ID and priority values, and recognizes only the DSCP value.
<code>vlan-id <0-4094></code>	Specifies the VLAN identifier for the selected port or ports. Values range from 0–4094 (0 is for priority tagged frames). If you select priority tagged frames, the system recognizes only the 802.1p priority level and uses a value of 0 for the VLAN ID of the ingress port.
<code>voice</code>	Specifies voice network policy. The default value is 46.
<code>voice-signaling</code>	Specifies voice signaling network policy

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lldp port (Ethernet Interface Configuration)

Port list

Syntax

- `lldp port <LINE> [status {rxOnly | txAndRx | txOnly}] [config-notification] [vendor-specific avaya {dot1q-framing {auto | tagged | untagged} | {poe-conservation-request-level <0-255>}}]`
- `no lldp port <LINE> status config-notification`
- `default lldp port <LINE> [status] [config-notification] [vendor-specific avaya {dot1q-framing | poe-conservation-request-level}]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<code>config-notification</code>	Enable notification on configuration change
<code>status {rxOnly txAndRx txOnly}</code>	Set 802.1ab port(s) admin status
<code>vendor-specific</code>	Configure 802.1ab vendor-specific settings
<code>dot1q-framing {auto tagged untagged}</code>	802.1Q framing tagging-mode
<code>poe-conservation-request-level<0-255></code>	PoE conservation request level

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lldp status (Ethernet Interface Configuration)

Set 802.1ab port(s) admin status

Syntax

- `lldp status {rxOnly | txAndRx | txOnly} config-notification`
- `no lldp status config-notification`
- `default lldp status config-notification`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<code>rxOnly</code>	Enable receive only
<code>txAndRx</code>	Enable transmit and receive
<code>txOnly</code>	Enable transmit only
<code>config-notification</code>	Enable notification on configuration change

lldp tx-tlv (Ethernet Interface Configuration)

Sets the optional Management TLVs to be included in the transmitted LLDPDUs.

Syntax

- `lldp tx-tlv [port <LINE>] [dot1 {port-protocol-vlan-id <LINE> | port-vlan-id <LINE> | protocol-identity [EAP] [LLDP] [STP] [vlan-name <LINE>] | [vlan-name <LINE>] } [dot3 [link-aggregation] [mac-phy-config-status] [maximum-frame-size] [mdi-power-support]] [local-mgmt-addr [port-desc] [sys-cap] [sys-desc] [sys-name]] [med [extendedPSE] [inventory] [location] [med-capabilities] [network-policy]] [port-desc] [sys-cap] [sys-desc] [sys-name] [vendor-specific avaya {[call-server] [dot1q-framing] [fa-element-type][fa-isid-vlan-asgns][file-server] [poe-conservation]]]`
- `no lldp tx-tlv [port <LINE>] [dot1 {port-protocol-vlan-id <LINE> | port-vlan-id | protocol-identity [EAP] [LLDP] [STP] [vlan-name <LINE>] | [vlan-name <LINE>] } [dot3 [link-aggregation] [mac-phy-config-status] [maximum-frame-size] [mdi-power-support]] [local-mgmt-addr [port-desc] [sys-cap] [sys-desc] [sys-name]] [med [extendedPSE] [inventory] [location] [med-capabilities] [network-policy]] [port-desc] [sys-cap] [sys-desc] [sys-name] [vendor-specific avaya {[call-server] [dot1q-framing] [fa-element-type][fa-isid-vlan-asgns][file-server] [poe-conservation]]]`
- `default lldp tx-tlv [port <LINE>] [dot1 {port-protocol-vlan-id <LINE> | port-vlan-id | protocol-identity [EAP] [LLDP] [STP] [vlan-name <LINE>] | [vlan-name <LINE>] } [dot3 [link-aggregation] [mac-phy-config-status] [maximum-frame-size] [mdi-power-support]] [local-mgmt-addr [port-desc] [sys-cap] [sys-desc] [sys-name]] [med [extendedPSE] [inventory] [location] [med-capabilities] [network-policy]] [port-desc] [sys-cap] [sys-desc] [sys-name] [vendor-specific avaya {[call-server] [dot1q-framing] [fa-element-type][fa-isid-vlan-asgns][file-server] [poe-conservation]]]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
call-server	Call Server TLV
dot1	Specifies IEEE 802.1 organizationally specific TLVs.
dot3	Specifies IEEE 802.3 organizationally specific TLVs.
dotq1-framing	Specifies the Dot1q framing TLV.
fa-element-type	Specifies the Fabric Attach (FA) element type TLV.
fa-isid-vlan-asgns	Specifies the Fabric Attach (FA) I-SID and VLAN assignments TLV.
file-server	Specifies the file server TLV.
local-mgmt-addr	The local management address TLV. This TLV is enabled by default.
med	Specifies Media Endpoint Devices (MED) specific TLVs.
poe-conservation	Specifies the Power over Ethernet (POE) conservation TLV.

port <LINE>	Specifies a port or list of ports
port-desc	The port description TLV This TLV is enabled by default. This TLV is enabled by default.
sys-cap	The system capabilities TLV
sys-desc	The system description TLV. This TLV is enabled by default.
sys-name	The system name TLV. This TLV is enabled by default.
port-protocol-vlan-id <LINE>	The port and protocol VLAN ID TLV
port-vlan-id <LINE>	The port VLAN ID TLV
protocol-identity {[EAP] [LLDP] [STP]}	Protocol Identity TLV
vlan-name <LINE>	The VLAN name TLV
link-aggregation	The link aggregation TLV
mac-phy-config-status	The MAC/Phy configuration or status TLV
maximum-frame-size	Maximum Frame Size TLV
mdi-power-support	Power via MDI TLV is sent only on ports where transmission is enabled. The power via MDI TLV, transmission of this TLV is enabled by default on all POE ports. The transmission can be enabled only on PoE ports
extendedPSE	Extended PSE TLV, the transmission of this TLV is enabled by default only on POE port switches
inventory	Inventory TLVs This TLV is enabled by default
location	Location Identification TLV This TLV is enabled by default
med-capabilities	MED Capabilities TLV (MED TLVs are transmitted only if MED Capabilities TLVs are transmitted). This TLV is enabled by default.
network-policy	Network Policy TLV This TLV is enabled by default
vendor-specific	Vendor-specific TLVs

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lldp vendor-specific avaya (Ethernet Interface Configuration)

Configures 802.1ab vendor-specific settings.

Syntax

- `lldp vendor-specific avaya {dot1q-framing {auto | tagged | untagged} | {poe-conservation-request-level <0-255>}}`
- `default lldp vendor-specific avaya {dot1q-framing | poe-conservation-request-level}`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<code>dot1q-framing {auto untagged tagged}</code>	Enables the Layer 2 priority tagging TLV transmit flag.
<code>poe-conservation-request-level <0-255></code>	Specifies the power conservation level to request for a vendor specific PD. Values range from 0 to 255. With the default value of 0, the switch does not request a power conservation level for an Avaya IP phone connected to the port.

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logging

Changes system event log settings.

Syntax

- logging [disable] [enable] [level] {[critical] [informational] [none] [serious]} [nv-level] {[critical] [none] [serious]} [remote] {[address] {[A.B.C.D] [WORD]} [enable] [facility] {[daemon] [local0] [local1] [local2] [local3] [local4] [local5] [local6] [local7]} [level] {[critical] [informational] [none] [serious]} [secondary-address] {[A.B.C.D] [WORD]}}
- no logging [remote] {[address] [enable] [facility] [level] [secondary-address]}
- default logging [remote] {[address] [facility] [level] [secondary-address]}

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
address {A.B.C.D} <WORD>	Configure remote syslog address
critical	Critical event
daemon	Set daemon facility
disable	Disable the event log
enable	Enable the event log
facility	Configure remote logging facility
informational	Informational message
latch	Latch DRAM log when it is full
level	The severity level of events that will be logged in DRAM
local0	Set local0 facility
local1	Set local1 facility
local2	Set local2 facility
local3	Set local3 facility
local4	Set local4 facility
local5	Set local5 facility
local6	Set local6 facility
local7	Set local7 facility
none	No events stored in volatile storage
nv-level	The severity level of events that will be saved in NV storage
overwrite	Overwrite DRAM log when it is full
remote	Configure remote logging parameters

secondary-address {A.B.C.D} |
<WORD>
serious
volatile

Configure remote syslog address

Serious event message

Configure options for logging to DRAM

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logout (Privileged Executive)

Exits from the EXEC and end the current session.

Syntax

- `logout`

Default

None

Command mode

Privileged Executive

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logout (User Executive)

Exits from the EXEC and end the current session.

Syntax

- `logout`

Default

None

Command mode

User Executive

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mac-address-table

Configures MAC address table settings.

Syntax

- `mac-address-table [aging-time <10-1000000>] [learning <LINE>] [static <H.H.H> <1-4094> interface {[Ethernet <LINE>] | [mlt <1-32>]]]`
- `no mac-address-table [learning <LINE>] [static <H.H.H> <1-4094> interface {[Ethernet <LINE>] | [mlt <1-32>]]]`
- `default mac-address-table [aging-time] [learning <LINE>] [static <H.H.H> <1-4094> interface {[Ethernet <LINE>] | [mlt <1-32>]]]`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<code>aging-time <10 - 1000000></code>	Configure MAC address table aging time
<code>interface {ethernet <LINE> mlt <1-32>}</code>	Add MAC Address of a specific interface
<code>learning <LINE></code>	Enable the list of ports for MAC Address learning
<code>static <H.H.H> <1-4094></code>	Add static MAC Address

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mac-security (Ethernet Interface Configuration)

Enables /disables MAC-based security for individual port.

Syntax

- `mac-security [port <portlist>] {disable|enable}`
- `no mac-security [port <portlist>] [learning|lock-out]`
- `mac-security auto-learning [port <portlist>] {disable | enable | max-addr <1-25>}`
- `no mac-security auto-learning [port <portlist>]`
- `default mac-security auto-learning [port <portlist>][enable][max-addr]`
- `default mac-security [port <portlist>] lock-out`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<code>auto-learning</code>	Configure MAC Auto-Learning.
<code>disable</code>	Disable MAC security for port(s)
<code>enable</code>	Enable MAC security for port(s)
<code>learning</code>	Enable MAC security address learning for port(s)
<code>lock-out</code>	Lock out ports from mac security
<code>max-addr</code>	Number of auto-learned entries
<code>port <portlist></code>	Specifies a port or list of ports

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mac-security (Global Configuration)

Configures MAC Address security options.

Syntax

- ```
mac-security [auto-learning]{[aging-time <0-65535>] | [sticky]} [mac-address-table]
{[address <H.H.H>] {[mlt-id <1-32>] | [port <LINE>]} | [security-list <1-32>]} | {[sticky-
address <H.H.H>] {[mlt-id <1-32>] | [port <LINE>]}} [mac-da-filter] {[add <H.H.H>] |
[delete <H.H.H>] | <H.H.H>} [disable] [enable] [intrusion-detect] {[disable] | [enable] |
[forever]} [intrusion-timer <0-65535>] [filtering] {[disable] | [enable]} [learning]
{[disable] | [enable]} [learning-ports] {[add <LINE>] | [LINE] | [remove <LINE>]}
[security-list] [<1-32>] {[add <LINE>] | <LINE> | [remove <LINE>]} [snmp-lock] { [disable]
| [enable]}
```
- ```
no mac-security [auto-learning] {[aging-time] | [sticky]} [mac-address-table] {[address
<H.H.H>] | [mlt-id <1-32>] | [port <LINE>] | [security-list <1-32>]} [mac-da-filter
<H.H.H>] [security-list <1-32>]
```
- ```
default mac-security [auto-learning] {[aging-time] | [sticky]} [mac-da-filter <H.H.H>]
```

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                                            | Description                                          |
|------------------------------------------------------|------------------------------------------------------|
| aging-time <0-65535>                                 | Set aging-time value for auto-learned addresses      |
| auto-learning                                        | Configure MAC Auto-Learning                          |
| disable                                              | Disable MAC Address Security                         |
| enable                                               | Enable MAC Address Security                          |
| filtering                                            | Enable/disable DA filtering for intruder addresses   |
| intrusion-detect                                     | Enable/disable partitioning on intrusion detection   |
| intrusion-timer <0-65535>                            | Set temporary partition time for intrusion detection |
| learning                                             | Enable/disable MAC address learning                  |
| learning-ports {add <LINE>   remove <LINE>   <LINE>} | Modify ports participation in MAC address learning   |
| mac-address-table                                    | Add addresses to MAC security address table          |
| mac-da-filter                                        | Add/delete MAC DA filtering addresses                |
| mlt-id <1-32>                                        | Assign specific trunk to a MAC address               |
| port <LINE>                                          | Assign specific port to a MAC address                |
| security-list <1-32>                                 | Assign a security list to a MAC address              |

|                                           |                                                             |
|-------------------------------------------|-------------------------------------------------------------|
| <code>snmp-lock</code>                    | Enable/disable SNMP lock on MAC address security parameters |
| <code>sticky</code>                       | Set mac-security sticky mode                                |
| <code>sticky-address &lt;H.H.H&gt;</code> | Adds a sticky address to the mac-security mac-address table |

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## managed-config-flag

Enables verification of the managed address configuration flag in the advertised router advertisement (RA) packet. By default the value is none. If configured to none, the check is bypassed.

### Syntax

- `managed-config-flag {none|on|off}`
- `default managed-config-flag`

### Default

The default is none.

### Command mode

RA Guard Configuration

### Command parameters

| Parameter         | Description                                                                    |
|-------------------|--------------------------------------------------------------------------------|
| <code>none</code> | Specifies the managed config flag to none, which means this check is bypassed. |
| <code>off</code>  | Specifies the managed config flag as off.                                      |
| <code>on</code>   | Specifies the managed config flag as on.                                       |

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## manual-area

Configures an IS-IS manual area.

### Syntax

- manual-area <xx.xxxx.xxxx...xxx>
- no manual-area

### Default

None

### Command mode

ISIS Router Configuration

### Command parameters

| Parameter            | Description                                                                                                                                                                                     |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <xx.xxxx.xxxx...xxx> | Specifies the IS-IS manual-area (1–13 bytes in the format <xx.xxxx.xxxx...xxx>. In this release, only one manual area is supported. For IS-IS to operate, you must configure at least one area. |

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## manualtrigger

Triggers RIP update manually.

### Syntax

- `manualtrigger ip rip interface vlan <1-4094>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter     | Description                         |
|---------------|-------------------------------------|
| interface     | Trigger per-interface RIP update    |
| ip            | Global IP configuration subcommands |
| rip           | Trigger RIP update                  |
| vlan <1-4094> | VLAN interface                      |

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## match ipv6 access-list

Configure source IP access list to allow only router advertisement (RA) packets that originate from the source IP address you specify.

### Syntax

- `match ipv6 access-list <WORD>`
- `no match ipv6 access-list <WORD>`
- `default match ipv6 access-list <WORD>`

### Default

The default is disabled.

### Command mode

RA Guard Configuration

### Command parameters

| Parameter | Description                 |
|-----------|-----------------------------|
| <WORD>    | Specifies the IPv6 address. |

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## match mac-access-list

Configure the device to verify the source MAC of the received router advertisement (RA) packet.

### Syntax

- `match mac-access-list <WORD>`
- `no match mac-access-list <WORD>`
- `default match mac-access-list <WORD>`

### Default

The default is disabled.

### Command mode

RA Guard Configuration

### Command parameters

| Parameter | Description                 |
|-----------|-----------------------------|
| <WORD>    | Specifies the IPv6 address. |

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## match ra prefix-list

Configure the device to verify the prefixes sent in the router advertisement (RA) packets.

### Syntax

- `match ra prefix-list <WORD>`
- `no match ra prefix-list <WORD>`
- `default match ra prefix-list <WORD>`

### Default

The default is disabled.

### Command mode

RA Guard Configuration

### Command parameters

| Parameter | Description                 |
|-----------|-----------------------------|
| <WORD>    | Specifies the IPv6 address. |



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## match reply prefix-list

Enables verification of the advertised prefixes in DHCP reply messages from the configured authorized prefix list. If not configured, this check is bypassed. An empty prefix list is treated as permit.

### Syntax

- `match reply prefix-list <WORD>`
- `no match reply prefix-list <WORD>`
- `default match reply prefix-list <WORD>`

### Default

The default is disabled.

### Command mode

RA Guard Configuration

### Command parameters

| Parameter | Description                     |
|-----------|---------------------------------|
| <WORD>    | Specifies the prefix list name. |

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## match server access-list

Enables verification of the IPv6 address of the sender in inspected messages from the configured authorized device source access list.

### Syntax

- `match server access-list <WORD>`
- `no match server access-list <WORD>`
- `default match server access-list <WORD>`

### Default

The default is disabled.

### Command mode

RA Guard Configuration

### Command parameters

| Parameter | Description                          |
|-----------|--------------------------------------|
| <WORD>    | Specifies the IPv6 access list name. |

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## maximum-path

Sets the maximum number of ECMP path for static routes.

### Syntax

- `maximum-path <1-4>`
- `no maximum-path`
- `default maximum-path`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter | Description     |
|-----------|-----------------|
| <1-4>     | ECMP path value |

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## max-lsp-gen-interval

Configures the maximum level, in seconds, between generated LSPs by this Intermediate System.

### Syntax

- `max-lsp-gen-interval <30-900>`
- `no max-lsp-gen-interval`
- `default max-lsp-gen-interval`

### Default

None

### Command mode

ISIS Router Configuration

### Command parameters

| Parameter                   | Description                                                                                     |
|-----------------------------|-------------------------------------------------------------------------------------------------|
| <code>&lt;30-900&gt;</code> | Specifies the maximum interval, in seconds, between generated LSPs by this Intermediate System. |

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## metric

Configures the IS-IS metric type.

### Syntax

- metric wide
- no metric
- default metric

### Default

wide

### Command mode

ISIS Router Configuration

### Command parameters

| Parameter | Description                                                                                                                                                                           |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| wide      | Specifies the IS-IS metric type. Only wide is supported in this release. The default value is wide. Use the no or default options to set this parameter to the default value of wide. |

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## min-lsp-gen-interval

Sets minimum time between successive generation of LSPs with the same LSPID (in seconds).

### Syntax

- `min-lsp-gen-interval <1-900>`
- `no min-lsp-gen-interval`
- `default min-lsp-gen-interval`

### Default

None

### Command mode

ISIS Router Configuration

### Command parameters

| Parameter | Description                     |
|-----------|---------------------------------|
| <1-900>   | Specifies the number of seconds |

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## mlt

Modifies Multi-Link Trunking (MLT) configuration.

### Syntax

- `mlt <id> [name <mlt-name>] [enable | disable] [member <LINE>] [learning {disable | fast | normal}] [bpdu {all-ports | single-port}] [loadbalance {advance|basic}]`
- `mlt shutdown-ports-on-disable enable`
- `mlt spanning-tree <1-32> stp {<1-8> | all | learning {disable | normal | fast}}`
- `no mlt {<1-32>|shutdown-ports-on-disable enable}`
- `default mlt {<1-32> bpdu | shutdown-ports-on-disable enable}`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                          | Description                                                  |
|------------------------------------|--------------------------------------------------------------|
| <1-32>                             | MLT ID                                                       |
| bpdu {all-ports   single-port}     | Set BPDU send/receive mode                                   |
| disable                            | Disable MLT                                                  |
| enable                             | Enable MLT                                                   |
| learning {disable   fast   normal} | Set STP learning mode to disable, fast or normal for a trunk |
| loadbalance {advance basic}        | MLT Load Balance Selection (Advance/Basic)                   |
| member <LINE>                      | Set port membership of MLT                                   |
| name <mlt-name>                    | MLT Name                                                     |
| shutdown-ports-on-disable          | Set protection for disabled trunk                            |
| spanning-tree                      | Set MLT spanning-tree settings                               |
| stp {<1-8>   all   learning}       | Spanning tree group and learning mode                        |

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## name (Ethernet Interface Configuration)

Sets the names of ports.

### Syntax

- name [port <LINE>] <LINE>
- no name [ port <LINE>]
- default name [port <LINE>]

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

| Parameter   | Description                                  |
|-------------|----------------------------------------------|
| <LINE>      | New port name                                |
| port <LINE> | Port number(s) whose names are to be changed |



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## network (OSPF Router Configuration)

Enables OSPF on an interface.

### Syntax

- network <ip\_address> [area <area\_id>]
- no network <ip\_address>
- default network <ip\_address>

### Default

None

### Command mode

OSPF Router Configuration

### Command parameters

| Parameter         | Description                                                                                 |
|-------------------|---------------------------------------------------------------------------------------------|
| <ip_address>      | Specifies the IP address of interface to be enabled for OSPF routing                        |
| area<br><area_id> | Specifies the ID of the area assigned to the interface in dotted decimal notation (A.B.C.D) |

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## network (RIP Router Configuration)

Enables RIP on an IP interface.

### Syntax

- network {A.B.C.D}
- no network {A.B.C.D}

### Default

None

### Command mode

RIP Router Configuration

### Command parameters

| Parameter | Description                 |
|-----------|-----------------------------|
| {A.B.C.D} | IP address of the interface |

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## ntp

Disable ntp.

### Syntax

- ntp [authentication-key <1-2147483647> <WORD>] [interval <10-1440>] [server {A.B.C.D} {[enable] [auth-enable] [authentication-key <1-2147483647>]}] [sync-now]
- no ntp [authentication-key <1-2147483647>] [server {A.B.C.D} {[enable] [auth-enable]}]
- default ntp [authentication-key <1-2147483647>] [interval] [server {A.B.C.D} {[enable] [auth-enable] [authentication-key]}]

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                         | Description                         |
|-----------------------------------|-------------------------------------|
| auth-enable                       | Authenticate server                 |
| authentication-key <1-2147483647> | Create authentication key           |
| enable                            | Enable server                       |
| interval <10-1440>                | NTP interval time                   |
| server {A.B.C.D}                  | Create NTP server                   |
| sync-now                          | Force immediate NTP synchronization |

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## ospf

Sets the maximum number of ECMP path for "ospf" protocol.

### Syntax

- ospf maximum-path <1-4>
- no ospf maximum-path
- default ospf maximum-path

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter          | Description                         |
|--------------------|-------------------------------------|
| maximum-path <1-4> | Set the maximum number of ECMP path |

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## password

Configure password security restrictions.

### Syntax

- password {[aging-time <1-365>|username <WORD>] | password-history <3-10> | security}
- no password security
- default password password-history

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter               | Description                                                                        |
|-------------------------|------------------------------------------------------------------------------------|
| aging-time day <1-365>  | Specifies the password validity period.                                            |
| password-history <3-10> | Configures the number of passwords in the history if password security is enabled. |
| security                | Enables password security restrictions.                                            |
| username <WORD>         | Configures the aging-time for a specific user.                                     |

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## password aging-time

Configure password aging-time.

### Syntax

- `password aging-time username <WORD> <1-365>`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                          | Description                                               |
|------------------------------------|-----------------------------------------------------------|
| <code>&lt;1-365&gt;</code>         | Specifies the number of days for the password aging-time. |
| <code>username &lt;WORD&gt;</code> | Configures the aging-time for a specific user.            |

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## ping (Privileged Executive)

Send echo messages.

### Syntax

- ping {<hostname> | A.B.C.D|<WORD>}[continuous][count <1-9999>][datasize <64-4096> ][debug source {<A.B.C.D>|<WORD>}][interval <1-60>][scopeid <1-4094>][source {<A.B.C.D>|<WORD>}][timeout <1-120>][ttl <0-255>] [-t <1-120>]
- ping {<hostname> | A.B.C.D|<WORD>}[scopeid <1-4094>][loopback <1-16>][continuous][count <1-9999>][datasize <64-4096> ][debug source {<A.B.C.D>|<WORD>}][interval <1-60>][timeout <1-120>]

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter               | Description                                      |
|-------------------------|--------------------------------------------------|
| <Hostname> or {A.B.C.D} | Specifies the hostname or IP address to ping.    |
| <WORD>                  | Specifies the IPv6 address to ping.              |
| continuous              | Configures ping in continuous mode.              |
| count <1-9999>          | Specifies the number of packets.                 |
| datasize <64-4096>      | Specifies the packet size.                       |
| debug                   | Enables ping debug.                              |
| interval <1-60>         | Specifies the interval to retransmit in seconds. |
| loopback <1-16>         | Specifies the loopback interface.                |
| scopeid <1-4094>        | Specifies the scope ID.                          |
| source {A.B.C.D}        | Specifies the source address for ping.           |
| -t <1-120>              | Specifies the timeout in seconds.                |
| timeout <1-120>         | Specifies the timeout in seconds.                |
| ttl <0-255>             | Specifies the time to live (TTL) for packet.     |

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## ping (User Executive)

Sends echo messages.

### Syntax

- ping {<Host-name> | A.B.C.D | <WORD>} [continuous] [count <1-9999>][datasize <64-4096>][debug] [interval <1-60>] [scopeid <1-4094>] [source {A.B.C.D}] [timeout <1-120>] [ttl <0-255>][-t <1-120>]
- ping {<Host-name> | {A.B.C.D} | <WORD>} [scopeid <1-4094>][loopback <1-16>] [continuous] [count <1-9999>][datasize <64-4096>][debug] [interval <1-60>] [source {<A.B.C.D>|<WORD>}] [timeout <1-120>]

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter                        | Description                                                                          |
|----------------------------------|--------------------------------------------------------------------------------------|
| <Host-name>   <A.B.C.D>   <WORD> | Specifies the hostname or IP address to ping.<br>Specifies the IPv6 address to ping. |
| continuous                       | Configures ping in continuous mode.                                                  |
| count <1-9999>                   | Specifies the number of packets.                                                     |
| datasize <64-4096>               | Specifies the packet size.                                                           |
| debug                            | Enables ping debug.                                                                  |
| interval <1-60>                  | Specifies the interval to retransmit in seconds.                                     |
| loopback <1-16>                  | Specifies the loopback interface.                                                    |
| scopeid <1-4094>                 | Specifies the interface VLAN ID for link-local or multicast addresses.               |
| source {A.B.C.D}                 | Specifies the source address for ping.                                               |
| -t <1-120>                       | Specifies the timeout in seconds.                                                    |
| timeout <1-120>                  | Specifies the timeout in seconds.                                                    |
| ttl <0-255>                      | Specifies the time to live (TTL) for packet.                                         |



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## ping-virtual-address

Enables or disables ICMP echo replies from virtual router IP addresses.

### Syntax

- `ping-virtual-address enable`
- `no ping-virtual-address [enable]`
- `default ping-virtual-address [enable]`

### Default

None

### Command mode

VRRP Router Configuration

### Command parameters

| Parameter | Description                                             |
|-----------|---------------------------------------------------------|
| enable    | Enables ICMP echo replies for VRRP associated addresses |

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## poe

Sets global configuration of Power Over Ethernet.

### Syntax

- `poe [ip-phone] {[poe-limit <3-32>] [poe-priority {critical | high | low}]} [poe-pd-detect-type] {[unit <1-8>] [802dot3af] [802dot3af_and_legacy] [802dot3at] [802dot3at_and_legacy]} [poe-power-usage-threshold] {[unit <1-8>] [<1-99>]}`
- `no poe ip-phone {poe-limit | poe-priority}`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                            | Description                                                   |
|--------------------------------------|---------------------------------------------------------------|
| 802dot3af                            | Set PD detection mode in 802.3af                              |
| 802dot3af_and_legacy                 | Set PD detection mode in 802.3af and legacy                   |
| 802dot3at                            | Set PD detection mode in 802.3at                              |
| 802dot3at_and_legacy                 | Set PD detection mode in 802.3at and legacy                   |
| ip-phone                             | Configure IP phone automatic settings for PoE                 |
| poe-limit <3-32>                     | Set IP phone automatic PoE limit                              |
| poe-pd-detect-type                   | Set PD detection type                                         |
| poe-power-usage-threshold <1-99>     | Set power usage threshold in percentage                       |
| poe-power-usage-threshold unit <1-8> | Set power usage threshold of an unit in stack                 |
| poe-priority {critical   high   low} | Set IP phone automatic PoE priority to critical, high, or low |
| unit <1-8>                           | Set PD detection mode of an unit in stack                     |

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## poe poe-limit (for PoE+ units)

Sets the power limit for channels.

### Syntax

- poe poe-limit [port <portlist>] <3-32>

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

| Parameter       | Description               |
|-----------------|---------------------------|
| <3-32>          | Power limit in watt       |
| port <portlist> | Select port for operation |

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## poe poe-limit (for PoE units)

Sets the power limit for channels.

### Syntax

- poe poe-limit [port <portlist>] <3-16>

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

| Parameter       | Description               |
|-----------------|---------------------------|
| <3-16>          | Power limit in watt       |
| port <portlist> | Select port for operation |

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## poe poe-priority

Sets the port power priority.

### Syntax

- poe poe-priority [port <portlist>] {critical | high | low}

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

| Parameter               | Description                   |
|-------------------------|-------------------------------|
| {low   high   critical} | The PoE priority for the port |
| port <portlist>         | The ports to set priority for |

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## poe poe-shutdown

Disables PoE to a port.

### Syntax

- poe poe-shutdown [port <portlist>]
- no poe-shutdown [port <portlist>]

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

| Parameter       | Description   |
|-----------------|---------------|
| port <portlist> | List of ports |

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## port-mirroring

Changes port mirroring configuration.

### Syntax

- port-mirroring {[<1-4>] [allow-traffic] [mode] {disable | adst monitor-port <LINE> mirror-MAC-A <H.H.H> | Asrc monitor-port <LINE> mirror-MAC-A <H.H.H> | AsrcBdst monitor-port <LINE> mirror-MAC-A <H.H.H> mirror-MAC-B <H.H.H> | AsrcBdstOrBsrcAdst monitor-port <LINE> mirror-MAC-A <H.H.H> mirror-MAC-B <H.H.H> | AsrcOrAdst monitor-port <LINE> mirror-MAC-A <H.H.H> | ManyToOneRx monitor-port <LINE> mirror-ports <LINE> | ManyToOneRxTx monitor-port <LINE> mirror-ports <LINE> | ManyToOneTx monitor-port <LINE> mirror-ports <LINE> | Xrx monitor-port <LINE> mirror-port-X <LINE> | XrxOrXtx monitor-port <LINE> mirror-port-X <LINE> | XrxOrYtx monitor-port <LINE> mirror-port-X <LINE> mirror-port-Y <LINE> | XrxYtx monitor port <LINE> mirror-port-X <LINE> mirror-port-Y <LINE> | XrxYtxOrYrxXtx monitor-port <LINE> mirror-port-X <LINE> mirror-port-Y <LINE> | Xtx monitor-port <LINE> mirror-port-X <LINE>} [rspan-vlan <2-4094>]}
- port-mirroring rspan {[<1-4>] [destination-port <LINE>] [vlan <2-4094>]}
- no port-mirroring {<1-4> | rspan <1-4>}

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter               | Description                                                                                                                                |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <1-4>                   | instance number 1...4 (default 1)                                                                                                          |
| Adst                    | Mirror packets with destination MAC address A                                                                                              |
| allow-traffic           | Allow traffic for monitor port                                                                                                             |
| Asrc                    | Mirror packets with source MAC address A                                                                                                   |
| AsrcBdst                | Mirror packets with source MAC address A and destination MAC address B                                                                     |
| AsrcBdstOrBsrcAdst      | Mirror packets with source MAC address A and destination MAC address B, or packets with source MAC address B and destination MAC address A |
| AsrcOrAdst              | Mirror packets with source or destination MAC address A                                                                                    |
| destination-port <LINE> | Specify RSPAN destination port                                                                                                             |
| disable                 | Disable port mirroring                                                                                                                     |
| ManyToOneRx             | Many to one port mirroring ingress traffic                                                                                                 |
| ManyToOneRxTx           | Many to one port mirroring ingress & egress traffic                                                                                        |
| ManyToOneTx             | Many to one port mirroring egress traffic                                                                                                  |
| mirror-MAC-A <H.H.H>    | Set mirroring MAC address A (i.e. H.H.H or xx:xx:xx:xx:xx:xx or xx.xx.xx.xx.xx.xx or xx-xx-xx-xx-xx-xx)                                    |
| mirror-MAC-B <H.H.H>    | Set mirroring MAC address B (i.e. H.H.H or xx:xx:xx:xx:xx:xx or xx.xx.xx.xx.xx.xx or xx-xx-xx-xx-xx-xx)                                    |
| mode                    | Set port mirroring mode                                                                                                                    |

|                        |                                                                                                                      |
|------------------------|----------------------------------------------------------------------------------------------------------------------|
| monitor-port<br><LINE> | Set port mirroring monitor port                                                                                      |
| rspan <1-4>            | Configure RSPAN settings                                                                                             |
| rspan-vlan <2-4094>    | Specify RSPAN VLAN                                                                                                   |
| Xrx                    | Mirror packets received on port X                                                                                    |
| XrxOrXtx               | Mirror packets received or transmitted on port X                                                                     |
| XrxOrYtx               | Mirror packets received on port X or transmitted on port Y                                                           |
| XrxYtx                 | Mirror packets received on port X and transmitted on port Y                                                          |
| XrxYtxOrYrxXtx         | Mirror packets received on port X and transmitted on port Y, or packets received on port Y and transmitted on port X |
| Xtx                    | Mirror packets transmitted on port X                                                                                 |



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## preference

Enables verification that the advertised preference is greater or less than the specified limit, depending on the configuration.

### Syntax

- `preference {min limit <0-255>|max limit <0-255>}`
- `default preference {min limit |max limit}`

### Default

None

### Command mode

DHCP Guard Configuration

### Command parameters

| Parameter                            | Description                                                                                                                                                     |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>max limit &lt;0-255&gt;</code> | Enables the verification that the advertised preference in the preference option is less than the specified limit. If not specified, this check is bypassed.    |
| <code>min limit &lt;0-255&gt;</code> | Enables the verification that the advertised preference in the preference option is greater than the specified limit. If not specified, this check is bypassed. |

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## psnp-interval

Configures the Partial Sequence Number Packet (PSNP) in seconds.

### Syntax

- `psnp-interval <1-120>`
- `no psnp-interval`
- `default psnp-interval`

### Default

None

### Command mode

ISIS Router Configuration

### Command parameters

| Parameter | Description                                                                                                                                                                                                                                                                                                                                               |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <1-120>   | Specifies the PSNP interval in seconds. This is a system level parameter that applies for level 1 PSNP generation on all interfaces. A longer interval reduces overhead, while a shorter interval speeds up convergence. The default value is 2. Use the <code>no</code> or <code>default</code> options to set this parameter to the default value of 2. |

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## qos acl-assign

Creates access-list assignment.

### Syntax

- qos acl-assign {<1-55000> enable | <port> <LINE> acl-type [ip | l2] <name> <WORD>}
- no qos acl-assign {<1 - 55000> enable| [<port> <LINE> acl-type [ip | l2] <name> <WORD>}

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter          | Description                                 |
|--------------------|---------------------------------------------|
| <1-55000>          | Access-list assignment ID                   |
| <name>             | Specify the access-list to reference        |
| <WORD>             | 1..16 character string                      |
| acl-type [ip   l2] | Specify the access-list type (ip,l2)        |
| port               | Specify the port(s) to apply access-list on |

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## qos action

Creates base actions entry.

### Syntax

- `qos action <10-55000> {[name <WORD>] [drop-action <enable | disable | deferred-pass>] [update-dscp <0-63>] [update-lp {<0-7> | copy priority| use-egress| use-tos-prec}] [set-drop-prec <low-drop | high-drop>] [action-ext <1-55000> | action-ext-name <WORD>] [session-id <1-4294967295>]}`
- `no qos action [<10-55000>]`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                                                     | Description                                                                                                                                                                                                                                                                                                                               |
|---------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <10-55000>                                                    | Specify the Action ID.                                                                                                                                                                                                                                                                                                                    |
| action-ext <1-55000>                                          | Specify the action extension id.                                                                                                                                                                                                                                                                                                          |
| action-ext-name <WORD>                                        | Specify the action extension name.                                                                                                                                                                                                                                                                                                        |
| drop-action <enable   disable   deferred-pass>                | Specify the drop action.                                                                                                                                                                                                                                                                                                                  |
| name <WORD>                                                   | Specify the action label.                                                                                                                                                                                                                                                                                                                 |
| session-id <1-4294967295>                                     | Specify the session ID.                                                                                                                                                                                                                                                                                                                   |
| set-drop-prec {<0-7>   use-tos-prec   use-egress}             | Specifies the set drop precedence.                                                                                                                                                                                                                                                                                                        |
| update-lp {<0-7>   copy-priority   use-tos-prec   use-egress} | Specifies the update user priority. <0-7> specifies the range of the 802.1p user priority. Copy priority specifies for the device to copy the priority from the VLAN tag. Use-egress assigns the value based on the DSCP-to-user priority map. Use-tos-prec assigns the value based on the value of the precedence bits in the TOS field. |
| update-dscp <0-63>                                            | Specifies the update DSCP.                                                                                                                                                                                                                                                                                                                |

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## qos agent aq-mode

Modifies the Auto QOS application traffic processing mode.

### Syntax

- `qos agent aq-mode {disable | mixed | pure}`
- `default qos agent aq-mode`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter            | Description                                                                                 |
|----------------------|---------------------------------------------------------------------------------------------|
| <code>disable</code> | Auto QOS application traffic processing disabled on all ports.                              |
| <code>mixed</code>   | Auto QOS application traffic processing enabled on all ports with egress DSCP remapping.    |
| <code>pure</code>    | Auto QOS application traffic processing enabled on all ports without egress DSCP remapping. |

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## qos agent buffer

Modifies the QoS resource buffer allocation.

### Syntax

- qos agent buffer {large | maximum | regular}
- default qos agent buffer

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter | Description                         |
|-----------|-------------------------------------|
| large     | Medium amount of resource sharing.  |
| maximum   | Maximum amount of resource sharing. |
| regular   | Minimum amount of resource sharing. |

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## qos agent nvram-delay

Modifies the maximum time in seconds to write config data to non-volatile storage.

### Syntax

- `qos agent nvram-delay <0-604800>`
- `default qos agent nvram-delay`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter  | Description                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------------------|
| <0-604800> | The maximum amount of time in seconds before non-volatile QoS configuration is written to non-volatile storage. |

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## qos agent oper-mode

Enables the QoS operational mode.

### Syntax

- `qos agent oper-mode enable`
- `no qos agent oper-mode enable`
- `default qos agent [oper-mode]`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter | Description          |
|-----------|----------------------|
| enable    | QoS enabled globally |



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## qos agent queue-set

Modifies the default QoS CoS queue set.

### Syntax

- `qos agent queue-set <1-8>`
- `default qos agent queue-set`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter | Description     |
|-----------|-----------------|
| <1-8>     | queue set value |

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## qos agent reset-default

Resets the QoS to its configuration default.

### Syntax

- `qos agent reset-default`

### Default

None

### Command mode

Global Configuration

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## qos agent reset-partial-default

Resets the QoS to its partial configuration default.

### Syntax

- `qos agent reset-partial-default`

### Default

None

### Command mode

Global Configuration

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## qos agent statistics-tracking

Modifies the QoS default statistics tracking.

### Syntax

- qos agent statistics-tracking {aggregate | disable | individual}
- default qos agent statistics-tracking

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter  | Description                                                                                               |
|------------|-----------------------------------------------------------------------------------------------------------|
| aggregate  | Allocate a single statistics counter to track data for all classifier of the QoS policy being created     |
| disable    | No statistics tracking for QoS policy being created                                                       |
| individual | Allocate individual statistics counters to track data for each classifier of the QoS policy being created |

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## qos agent ubp

Modifies the QoS UBP support level.

### Syntax

- qos agent ubp {disable | high-security-local | low-security-local}
- default qos agent ubp

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter           | Description                                                                                                                         |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| disable             | QoS Agent ignore user information forwarded by other applications (i.e. EAP)                                                        |
| high-security-local | QoS Agent internal database to be searched for user-specific classification data forwarded by other applications with high security |
| low-security-local  | QoS Agent internal database to be searched for user-specific classification data forwarded by other applications with low security  |

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## qos classifier

Creates classifier set entry.

### Syntax

- qos classifier <1-55000> set-id <1-55000> [name <WORD>] element-type {ip | l2 | system} element-id <1-55000> [session id <1-4294967295>]
- no qos classifier <1-55000>

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                       | Description                                          |
|---------------------------------|------------------------------------------------------|
| <1-55000>                       | Specify the classifier ID                            |
| element-id <1-55000>            | Specify the IP classifier element ID                 |
| element-type {ip   l2   system} | Specify the classifier element type (IP, L2, System) |
| name <WORD>                     | Specify the classifier name                          |
| session id <1-4294967295>       | Specify the session ID                               |
| set-id <1-55000>                | Specify the classifier set ID                        |

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## qos classifier-block

Creates classifier block entry.

### Syntax

- `qos classifier-block <1-55000> block-number <1-55000> [name <WORD>]{set-id <1-55000> | set-name <WORD>} [{in-profile-action <1-55000> | in-profile-action-name <WORD>} | {meter <1-55000> | meter-name <WORD>}] [session-id <1-4294967295>] [eval-order]`
- `no qos classifier-block <1-55000>`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                                        | Description                                                                           |
|--------------------------------------------------|---------------------------------------------------------------------------------------|
| <code>&lt;1-55000&gt;</code>                     | Specify the classifier block ID                                                       |
| <code>block-number &lt;1-55000&gt;</code>        | Specify the classifier block number                                                   |
| <code>eval-order</code>                          | Specify the block entry evaluation order                                              |
| <code>in-profile-action &lt;1-55000&gt;</code>   | Specify the in-profile action ID to be linked to the classifier entry of this block   |
| <code>in-profile-action-name &lt;WORD&gt;</code> | Specify the in-profile action name to be linked to the classifier entry of this block |
| <code>meter &lt;1-55000&gt;</code>               | Specify the meter ID to be linked to the classifier entry of this block               |
| <code>meter-name &lt;WORD&gt;</code>             | Specify the meter name to be linked to the classifier entry of this block             |
| <code>name &lt;WORD&gt;</code>                   | Specify the classifier block name                                                     |
| <code>session-id &lt;1-4294967295&gt;</code>     | Specify the session ID                                                                |
| <code>set-id &lt;1-55000&gt;</code>              | Specify the classifier set ID to be linked to the block                               |
| <code>set-name &lt;WORD&gt;</code>               | Specify the classifier set name to be linked to block                                 |

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## qos clear-queue-stats

Clears all Quality of Service (QoS) queue statistics.

### Syntax

- `qos clear-queue-stats {port <LINE>|queue <1-8>}`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                      | Description                               |
|--------------------------------|-------------------------------------------|
| <code>port &lt;LINE&gt;</code> | Clears statistics on the specified port.  |
| <code>queue &lt;1-8&gt;</code> | Clears statistics on the specified queue. |

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## qos clear-stats

Clears all QoS statistic counters.

### Syntax

- `qos clear-stats`

### Default

None

### Command mode

Global Configuration

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## qos egressmap

Configures the DSCP to 802.1p priority and drop precedence associations.

### Syntax

- qos egressmap [name <WORD>] [ds <0-63>] [lp <0-7>] [dp <low-drop | high-drop>] [ds-new <0-63>]
- default qos egressmap [ds <0-63>]

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter     | Description                                                                       |
|---------------|-----------------------------------------------------------------------------------|
| lp <0-7>      | Specify the 802.1p priority associated with the target DSCP                       |
| dp high-drop  | Higher probability of being dropped when congestion is encountered                |
| dp low-drop   | Lower probability of being dropped when congestion is encountered                 |
| ds <0-63>     | Specify the DSCP value used as lookup key for 802.1p priority and drop precedence |
| ds-new <0-63> | Specify the new DSCP associated with the target DSCP                              |
| name <WORD>   | Specify label for the egress mapping                                              |

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## qos if-action-extension

Creates interface actions extension entry.

### Syntax

- `qos if-action-extension <1-55000> [name <WORD>] {egress-ucast <LIST> | egress-non-ucast <LINE>} [session-id <1-4294967295>]`
- `no qos if-action-extension <1-55000>`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                                    | Description                                                                                      |
|----------------------------------------------|--------------------------------------------------------------------------------------------------|
| <code>&lt;1-55000&gt;</code>                 | Specify the Interface Action ID                                                                  |
| <code>egress-non-ucast &lt;LINE&gt;</code>   | Specify redirection of broadcast, multicast, and unknown unicast (floods) to specified interface |
| <code>egress-ucast &lt;LIST&gt;</code>       | Specify redirection of known unicast packets to specified interface                              |
| <code>name &lt;WORD&gt;</code>               | Specify Interface Action label                                                                   |
| <code>session-id &lt;1-4294967295&gt;</code> | Specify the session ID                                                                           |

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## qos if-assign (Ethernet Interface Configuration)

Adds ports to an interface group.

### Syntax

- qos if-assign [port <portlist>] name [<WORD>]
- no qos if-assign [port <portlist>] name [<WORD>]

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

| Parameter       | Description                               |
|-----------------|-------------------------------------------|
| name <WORD>     | Specify name of interface group           |
| port <portlist> | Enter the ports to add to interface group |

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## qos if-assign (Global Configuration)

Adds interfaces to interface groups.

### Syntax

- qos if-assign [port <LINE>] [name <WORD>]
- no qos if-assign [port <LINE>]

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter   | Description                     |
|-------------|---------------------------------|
| name <WORD> | Specify name of interface group |
| port <LINE> | Specify list of ports           |

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## qos if-group

Creates interface group.

### Syntax

- `qos if-group name <WORD> class {trusted | untrusted | unrestricted | untrustedbasic | untrustedv4v6}`
- `no qos if-group name <WORD>`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                      | Description                                                                                                                                                                                                                                                                                           |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>class</code>             | Specify class of traffic received on interfaces associated with this interface group                                                                                                                                                                                                                  |
| <code>name &lt;WORD&gt;</code> | Specify name of interface group                                                                                                                                                                                                                                                                       |
| <code>trusted</code>           | Traffic received on the associated interfaces are assumed to be trusted (i.e. trusted ports are usually connected to the core network; 802.1p remarked based on DSCP by default)                                                                                                                      |
| <code>unrestricted</code>      | Traffic received on the associated interfaces may have unrestricted treatment applied (i.e. unrestricted ports can be either access links or connected to the core network; no default processing is applied)                                                                                         |
| <code>untrusted</code>         | IPv4 traffic received on the associated interfaces are assumed to be untrusted (i.e. untrusted ports are typically access links that are connected to end stations; DSCP and 802.1p remarked by default)                                                                                              |
| <code>untrustedbasic</code>    | IPv4 and IPv6 traffic received on the associated interfaces are assumed to be untrusted (i.e. untrusted ports are typically access links that are connected to end stations; DSCP and 802.1p remarked by default). Tagged and untagged traffic are treated the same for minimum resource consumption. |
| <code>untrustedv4v6</code>     | IPv4 and IPv6 traffic received on the associated interfaces are assumed to be untrusted (i.e. untrusted ports are typically access links that are connected to end stations; DSCP and 802.1p remarked by default)                                                                                     |

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## qos if-queue-shaper

Creates an egress queue shaper for one or more interfaces.

### Syntax

- `qos if-queue-shaper [port <portlist>] [queue <1-8>] [name <WORD>] shape-rate <0-10230000> shape-min-rate <0-10230000>`
- `no qos if-queue-shaper [port <portlist>] [queue <1-8>]`

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

| Parameter                                      | Description                                                                                                                                                                         |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>name &lt;WORD&gt;</code>                 | Specifies an alphanumeric label used to identify the QoS interface queue shaper. Value is a character string ranging from 1–16 characters in length.                                |
| <code>port &lt;portlist&gt;</code>             | Specifies the port or list of ports for which to apply egress queue shaping                                                                                                         |
| <code>queue &lt;1-8&gt;</code>                 | Specifies the queue for the selected interface port or ports, on which traffic is shaped. The range of available values is determined by the OoS agent default queue configuration. |
| <code>shape-min-rate &lt;0-10230000&gt;</code> | Specifies the minimum QoS interface queue shaping rate, in kilobits per second (Kbps). Values range from 0 to 10230000 Kbps.                                                        |
| <code>shape-rate &lt;0-10230000&gt;</code>     | Specifies the QoS interface queue shaping rate, in kilobits per second (Kbps). Values range from 0 to 10230000 Kbps                                                                 |

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## qos if-shaper

Configures the interface shaping parameters for a set of ports.

### Syntax

- `qos if-shaper [name <WORD>] [port <portlist>] [shape-rate <64-10230000>] [burst-size <burst-size>] [max-burst-rate <64-4294967295>] [max-burst-duration <1-4294967295>]`
- `no qos if-shaper [name <WORD>] [port <portlist>] [shape-rate <64-10230000>] [burst-size <burst-size>] [max-burst-rate <64-4294967295>] [max-burst-duration <1-4294967295>]`

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

| Parameter                                            | Description                                                                                                            |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <code>burst-size &lt;burst-size&gt;</code>           | Committed burst size in Kilobytes. The value range is: 4, 8, 16, 32, 64, 128, 256, 512, 1024, 2048, 4096, 8192, 16384. |
| <code>max-burst-duration &lt;1-4294967295&gt;</code> | Maximum burst duration in milliseconds; range is 1–4294967295 ms                                                       |
| <code>max-burst-rate &lt;64-4294967295&gt;</code>    | Maximum burst rate in kilobits/sec; range is 64-4294967295Kbits/sec                                                    |
| <code>name &lt;WORD&gt;</code>                       | Specify name for if-shaper; maximum is 16 alphanumeric characters                                                      |
| <code>port &lt;portlist&gt;</code>                   | Specify the port or list of ports for which to apply egress shaping                                                    |
| <code>shape-rate &lt;64-10230000&gt;</code>          | Shaping rate in kilobits/sec; range is 64-10230000 kilobits/sec                                                        |



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## qos ingressmap

Configures the 802.1p to DSCP associations.

### Syntax

- `qos ingressmap {[name <WORD>][lp <0-7> ds <0-63>]}`
- `default qos ingressmap`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                      | Description                                                                        |
|--------------------------------|------------------------------------------------------------------------------------|
| <code>lp &lt;0-7&gt;</code>    | Specify the 802.1p user priority used as lookup key for DSCP assignment at ingress |
| <code>ds &lt;0-63&gt;</code>   | Specify the DSCP value associated with the target 802.1p priority                  |
| <code>name &lt;WORD&gt;</code> | Specify label for the ingress mapping                                              |

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## qos ip-acl

Creates IP access-list element.

### Syntax

- `qos ip-acl name <WORD> {[addr-type <ipv4 | ipv6>] [src-ip {A.B.C.D}/<0-32>] [dst-ip {A.B.C.D}/<0-32>] [ds-field <0-63>] [protocol <0-255>] [next_header <0-255>] [flow-id <0x0-0xffffffff>] [src-port-min <0-65535> src-port-max <0-65535>] [dst-port-min <0-65535> dst-port-max <0-65535>] [drop-action {enable | disable}] [update-dscp <0 - 63>] [update-lp <0 - 7>] [set-drop-prec {high drop | low drop}] [block <WORD>]`
- `no qos ip-acl {<1-55000> | all}`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                                         | Description                                                                   |
|---------------------------------------------------|-------------------------------------------------------------------------------|
| <code>addr-type &lt;ipv4   ipv6&gt;</code>        | Specify the address type (IPv4, IPv6) classifier criteria                     |
| <code>block &lt;WORD&gt;</code>                   | Specify the label to identify access-list elements that are of the same block |
| <code>drop-action {enable   disable}</code>       | Specify the drop action                                                       |
| <code>ds-field &lt;0-63&gt;</code>                | Specify the DSCP classifier criteria                                          |
| <code>dst-ip {A.B.C.D}/&lt;0-32&gt;</code>        | Specify the destination IP classifier criteria                                |
| <code>dst-port-max &lt;0-65535&gt;</code>         | Specify the L4 destination port maximum value filter criteria                 |
| <code>dst-port-min &lt;0-65535&gt;</code>         | Specify the L4 destination port minimum value classifier criteria             |
| <code>flow-id 0x0-0xffffffff</code>               | Specify the IPv6 flow identifier classifier criteria                          |
| <code>name &lt;WORD&gt;</code>                    | Specify the label used to reference the access-list element                   |
| <code>next_header &lt;0-255&gt;</code>            | Specify the IPv6 next header classifier criteria                              |
| <code>protocol &lt;0-255&gt;</code>               | Specify the IPv4 protocol classifier criteria                                 |
| <code>set-drop-prec {high drop   low drop}</code> | Specify the set drop precedence                                               |
| <code>src-ip {A.B.C.D}/&lt;0-32&gt;</code>        | Specify the source IP classifier criteria                                     |
| <code>src-port-max &lt;0-65535&gt;</code>         | Specify the L4 source port maximum value filter criteria                      |
| <code>src-port-min &lt;0-65535&gt;</code>         | Specify the L4 source port minimum value classifier criteria                  |
| <code>update-lp &lt;0 - 7&gt;</code>              | Specify the update user priority                                              |
| <code>update-dscp &lt;0 - 63&gt;</code>           | Specify the update DSCP                                                       |

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## qos ip-element

Creates IP classifier element entry.

### Syntax

- `qos ip-element <1-55000> [addr-type <ipv4 | ipv6>] [ds-field <0-63>] [dst-ip {A.B.C.D}/<0-32>] [dstport-min <0-65535> dst-port-max <0-65535>] [flow-id <0x00-0xffff>] [ip-flag <LINE>] [ipv4-option <no-opt|with-opt>] [name <WORD>] [next-header <0-255>] [protocol <0-255>] [src-ip {A.B.C.D}/<0-32>] [src-port-min <0-65535> src-port-max <0-65535>] [tcp-control <a|f|p|r|s|u>] [session-id <1-4294967295>]`
- `no qos ip-element <1-55000>`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                                        | Description                                                       |
|--------------------------------------------------|-------------------------------------------------------------------|
| <code>addr-type &lt;ipv4   ipv6&gt;</code>       | Specify the address type (IPv4, IPv6) classifier criteria         |
| <code>ds-field &lt;0-63&gt;</code>               | Specify the DSCP classifier criteria                              |
| <code>dst-ip {A.B.C.D}/&lt;0-32&gt;</code>       | Specify the destination IP classifier criteria                    |
| <code>dst-port-max &lt;0-65535&gt;</code>        | Specify the L4 destination port maximum value filter criteria     |
| <code>dst-port-min &lt;0-65535&gt;</code>        | Specify the L4 destination port minimum value classifier criteria |
| <code>flow-id &lt;0x00-0xffff&gt;</code>         | Specify the IPv6 flow identifier classifier criteria              |
| <code>ip-flag &lt;LINE&gt;</code>                | Specify the IP fragment flag criteria                             |
| <code>ipv4-option &lt;no-opt with-opt&gt;</code> | Specify the IPv4 option criteria                                  |
| <code>name &lt;WORD&gt;</code>                   | Specify name of ip-element                                        |
| <code>next-header &lt;0-255&gt;</code>           | Specify the IPv6 next header classifier criteria                  |
| <code>protocol &lt;0-255&gt;</code>              | Specify the IPv4 protocol classifier criteria                     |
| <code>session-id &lt;1-4294967295&gt;</code>     | Specify the session ID                                            |
| <code>src-ip {A.B.C.D}/&lt;0-32&gt;</code>       | Specify the source IP classifier criteria                         |
| <code>src-port-max &lt;0-65535&gt;</code>        | Specify the L4 source port maximum value filter criteria          |
| <code>src-port-min &lt;0-65535&gt;</code>        | Specify the L4 source port minimum value classifier criteria      |
| <code>tcp-control &lt;a f p r s u&gt;</code>     | Specify the TCP control criteria                                  |

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## qos l2-acl

Creates L2 access-list element.

### Syntax

- qos l2-acl name <WORD> [src-mac <H.H.H>] [src-mac-mask <H.H.H>] [dst-mac <H.H.H>] [dst-mac-mask <H.H.H>] [vlan-min <1-4094> vlan-max <1-4094>][vlan-tag <tagged | untagged>] [ethertype <0x0-0xFFFF>] [priority <0-7>| All] [drop-action {enable | disable}] [update-dscp <0-63>] [update-lp <0-7>] [set-drop-prec {high-drop | low-drop}] [block <WORD>]
- no qos l2-acl {<1-55000> | all}

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                            | Description                                                                   |
|--------------------------------------|-------------------------------------------------------------------------------|
| block <WORD>                         | Specify the label to identify access-list elements that are of the same block |
| drop-action {enable   disable}       | Specify the drop action                                                       |
| dst-mac <H.H.H>                      | Specify the destination MAC classifier criteria                               |
| dst-mac-mask <H.H.H>                 | Specify the destination MAC mask classifier criteria                          |
| ethertype <0x0-0xFFFF>               | Specify the ethertype classifier criteria                                     |
| priority <0-7>  All                  | Specify the user priority classifier criteria                                 |
| set-drop-prec {high drop   low drop} | Specify the set drop precedence                                               |
| src-mac <H.H.H>                      | Specify the source MAC classifier criteria                                    |
| src-mac-mask <H.H.H>                 | Specify the source MAC mask classifier criteria                               |
| update-lp <0-7>                      | Specify the update user priority                                              |
| update-dscp <0-63>                   | Specify the update DSCP                                                       |
| vlan-min <1-4094> vlan-max <1-4094>  | Specify the Vlan ID minimum and maximum value classifier criteria             |
| vlan-tag <tagged   untagged>         | Specify the vlan tag classifier criteria                                      |

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## qos l2-element

Creates L2 classifier element entry .

### Syntax

- qos l2-element <1-55000> [dst-mac <H.H.H>] [dst-mac-mask <H.H.H>] [ethertype <0x00-0xffff>] [name <WORD>] [pkttype <etherII|llc|snap>] [priority <0-7>|all] [session-id <1-4294967295>] [src-mac <H.H.H>] [src-mac-mask <H.H.H>] [vlan-min <1-4094> vlan-max <1-4094>] [vlan-tag <tagged| untagged>]
- no qos l2-element <1-55000>

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                      | Description                                                                                                     |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <1-55000>                      | Specify the L2 classifier element ID                                                                            |
| dst-mac <H.H.H>                | Specify the destination MAC classifier criteria                                                                 |
| dst-mac-mask <H.H.H>           | Specify the destination MAC mask classifier criteria                                                            |
| ethertype <0x0-0xFFFF>         | Specify the ethertype classifier criteria                                                                       |
| name <WORD>                    | Specify name of l2 element                                                                                      |
| pkt-type<br><etherII llc snap> | Specify the filter packet format ethertype encoding criteria (Ethernet II packet, or LLC packet or SNAP packet) |
| priority <0-7>  All            | Specify the user priority classifier criteria                                                                   |
| session-id <1-4294967295>      | Specify the session ID                                                                                          |
| src-mac <H.H.H>                | Specify the source MAC classifier criteria                                                                      |
| src-mac-mask <H.H.H>           | Specify the source MAC mask classifier criteria                                                                 |
| vlan-min <1-4094>              | Specify the Vlan ID minimum value classifier criteria                                                           |
| vlan-max <1-4094>              |                                                                                                                 |
| vlan-tag <tagged   untagged>   | Specify the vlan tag classifier criteria                                                                        |

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## qos meter

Creates meter entry.

### Syntax

- ```
qos meter <1-5000> [name <WORD>] [committed-rate <64-10230000>] [burst-size <1024 | 128 | 16 | 16384 | 2048 | 256 | 32 | 4 | 4096 | 512 | 64 | 8 | 8192>] [max-burst-rate <64-4294967295>] [max-burst-duration <1-4294967295>] {inprofile-action <1-55000> | in-profile-action-name <WORD>} {outprofile-action <1,9-55000> | out-profile-action-name <WORD>} [session-id <1-4294967295>]
```
- ```
no qos meter <1-55000>
```

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                                                                               | Description                              |
|-----------------------------------------------------------------------------------------|------------------------------------------|
| <1-5000>                                                                                | Specify the meter ID                     |
| burst-size <1024   128   16   16384   2048   256   32   4   4096   512   64   8   8192> | Specify the burst size in KBytes         |
| committed-rate <64-10230000>                                                            | Specify the committed rate value         |
| in-profile-action <1-55000>                                                             | Specify the in-profile action ID         |
| in-profile-action-name <WORD>                                                           | Specify the in-profile action name       |
| max-burst-duration<64-4294967295>                                                       | Specify the maximum burst duration value |
| max-burst-rate <64-4294967295>                                                          | Specify the maximum burst rate value     |
| name <WORD>                                                                             | Specify the meter label                  |
| out-profile-action <1,9-55000>                                                          | Specify the out-profile action ID        |
| out-profile-action-name <WORD>                                                          | Specify the out-profile action name      |
| session-id <1-4294967295>                                                               | Specify the session ID                   |

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## qos policy

Creates the Quality of Service (QoS) policy entry.

### Syntax

- qos policy <1-55000> [enable] [name <WORD>] [port <LINE>] [if-group <WORD> clfr-type {classifier | block} {clfr-id <1-55000> | clfr-name <WORD>}{in-profile-action <1-55000> | in-profile-action-name <WORD>} | meter <1-55000> | meter-name <WORD>} precedence <1-14> [track-statistics <individual | aggregate>]] [session-id <1-4294967295>]
- no qos policy <1-55000> [enable]

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                                 | Description                                                                                                     |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <1-55000>                                 | Enter an integer to specify the QoS policy. The range is 1–55000.                                               |
| aggregate                                 | Specifies that all classifiers associated with the policy will share the statistics resource.                   |
| block                                     | Associates a classifier block to the policy.                                                                    |
| classifier                                | Associates a classifier to the policy.                                                                          |
| clfr-id <1-55000>                         | Specifies the classifier set ID or classifier block number.                                                     |
| clfr-name <NAME>                          | Specifies the classifier set name or classifier block name.                                                     |
| clfr-type                                 | Specifies the classifier type (classifier,block).                                                               |
| enable                                    | Enables the policy.                                                                                             |
| if-group <WORD>                           | Specifies the interface group to apply policy.                                                                  |
| individual                                | Specifies that each classifier associated with the policy will have its own statistics resource.                |
| in-profile-action <1-55000>               | Specifies the in-profile action ID.                                                                             |
| in-profile-action-name <WORD>             | Specifies the in-profile action name.                                                                           |
| meter <1-55000>                           | Specifies the meter ID.                                                                                         |
| meter-name <WORD>                         | Specifies the meter name.                                                                                       |
| name <WORD>                               | Specifies the policy label.                                                                                     |
| port <LINE>                               | Specifies the port to apply policy.                                                                             |
| precedence <1-14>                         | Specifies the precedence of this policy in relation to other policies associated with the same interface group. |
| session-id <1-4294967295>                 | Specifies the session ID.                                                                                       |
| track-statistics <individual   aggregate> | Specifies to track statistics on policy.                                                                        |





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## qos queue-set-assignment

Configures the 802.1p priority to queue.

### Syntax

- `qos queue-set-assignment queue-set <1-8> 1p <0-7> queue <1-8>`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                          | Description                                            |
|------------------------------------|--------------------------------------------------------|
| <code>1p &lt;0-7&gt;</code>        | Specifies the 802.1p priority value.                   |
| <code>queue &lt;1-8&gt;</code>     | Specifies the QoS queue set. Values range from 1 to 8. |
| <code>queue-set &lt;1-8&gt;</code> | Specifies the queue set ID.                            |

Avaya Ethernet Routing Switch 4000 Series Release 5.8  
NN47205-105 ACLI Commands Reference for Avaya Ethernet Routing Switch 4000 Series  
Version 02.01 June 26 2014  
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## qos system-element

Creates system classifier element entry.

### Syntax

- qos system-element <1-55000> [name <WORD>] [known-ip-mcast] [known-non-ipmcast] [non-ip] [unknown-ucast] [unknown-ip-mcast] [unknown-non-ip-mcast] [pattern-data <WORD> pattern-mask <WORD>] [pattern-format <tagged | untagged>] [pattern-ip-version <ipv4|ipv6|nonip>] [pattern-l2-format <ethernetII|llc|snap>] [session-id <1-4294967295>]
- no qos system-element <1-55000>

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                               | Description                                                             |
|-----------------------------------------|-------------------------------------------------------------------------|
| <1-55000>                               | Specify the system classifier element ID                                |
| known-ip-mcast                          | Match frames containing a known IP multicast destination address        |
| known-non-ip-mcast                      | Match frames containing a known non-IP multicast destination address    |
| name <WORD>                             | Specify name of system element                                          |
| non-ip                                  | Match non-IP frames                                                     |
| pattern-data <WORD>                     | Match frames with a specific data pattern                               |
| pattern-format <tagged   untagged>      | Specify the format of the pattern data/mask                             |
| pattern-ip-version <ipv4 ipv6 nonip>    | Specify the IP version of the pattern data/mask                         |
| pattern-l2-format <ethernetII llc snap> | Specify the L2 format of the pattern data/mask                          |
| pattern-mask <WORD>                     | Specifies the specific data pattern bit positions of interest           |
| session-id <1-4294967295>               | Specify the session ID                                                  |
| unknown-ip-mcast                        | Match frames containing an unknown IP multicast destination address     |
| unknown-non-ip-mcast                    | Match frames containing an unknown non-IP multicast destination address |
| unknown-ucast                           | Match frames containing an unknown unicast destination address          |



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## qos traffic-profile classifier

Creates QoS Traffic Profile classifier entry.

### Syntax

- ```
qos traffic-profile classifier name <WORD>] [addr-type {ipv4 | ipv6}] [block <WORD>]
[committed-rate <64-10230000> {[committed-burst-size] [max-burst-rate <64-4294967295>]}]
[drop-action {disable | enable}] [drop-out-action {disable | enable}] [ds-field <0-63>]
[dst-ip A.B.C.D/<0-32>] [dst-mac <H.H.H> dst-mac-mask <H.H.H>] [dst-port-min <0-65535>
dst-port-max <0-65535>] [ethertype <0x0-0xFFFF>] [eval-order <1-255>] [flow-id <0x0-
0xffff>] [ip-flag <LINE>] [ipv4-option {no-opt |with -opt}] [master] [next-header <0-
255>] [pkt-type {etherII | llc | snap}] [priority {<0-7> | all}] [protocol <0-255>] [set-
drop-prec {high-drop | low-drop}] [set-drop-prec-out-action {high-drop | low-drop}] [src-
ip <A.B.C.D/<0-32>] [src-mac <H.H.H> src-mac-mask <H.H.H>] [src-port-min <0-65535> src-
port-max <0-65535>] [tcp-control <LINE>] [update-lp {<0-7> | use-egress | use-tos-prec}]
[update-dscp <0-63>] [update-dscp-out-action <0-63>] [vlan-min <1-4094> vlan-max <1-4094>]
[vlan-tag {tagged |untagged}]
```
- ```
no qos traffic-profile classifier [name <WORD>] [eval-order <1-255>]
```

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                          | Description                                                                   |
|------------------------------------|-------------------------------------------------------------------------------|
| addr-type {ipv4   ipv6}            | Specify the address type (IPv4, IPv6) classifier criteria                     |
| block <WORD>                       | Specify the label to identify access-list elements that are of the same block |
| committed-rate 64-10230000>        | Specify the committed rate value                                              |
| drop-action {disable   enable}     | Specify the drop action                                                       |
| drop-out-action {disable   enable} | Specify the drop out-of-profile action                                        |
| ds-field <0-63>                    | Specify the DSCP classifier criteria                                          |
| dst-ip A.B.C.D/<0-32>              | Specify the destination IP classifier criteria                                |
| dst-mac <H.H.H>                    | Specify the destination MAC classifier criteria                               |
| dst-port-min <0-65535>             | Specify the L4 destination port minimum value classifier criteria             |
| ethertype <0x0-0xFFFF>             | Specify the ethertype classifier criteria                                     |
| eval-order <1-255>                 | Specify the evaluation order                                                  |
| ip-flag <LINE>                     | Specify the IP fragment flag criteria                                         |
| ipv4-option {no-opt  with -opt}    | Specify the IPv4 option criteria                                              |
| master                             | Specify as the master member of the block                                     |
| name <WORD>                        | Specify the label used to reference the Traffic Profile entry                 |
| pkt-type {etherII   llc   snap}    | Specify the filter packet format ethertype encoding                           |

|                                                 |                                                              |
|-------------------------------------------------|--------------------------------------------------------------|
| priority <0-7>   All                            | criteria                                                     |
| protocol <0-255>                                | Specify the user priority classifier criteria                |
| set-drop-prec {high-drop   low-drop}            | Specify the IPv4 protocol classifier criteria                |
| set-drop-prec-out-action {high-drop   low-drop} | Specify the set drop precedence                              |
| src-ip <A.B.C.D/<0-32>                          | Specify the set drop precedence out-of-profile action        |
| src-mac <H.H.H>                                 | Specify the source IP classifier criteria                    |
| src-port-min <0-65535>                          | Specify the source MAC classifier criteria                   |
| tcp-control <LINE>                              | Specify the L4 source port minimum value classifier criteria |
| update-lp {<0-7>   use-egress   use-tos-prec}   | Specify the TCP control criteria                             |
| update-dscp <0-63>                              | Specify the update user priority                             |
| update-dscp-out-action <0-63>                   | Specify the update DSCP                                      |
| vlan-min <1-4094>                               | Specify the remark DSCP out-of-profile action                |
| vlan-tag {tagged   untagged}                    | Specify the Vlan ID minimum value classifier criteria        |
|                                                 | Specify the vlan tag classifier criteria                     |

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## qos traffic-profile set

Creates QoS Traffic Profile set.

### Syntax

- qos traffic-profile set [port <LINE>] [name <WORD>] [enable] [meter-mode] [classifier] [individual-per-policy] [uniform-per-policy] [track-statistics {aggregate | disable | individual}] [committed-rate <64-10230000> {committed-burst-size | max-burst-rate <64-4294967295>}]
- no qos traffic-profile set [port <LINE>] [name <WORD>] [enable]

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                                           | Description                                                                                           |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| classifier                                          | A meter applied on a per-classifier basis, with derived rate and burst data                           |
| committed-burst-size                                | Specify the burst size in KBytes                                                                      |
| committed-rate <64-10230000>                        | Specify the committed rate value                                                                      |
| enable                                              | Enable QoS Traffic Profile entry                                                                      |
| individual-per-policy                               | A unique meter applied to each policy that comprises the filter set, with derived rate and burst data |
| max-burst-rate <64-4294967295>                      | Specify the maximum burst rate value                                                                  |
| meter-mode                                          | Specify the meter mode                                                                                |
| name <WORD>                                         | Specify the label used to reference the Traffic Profile entry                                         |
| port <LINE>                                         | Specify the port(s) to apply traffic profile on                                                       |
| track-statistics {aggregate   disable   individual} | Specify to track statistics on policy                                                                 |
| uniform-per-policy                                  | A unique meter applied to each policy that comprises the filter set, with uniform rate and burst data |

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## qos ubp classifier

Creates QoS UBP entries.

### Syntax

- qos ubp classifier name <WORD>] [addr-type {ipv4 | ipv6}] [block <WORD>] [drop-action {disable | enable}] [ds-field <0-63>] [dst-ip A.B.C.D/<0-32>] [dst-mac <H.H.H> dst-mac-mask <H.H.H>] [dst-port-min <0-65535> dst-port-max <0-65535>] [ethertype <0x0-0xFFFF>] [eval-order <1-255>] [ip-flag <LINE>] [ipv4-option {no-opt | with -opt}] [master] [pkt-type {etherII | llc | snap}] [priority {<0-7> | all}] [protocol <0-255>] [set-drop-prec {high-drop | low-drop}] [src-ip <A.B.C.D/<0-32>] [src-mac <H.H.H> src-mac-mask <H.H.H>] [src-port-min <0-65535> src-port-max <0-65535>] [tcp-control <LINE>] [update-1p {<0-7> | use-egress | use-tos-prec}] [update-dscp <0-63>] [vlan-min <1-4094> vlan-max <1-4094>] [vlan-tag {tagged | untagged}]
- no qos ubp [name <WORD>] [eval-order <1-255>]

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                            | Description                                                                   |
|--------------------------------------|-------------------------------------------------------------------------------|
| addr-type {ipv4   ipv6}              | Specify the address type (IPv4, IPv6) classifier criteria                     |
| block <WORD>                         | Specify the label to identify access-list elements that are of the same block |
| drop-action {disable   enable}       | Specify the drop action                                                       |
| ds-field <0-63>                      | Specify the DSCP classifier criteria                                          |
| dst-ip A.B.C.D/<0-32>                | Specify the destination IP classifier criteria                                |
| dst-mac <H.H.H>                      | Specify the destination MAC classifier criteria                               |
| dst-port-min <0-65535>               | Specify the L4 destination port minimum value classifier criteria             |
| ethertype <0x0-0xFFFF>               | Specify the ethertype classifier criteria                                     |
| eval-order <1-255>                   | Specify the evaluation order                                                  |
| ip-flag <LINE>                       | Specify the IP fragment flag criteria                                         |
| ipv4-option {no-opt   with -opt}     | Specify the IPv4 option criteria                                              |
| master                               | Specify as the master member of the block                                     |
| name <WORD>                          | Specify the label used to reference the Traffic Profile entry                 |
| pkt-type {etherII   llc   snap}      | Specify the filter packet format ethertype encoding criteria                  |
| priority <0-7>  All                  | Specify the user priority classifier criteria                                 |
| protocol <0-255>                     | Specify the IPv4 protocol classifier criteria                                 |
| set-drop-prec {high-drop   low-drop} | Specify the set drop precedence                                               |



|                                                                  |                                                              |
|------------------------------------------------------------------|--------------------------------------------------------------|
| <code>src-ip &lt;A.B.C.D/&lt;0-32&gt;</code>                     | Specify the source IP classifier criteria                    |
| <code>src-mac &lt;H.H.H&gt;</code>                               | Specify the source MAC classifier criteria                   |
| <code>src-port-min &lt;0-65535&gt;</code>                        | Specify the L4 source port minimum value classifier criteria |
| <code>tcp-control &lt;LINE&gt;</code>                            | Specify the TCP control criteria                             |
| <code>update-lp {&lt;0-7&gt;   use-egress   use-tos-prec}</code> | Specify the update user priority                             |
| <code>update-dscp &lt;0-63&gt;</code>                            | Specify the update DSCP                                      |
| <code>vlan-min &lt;1-4094&gt;</code>                             | Specify the Vlan ID minimum value classifier criteria        |
| <code>vlan-tag {tagged   untagged}</code>                        | Specify the vlan tag classifier criteria                     |

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## qos ubp set

Creates QoS UBP set.

### Syntax

- `qos ubp set [name <WORD>] [set-priority <1-255>] [track-statistics {aggregate | disable | individual}] [committed-rate <64-10230000> {committed-burst-size | max-burst-rate <64-4294967295>}]`
- `no qos ubp set [name <WORD>]`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                                                        | Description                                                    |
|------------------------------------------------------------------|----------------------------------------------------------------|
| <code>committed-burst-size</code>                                | Specify the burst size in KBytes                               |
| <code>committed-rate &lt;64-10230000&gt;</code>                  | Specify the committed rate value                               |
| <code>max-burst-rate &lt;64-4294967295&gt;</code>                | Specify the maximum burst rate value                           |
| <code>name &lt;WORD&gt;</code>                                   | Specify the label used to reference the Traffic Profile entry. |
| <code>set-priority &lt;1-255&gt;</code>                          | Specify the filter set priority                                |
| <code>track-statistics {aggregate   disable   individual}</code> | Specify to track statistics on policy                          |

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## quickconfig (Global configuration)

Enables quick config.

### Syntax

- `quickconfig enable`
- `no quickconfig enable`
- `default quickconfig`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter           | Description         |
|---------------------|---------------------|
| <code>enable</code> | Enable quick config |

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## quickconfig (Privileged Executive)

New unit quick configuration

### Syntax

- `quickconfig start-recording`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                    | Description                          |
|------------------------------|--------------------------------------|
| <code>start-recording</code> | Start recording the command template |

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## radius accounting

Configures RADIUS accounting settings.

### Syntax

- `radius accounting interim-updates [enable] [interval <60-3600>] [use-server-interval]`
- `no radius accounting interim-updates [enable] [use-server-interval]`
- `default radius accounting interim-updates [enable] [interval] [use-server-interval]`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                             | Description                                                        |
|---------------------------------------|--------------------------------------------------------------------|
| <code>enable</code>                   | Enable RADIUS Accounting Interim-Updates.                          |
| <code>interim-updates</code>          | Modify interim-updates settings.                                   |
| <code>interval &lt;60-3600&gt;</code> | Modify the timeout interval for RADIUS Accounting Interim-Updates. |
| <code>use-server-interval</code>      | Use the value given by server for the timeout interval.            |

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## radius dynamic-server

RADIUS Dynamic Authorization Client settings.

### Syntax

- radius dynamic-server {[client] {A.B.C.D} [secret] [port <1024-65535>] [enable] [process-disconnect-requests] [process-change-of-auth-requests]} | [replay-protection]
- no radius dynamic-server {[client] {A.B.C.D} [secret] [enable] [process-disconnect-requests] [process-change-of-auth-requests]} | [replay-protection]
- default radius dynamic-server {[client] {A.B.C.D} [secret] [enable] [port] [process-disconnect-requests] [process-change-of-auth-requests]} | [replay-protection]

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                       | Description                                                                                         |
|---------------------------------|-----------------------------------------------------------------------------------------------------|
| {A.B.C.D}                       | Add new RADIUS Dynamic Authorization Client or change RADIUS Dynamic Authorization Client settings. |
| client                          | Add new RADIUS Dynamic Authorization Client or change RADIUS Dynamic.                               |
| enable                          | Enable packet receive from this RADIUS Dynamic Authorization Client.                                |
| port <1024-65535>               | Set server/NAS UDP port to listen for requests from this RADIUS Dynamic Authorization Client.       |
| process-change-of-auth-requests | Enable change-of-authorization requests processing.                                                 |
| process-disconnect-requests     | Enable disconnect requests processing.                                                              |
| replay-protection               | Enable globally Radius dynamic server replay protection.                                            |
| secret                          | Set RADIUS Dynamic Authorization Client secret.                                                     |

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## radius reachability

Configure RADIUS server reachability settings.

### Syntax

- `radius reachability [bad-timer <30-600>][good-timer <30-600>][mode {use-icmp | use-radius [username <LINE>][password <LINE>]}][retry <1-5>][timeout <1-60>]`
- `default radius reachability [bad-timer][good-timer][mode][retry][timeout]`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                               | Description                                                                                                                                                                   |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>bad-timer &lt;30-600&gt;</code>   | Configures the interval between checks when the RADIUS server is unreachable.                                                                                                 |
| <code>good-timer &lt;30-600&gt;</code>  | Configures the interval between checks when the RADIUS server is reachable.                                                                                                   |
| <code>mode {use-icmp use-radius}</code> | Configures the RADIUS reachability mode as use-icmp to enable RADIUS server reachability using ICMP or use-radius to enable RADIUS server reachability using RADIUS requests. |
| <code>password &lt;LINE&gt;</code>      | Configures the RADIUS request password.                                                                                                                                       |
| <code>retry &lt;1-5&gt;</code>          | Specifies the retry attempts.                                                                                                                                                 |
| <code>timeout &lt;1-60&gt;</code>       | Specifies the timeout period in seconds.                                                                                                                                      |
| <code>username &lt;LINE&gt;</code>      | Set RADIUS request username                                                                                                                                                   |

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## radius server

Configures RADIUS server settings.

### Syntax

- radius server host {<A.B.C.D> | <WORD>} [acct-enable] [acct-port <1-65535>] [key] [port <1-65535>] [retry <1-5>] [secondary] [timeout <1-60>] [used-by {eapol | non-eapol}]
- no radius server host {<A.B.C.D> | <WORD>} [acct-enable] [secondary] [used-by {eapol | non-eapol}]
- default radius server host {<A.B.C.D> | <WORD>} [acct-enable] [acct-port] [key] [port] [retry] [secondary] [timeout] [used-by {eapol | non-eapol}]

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                   | Description                   |
|-----------------------------|-------------------------------|
| {A.B.C.D}                   | IP address of RADIUS server   |
| acct-enable                 | Enable RADIUS accounting mode |
| acct-port <1-65535>         | Radius accounting port        |
| host                        | RADIUS host                   |
| key                         | RADIUS shared secret          |
| port <1-65535>              | RADIUS UDP port               |
| retry <1-5>                 | RADIUS retry attempts         |
| secondary                   | Set as RADIUS secondary host  |
| timeout <1-60>              | RADIUS time-out period        |
| used-by {eapol   non-eapol} | Application name              |
| WORD                        | IPV6 address of RADIUS server |



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## radius-server

Configures RADIUS server password fallback.

### Syntax

- radius-server password fallback
- no radius-server password fallback
- default radius-server password fallback

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter | Description              |
|-----------|--------------------------|
| fallback  | RADIUS password fallback |
| password  | RADIUS password fallback |

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## radius use-management-ip

Enables Radius use-management-ip flag.

### Syntax

- `radius use-management-ip`
- `no radius use-management-ip`
- `default radius use-management-ip`

### Default

None

### Command mode

Global Configuration

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## rate-limit

Configures rate-limiting on the port.

### Syntax

- `rate-limit [port <portlist>] {multicast <pct> | broadcast <pct> | both <pct>}`
- `no rate-limit [port <portlist>]`
- `default rate-limit [port <portlist>]`

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

| Parameter                          | Description                                                                                                                                                                                       |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>both &lt;pct&gt;</code>      | Apply rate-limiting to both multicast and broadcast. Enter an integer from 1–10 to set the rate-limiting percentage.                                                                              |
| <code>broadcast &lt;pct&gt;</code> | Apply rate-limiting to broadcast packets. Enter an integer from 1–10 to set the rate-limiting percentage.                                                                                         |
| <code>multicast &lt;pct&gt;</code> | Apply rate-limiting to multicast packets. Enter an integer from 1–10 to set the rate-limiting percentage.                                                                                         |
| <code>port &lt;portlist&gt;</code> | Specify the port numbers to configure for rate-limiting. Enter the port numbers to configure. If you omit this parameter, the system uses the port number you specified in the interface command. |

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## redistribute

Configures OSPF route redistribution.

### Syntax

- `redistribute <route_type> [enable] [route-policy <rmap_name>] [metric <metric_value>] [metric-type <metric_type>] [subnets <subnet_setting>]`
- `no redistribute <route_type> [enable] [route-policy <rmap_name>] [metric <metric_value>] [metric-type <metric_type>] [subnets <subnet_setting>]`
- `default redistribute <route_type> [enable] [route-policy <rmap_name>] [metric <metric_value>] [metric-type <metric_type>] [subnets <subnet_setting>]`

### Default

None

### Command mode

OSPF Router Configuration

### Command parameters

| Parameter                                    | Description                                                                                                                                                               |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>&lt;route_type&gt;</code>              | Specifies the source protocol to be redistributed. Valid options are direct, rip, and static.                                                                             |
| <code>metric &lt;metric_value&gt;</code>     | Specifies the metric value to associate with the route redistribution. This is an integer value between 0 and 65535.                                                      |
| <code>metric-type &lt;metric_type&gt;</code> | Specifies the metric type to associate with the route redistribution. Valid options are type1 and type2.                                                                  |
| <code>route-policy &lt;rmap_name&gt;</code>  | Specifies the route policy to associate with route redistribution. This is the name of a previously configured route map.                                                 |
| <code>subnets &lt;subnet_setting&gt;</code>  | Specifies the subnet advertisement setting of this route redistribution. This determines whether individual subnets are advertised. Valid options are allow and suppress. |

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## reload

Reloads the switch/stack.

### Syntax

- reload {cancel | force minutes-to-wait <1-60> | minutes-to-wait <1-60>}

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter              | Description                        |
|------------------------|------------------------------------|
| cancel                 | Cancel a previous scheduled reload |
| force                  | Do not ask for confirmation        |
| minutes-to-wait <1-60> | Minutes to wait before reboot      |

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## renew

Renews DHCP lease.

### Syntax

- `renew dhcp`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description      |
|-----------|------------------|
| dhcp      | Renew DHCP lease |

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## renumber

Renumbers unit numbers in a stack.

### Syntax

- `renumber unit`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter         | Description                      |
|-------------------|----------------------------------|
| <code>unit</code> | Renumber unit numbers in a stack |

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## restore

Resets the switch/stack to factory default.

### Syntax

- `restore factory-default [-y]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                    | Description                                          |
|------------------------------|------------------------------------------------------|
| <code>factory-default</code> | Reset stack/switch to factory default configurations |
| <code>-y</code>              | Do not prompt                                        |

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## retransmit-lsp-interval

Configures the minimum time between retransmission of an LSP.

### Syntax

- `retransmit-lsp-interval <1-300>`
- `no retransmit-lsp-interval`
- `default retransmit-lsp-interval`

### Default

5

### Command mode

ISIS Router Configuration

### Command parameters

| Parameter | Description                                                                                                                                                                                                                                                                                                         |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <1-300>   | Specifies the minimum time between retransmission of an LSP. This defines how fast the switch resends the same LSP. This is a system level parameter that applies for Level1 retransmission of LSPs. The default value is 5 seconds. Use the no or default options to set this parameter to the default value of 5. |

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## rfc1583-compatibility

Configures OSPF RFC 1583 compatibility.

### Syntax

- `rfc1583-compatibility enable`
- `no rfc1583-compatibility enable`
- `default rfc1583-compatibility enable`

### Default

None

### Command mode

OSPF Router Configuration

### Command parameters

| Parameter           | Description                        |
|---------------------|------------------------------------|
| <code>enable</code> | Enable RFC-1583 compatibility mode |

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## rip

Sets the maximum number of ECMP path for "rip" protocol.

### Syntax

- `rip maximum-path <1-4>`
- `no rip maximum-path`
- `default rip maximum-path`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                             | Description                         |
|---------------------------------------|-------------------------------------|
| <code>maximum-path &lt;1-4&gt;</code> | Set the maximum number of ECMP path |

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## rmon alarm

Creates RMON Alarm entries.

### Syntax

- `rmon alarm <1-65535> <WORD> <1-2147483647> {absolute | delta} [rising-threshold <-2147483648-2147483647>] [<1-65535>] [falling-threshold <-2147483648-2147483647>] [<1-65535>] [owner <LINE>]`
- `no rmon alarm <1-65535>`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                                  | Description                      |
|--------------------------------------------|----------------------------------|
| <1-2147483647>                             | Sampling interval (seconds)      |
| <1-65535>                                  | Index of entry                   |
| <1-65535>                                  | falling event index              |
| <1-65535>                                  | rising event index               |
| <WORD>                                     | Alarm variable (OID)             |
| absolute                                   | Absolute sampling type           |
| delta                                      | Delta sampling type              |
| falling-threshold <-2147483648-2147483647> | Specify falling threshold values |
| owner <LINE>                               | Specify owner string             |
| rising-threshold <-2147483648-2147483647>  | Specify rising threshold values  |

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## rmon event

Creates RMON Event entries.

### Syntax

- `rmon event <1-65535> [log] [trap] [description <LINE>] [owner <LINE>] [community <LINE>]`
- `no rmon event <1-65535>`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                             | Description                               |
|---------------------------------------|-------------------------------------------|
| <code>&lt;1-65535&gt;</code>          | Index of entry                            |
| <code>community &lt;LINE&gt;</code>   | Specify community string                  |
| <code>description &lt;LINE&gt;</code> | Specify description of event              |
| <code>log</code>                      | Specify events should be logged           |
| <code>owner &lt;LINE&gt;</code>       | Specify owner string                      |
| <code>trap</code>                     | Specify that events should generate traps |

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## rmon history

Creates RMON History entries.

### Syntax

- `rmon history <1-65535> <LINE> <1-65535> <1-3600> [owner <LINE>]`
- `no rmon history <1-65535>`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                         | Description                 |
|-----------------------------------|-----------------------------|
| <code>&lt;1-3600&gt;</code>       | Sampling interval (seconds) |
| <code>&lt;1-65535&gt;</code>      | Index of entry              |
| <code>LINE &lt;1-65535&gt;</code> | Data source (port number)   |
| <code>owner &lt;LINE&gt;</code>   | Specify owner string        |

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## rmon stats

Creates RMON Stats entries.

### Syntax

- `rmon stats <1-65535> <LINE> [owner <LINE>]`
- `no rmon stats <1-65535>`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                       | Description               |
|---------------------------------|---------------------------|
| <code>&lt;1-65535&gt;</code>    | Index of entry            |
| <code>&lt;LINE&gt;</code>       | Data source (port number) |
| <code>owner &lt;LINE&gt;</code> | Specify owner string      |

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## route-map

Adds/modifies an IP route policymap.

### Syntax

- route-map <WORD> [permit | deny] <1-65535> [enable] [match {interface <WORD> | metric <0-65535> | network <WORD> | next-hop <WORD> | protocol <LINE> | route-source <WORD> | route-type <any | external | external-1 | external-2 | internal | local>}] [name <WORD>] [set {injectlist <WORD> | ip-preference <0-255> | mask {A.B.C.D} | metric <0-65535> | metric-type <type 1 | type 2> | nssa-pbit enable}]
- no route-map <WORD> <1-65535> [enable] [match {interface | metric | network | next-hop | protocol | route-source | route-type}] [set {injectlist | mask | metric | nssa-pbit enable}]
- default route-map <WORD> <1-65535> [enable] [match {interface | metric | network | next-hop | protocol | route-source | route-type}] [set {injectlist | ip-preference | mask | metric | metric-type | nssa-pbit enable}]

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                     | Description                                                                                                                                  |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| <1-65535>                     | Index used to identify a specific policy in the route policy group                                                                           |
| <WORD>                        | Name used to group a set of policies with different sequence number                                                                          |
| deny                          | Deny the route policy                                                                                                                        |
| enable                        | Enable route map policy                                                                                                                      |
| injectlist <WORD>             | Specifies the prefix list to be used either for injecting the routes into the routing table or to include the networks in the advertisement. |
| interface <WORD>              | Set match received interface.(Only for rip routes. Ignored in                                                                                |
| ip-preference <0-255>         | Specifies the route preference value to be assigned to the routes that this policy applies to                                                |
| mask {A.B.C.D}                | Set Mask Ip Address                                                                                                                          |
| match                         | Configure match criteria                                                                                                                     |
| metric <0-65535>              | Set match the metric field in the incoming advertisement                                                                                     |
| metric <0-65535>              | Set metric used while sending an update for the routes that match the matching criteria in this route policy                                 |
| metric-type <type 1   type 2> | Set metric type for the routes to be imported into OSPF routing protocol, which passed the matching criteria configured in this route policy |



|                                                                               |                                                              |
|-------------------------------------------------------------------------------|--------------------------------------------------------------|
| network <WORD>                                                                | Set match network (can specify one or more prefix list name) |
| next-hop <WORD>                                                               | Set the next hop (RIP interface)                             |
| nssa-pbit                                                                     | Set P bit in specified type 7 LSA                            |
| permit                                                                        | Permit the route policy                                      |
| protocol <LINE>                                                               | Set match protocol                                           |
| route-source <WORD>                                                           | Set route source (on RIP is RIP interface)                   |
| route-type <any   external  <br>external-1   external-2  <br>internal  local> | Set route type                                               |

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## router-id

Configures the router ID.

### Syntax

- router-id <router\_id>
- no router-id [<router\_id>]
- default router-id

### Default

None

### Command mode

OSPF Router Configuration

### Command parameters

| Parameter   | Description                                    |
|-------------|------------------------------------------------|
| <router_id> | Specifies the unique identifier for the router |
| no          | Resets the router ID to 0.0.0.0                |

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## router isis

Changes router ISIS mode configuration.

### Syntax

- `router isis enable`
- `no router isis enable`
- `default router isis enable`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter | Description                           |
|-----------|---------------------------------------|
| enable    | Enable router ISIS mode configuration |

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## router ospf

Changes OSPF config settings.

### Syntax

- `router ospf enable`
- `no router ospf enable`
- `default router ospf enable`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter           | Description                 |
|---------------------|-----------------------------|
| <code>enable</code> | Enable OSPF config settings |

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## router-preference maximum

Enables verification of the advertised default router-preference parameter value is lower than or equal to the specified limit.

### Syntax

- `router-preference maximum {none|high|low|medium}`
- `default router-preference maximum`

### Default

By default the value is none.

### Command mode

RA Guard Configuration

### Command parameters

| Parameter | Description                                                                        |
|-----------|------------------------------------------------------------------------------------|
| high      | Specifies the router-preference to high.                                           |
| low       | Specifies the router-preference to low.                                            |
| medium    | Specifies the router-preference to medium.                                         |
| none      | Specifies the router-preference to none, which means the verification is bypassed. |

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## router rip

Changes RIP config settings.

### Syntax

- `router rip enable`
- `no router rip enable`
- `default router rip enable`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter | Description                |
|-----------|----------------------------|
| enable    | Enable RIP config settings |

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## router vrrp

Changes VRRP config settings.

### Syntax

- `router vrrp enable`
- `no router vrrp enable`
- `default router vrrp enable`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter | Description                 |
|-----------|-----------------------------|
| enable    | Enable VRRP config settings |

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## run (Privileged Executive)

Specialized scripted CLI commands for automated configuration.

### Syntax

- `run {adac | ipoffice verbose | lldp}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                                                         |
|-----------|---------------------------------------------------------------------|
| adac      | Scripted CLI commands for ADAC setup                                |
| ipoffice  | Scripted CLI commands for setup with IP Office solutions            |
| lldp      | Scripted CLI commands for LLDP setup                                |
| verbose   | User input prompted CLI command script for IP Office solution setup |



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## run (User Executive)

Specialized scripted CLI commands for automated configuration.

### Syntax

- `run {adac | ipoffice verbose | lldp}`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter | Description                                                         |
|-----------|---------------------------------------------------------------------|
| adac      | Scripted CLI commands for ADAC setup                                |
| ipoffice  | Scripted CLI commands for setup with IP Office solutions            |
| lldp      | Scripted CLI commands for LLDP setup                                |
| verbose   | User input prompted CLI command script for IP Office solution setup |

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## save

Writes configuration to nvram.

### Syntax

- `save config`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                            |
|-----------|----------------------------------------|
| config    | Save configuration to local NV storage |

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## script run (Global configuration)

Runs an ASCII configuration script.

### Syntax

- `script run {<1-127> | tftp {[<A.B.C.D >] [<WORD>] [<filename>]} | usb [unit <1-8> <filename>]}`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter      | Description                                                                  |
|----------------|------------------------------------------------------------------------------|
| <1-127>        | Specify index in ASCII configuration script table of the script to be loaded |
| <filename>     | Specify filename                                                             |
| A.B.C.D <WORD> | Specify IPv6 address of TFTP server                                          |
| tftp           | Load script from TFTP server                                                 |
| unit <1-8>     | Specify unit number                                                          |
| usb            | Load script from USB                                                         |

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## script run (Privileged Executive)

Runs an ASCII configuration script.

### Syntax

- script run {<1-127> | {tftp {<hostname> | {A.B.C.D} | <ipv6address>} [<file-name>]} | {usb [unit <1-8>] [<file-name>]}}

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter               | Description                                                                  |
|-------------------------|------------------------------------------------------------------------------|
| <1-127>                 | Specify index in ASCII configuration script table of the script to be loaded |
| <file-name>             | Specify filename                                                             |
| <Hostname> or {A.B.C.D} | Specify hostname or IP address of TFTP server                                |
| <ipv6address>           | Specify IPv6 address of TFTP server                                          |
| tftp                    | Load script from TFTP server                                                 |
| unit <1-8>              | Specify unit number                                                          |
| usb                     | Load script from USB                                                         |

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## script upload (Global configuration)

Uploads the current ASCII configuration using an entry in the ASCII configuration script table.

### Syntax

- `script upload <1-127> [upload <1-127>] [verbose] [module] {[802.1ab] [aur] [adac] [arp-inspection] [asset-id] [banner] [brouter] [cfm] [core] [dhcp-relay] [dhcp-snooping] [eap] [energy-saver] [igmp] [interface] [ip] [ip-source-guard] [ipfix] [ipmgr] [ipv6] [l3] [l3-protocols] [lacp] [link-state] [logging] [mac-security] [mlt] [poe] [port-mirroring] [qos] [rate-limit] [rmon] [rtc] [slamon] [slpp] [snmp] [spbm] [stack] [stkmon] [stp] [vlacp] [vlan]}`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter       | Description                                                   |
|-----------------|---------------------------------------------------------------|
| 802.1ab         | Copies the 802.1ab configuration.                             |
| aur             | Copies the AAUR configuration.                                |
| adac            | Copies the ADAC configuration.                                |
| arp-inspection  | Copies the ARP Inspection configuration.                      |
| asset-id        | Copies the asset ID configuration.                            |
| aur             | Copies the AUR configuration.                                 |
| banner          | Copies the custom banner configuration.                       |
| brouter         | Copies the brouter configuration.                             |
| cfm             | Copies the Connectivity Fault Management (CFM) configuration. |
| core            | Copies the core configuration.                                |
| dhcp-relay      | Copies the DHCP Relay configuration.                          |
| dhcp-snooping   | Copies the DHCP Snooping configuration.                       |
| eap             | Copies the EAP configuration.                                 |
| energy-saver    | Copies the NES configuration.                                 |
| fa              | Copies the Fabric Attach configuration.                       |
| igmp            | Copies the IGMP configuration.                                |
| interface       | Copies the interface configuration.                           |
| ip              | Copies the IP configuration.                                  |
| ipfix           | Copies the IPFIX configuration.                               |
| ipmgr           | Copies the IP Manager configuration.                          |
| ip-source-guard | Copies the IP Source Guard configuration.                     |
| ipv6            | Copies the IPv6 configuration.                                |
| l3              | Copies the Layer 3 configuration.                             |
| l3-protocols    | Copies the Layer 3 protocols configuration.                   |

|                |                                                                |
|----------------|----------------------------------------------------------------|
| lACP           | Copies the LACP configuration.                                 |
| link-state     | Copies the Link State Tracking configuration.                  |
| logging        | Copies the System Logging configuration.                       |
| mac-security   | Copies the MAC Security configuration.                         |
| mld            | Copies the Multicast Listener Discovery (MLD) configuration.   |
| mlt            | Copies the MLT configuration.                                  |
| module         | Copies the configuration of an application.                    |
| pim            | Copies the Protocol Independent Multicast (PIM) configuration. |
| poE            | Copies the PoE configuration.                                  |
| port-mirroring | Copies the Port Mirroring configuration.                       |
| qoS            | Copies the QoS configuration.                                  |
| rate-limit     | Copies the Rate Limiting configuration.                        |
| rmon           | Copies the RMON configuration.                                 |
| rtc            | Copies the RTC configuration.                                  |
| slamon         | Copies the SLAMon configuration.                               |
| slpp           | Copies the SLPP configuration.                                 |
| snmp           | Copies the SNMP configuration.                                 |
| spbM           | Copies the SPBM configuration.                                 |
| stack          | Copies the stack configuration.                                |
| stkmon         | Copies the stack monitor configuration.                        |
| storm-control  | Copies the storm-control configuration.                        |
| stp            | Copies the STP configuration.                                  |
| verbose        | Upload both default and non-default ASCII configuration.       |
| vlACP          | Copies the VLACP configuration.                                |
| vlan           | Copies the VLAN configuration.                                 |

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## script upload (Privileged Executive)

Upload the current ASCII configuration using an entry in the ASCII configuration script table.

### Syntax

- script upload <1-127> [verbose] [module [802.1ab] [aaur] [adac] [arp-inspection] [asset-id] [aur] [banner] [brouter] [cfm] [core] [dhcp-relay] [dhcp-snooping] [eap] [energy-saver][fa] [igmp] [interface] [ip] [ip-source-guard] [ipfix] [ipmgr] [ipv6] [l3] [l3-protocols] [lacp] [link-state] [logging] [mac-security] [mld][mlt][pim] [poe] [port-mirroring] [qos] [rate-limit] [rmon] [rtc] [slamon] [slpp] [snmp] [spbm] [stack][storm-control] [stkmon] [stp] [vlacp] [vlan]

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter       | Description                                                   |
|-----------------|---------------------------------------------------------------|
| <1-127>         | Specifies index in ASCII configuration script table.          |
| 802.1ab         | Copies the 802.1ab configuration.                             |
| aaur            | Copies the AAUR configuration.                                |
| adac            | Copies the ADAC configuration.                                |
| arp-inspection  | Copies the ARP Inspection configuration.                      |
| asset-id        | Copies the Asset ID configuration.                            |
| aur             | Copies the AUR configuration.                                 |
| banner          | Copies the custom banner configuration.                       |
| brouter         | Copies the brouter configuration.                             |
| cfm             | Copies the Connectivity Fault Management (CFM) configuration. |
| core            | Copies the core configuration.                                |
| dhcp-relay      | Copies the DHCP Relay configuration.                          |
| dhcp-snooping   | Copies the DHCP Snooping configuration.                       |
| eap             | Copies the EAP configuration.                                 |
| energy-saver    | Copies the NES configuration.                                 |
| fa              | Copies the Fabric Attach (FA) configuration.                  |
| igmp            | Copies the IGMP configuration.                                |
| interface       | Copies the interface configuration.                           |
| ip              | Copies the IP configuration.                                  |
| ipfix           | Copies the IPFIX configuration.                               |
| ipmgr           | Copies the IP manager configuration.                          |
| ip-source-guard | Copies the IP Source Guard configuration.                     |
| ipv6            | Copies the IPv6 configuration.                                |
| l3              | Copies the Layer 3 configuration.                             |

|                |                                                                |
|----------------|----------------------------------------------------------------|
| l3-protocols   | Copies the Layer 3 protocols configuration.                    |
| lacp           | Copies the LACP configuration.                                 |
| logging        | Copies the System Logging configuration.                       |
| mac-security   | Copies the MAC Security configuration.                         |
| mld            | Copies the Multicast Listener Discovery (MLD) configuration.   |
| mlt            | Copies the MLT configuration.                                  |
| module         | Copies the configuration of an application.                    |
| pim            | Copies the Protocol Independent Multicast (PIM) configuration. |
| poe            | Copies the power over Ethernet (PoE) configuration.            |
| port-mirroring | Copies the Port Mirroring configuration.                       |
| qos            | Copies the Quality of Service (QoS) configuration.             |
| rate-limit     | Copies the Rate Limiting configuration.                        |
| rmon           | Copies the remote monitoring (RMON) configuration.             |
| rtc            | Copies the RTC configuration.                                  |
| slamon         | Copies the SLAMon configuration.                               |
| slpp           | Copies the SLPP configuration.                                 |
| snmp           | Copies the SNMP configuration.                                 |
| spbm           | Copies the Shortest Path Bridging MAC (SPBM) configuration.    |
| stack          | Copies the stack configuration.                                |
| stkmon         | Copies the stack monitor configuration.                        |
| storm-control  | Copies the storm control configuration.                        |
| stp            | Copies the STP configuration.                                  |
| verbose        | Upload both default and non-default ASCII configuration.       |
| vlacp          | Copies the VLACP configuration.                                |
| vlan           | Copies the VLAN configuration.                                 |



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## serial-console

Enables serial console port.

### Syntax

- `serial-console [unit <1-8>] [enable]`
- `no serial-console [unit <1-8>] [enable]`
- `default serial-console serial-console [unit <1-8>] [enable]`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                     | Description                       |
|-------------------------------|-----------------------------------|
| <code>enable</code>           | Enable serial console port access |
| <code>unit &lt;1-8&gt;</code> | Unit number                       |

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## serial-security

Serial security settings.

### Syntax

- `serial-security enable`
- `no serial-security enable`
- `default serial-security enable`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter           | Description            |
|---------------------|------------------------|
| <code>enable</code> | Enable serial security |

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## shared-port

Configures shared-port setting.

### Syntax

- `shared-port [port <portlist>] {auto-select | force-copper | force-fiber}`
- `default shared-port [port <portlist>]`

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

| Parameter                          | Description                             |
|------------------------------------|-----------------------------------------|
| <code>auto-select</code>           | Auto-select copper or fiber shared port |
| <code>force-copper</code>          | Force use of copper shared port         |
| <code>force-fiber</code>           | Force use of fiber shared port          |
| <code>port &lt;portlist&gt;</code> | Specifies a port or list of ports       |

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## show adac

Displays ADAC configuration.

### Syntax

- show adac

### Default

None

### Command mode

Privileged Executive

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## show adac detection

Displays detection mechanisms.

### Syntax

- `show adac detection interface [ethernet] <LINE>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                                                 |
|-----------|-------------------------------------------------------------|
| <LINE>    | List of ports                                               |
| Ethernet  | Ethernet IEEE 802.3                                         |
| interface | Select interfaces for which to display detection mechanisms |

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## show adac interface

Displays configuration for specified interfaces.

### Syntax

- `show adac interface [ethernet] <LINE>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description         |
|-----------|---------------------|
| <LINE>    | List of ports       |
| Ethernet  | Ethernet IEEE 802.3 |

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## show adac mac-range-table

Displays the supported MAC address ranges.

### Syntax

- `show adac mac-range-table`

### Default

None

### Command mode

Privileged Executive

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## show application (Privileged Executive)

Displays settings for various applications.

### Syntax

- `show application slamon agent`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                   |
|-----------|-------------------------------|
| agent     | Display SLAMon agent settings |
| slamon    | Display SLAMon settings       |

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## show application (User Executive)

Displays settings for various applications.

### Syntax

- `show application slamon agent`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter | Description                   |
|-----------|-------------------------------|
| agent     | Display SLAMon agent settings |
| slamon    | Display SLAMon settings       |

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## show arp (Privileged Executive)

Display ARP entries.

### Syntax

- show arp [`<A.B.C.D>`][`add-fail`][`dynamic`][`<H.H.H>`][`static`][`summary`][`-s`][`vlan <1-4094>`]

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                        | Description                                                                                                                                                       |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>{A.B.C.D}</code>           | Specifies the IP address of the ARP entry to be displayed.                                                                                                        |
| <code>&lt;H.H.H&gt;</code>       | Specifies the MAC address of the ARP entry to be displayed in one of the following formats: H.H.H or xx:xx:xx:xx:xx:xx or xx.xx.xx.xx.xx.xx or xx-xx-xx-xx-xx-xx. |
| <code>add-fail</code>            | Displays ARP entries not programmed in hardware.                                                                                                                  |
| <code>dynamic</code>             | Specifies the IP address of the ARP entry to be displayed.                                                                                                        |
| <code>-s</code>                  | Specifies the IP and subnet of the ARP entries to be displayed.                                                                                                   |
| <code>static</code>              | Includes static ARP entries without a valid route.                                                                                                                |
| <code>summary</code>             | Displays a summary of ARP entries.                                                                                                                                |
| <code>vlan &lt;1-4094&gt;</code> | Displays ARP entries for a specific VLAN.                                                                                                                         |

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## show arp-table (Privileged Executive)

Displays system ARP table.

### Syntax

- show arp-table

### Default

None

### Command mode

Privileged Executive

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## show arp-table (User Executive)

Displays system ARP table.

### Syntax

- show arp-table

### Default

None

### Command mode

User Executive

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## show arp (User Executive)

Displays ARP entries.

### Syntax

- `show arp [A.B.C.D][add-fail] [dynamic <A.B.C.D>] [<H.H.H>] [static <A.B.C.D>] [summary][ -s <subnet> <mask>] [vlan <1-4094>]`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter            | Description                                                                                                                                               |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <A.B.C.D>            | Specifies the IP address of the ARP entry to be displayed.                                                                                                |
| add-fail             | Displays ARP entries not programmed in hardware.                                                                                                          |
| dynamic<br><A.B.C.D> | Includes dynamic ARP entries without a valid route.                                                                                                       |
| H.H.H                | Specifies the MAC address of the ARP entry to be displayed. Valid formats include: H.H.H or xx:xx:xx:xx:xx:xx or xx.xx.xx.xx.xx.xx or xx-xx-xx-xx-xx-xx). |
| -s<br><subnet>       | Specifies an IP and subnet of ARP entries to be displayed.                                                                                                |
| static<br><ip-addr>  | Includes static ARP entries without a valid route.                                                                                                        |
| summary              | Displays the summary of ARP entries.                                                                                                                      |
| vlan <1-4094>        | Displays ARP entries for a specific VLAN.                                                                                                                 |

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## show audit

Displays audit settings.

### Syntax

- `show audit log {asccfg | config | serial | telnet}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                               |
|-----------|-------------------------------------------|
| asccfg    | Display audit log for ASCII configuration |
| config    | Display audit log save config             |
| log       | Display audit log                         |
| serial    | Display audit log for serial connection   |
| telnet    | Display audit log for telnet/ssh          |

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## show auto-negotiation-advertisements

Displays current auto-negotiation advertisement settings.

### Syntax

- `show auto-negotiation-advertisements port <LINE>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                 | Description                                                               |
|---------------------------|---------------------------------------------------------------------------|
| <code>&lt;LINE&gt;</code> | List of ports                                                             |
| <code>port</code>         | Display auto-negotiation-advertisements configuration for specified ports |

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## show auto-negotiation-capabilities

Displays current auto-negotiation advertisement capabilities.

### Syntax

- `show auto-negotiation-capabilities port <LINE>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                 | Description                                               |
|---------------------------|-----------------------------------------------------------|
| <code>&lt;LINE&gt;</code> | List of ports                                             |
| <code>port</code>         | Display auto-negotiation-capabilities for specified ports |

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## show auto-pvid (Privileged Executive)

Shows Auto-PVID mode.

### Syntax

- show auto-pvid

### Default

None

### Command mode

Privileged Executive

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## show auto-pvid (User Executive)

Shows Auto-PVID mode.

### Syntax

- show auto-pvid

### Default

None

### Command mode

User Executive

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## show autosave

Displays current autosave setting.

### Syntax

- show autosave

### Default

None

### Command mode

Privileged Executive

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## show autotopology

Displays autotopology information.

### Syntax

- `show autotopology {nmm-table | settings}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter              | Description                          |
|------------------------|--------------------------------------|
| <code>nmm-table</code> | Display autotopology NMM table       |
| <code>settings</code>  | Display autotopology global settings |

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## show banner

Shows banner information.

### Syntax

- show banner {custom | static}

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description           |
|-----------|-----------------------|
| custom    | Display custom banner |
| static    | Display static banner |

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## show boot (Privileged Executive)

Shows boot settings.

### Syntax

- show boot {diag | image}

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                               |
|-----------|-------------------------------------------|
| diag      | Display information about the diag images |
| image     | Display information about images          |

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## show boot (User Executive)

Displays boot settings.

### Syntax

- show boot {diag | image}

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter | Description                               |
|-----------|-------------------------------------------|
| diag      | Display information about the diag images |
| image     | Display information about images          |

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## show brouter (Privileged Executive)

Displays brouter ports information.

### Syntax

- show brouter port <LINE>

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description               |
|-----------|---------------------------|
| LINE      | List of ports             |
| port      | Select port for operation |

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## show brouter (User Executive)

Displays brouter ports information.

### Syntax

- `show brouter port <LINE>`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter                      | Description               |
|--------------------------------|---------------------------|
| <code>port &lt;LINE&gt;</code> | Select port for operation |

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## show cfm (Privileged Executive)

Displays CFM information.

### Syntax

- `show cfm spbm`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                  |
|-----------|------------------------------|
| spbm      | Display CFM SPBM information |

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## show cfm (User Executive)

Displays CFM information.

### Syntax

- `show cfm spbm`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter | Description                  |
|-----------|------------------------------|
| spbm      | Display CFM SPBM information |

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## show cli info

Displays general Console settings.

### Syntax

- `show cli info`

### Default

None

### Command mode

Privileged Executive

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## show cli list

Display the CLI tree list.

### Syntax

- `show cli list [mode {application | config | current | dhcp-guard | exec | ifconfig | interface <Ethernet|loopback|vlan> | privExec |ra-guard router <ospf|rip|vrrp>}][verbose]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter   | Description                                                           |
|-------------|-----------------------------------------------------------------------|
| application | Displays commands available in Application Configuration mode.        |
| config      | Displays commands available in Global Configuration mode.             |
| current     | Displays commands available in current configuration mode.            |
| dhcp-guard  | Displays commands available in DHCP Guard Configuration mode.         |
| Ethernet    | Displays commands available in Ethernet Interface Configuration mode. |
| exec        | Displays commands available in executive mode.                        |
| ifconfig    | Displays commands available in Interface Configuration mode.          |
| interface   | Displays commands available in Interface Configuration modes.         |
| mode        | Displays commands available in Loopback Interface Configuration mode. |
| mode        | Displays commands available on specific mode.                         |
| ospf        | Displays commands available in OSPF Router Configuration mode.        |
| privExec    | Displays commands available in Privileged Executive mode.             |
| ra-guard    | Displays commands available in RA Guard Configuration mode.           |
| rip         | Displays commands available in RIP Router Configuration mode.         |
| router      | Displays commands available in Router Configuration mode.             |
| verbose     | Lists the CLI tree and all commands syntax.                           |
| vlan        | Displays commands available in VLAN Interface Configuration mode.     |
| vrrp        | Displays commands available in VRRP Router Configuration mode.        |

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## show cli mode

Displays information about current CLI mode.

### Syntax

- `show cli mode`

### Default

None

### Command mode

Privileged Executive

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## show cli password

Displays CLI usernames and passwords.

### Syntax

- `show cli password type`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter         | Description             |
|-------------------|-------------------------|
| <code>type</code> | Display passwords types |

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## show clock

Displays current time.

### Syntax

- `show clock {detail | summer-time | time-zone}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                | Description                                                                                      |
|--------------------------|--------------------------------------------------------------------------------------------------|
| <code>detail</code>      | Addition to displaying current time, display all time source current value and RTC configuration |
| <code>summer-time</code> | Displays daylight saving time settings                                                           |
| <code>time-zone</code>   | Displays local time zone settings                                                                |



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## show config-network

Shows settings for downloading config files.

### Syntax

- show config-network

### Default

None

### Command mode

Privileged Executive

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## show cpu-utilization (Privileged Executive)

Displays CPU utilization info.

### Syntax

- `show cpu-utilization unit <1-8>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                     | Description |
|-------------------------------|-------------|
| <code>unit &lt;1-8&gt;</code> | Unit number |

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## show cpu-utilization (User Executive)

Displays CPU utilization info.

### Syntax

- `show cpu-utilization unit <1-8>`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter                     | Description |
|-------------------------------|-------------|
| <code>unit &lt;1-8&gt;</code> | Unit number |

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## show eapol

Displays current settings of the EAPOL protocol.

### Syntax

- show eapol {auth-diags interface <LINE> | auth-stats interface <LINE> | guest-vlan interface <LINE> | multihost{dummy-adac-radius-requests | fail-open-vlan interface <LINE> | multivlan | non-eap-mac{interface <LINE>|status <LINE>}} | non-eap-pwd-fmt key | status [LINE] verbose | voip-vlan} | port <LINE> | summary interface <LINE>}

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                                   | Description                                     |
|---------------------------------------------|-------------------------------------------------|
| auth-diags                                  | Display EAPOL diags                             |
| auth-stats                                  | Display EAPOL statistics                        |
| dummy-adac-radius-requests                  | Displays dummy radius requests status           |
| fail-open-vlan                              | Display EAPoL multihost fail-open-vlan settings |
| guest-vlan                                  | Display EAPOL guest-vlan settings               |
| interface                                   | Display EAPOL multihost port configuration      |
| interface <LINE>                            | Select interfaces to be displayed               |
| key                                         | Displays Non-EAP Password Key                   |
| multihost                                   | Display EAPOL multi-host information            |
| multivlan                                   | Display EAPOL multihost multiVlan settings      |
| non-eap-mac{interface <LINE> status <LINE>} | Display allowed non-EAPoL MAC addresses         |
| non-eap-pwd-fmt                             | Displays Non-EAP Password Format                |
| port                                        | Display EAPOL configuration for specified ports |
| status                                      | Display EAPOL multihost port status             |
| summary                                     | Display summary of authenticated clients        |
| verbose                                     | Display detailed EAPOL multihost port status    |
| voip-vlan                                   | Display EAPoL multihost voip-vlan settings      |

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## show ecmp (Privileged Executive)

Displays ECMP settings.

### Syntax

- show ecmp

### Default

None

### Command mode

Privileged Executive

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## show ecmp (User Executive)

Displays ECMP settings.

### Syntax

- show ecmp

### Default

None

### Command mode

User Executive

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## show edm (Privileged Executive)

Displays EDM configuration.

### Syntax

- `show edm {help-file-path | inactivity-timeout}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                       | Description                    |
|---------------------------------|--------------------------------|
| <code>help-file-path</code>     | Display EDM help file path     |
| <code>inactivity-timeout</code> | Display EDM inactivity timeout |

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## show edm (User Executive)

Displays EDM configuration.

### Syntax

- `show edm {help-file-path | inactivity-timeout}`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter                       | Description                    |
|---------------------------------|--------------------------------|
| <code>help-file-path</code>     | Display EDM help file path     |
| <code>inactivity-timeout</code> | Display EDM inactivity timeout |

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## show energy-saver interface (Privileged Executive)

Displays per-port energy saver settings and status.

### Syntax

- show energy-saver interface <LINE>

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description   |
|-----------|---------------|
| <LINE>    | List of ports |

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## show energy-saver interface (User Executive)

Displays per-port energy saver settings and status.

### Syntax

- show energy-saver interface <LINE>

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter | Description   |
|-----------|---------------|
| <LINE>    | List of ports |

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## show energy-saver (Privileged Executive)

Displays energy saver settings and status.

### Syntax

- show energy-saver

### Default

None

### Command mode

Privileged Executive

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## show energy-saver savings (Privileged Executive)

Displays energy saver power savings.

### Syntax

- `show energy-saver savings`

### Default

None

### Command mode

Privileged Executive

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## show energy-saver savings (User Executive)

Displays energy saver power savings.

### Syntax

- `show energy-saver savings`

### Default

None

### Command mode

User Executive

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## show energy-saver schedule (Privileged Executive)

Displays energy saver activation/deactivation schedule.

### Syntax

- `show energy-saver schedule`

### Default

None

### Command mode

Privileged Executive

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## show energy-saver schedule (User Executive)

Displays energy saver activation/deactivation schedule.

### Syntax

- show energy-saver schedule

### Default

None

### Command mode

User Executive

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## show energy-saver (User Executive)

Displays energy saver settings and status.

### Syntax

- show energy-saver

### Default

None

### Command mode

User Executive



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## show environmental (Privileged Executive)

Displays environmental information.

### Syntax

- show environmental

### Default

None

### Command mode

Privileged Executive

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## show environmental (User Executive)

Displays environmental information.

### Syntax

- show environmental

### Default

None

### Command mode

User Executive

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## show fa (Privileged Executive)

Displays Fabric Attach specific settings.

### Syntax

- `show fa [elements][i-sid <1-16777214>][port-enable <LINE>][spbm]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                             | Description                                                             |
|---------------------------------------|-------------------------------------------------------------------------|
| <code>elements</code>                 | Display discovered Fabric Attach elements.                              |
| <code>i-sid &lt;1-16777214&gt;</code> | Displays the Fabric Attach configured user-to-network interface (UNIs). |
| <code>port-enable &lt;LINE&gt;</code> | Displays the Fabric Attach port settings.                               |
| <code>spbm</code>                     | Displays the Fabric Attach agent status.                                |

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## show fa (User Executive)

Displays Fabric Attach specific settings.

### Syntax

- `show fa [elements][i-sid <1-16777214>][port-enable <LINE>][spbm]`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter                             | Description                                                             |
|---------------------------------------|-------------------------------------------------------------------------|
| <code>elements</code>                 | Display discovered Fabric Attach elements.                              |
| <code>i-sid &lt;1-16777214&gt;</code> | Displays the Fabric Attach configured user-to-network interface (UNIs). |
| <code>port-enable &lt;LINE&gt;</code> | Displays the Fabric Attach port settings.                               |
| <code>spbm</code>                     | Displays the Fabric Attach agent status.                                |

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## show flash (Privileged Executive)

Displays FLASH information.

### Syntax

- `show flash [history] unit <1-8>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                     | Description          |
|-------------------------------|----------------------|
| <code>history</code>          | Display FLASH writes |
| <code>unit &lt;1-8&gt;</code> | Unit number          |

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## show flash (User Executive)

Displays FLASH information.

### Syntax

- `show flash [history] unit <1-8>`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter                     | Description          |
|-------------------------------|----------------------|
| <code>history</code>          | Display FLASH writes |
| <code>unit &lt;1-8&gt;</code> | Unit number          |

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## show http-port

Displays the TCP port on which web server will listen.

### Syntax

- `show http-port`

### Default

None

### Command mode

Privileged Executive

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## show interfaces (Privileged Executive)

Shows the interface status and configuration.

### Syntax

- `show interfaces [admin-disabled [<LINE>]|admin-enabled[<LINE>]|gbic-info[<LINE>]|<LINE> [config | verbose]|link-down[<LINE>]|link-up[<LINE>]|loopback [<1-16>]|names[<LINE>]][verbose]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter       | Description                                                |
|-----------------|------------------------------------------------------------|
| <LINE>          | Specifies a list of ports.                                 |
| admin-disabled  | Displays the admin disabled interfaces.                    |
| admin-enabled   | Displays the admin enabled interfaces.                     |
| config          | Displays interfaces configuration.                         |
| gbic-info       | Displays GBIC details.                                     |
| link-down       | Display the interfaces with link down.                     |
| link-up         | Displays the interfaces with link up.                      |
| loopback <1-16> | Displays loopback interface information.                   |
| names           | Displays interface names.                                  |
| verbose         | Displays port status information for several applications. |



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## show interfaces (User Executive)

Displays interface status and configuration.

### Syntax

- show interfaces [admin-disabled [<LINE>]|admin-enabled[<LINE>]|gbic-info[<LINE>]|<LINE> [config | verbose]|link-down[<LINE>]|link-up[<LINE>]|names[<LINE>]]

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter       | Description                                                |
|-----------------|------------------------------------------------------------|
| <LINE>          | Displays a port or list of ports.                          |
| admin-disabled  | Displays the admin-disabled interfaces.                    |
| admin-enabled   | Displays the admin-enabled interfaces.                     |
| config          | Displays the interfaces configuration.                     |
| gbic-info       | Display the Gigabit Interface Converter (GBIC) details.    |
| link-down       | Displays the interfaces with link down.                    |
| link-up         | Displays the interfaces with link up.                      |
| loopback <1-16> | Displays loopback interface information.                   |
| names           | Displays interface names.                                  |
| verbose         | Displays port status information for several applications. |

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## show ip arp-inspection interface (Privileged Executive)

Displays ARP inspection port information.

### Syntax

- show ip arp-inspection interface [ethernet] [<LINE>]

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description         |
|-----------|---------------------|
| Ethernet  | Ethernet IEEE 802.3 |

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## show ip arp-inspection interface (User Executive)

Displays ARP inspection port information.

### Syntax

- `show ip arp-inspection interface [Ethernet] [<LINE>]`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter | Description         |
|-----------|---------------------|
| <LINE>    | List of ports       |
| Ethernet  | Ethernet IEEE 802.3 |

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## show ip arp-inspection (Privileged Executive)

Displays ARP inspection information.

### Syntax

- `show ip arp-inspection vlan <LINE>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                      | Description                             |
|--------------------------------|-----------------------------------------|
| <code>vlan &lt;LINE&gt;</code> | Display ARP inspection VLAN information |

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## show ip arp-inspection (User Executive)

Displays ARP inspection VLAN information.

### Syntax

- `show ip arp-inspection vlan <LINE>`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter                      | Description                             |
|--------------------------------|-----------------------------------------|
| <code>vlan &lt;LINE&gt;</code> | Display ARP inspection VLAN information |

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## show ip arp-proxy (Privileged Executive)

Displays Proxy ARP status.

### Syntax

- `show ip arp-proxy interface vlan <1-4094>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter     | Description                     |
|---------------|---------------------------------|
| interface     | Display interface configuration |
| vlan <1-4094> | Layer 3 IP VLAN                 |

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## show ip arp-proxy (User Executive)

Displays Proxy ARP status.

### Syntax

- `show ip arp-proxy interface vlan <1-4094>`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter     | Description                     |
|---------------|---------------------------------|
| interface     | Display interface configuration |
| vlan <1-4094> | Layer 3 IP VLAN                 |

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## show ip blocking-mode (Privileged Executive)

Displays the Layer 3 IP blocking mode.

### Syntax

- `show ip blocking-mode`

### Default

None

### Command mode

Privileged Executive



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## show ip blocking-mode (User Executive)

Displays the Layer 3 IP blocking mode.

### Syntax

- show ip blocking-mode

### Default

None

### Command mode

User Executive

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## show ip-blocking (Privileged Executive)

Displays the Layer 3 IP blocking state.

### Syntax

- `show ip-blocking`

### Default

None

### Command mode

Privileged Executive

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## show ip-blocking (User Executive)

Displays the Layer 3 IP blocking state.

### Syntax

- `show ip-blocking`

### Default

None

### Command mode

User Executive

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## show ip default-ttl (Privileged Executive)

Displays default TTL.

### Syntax

- `show ip default-ttl`

### Default

None

### Command mode

Privileged Executive

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## show ip default-ttl (User Executive)

Displays default TTL.

### Syntax

- `show ip default-ttl`

### Default

None

### Command mode

User Executive

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## show ip dhcp (Privileged Executive)

Displays DHCP settings.

### Syntax

- `show ip dhcp client lease`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter           | Description       |
|---------------------|-------------------|
| <code>client</code> | DHCP client       |
| <code>lease</code>  | DHCP client lease |

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## show ip dhcp-relay

Displays DHCP relay information.

### Syntax

- show ip dhcp-relay

### Default

None

### Command mode

Privileged Executive

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## show ip dhcp-relay counters (Privileged Executive)

Displays DHCP relay statistics.

### Syntax

- `show ip dhcp-relay counters`

### Default

None

### Command mode

Privileged Executive



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## show ip dhcp-relay counters (User Executive)

Displays DHCP relay statistics.

### Syntax

- `show ip dhcp-relay counters`

### Default

None

### Command mode

User Executive

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## show ip dhcp-relay fwd-path (Privileged Executive)

Displays DHCP relay global configuration.

### Syntax

- `show ip dhcp-relay fwd-path summary`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                         |
|-----------|-------------------------------------|
| summary   | Display DHCP relay fwd-path summary |

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## show ip dhcp-relay fwd-path (User Executive)

Displays DHCP relay global configuration.

### Syntax

- `show ip dhcp-relay fwd-path summary`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter | Description                         |
|-----------|-------------------------------------|
| summary   | Display DHCP relay fwd-path summary |

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## show ip dhcp-relay interface

Displays DHCP relay per-interface configuration.

### Syntax

- `show ip dhcp-relay interface {ethernet | vlan} <LINE>`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter       | Description         |
|-----------------|---------------------|
| ethernet <LINE> | Ethernet IEEE 802.3 |
| vlan <LINE>     | VLAN interface      |

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## show ip dhcp-snooping binding (Privileged Executive)

Displays DHCP snooping binding table.

### Syntax

- `show ip dhcp-snooping binding summary`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                                 |
|-----------|---------------------------------------------|
| summary   | Display DHCP snooping binding table summary |

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## show ip dhcp-snooping binding (User Executive)

Displays DHCP snooping binding table.

### Syntax

- `show ip dhcp-snooping binding summary`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter | Description                                 |
|-----------|---------------------------------------------|
| summary   | Display DHCP snooping binding table summary |

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## show ip dhcp-snooping external-save (Privileged Executive)

Displays current operating state of DHCP snooping external save.

### Syntax

- `show ip dhcp-snooping external-save`

### Default

None

### Command mode

Privileged Executive

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## show ip dhcp-snooping external-save (User Executive)

Displays current operating state of DHCP snooping external save.

### Syntax

- `show ip dhcp-snooping external-save`

### Default

None

### Command mode

User Executive



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## show ip dhcp-snooping interface (Privileged Executive)

Displays DHCP snooping port information.

### Syntax

- show ip dhcp-snooping interface [ethernet] [<LINE>]

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description         |
|-----------|---------------------|
| <LINE>    | List of ports       |
| Ethernet  | Ethernet IEEE 802.3 |

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## show ip dhcp-snooping interface (User Executive)

Displays DHCP snooping port information.

### Syntax

- show ip dhcp-snooping interface [Ethernet] [<LINE>]

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter | Description         |
|-----------|---------------------|
| <LINE>    | List of ports       |
| Ethernet  | Ethernet IEEE 802.3 |

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## show ip dhcp-snooping (Privileged Executive)

Displays DHCP snooping information.

### Syntax

- `show ip dhcp-snooping`

### Default

None

### Command mode

Privileged Executive

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## show ip dhcp-snooping (User Executive)

Displays DHCP snooping information.

### Syntax

- show ip dhcp-snooping

### Default

None

### Command mode

User Executive

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## show ip dhcp-snooping vlan (Privileged Executive)

Displays DHCP snooping VLAN information.

### Syntax

- show ip dhcp-snooping vlan <LINE>

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description |
|-----------|-------------|
| <LINE>    | VLAN list   |

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## show ip dhcp-snooping vlan (User Executive)

Displays DHCP snooping VLAN information.

### Syntax

- show ip dhcp-snooping vlan <LINE>

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter | Description |
|-----------|-------------|
| <LINE>    | VLAN list   |

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## show ip dhcp (User Executive)

Displays DHCP settings.

### Syntax

- `show ip dhcp client lease`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter           | Description       |
|---------------------|-------------------|
| <code>client</code> | DHCP client       |
| <code>lease</code>  | DHCP client lease |

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## show ip directed-broadcast (Privileged Executive)

Displays directed-broadcast forwarding mode.

### Syntax

- `show ip directed-broadcast`

### Default

None

### Command mode

Privileged Executive



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## show ip directed-broadcast (User Executive)

Displays directed-broadcast forwarding mode.

### Syntax

- `show ip directed-broadcast`

### Default

None

### Command mode

User Executive

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## show ip dns (Privileged Executive)

Displays DNS configuration.

### Syntax

- `show ip dns`

### Default

None

### Command mode

Privileged Executive

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## show ip dns (User Executive)

Displays DNS configuration.

### Syntax

- `show ip dns`

### Default

None

### Command mode

User Executive

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## show ip forward-protocol (Privileged Executive)

Displays broadcast forwarding settings.

### Syntax

- `show ip forward-protocol udp [portfwddlist <1-128>] interface vlan <1-4094>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter     | Description                      |
|---------------|----------------------------------|
| interface     | Display interface configuration  |
| portfwddlist  | Displays UDP fwdlists configured |
| udp           | Displays UDP ports configured    |
| vlan <1-4094> | Layer 3 IP VLAN                  |

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## show ip forward-protocol (User Executive)

Displays broadcast forwarding settings.

### Syntax

- `show ip forward-protocol udp [portfwdlist <1-128>] [interface] [vlan <1-4094>]`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter           | Description                      |
|---------------------|----------------------------------|
| interface           | Display interface configuration  |
| portfwdlist <1-128> | Displays UDP fwdlists configured |
| udp                 | Displays UDP ports configured    |
| vlan <1-4094>       | Layer 3 IP VLAN                  |

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## show ip igmp cache

Displays IGMP cache details.

### Syntax

- `show ip igmp cache`

### Default

None

### Command mode

Privileged Executive

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## show ip igmp group

Displays IGMP group details.

### Syntax

- `show ip igmp group [count] [member-subnet A.B.C.D/<0-32>] [group {A.B.C.D}]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                    | Description              |
|------------------------------|--------------------------|
| count                        | Display count of entries |
| group {A.B.C.D}              | Select group             |
| member-subnet A.B.C.D/<0-32> | Select member subnet     |

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## show ip igmp group-ext

Displays IGMP extended group details.

### Syntax

- `show ip igmp group-ext [count] [member-subnet A.B.C.D/<0-32>] [group {A.B.C.D}] [source {A.B.C.D}]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                    | Description              |
|------------------------------|--------------------------|
| count                        | Display count of entries |
| group {A.B.C.D}              | Select group             |
| member-subnet A.B.C.D/<0-32> | Select member subnet     |
| source {A.B.C.D}             | Select source address    |

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## show ip igmp interface

Displays IGMP interface information.

### Syntax

- `show ip igmp interface vlan <1-4094>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                        | Description             |
|----------------------------------|-------------------------|
| <code>vlan &lt;1-4094&gt;</code> | Display VLAN interfaces |

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## show ip igmp profile

Displays IGMP filter profiles.

### Syntax

- show ip igmp profile <1-65535>

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description |
|-----------|-------------|
| <1-65535> | profile ID  |

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## show ip igmp router-alert

Displays router-alert settings.

### Syntax

- `show ip igmp router-alert vlan <1-4094>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                        | Description             |
|----------------------------------|-------------------------|
| <code>vlan &lt;1-4094&gt;</code> | Display VLAN interfaces |

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## show ip igmp snooping

Displays IGMP snooping information.

### Syntax

- `show ip igmp snooping`

### Default

None

### Command mode

Privileged Executive

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## show ip ipfix collector (Privileged Executive)

Displays IPFIX collectors.

### Syntax

- `show ip ipfix collector {A.B.C.D}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description       |
|-----------|-------------------|
| {A.B.C.D} | Collector address |

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## show ip ipfix collector (User Executive)

Displays IPFIX collectors.

### Syntax

- `show ip ipfix collector {A.B.C.D}`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter | Description       |
|-----------|-------------------|
| {A.B.C.D} | Collector address |

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## show ip ipfix interface (Privileged Executive)

Displays IPFIX per-port settings.

### Syntax

- `show ip ipfix interface <LINE>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description   |
|-----------|---------------|
| <LINE>    | list of ports |

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## show ip ipfix interface (User Executive)

Displays IPFIX per-port settings.

### Syntax

- show ip ipfix interface <LINE>

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter | Description   |
|-----------|---------------|
| <LINE>    | list of ports |



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## show ip ipfix (Privileged Executive)

Displays IPFIX settings.

### Syntax

- `show ip ipfix`

### Default

None

### Command mode

Privileged Executive

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## show ip ipfix slot (Privileged Executive)

Displays IPFIX per-slot/unit settings.

### Syntax

- `show ip ipfix slot <LINE>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                                         |
|-----------|-----------------------------------------------------|
| <LINE>    | slot list (1 for standalone; 1- n for n high stack) |

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## show ip ipfix slot (User Executive)

Displays IPFIX per-slot/unit settings.

### Syntax

- `show ip ipfix slot <LINE>`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter | Description                                         |
|-----------|-----------------------------------------------------|
| <LINE>    | slot list (1 for standalone; 1- n for n high stack) |

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## show ip ipfix table (Privileged Executive)

Displays IPFIX table.

### Syntax

- `show ip ipfix table sort-by {byte-count | dest-addr | first-pkt-time | last-pkt-time | pkt-count | port | protocol | source-addr | TCP-UDP-dest-port | TCP-UDP-scr-port | TOS} sort-order {ascending | descending} display {all | top-10 | top-100 | top-200 | top-25 | top-50}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter         | Description                        |
|-------------------|------------------------------------|
| all               | Display all entries                |
| ascending         | Ascending order                    |
| byte-count        | Byte number                        |
| descending        | Descending order                   |
| dest-addr         | Destination address                |
| display           | Enter number of entries to display |
| first-pkt-time    | First packet time                  |
| last-pkt-time     | Last packet time                   |
| pkt-count         | Packet number                      |
| port              | Port number                        |
| protocol          | Protocol number                    |
| sort-by           | Select sort rule                   |
| sort-order        | Set sort order                     |
| source-addr       | Source address                     |
| TCP-UDP-dest-port | TCP/UDP destination port           |
| TCP-UDP-scr-port  | TCP/UDP source port                |
| top-10            | Display first 10 entries           |
| top-100           | Display first 100 entries          |
| top-200           | Display first 200 entries          |
| top-25            | Display first 25 entries           |
| top-50            | Display first 50 entries           |
| TOS               | TOS                                |



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## show ip ipfix table (User Executive)

Displays IPFIX table.

### Syntax

- `show ip ipfix table sort-by {byte-count sort-order | dest-addr | first-pkt-time | last-pkt-time | pkt-count | port | protocol | source-addr | TCP-UDP-dest-port | TCP-UDP-scr-port | TOS} [sort-order] [ascending | descending] [display] {all | top-10 | top-100 | top-200 | top-25 | top-50}`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter         | Description                        |
|-------------------|------------------------------------|
| all               | Display all entries                |
| ascending         | Ascending order                    |
| byte-count        | Byte number                        |
| descending        | Descending order                   |
| dest-addr         | Destination address                |
| display           | Enter number of entries to display |
| first-pkt-time    | First packet time                  |
| last-pkt-time     | Last packet time                   |
| pkt-count         | Packet number                      |
| port              | Port number                        |
| protocol          | Protocol number                    |
| sort-by           | Select sort rule                   |
| sort-order        | Set sort order                     |
| source-addr       | Source address                     |
| TCP-UDP-dest-port | TCP/UDP destination port           |
| TCP-UDP-scr-port  | TCP/UDP source port                |
| top-10            | Display first 10 entries           |
| top-100           | Display first 100 entries          |
| top-200           | Display first 200 entries          |
| top-25            | Display first 25 entries           |
| top-50            | Display first 50 entries           |
| TOS               | TOS                                |



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## show ip ipfix (User Executive)

Displays IPFIX settings.

### Syntax

- `show ip ipfix`

### Default

None

### Command mode

User Executive



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## show ip mgmt (Privileged Executive)

Displays management information.

### Syntax

- show ip mgmt route

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                         |
|-----------|-------------------------------------|
| route     | Display management VLAN information |

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## show ip mgmt (User Executive)

Displays management information.

### Syntax

- `show ip mgmt route`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter | Description                         |
|-----------|-------------------------------------|
| route     | Display management VLAN information |

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## show ipmgr

Displays IP Manager settings.

### Syntax

- `show ipmgr {IPv4 | IPv6}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                     |
|-----------|---------------------------------|
| IPv4      | Displays only IPv4 information. |
| IPv6      | Displays only IPv6 information. |

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## show ip mroute interface

Display general multicast information.

### Syntax

- `show ip mroute interface [vlan <1-16>]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                        | Description               |
|----------------------------------|---------------------------|
| <code>vlan &lt;1-4094&gt;</code> | Displays VLAN interfaces. |

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## show ip mroute next-hop

Display multicast next-hop information.

### Syntax

- `show ip mroute next-hop`

### Default

None

### Command mode

Privileged Executive

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## show ip mroute route

Display multicast route information.

### Syntax

- show ip mroute route

### Default

None

### Command mode

Privileged Executive

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## show ip netstat (Privileged Executive)

Shows ip tcp/udp connections and services.

### Syntax

- show ip netstat {tcp | udp}

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                              |
|-----------|------------------------------------------|
| tcp       | Displays ip tcp connections and services |
| udp       | Displays ip udp endpoints                |

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## show ip netstat (User Executive)

Shows ip tcp/udp connections and services.

### Syntax

- show ip netstat {tcp | udp}

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter | Description                              |
|-----------|------------------------------------------|
| tcp       | Displays ip tcp connections and services |
| udp       | Displays ip udp endpoints                |

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## show ip num-routes (Privileged Executive)

Shows maximum allowed routes per route type.

### Syntax

- `show ip num-routes`

### Default

None

### Command mode

Privileged Executive

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## show ip num-routes (User Executive)

Shows maximum allowed routes per route type.

### Syntax

- `show ip num-routes`

### Default

None

### Command mode

User Executive

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## show ip ospf accept (Privileged Executive)

Displays OSPF accept adv-router.

### Syntax

- show ip ospf accept

### Default

None

### Command mode

Privileged Executive

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## show ip ospf accept (User Executive)

Displays OSPF accept adv-router.

### Syntax

- show ip ospf accept

### Default

None

### Command mode

User Executive

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## show ip ospf area (Privileged Executive)

Displays OSPF area configuration.

### Syntax

- show ip ospf area {A.B.C.D}

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description |
|-----------|-------------|
| {A.B.C.D} | Address     |

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## show ip ospf area-range (Privileged Executive)

Displays OSPF area range configuration.

### Syntax

- `show ip ospf area-range {A.B.C.D}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description |
|-----------|-------------|
| {A.B.C.D} | Address     |

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## show ip ospf area-range (User Executive)

Displays OSPF area range configuration.

### Syntax

- `show ip ospf area-range {A.B.C.D}`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter | Description |
|-----------|-------------|
| {A.B.C.D} | address     |

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## show ip ospf area (User Executive)

Displays OSPF area configuration.

### Syntax

- `show ip ospf area {A.B.C.D}`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter | Description |
|-----------|-------------|
| {A.B.C.D} | address     |



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## show ip ospf ase (Privileged Executive)

Displays AS External link state advertisements.

### Syntax

- `show ip ospf ase`

### Default

None

### Command mode

Privileged Executive

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## show ip ospf ase (User Executive)

Displays AS External link state advertisements.

### Syntax

- show ip ospf ase

### Default

None

### Command mode

User Executive

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## show ip ospf authentication (Privileged Executive)

Displays interface MD5 keys.

### Syntax

- `show ip ospf authentication interface {[Ethernet] [<LINE>] [vlan <1-4094>]} | virtual-links`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter     | Description                   |
|---------------|-------------------------------|
| <LINE>        | List of ports                 |
| Ethernet      | Ethernet IEEE 802.3           |
| interface     | Display interface MD5 keys    |
| virtual-links | Display virtual link MD5 keys |
| vlan <1-4094> | Layer 3 IP VLAN               |

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## show ip ospf authentication (User Executive)

Displays interface MD5 keys.

### Syntax

- `show ip ospf authentication interface {[Ethernet] [<LINE>] [vlan <1-4094>]} | [virtual-links]`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter     | Description                   |
|---------------|-------------------------------|
| <LINE>        | List of ports                 |
| Ethernet      | Ethernet IEEE 802.3           |
| interface     | Display interface MD5 keys    |
| virtual-links | Display virtual link MD5 keys |
| vlan <1-4094> | Layer 3 IP VLAN               |

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## show ip ospf default-cost (Privileged Executive)

Displays default metric settings.

### Syntax

- `show ip ospf default-cost`

### Default

None

### Command mode

Privileged Executive

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## show ip ospf default-cost (User Executive)

Displays default metric settings.

### Syntax

- `show ip ospf default-cost`

### Default

None

### Command mode

User Executive

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## show ip ospf host-route (Privileged Executive)

Displays OSPF host routes.

### Syntax

- `show ip ospf host-route`

### Default

None

### Command mode

Privileged Executive

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## show ip ospf host-route (User Executive)

Displays OSPF host routes.

### Syntax

- `show ip ospf host-route`

### Default

None

### Command mode

User Executive



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## show ip ospf ifstats (Privileged Executive)

Displays interface statistics.

### Syntax

- `show ip ospf ifstats {[A.B.C.D] [mismatch] [detail]}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                  |
|-----------|------------------------------|
| [A.B.C.D] | Interface IP address         |
| detail    | Display detailed information |
| mismatch  | Area ID not matched          |

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## show ip ospf ifstats (User Executive)

Displays interface statistics.

### Syntax

- `show ip ospf ifstats {[A.B.C.D] [mismatch] [detail]}`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter | Description                  |
|-----------|------------------------------|
| [A.B.C.D] | Interface IP address         |
| detail    | Display detailed information |
| mismatch  | Area ID not matched          |

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## show ip ospf int-auth (Privileged Executive)

Displays interface auth type/password.

### Syntax

- `show ip ospf int-auth`

### Default

None

### Command mode

Privileged Executive

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## show ip ospf int-auth (User Executive)

Displays interface auth type/password.

### Syntax

- `show ip ospf int-auth`

### Default

None

### Command mode

User Executive

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## show ip ospf interface (Privileged Executive)

Displays interface configuration.

### Syntax

- `show ip ospf interface {[vlan <1-4094>] [enabled]}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter     | Description                                |
|---------------|--------------------------------------------|
| enabled       | Display only admin enabled OSPF interfaces |
| vlan <1-4094> | Layer 3 IP VLAN                            |

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## show ip ospf interface (User Executive)

Displays interface configuration.

### Syntax

- `show ip ospf interface {[vlan <1-4094>] [enabled]}`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter                        | Description                                |
|----------------------------------|--------------------------------------------|
| <code>enabled</code>             | Display only admin enabled OSPF interfaces |
| <code>vlan &lt;1-4094&gt;</code> | Layer 3 IP VLAN                            |

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## show ip ospf int-timers (Privileged Executive)

Displays timer settings of all interfaces.

### Syntax

- `show ip ospf int-timers`

### Default

None

### Command mode

Privileged Executive

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## show ip ospf int-timers (User Executive)

Displays timer settings of all interfaces.

### Syntax

- `show ip ospf int-timers`

### Default

None

### Command mode

User Executive



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## show ip ospf lsdb (Privileged Executive)

Displays OSPF link state database.

### Syntax

- `show ip ospf lsdb [area {A.B.C.D}] [lsa-type {as-external-link | as-summary-link | multicast-link | network-link | nssa-extlink | router-link | summary-link}] [lsid {A.B.C.D}] [adv-rtr {A.B.C.D}] [detail {A.B.C.D}]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                      | Description                       |
|--------------------------------|-----------------------------------|
| <code>adv-rtr {A.B.C.D}</code> | Advertising router                |
| <code>area {A.B.C.D}</code>    | Area                              |
| <code>as-external-link</code>  | AS External LSA                   |
| <code>as-summary-link</code>   | AS Summary LSA                    |
| <code>detail {A.B.C.D}</code>  | Display detailed lsdb information |
| <code>lsa-type</code>          | Link state advertisement type     |
| <code>lsid {A.B.C.D}</code>    | Link state ID                     |
| <code>multicast-link</code>    | Multicast LSA                     |
| <code>network-link</code>      | Network LSA                       |
| <code>nssa-extlink</code>      | NSSA LSA                          |
| <code>router-link</code>       | Router LSA                        |
| <code>summary-link</code>      | Summary LSA                       |

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## show ip ospf lsdb (User Executive)

Displays OSPF link state database.

### Syntax

- `show ip ospf lsdb [area {A.B.C.D}] [lsa-type {as-external-link | as-summary-link | multicast-link | network-link | nssa-extlink | router-link | summary-link}] [lsid {A.B.C.D}] [adv-rtr {A.B.C.D}] [detail {A.B.C.D}]`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter                      | Description                       |
|--------------------------------|-----------------------------------|
| <code>adv-rtr {A.B.C.D}</code> | Advertising router                |
| <code>area {A.B.C.D}</code>    | Area                              |
| <code>as-external-link</code>  | AS External LSA                   |
| <code>as-summary-link</code>   | AS Summary LSA                    |
| <code>detail {A.B.C.D}</code>  | Display detailed lsdb information |
| <code>lsa-type</code>          | Link state advertisement type     |
| <code>lsid {A.B.C.D}</code>    | Link state ID                     |
| <code>multicast-link</code>    | Multicast LSA                     |
| <code>network-link</code>      | Network LSA                       |
| <code>nssa-extlink</code>      | NSSA LSA                          |
| <code>router-link</code>       | Router LSA                        |
| <code>summary-link</code>      | Summary LSA                       |

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## show ip ospf neighbor (Privileged Executive)

Displays OSPF neighbors.

### Syntax

- `show ip ospf neighbor`

### Default

None

### Command mode

Privileged Executive

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## show ip ospf neighbor (User Executive)

Displays OSPF neighbors.

### Syntax

- `show ip ospf neighbor`

### Default

None

### Command mode

User Executive

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## show ip ospf (Privileged Executive)

Displays global OSPF settings.

### Syntax

- `show ip ospf`

### Default

None

### Command mode

Privileged Executive

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## show ip ospf redistribute (Privileged Executive)

Displays OSPF redistribution policy.

### Syntax

- `show ip ospf redistribute`

### Default

None

### Command mode

Privileged Executive

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## show ip ospf redistribute (User Executive)

Displays OSPF redistribution policy.

### Syntax

- `show ip ospf redistribute`

### Default

None

### Command mode

User Executive

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## show ip ospf stats (Privileged Executive)

Displays global statistics.

### Syntax

- `show ip ospf stats`

### Default

None

### Command mode

Privileged Executive



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## show ip ospf stats (User Executive)

Displays global statistics.

### Syntax

- `show ip ospf stats`

### Default

None

### Command mode

User Executive

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## show ip ospf timer (Privileged Executive)

Displays interface timer settings.

### Syntax

- `show ip ospf timer {interface vlan <1-4094> | virtual-links}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter     | Description                                       |
|---------------|---------------------------------------------------|
| interface     | Display interface timer settings                  |
| virtual-links | Display configured OSPF virtual link timer values |
| vlan <1-4094> | Layer 3 IP VLAN                                   |

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## show ip ospf timer (User Executive)

Displays interface timer settings.

### Syntax

- `show ip ospf timer {interface vlan <1-4094> | virtual-links}`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter     | Description                                       |
|---------------|---------------------------------------------------|
| interface     | Display interface timer settings                  |
| virtual-links | Display configured OSPF virtual link timer values |
| vlan <1-4094> | Layer 3 IP VLAN                                   |

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## show ip ospf (User Executive)

Displays global OSPF settings.

### Syntax

- `show ip ospf`

### Default

None

### Command mode

User Executive

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## show ip ospf virtual-links (Privileged Executive)

Displays virtual links configuration.

### Syntax

- `show ip ospf virtual-links`

### Default

None

### Command mode

Privileged Executive

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## show ip ospf virtual-links (User Executive)

Displays virtual links configuration.

### Syntax

- `show ip ospf virtual-links`

### Default

None

### Command mode

User Executive

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## show ip ospf virtual-neighbors (Privileged Executive)

Displays OSPF virtual link neighbors.

### Syntax

- `show ip ospf virtual-neighbors`

### Default

None

### Command mode

Privileged Executive

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## show ip ospf virtual-neighbors (User Executive)

Displays OSPF virtual link neighbors.

### Syntax

- `show ip ospf virtual-neighbors`

### Default

None

### Command mode

User Executive



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## show ip pim

Display the global Protocol Independent Multicast-Sparse Mode (PIM-SM) properties.

### Syntax

- `show ip pim`

### Default

None

### Command mode

Privileged Executive

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## show ip pim active-rp

Display the active rendezvous points for Protocol Independent Multicast (PIM).

### Syntax

- `show ip pim active-rp [group <A.B.C.D>]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter       | Description                     |
|-----------------|---------------------------------|
| group <A.B.C.D> | Specifies the group to display. |

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## show ip pim bsr

Display the bootstrap router settings for Protocol Independent Multicast (PIM).

### Syntax

- `show ip pim bsr`

### Default

None

### Command mode

Privileged Executive

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## show ip pim interface

Display Protocol Independent Multicast (PIM) for each interface setting.

### Syntax

- `show ip pim interface [enabled][vlan <1-4094>]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                        | Description                                                                  |
|----------------------------------|------------------------------------------------------------------------------|
| <code>enabled</code>             | Displays only admin enabled Protocol Independent Multicast (PIM) interfaces. |
| <code>vlan &lt;1-4094&gt;</code> | Displays VLAN interfaces.                                                    |

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## show ip pim mode

Display the Protocol Independent Multicast (PIM) mode.

### Syntax

- `show ip pim mode`

### Default

None

### Command mode

Privileged Executive

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## show ip pim mroute

Display the Protocol Independent Multicast (PIM) multicast routes.

### Syntax

- `show ip pim mroute [count][group <A.B.C.D>][source <A.B.C.D>][summary]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter           | Description                                                                            |
|---------------------|----------------------------------------------------------------------------------------|
| count               | Displays the count of entries.                                                         |
| group<br><A.B.C.D>  | Displays specific groups by IP address.                                                |
| source<br><A.B.C.D> | Displays specific sources by IP address.                                               |
| summary             | Displays summary information of Protocol Independent Multicast (PIM) multicast routes. |

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## show ip pim neighbor

Display the global Protocol Independent Multicast-Sparse Mode (PIM-SM) neighbors.

### Syntax

- `show ip pim neighbor`

### Default

None

### Command mode

Privileged Executive

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## show ip pim rp-candidate

Display the Protocol Independent Multicast (PIM) candidate rendezvous points.

### Syntax

- `show ip pim rp-candidate [group <A.B.C.D>]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter       | Description                             |
|-----------------|-----------------------------------------|
| group <A.B.C.D> | Displays specific groups by IP address. |

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## show ip pim rp-hash

Display the Protocol Independent Multicast rendezvous point set and hash.

### Syntax

- `show ip pim rp-hash`

### Default

None

### Command mode

Privileged Executive

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## show ip pim static-rp

Display the statically configured Protocol Independent Multicast rendezvous point.

### Syntax

- `show ip pim static-rp`

### Default

None

### Command mode

Privileged Executive

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## show ip pim virtual-neighbor

Display the Protocol Independent Multicast virtual neighbor.

### Syntax

- `show ip pim virtual-neighbor`

### Default

None

### Command mode

Privileged Executive

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## show ip prefix-list (Privileged Executive)

Displays IP prefix lists.

### Syntax

- `show ip prefix-list [<WORD>] [prefix {A.B.C.D}]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter        | Description             |
|------------------|-------------------------|
| <WORD>           | Name of the prefix list |
| prefix {A.B.C.D} | Ip prefix               |

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## show ip prefix-list (User Executive)

Displays IP prefix lists.

### Syntax

- `show ip prefix-list [<WORD>] [prefix {A.B.C.D}]`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter        | Description             |
|------------------|-------------------------|
| <WORD>           | Name of the prefix list |
| prefix {A.B.C.D} | Ip prefix               |

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## show ip (Privileged Executive)

Displays IP-related information.

### Syntax

- `show ip [bootp] [default-gateway] address {source | stack | switch | unit <1-8>}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                    | Description                   |
|------------------------------|-------------------------------|
| <code>address</code>         | IP address of switch/stack    |
| <code>bootp</code>           | Displays bootp settings       |
| <code>default-gateway</code> | IP address of default gateway |

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## show ip rip interface (Privileged Executive)

Displays per-interface RIP configuration.

### Syntax

- show ip rip interface [<1-4094> | ethernet <LINE> | vlan <1-4094>] enabled

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter       | Description                         |
|-----------------|-------------------------------------|
| <1-4094>        | Vlan ID                             |
| enabled         | Display only enabled RIP interfaces |
| ethernet <LINE> | Ethernet IEEE 802.3                 |
| vlan <1-4094>   | vlan interfaces only                |

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## show ip rip interface (User Executive)

Displays per-interface RIP configuration.

### Syntax

- show ip rip interface [<1-4094> | ethernet <LINE> | vlan <1-4094>] enabled

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter | Description                         |
|-----------|-------------------------------------|
| <1-4094>  | Vlan ID                             |
| enabled   | Display only enabled RIP interfaces |
| Ethernet  | Ethernet IEEE 802.3                 |
| LINE      | List of ports                       |
| vlan      | vlan interfaces only                |



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## show ip rip (Privileged Executive)

Displays global RIP settings.

### Syntax

- `show ip rip`

### Default

None

### Command mode

Privileged Executive

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## show ip rip stats (Privileged Executive)

Displays per-interface RIP statistics.

### Syntax

- `show ip rip stats`

### Default

None

### Command mode

Privileged Executive

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## show ip rip stats (User Executive)

Displays per-interface RIP statistics.

### Syntax

- `show ip rip stats`

### Default

None

### Command mode

User Executive

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## show ip rip (User Executive)

Displays global RIP settings.

### Syntax

- `show ip rip`

### Default

None

### Command mode

User Executive

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## show ip route (Privileged Executive)

Displays IP route information.

### Syntax

- `show ip route {[ospf | rip | static] [-s {A.B.C.D} <subnet-mask>] [A.B.C.D] } | summary`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter     | Description                                 |
|---------------|---------------------------------------------|
| <subnet-mask> | subnet mask                                 |
| A.B.C.D       | specify IP addr of route to be displayed    |
| ospf          | Display IP OSPF route(s) information        |
| rip           | Display IP RIP route(s) information         |
| -s            | specify subnet(s) of routes to be displayed |
| static        | Display IP static route(s) information      |
| summary       | Display summary of IP route information     |

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## show ip route (User Executive)

Displays IP route information.

### Syntax

- `show ip route [ospf] [rip] [static] [A.B.C.D] [-s <subnet-ip> <mask-ip>] [summary]`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter   | Description                                 |
|-------------|---------------------------------------------|
| <mask-ip>   | subnet mask                                 |
| <subnet-ip> | subnet IP                                   |
| A.B.C.D     | specify IP addr of route to be displayed    |
| ospf        | Display IP OSPF route(s) information        |
| rip         | Display IP RIP route(s) information         |
| -s          | specify subnet(s) of routes to be displayed |
| static      | Display IP static route(s) information      |
| summary     | Display summary of IP route information     |

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## show ip routing (Privileged Executive)

Displays global routing enable/disable.

### Syntax

- show ip routing

### Default

None

### Command mode

Privileged Executive

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## show ip routing (User Executive)

Displays global routing enable/disable.

### Syntax

- `show ip routing`

### Default

None

### Command mode

User Executive



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## show ip source

Displays IP Source Guard address bindings.

### Syntax

- `show ip source binding {{A.B.C.D}} | interface [ethernet] <WORD>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                                             |
|-----------|---------------------------------------------------------|
| <WORD>    | port list                                               |
| A.B.C.D   | specify ip address for which to display binding entries |
| binding   | Display IP Source Guard address bindings                |
| Ethernet  | Select Ethernet interfaces                              |
| interface | select interfaces                                       |

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## show ip (User Executive)

Displays IP-related information.

### Syntax

- `show ip [bootp] [default-gateway] [address] {source | stack | switch | unit <1-8>}`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter       | Description                                          |
|-----------------|------------------------------------------------------|
| address         | IP address of switch/stack                           |
| bootp           | Displays bootp settings                              |
| default-gateway | IP address of default gateway                        |
| source          | Display BOOTP/DHCP settings                          |
| stack           | Display stack ip address                             |
| switch          | Display the ip address of local unit                 |
| unit <1-8>      | To display the IP address of another unit in a stack |

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## show ipv6 address interface (Privileged Executive)

Displays addresses for IPv6 interfaces.

### Syntax

- `show ipv6 address interface {summary | vlan <1-4094> | <WORD>}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter     | Description                                    |
|---------------|------------------------------------------------|
| <WORD>        | IPv6 Address, 45 length                        |
| summary       | Display IPv6 interfaces summary                |
| vlan <1-4094> | Display per vlan addresses for IPv6 interfaces |

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## show ipv6 address interface (User Executive)

Displays addresses for IPv6 interfaces.

### Syntax

- `show ipv6 address interface {summary | vlan <1-4094> | <WORD>}`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter     | Description                                      |
|---------------|--------------------------------------------------|
| <WORD>        | IPv6 Address, 45 length                          |
| summary       | Displays IPv6 interfaces summary.                |
| vlan <1-4094> | Displays per vlan addresses for IPv6 interfaces. |

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## show ipv6 address (Privileged Executive)

Displays configured ipv6 addresses.

### Syntax

- `show ip {stack | switch | unit <1-8>}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter  | Description                                                       |
|------------|-------------------------------------------------------------------|
| stack      | Display configured stack ipv6 address/prefix                      |
| switch     | Display configured IPv6 address/prefix of local unit              |
| unit <1-8> | Display configured IPv6 address/prefix of another unit in a stack |

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## show ipv6 address (User Executive)

Displays configured ipv6 addresses.

### Syntax

- `show ipv6 address {stack | switch | unit <1-8>}`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter  | Description                                                       |
|------------|-------------------------------------------------------------------|
| stack      | Display configured stack ipv6 address/prefix                      |
| switch     | Display configured IPv6 address/prefix of local unit              |
| unit <1-8> | Display configured IPv6 address/prefix of another unit in a stack |

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## show ipv6 default-gateway (Privileged Executive)

Displays IPv6 default gateway.

### Syntax

- `show ipv6 default-gateway`

### Default

None

### Command mode

Privileged Executive

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## show ipv6 default-gateway (User Executive)

Displays IPv6 default gateway.

### Syntax

- `show ipv6 default-gateway`

### Default

None

### Command mode

User Executive



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## show ipv6 default-routers (Privileged Executive)

Displays IPv6 default routers configuration.

### Syntax

- `show ipv6 default-routers`

### Default

None

### Command mode

Privileged Executive

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## show ipv6 default-routers (User Executive)

Displays IPv6 default routers configuration.

### Syntax

- `show ipv6 default-routers`

### Default

None

### Command mode

User Executive

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## show ipv6 destinationcache (Privileged Executive)

Displays IPv6 destination cache information.

### Syntax

- show ipv6 destinationcache

### Default

None

### Command mode

Privileged Executive

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## show ipv6 destinationcache (User Executive)

Displays IPv6 destination cache information.

### Syntax

- `show ipv6 destinationcache`

### Default

None

### Command mode

User Executive

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## show ipv6 dhcp guard policy (Privileged Executive)

Displays the Dynamic Host Configuration Protocol (DHCP) guard policy information.

### Syntax

- show ipv6 dhcp guard policy [<WORD>]

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                     |
|-----------|---------------------------------|
| <WORD>    | Specifies the DHCP policy name. |

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## show ipv6 dhcp guard policy (User Executive)

Displays the Dynamic Host Configuration Protocol (DHCP) guard policy information.

### Syntax

- show ipv6 dhcp guard policy [<WORD>]

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter | Description                     |
|-----------|---------------------------------|
| <WORD>    | Specifies the DHCP policy name. |

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## show ipv6 fhs capture-policy (Privileged Executive)

Displays the Dynamic Host Configuration Protocol for IPv6 (DHCPv6)/Router Advertisement (RA) guard policy name configured, number of DHCPv6/RA packets received, number of DHCPv6/RA packets dropped, and if dynamic learning is enabled or disabled for neighbor discovery inspection configuration.

### Syntax

### Default

None

### Command mode

Privileged Executive

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## show ipv6 fhs capture-policy (User Executive)

Displays the Dynamic Host Configuration Protocol for IPv6 (DHCPv6)/Router Advertisement (RA) guard policy name configured, number of DHCPv6/RA packets received, number of DHCPv6/RA packets dropped, and if dynamic learning is enabled or disabled for neighbor discovery inspection configuration.

### Syntax

- `show ipv6 fhs capture-policy [interface <LINE>]`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter        | Description                                                               |
|------------------|---------------------------------------------------------------------------|
| Interface <LINE> | Displays the first hop security statistics for the port number specified. |

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## show ipv6 fhs ipv6-access-list (Privileged Executive)

Displays all of the configured IPv6 access lists in the system.

### Syntax

- `show ipv6 fhs ipv6-access-list [<WORD>]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                                                       |
|-----------|-------------------------------------------------------------------|
| <WORD>    | Displays the IPv6 access list for the access list name specified. |

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## show ipv6 fhs ipv6-access-list (User Executive)

Displays all of the configured IPv6 access lists in the system.

### Syntax

- `show ipv6 fhs ipv6-access-list [<WORD>]`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter | Description                                                       |
|-----------|-------------------------------------------------------------------|
| <WORD>    | Displays the IPv6 access list for the access list name specified. |

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## show ipv6 fhs mac-access-list (Privileged Executive)

Displays all of the MAC access lists in the system.

### Syntax

- `show ipv6 fhs mac-access-list [<WORD>]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                                                               |
|-----------|---------------------------------------------------------------------------|
| <WORD>    | Displays the IPv6 MAC access list for the MAC access list name specified. |

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## show ipv6 fhs mac-access-list (User Executive)

Displays all of the MAC access lists in the system.

### Syntax

- `show ipv6 fhs mac-access-list [<WORD>]`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter | Description                                                               |
|-----------|---------------------------------------------------------------------------|
| <WORD>    | Displays the IPv6 MAC access list for the MAC access list name specified. |

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## show ipv6 fhs status (Privileged Executive)

Displays the global first hop security (FHS) status, router advertisement (RA) guard status, Dynamic Host Configuration Protocol for IPv6 (DHCPv6), neighbor discovery (ND) inspection status, reachable timer value, stale timer value, down timer value and source binding table (SBT) entry overflow.

### Syntax

- `show ipv6 fhs status`

### Default

None

### Command mode

Privileged Executive

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## show ipv6 fhs status (User Executive)

Displays the global first hop security (FHS) status, router advertisement (RA) guard status, Dynamic Host Configuration Protocol for IPv6 (DHCPv6), neighbor discovery (ND) inspection status, reachable timer value, stale timer value, down timer value and source binding table (SBT) entry overflow.

### Syntax

- `show ipv6 fhs status`

### Default

None

### Command mode

User Executive

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## show ipv6 forwarding (Privileged Executive)

Displays IPv6 forwarding information.

### Syntax

- `show ipv6 forwarding`

### Default

None

### Command mode

Privileged Executive

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## show ipv6 forwarding (User Executive)

Displays IPv6 forwarding information.

### Syntax

- `show ipv6 forwarding`

### Default

None

### Command mode

User Executive



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## show ipv6 global (Privileged Executive)

Displays IPv6 global configuration.

### Syntax

- `show ipv6 global`

### Default

None

### Command mode

Privileged Executive

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## show ipv6 global (User Executive)

Displays IPv6 global configuration.

### Syntax

- `show ipv6 global`

### Default

None

### Command mode

User Executive

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## show ipv6 interface icmpstatistics

Displays IPv6 ICMP statistics.

### Syntax

- `show ipv6 interface icmpstatistics [loopback <1-16>][tunnel <1-2147483647>] [vlan <1-4094>}`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter             | Description                          |
|-----------------------|--------------------------------------|
| loopback <1-16>       | Displays by IPv6 loopback interface. |
| tunnel <1-2147483647> | Displays by tunnel.                  |
| vlan <1-4094>         | Displays by VLAN.                    |

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## show ipv6 interface icmpstatistics (Privileged Executive)

Displays IPv6 ICMP statistics.

### Syntax

- `show ipv6 interface icmpstatistics [loopback <1-16>][tunnel <1-2147483647>] [vlan <1-4094>]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter             | Description                          |
|-----------------------|--------------------------------------|
| loopback <1-16>       | Displays by IPv6 loopback interface. |
| tunnel <1-2147483647> | Displays by tunnel.                  |
| vlan <1-4094>         | Displays by VLAN.                    |

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## show ipv6 interface (Privileged Executive)

Displays interface information.

### Syntax

- `show ipv6 interface [loopback <1-16>][vlan <1-4094>]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                                | Description                     |
|------------------------------------------|---------------------------------|
| <code>icmpstatistics</code>              | Displays IPv6 ICMP statistics.  |
| <code>loopback &lt;1-16&gt;</code>       | Displays by loopback interface. |
| <code>statistics</code>                  | Displays IPv6 statistics.       |
| <code>tunnel &lt;1-2147483647&gt;</code> | Displays by tunnel.             |
| <code>vlan &lt;1-4094&gt;</code>         | Displays by VLAN.               |

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## show ipv6 interface process-redirect

Displays IPv6 processing redirect.

### Syntax

- `show ipv6 interface process-redirect [vlan <1-4094>]`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter                        | Description       |
|----------------------------------|-------------------|
| <code>vlan &lt;1-4094&gt;</code> | Displays by VLAN. |

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## show ipv6 interface process-redirect (Privileged Executive)

Displays IPv6 processing redirect.

### Syntax

- `show ipv6 interface process-redirect [vlan <1-4094>]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                        | Description       |
|----------------------------------|-------------------|
| <code>vlan &lt;1-4094&gt;</code> | Displays by VLAN. |

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## show ipv6 interface statistics

Displays IPv6 statistics.

### Syntax

- `show ipv6 interface statistics [loopback <1-16>][tunnel <1-2147483647>][vlan <1-4094>]`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter             | Description                     |
|-----------------------|---------------------------------|
| loopback <1-16>       | Displays by loopback interface. |
| tunnel <1-2147483647> | Displays by tunnel.             |
| vlan <1-4094>         | Displays by VLAN.               |

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## show ipv6 interface statistics (Privileged Executive)

Displays IPv6 statistics.

### Syntax

- `show ipv6 interface statistics [loopback <1-16>][tunnel <1-2147483647>][vlan <1-4094>]`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter                                | Description                     |
|------------------------------------------|---------------------------------|
| <code>loopback &lt;1-16&gt;</code>       | Displays by loopback interface. |
| <code>tunnel &lt;1-2147483647&gt;</code> | Displays by tunnel.             |
| <code>vlan &lt;1-4094&gt;</code>         | Displays by VLAN.               |

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## show ipv6 interface (User Executive)

Displays interface information.

### Syntax

- `show ipv6 interface [loopback <1-16>] [ vlan <1-4094>]`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter                          | Description                        |
|------------------------------------|------------------------------------|
| <code>loopback &lt;1-16&gt;</code> | Displays IPv6 loopback interfaces. |
| <code>vlan &lt;1-4094&gt;</code>   | Displays IPv6 VLAN interfaces.     |

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## show ipv6 mld-cache interface

Displays the learned multicast groups in the cache.

### Syntax

- `show ipv6 mld-cache interface [vlan <1-4094>]`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter                        | Description       |
|----------------------------------|-------------------|
| <code>vlan &lt;1-4094&gt;</code> | Displays by VLAN. |

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## show ipv6 mld-cache interface (Privileged Executive)

Displays the learned multicast groups in the cache.

### Syntax

- `show ipv6 mld-cache interface [vlan <1-4094>]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                        | Description       |
|----------------------------------|-------------------|
| <code>vlan &lt;1-4094&gt;</code> | Displays by VLAN. |

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## show ipv6 mld group

Displays the learned multicast groups information.

### Syntax

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                  | Description                                                                                              |
|----------------------------|----------------------------------------------------------------------------------------------------------|
| count                      | Displays the count of entries.                                                                           |
| group <WORD>               | Displays the group by IPv6 address. <WORD> specifies the IPv6 address.                                   |
| interface vlan<br><1-4094> | Displays the VLAN interfaces.                                                                            |
| member-subnet<br><WORD>    | Displays the subnet-mask for group member network by IPv6 address.<br><WORD> specifies the IPv6 address. |
| port <LINE>                | Filters information by port number or a list of ports. <LINE> specifies the port or list of ports.       |

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## show ipv6 mld-host-cache

Displays the learned multicast groups in the host cache.

### Syntax

- `show ipv6 mld-host-cache [interface <1-4094>]`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter          | Description       |
|--------------------|-------------------|
| interface <1-4094> | Displays by VLAN. |

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## show ipv6 mld-host-cache (Privileged Executive)

Displays the learned multicast groups in the host cache.

### Syntax

- `show ipv6 mld-host-cache [interface <1-4094>]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter          | Description       |
|--------------------|-------------------|
| interface <1-4094> | Displays by VLAN. |

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## show ipv6 mld interface

Displays the learned multicast groups interface.

### Syntax

- `show ipv6 mld interface [vlan <1-4094>]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                        | Description       |
|----------------------------------|-------------------|
| <code>vlan &lt;1-4094&gt;</code> | Displays by VLAN. |

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## show ipv6 mld snooping

Displays the learned multicast groups snooping information.

### Syntax

- `show ipv6 mld snooping`

### Default

None

### Command mode

User Executive

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## show ipv6 nd interface

Displays the neighbor discovery (ND) interface configuration.

### Syntax

- `show ipv6 nd interface [<1-4094>][details][vlan]`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter | Description                                                           |
|-----------|-----------------------------------------------------------------------|
| <1-4094>  | Displays IPv6 neighbor discovery information by VLAN ID.              |
| details   | Displays IPv6 neighbor discovery details by on the interface.         |
| vlan      | Displays IPv6 neighbor discovery information on VLAN interfaces only. |

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## show ipv6 nd interface (Privileged Executive)

Displays the neighbor discovery (ND) interface configuration.

### Syntax

- `show ipv6 nd interface [<1-4094>][details][vlan]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                                                           |
|-----------|-----------------------------------------------------------------------|
| <1-4094>  | Displays IPv6 neighbor discovery information by VLAN ID.              |
| details   | Displays IPv6 neighbor discovery details by on the interface.         |
| vlan      | Displays IPv6 neighbor discovery information on VLAN interfaces only. |

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## show ipv6 nd-prefix interface

Displays the neighbor discovery (ND) prefix information.

### Syntax

- `show ipv6 nd-prefix interface [<1-4094>][details][vlan]`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter | Description                                                                  |
|-----------|------------------------------------------------------------------------------|
| <1-4094>  | Displays IPv6 neighbor discovery prefix information by VLAN ID.              |
| details   | Displays IPv6 neighbor discovery prefix details by on the interface.         |
| vlan      | Displays IPv6 neighbor discovery prefix information on VLAN interfaces only. |

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## show ipv6 nd-prefix interface (Privileged Executive)

Displays the neighbor discovery (ND) prefix information.

### Syntax

- `show ipv6 nd-prefix interface [<1-4094>][details][vlan]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                                                                  |
|-----------|------------------------------------------------------------------------------|
| <1-4094>  | Displays IPv6 neighbor discovery prefix information by VLAN ID.              |
| details   | Displays IPv6 neighbor discovery prefix details by on the interface.         |
| vlan      | Displays IPv6 neighbor discovery prefix information on VLAN interfaces only. |

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## show ipv6 nd raguard policy

Displays the neighbor discovery (ND) router advertisement (RA) guard policy information.

### Syntax

- show ipv6 nd raguard policy [<WORD>]

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter | Description                  |
|-----------|------------------------------|
| <WORD>    | Displays by the policy name. |

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## show ipv6 nd rguard policy (Privileged Executive)

Displays the neighbor discovery (ND) router advertisement (RA) guard policy information.

### Syntax

- show ipv6 nd rguard policy [<WORD>]

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                  |
|-----------|------------------------------|
| <WORD>    | Displays by the policy name. |

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## show ipv6 neighbor binding

Displays source binding table (SBT) entries and other timer values.

### Syntax

- `show ipv6 neighbor binding [interface Ethernet <LINE>][ipv6 <WORD>][vlan <1-4094>]`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter                                    | Description                                                                 |
|----------------------------------------------|-----------------------------------------------------------------------------|
| <code>interface Ethernet &lt;LINE&gt;</code> | Displays SBT entries and other timer values by Ethernet interface and port. |
| <code>vlan &lt;1-4094&gt;</code>             | Displays SBT entries and other timer values by VLAN.                        |

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## show ipv6 neighbor binding (Privileged Executive)

Displays source binding table (SBT) entries and other timer values.

### Syntax

- `show ipv6 neighbor binding [interface Ethernet <LINE>][ipv6 <WORD>][vlan <1-4094>]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                 | Description                                                                 |
|---------------------------|-----------------------------------------------------------------------------|
| interface Ethernet <LINE> | Displays SBT entries and other timer values by Ethernet interface and port. |
| ipv6 <WORD>               | Displays SBT entries and other timer values by IPv6 address.                |
| vlan <1-4094>             | Displays SBT entries and other timer values by VLAN.                        |

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## show ipv6 neighbor interface

Displays IPv6 neighbor information by interface.

### Syntax

- `show ipv6 neighbor interface [loopback <1-16>][tunnel <1-2147483647>][vlan <1-4094>]`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter             | Description                                          |
|-----------------------|------------------------------------------------------|
| loopback <1-16>       | Displays neighbor information by loopback interface. |
| tunnel <1-2147483647> | Displays neighbor information by tunnel.             |
| vlan <1-4094>         | Displays neighbor information by VLAN.               |

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## show ipv6 neighbor interface (Privileged Executive)

Displays IPv6 neighbor information by interface.

### Syntax

- `show ipv6 neighbor interface [loopback <1-16>][tunnel <1-2147483647>][vlan <1-4094>]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter             | Description                                          |
|-----------------------|------------------------------------------------------|
| loopback <1-16>       | Displays neighbor information by loopback interface. |
| tunnel <1-2147483647> | Displays neighbor information by tunnel.             |
| vlan <1-4094>         | Displays neighbor information by VLAN.               |

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## show ipv6 neighbor (Privileged Executive)

Displays IPv6 neighbor information.

### Syntax

- `show ipv6 neighbor interface {loopback <1-16>|tunnel <1-2147483647> | vlan <1-4094>}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter             | Description            |
|-----------------------|------------------------|
| <WORD>                | IPv6 address           |
| loopback <1-16>       | Displays the loopback. |
| tunnel <1-2147483647> | Display by tunnel      |
| vlan <1-4094>         | Displays by VLAN.      |

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## show ipv6 neighbor summary

Displays summary of IPv6 Neighbor Table.

### Syntax

- `show ipv6 neighbor summary`

### Default

None

### Command mode

User Executive

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## show ipv6 neighbor type

Displays by type.

### Syntax

- `show ipv6 neighbor [<WORD>] type {dynamic | local | other | static}`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter | Description                           |
|-----------|---------------------------------------|
| <WORD>    | IPv6 address                          |
| dynamic   | Display dynamically learned neighbors |
| local     | Display local neighbor address        |
| other     | Display other neighbor entries        |
| static    | Display manually configured neighbors |

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## show ipv6 neighbor (User Executive)

Displays IPv6 neighbor information.

### Syntax

- `show ipv6 neighbor interface {loopback <1-16>|tunnel <1-2147483647> | vlan <1-4094>}`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter                                | Description            |
|------------------------------------------|------------------------|
| <code>loopback &lt;1-16&gt;</code>       | Displays the loopback. |
| <code>tunnel &lt;1-2147483647&gt;</code> | Display by tunnel.     |
| <code>vlan &lt;1-4094&gt;</code>         | Displays by VLAN.      |

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## show ipv6 tcp connections (Privileged Executive)

Displays IPv6 tcp connections.

### Syntax

- `show ipv6 tcp connections`

### Default

None

### Command mode

Privileged Executive



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## show ipv6 tcp connections (User Executive)

Displays IPv6 tcp connections.

### Syntax

- `show ipv6 tcp connections`

### Default

None

### Command mode

User Executive

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## show ipv6 tcp listener (Privileged Executive)

Displays IPv6 tcp listeners.

### Syntax

- `show ipv6 tcp listener`

### Default

None

### Command mode

Privileged Executive

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## show ipv6 tcp listener (User Executive)

Displays IPv6 tcp listeners.

### Syntax

- `show ipv6 tcp listener`

### Default

None

### Command mode

User Executive

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## show ipv6 tcp (Privileged Executive)

Displays IPV6 tcp info.

### Syntax

- `show ipv6 tcp`

### Default

None

### Command mode

Privileged Executive

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## show ipv6 tcp (User Executive)

Displays IPV6 tcp info.

### Syntax

- `show ipv6 tcp`

### Default

None

### Command mode

User Executive

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## show ipv6 udp (Privileged Executive)

Displays IPv6 udp global.

### Syntax

- show ipv6 udp endpoints

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                |
|-----------|----------------------------|
| endpoints | Display ipv6 udp endpoints |

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## show ipv6 udp (User Executive)

Displays IPv6 udp global.

### Syntax

- show ipv6 udp endpoints

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter | Description                |
|-----------|----------------------------|
| endpoints | Display ipv6 udp endpoints |

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## show ip verify

Displays IP Source Guard settings.

### Syntax

- `show ip verify source [statistics] interface [ethernet] <WORD>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter  | Description                        |
|------------|------------------------------------|
| <WORD>     | port list                          |
| Ethernet   | Select Ethernet interfaces         |
| interface  | select interfaces                  |
| source     | Display IP Source Guard settings   |
| statistics | Display IP Source Guard Statistics |



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## show ip vrrp address (Privileged Executive)

Shows VRRP associated addresses.

### Syntax

- `show ip vrrp address [interface] [vlan] [<1-4094>] [vrid <1-255>] addr {A.B.C.D}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter    | Description                                   |
|--------------|-----------------------------------------------|
| <1-4094>     | VLAN ID                                       |
| A.B.C.D      | Address to display in quad dotted notation    |
| addr         | Display specific address                      |
| interface    | Display addresses per interface               |
| vlan         | Display addresses on VLAN interfaces only     |
| vrid <1-255> | Display addresses associated with specific VR |

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## show ip vrrp address (User Executive)

Shows VRRP associated addresses.

### Syntax

- `show ip vrrp address [interface] [vlan] [<1-4094>] [vrid <1-255>] [addr {A.B.C.D}]`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter      | Description                                   |
|----------------|-----------------------------------------------|
| <1-4094>       | VLAN ID                                       |
| addr {A.B.C.B} | Display specific address                      |
| interface      | Display addresses per interface               |
| vlan           | Display addresses on VLAN interfaces only     |
| vrid <1-255>   | Display addresses associated with specific VR |

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## show ip vrrp interface (Privileged Executive)

Displays per-interface VRRP configuration.

### Syntax

- `show ip vrrp interface [vlan] [verbose] vrid <1-255>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter    | Description                               |
|--------------|-------------------------------------------|
| <LINE>       | VLAN ID                                   |
| verbose      | Display additional information            |
| vlan         | Display addresses on VLAN interfaces only |
| vrid <1-255> | VR ID                                     |

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## show ip vrrp interface (User Executive)

Displays per-interface VRRP configuration.

### Syntax

- `show ip vrrp interface [vlan] [<LINE>] [verbose] [vrid <1-255>]`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter    | Description                               |
|--------------|-------------------------------------------|
| <LINE>       | VLAN ID                                   |
| verbose      | Display additional information            |
| vlan         | Display addresses on VLAN interfaces only |
| vrid <1-255> | VR ID                                     |

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## show ip vrrp (Privileged Executive)

Displays global VRRP settings.

### Syntax

- `show ip vrrp`

### Default

None

### Command mode

Privileged Executive

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## show ip vrrp (User Executive)

Displays global VRRP settings.

### Syntax

- `show ip vrrp`

### Default

None

### Command mode

User Executive

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## show i-sid (Privileged Executive)

Displays all configured UNIs.

### Syntax

- `show i-sid <1-16777214>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                       | Description |
|---------------------------------|-------------|
| <code>&lt;1-16777214&gt;</code> | I-SID       |

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## show i-sid (User Executive)

Displays all configured UNIs.

### Syntax

- `show i-sid <1-16777214>`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter                       | Description |
|---------------------------------|-------------|
| <code>&lt;1-16777214&gt;</code> | I-SID       |



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## show isis adjacencies (Privileged Executive)

Displays current IS-IS adjacencies.

### Syntax

- `show isis adjacencies`

### Default

None

### Command mode

Privileged Executive

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## show isis adjacencies (User Executive)

Displays current IS-IS adjacencies.

### Syntax

- `show isis adjacencies`

### Default

None

### Command mode

User Executive

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## show isis int-auth (Privileged Executive)

Displays IS-IS interface authentication configuration.

### Syntax

- `show isis int-auth`

### Default

None

### Command mode

Privileged Executive

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## show isis int-auth (User Executive)

Displays IS-IS interface authentication configuration.

### Syntax

- `show isis int-auth`

### Default

None

### Command mode

User Executive

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## show isis int-ckt-level (Privileged Executive)

Displays IS-IS circuit level timers.

### Syntax

- `show isis int-ckt-level`

### Default

None

### Command mode

Privileged Executive

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## show isis int-ckt-level (User Executive)

Displays IS-IS circuit level timers.

### Syntax

- `show isis int-ckt-level`

### Default

None

### Command mode

User Executive

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## show isis int-counters (Privileged Executive)

Displays IS-IS interface counters.

### Syntax

- `show isis int-counters`

### Default

None

### Command mode

Privileged Executive

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## show isis int-counters (User Executive)

Displays IS-IS interface counters.

### Syntax

- `show isis int-counters`

### Default

None

### Command mode

User Executive



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## show isis interface (Privileged Executive)

Displays IS-IS interface configuration and status data.

### Syntax

- `show isis interface 11`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                                                       |
|-----------|-------------------------------------------------------------------|
| 11        | Display IS-IS interface configuration and status data for Level-1 |

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## show isis interface (User Executive)

Displays IS-IS interface configuration and status data.

### Syntax

- `show isis interface 11`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter | Description                                                       |
|-----------|-------------------------------------------------------------------|
| 11        | Display IS-IS interface configuration and status data for Level-1 |

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## show isis int-l1-cntl-pkts (Privileged Executive)

Displays IS-IS Level 1 control packet counters.

### Syntax

- `show isis int-l1-cntl-pkts`

### Default

None

### Command mode

Privileged Executive

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## show isis int-l1-cntl-pkts (User Executive)

Displays IS-IS Level 1 control packet counters.

### Syntax

- `show isis int-l1-cntl-pkts`

### Default

None

### Command mode

User Executive

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## show isis int-timers (Privileged Executive)

Displays IS-IS interface timers.

### Syntax

- `show isis int-timers`

### Default

None

### Command mode

Privileged Executive

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## show isis int-timers (User Executive)

Displays IS-IS interface timers.

### Syntax

- `show isis int-timers`

### Default

None

### Command mode

User Executive

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## show isis lsdb (Privileged Executive)

Displays IS-IS LSDB.

### Syntax

- `show isis lsdb [level 11] [sysid <H.H.H>] [lsp-id <WORD>] [tlv <WORD>] [detail]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                        | Description                                                                                                                                                                                 |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>detail</code>              | Display details                                                                                                                                                                             |
| <code>level 11</code>            | Level of the external router                                                                                                                                                                |
| <code>lsp-id &lt;WORD&gt;</code> | LSP ID assigned to the external IS-IS routing device                                                                                                                                        |
| <code>sysid &lt;H.H.H&gt;</code> | System ID                                                                                                                                                                                   |
| <code>tlv &lt;WORD&gt;</code>    | Enter tlv type: 1(Area Addresses), 3(End System Neighbors), 5(Prefix Neighbors), 22(TE Neighbors), 128(IP Addresses), 129(Protocol Supported), 135(TE IP Reachability), 144(Multi Topology) |

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## show isis lsdB (User Executive)

Displays IS-IS LSDB.

### Syntax

- `show isis lsdB [level 11] [sysid <H.H.H>] [lsp-id <WORD>] [detail] [tlv <WORD>]`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter        | Description                                                                                                                                                                                 |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| detail           | Display details                                                                                                                                                                             |
| level 11         | Level of the external router                                                                                                                                                                |
| lsp-id<br><WORD> | LSP ID assigned to the external IS-IS routing device                                                                                                                                        |
| sysid<br><H.H.H> | System ID                                                                                                                                                                                   |
| tlv<br><WORD>    | Enter tlv type: 1(Area Addresses), 3(End System Neighbors), 5(Prefix Neighbors), 22(TE Neighbors), 128(IP Addresses), 129(Protocol supported), 135(TE IP Reachability), 144(Multi Topology) |



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## show isis manual-area (Privileged Executive)

Displays configured IS-IS manual area.

### Syntax

- `show isis manual-area`

### Default

None

### Command mode

Privileged Executive

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## show isis manual-area (User Executive)

Displays configured IS-IS manual area.

### Syntax

- `show isis manual-area`

### Default

None

### Command mode

User Executive

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## show isis net (Privileged Executive)

Displays IS-IS NET address.

### Syntax

- `show isis net`

### Default

None

### Command mode

Privileged Executive

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## show isis net (User Executive)

Displays IS-IS NET address.

### Syntax

- `show isis net`

### Default

None

### Command mode

User Executive

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## show isis (Privileged Executive)

Displays IS-IS related information.

### Syntax

- `show isis`

### Default

None

### Command mode

Privileged Executive

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## show isis spbm i-sid (Privileged Executive)

Displays IS-IS SPBM multicast FIB calculation results by I-SID.

### Syntax

- `show isis spbm i-sid {all | config | discover} [vlan <0-4094>] [id <1-16777215>] [nick-name <WORD>]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter        | Description                                                   |
|------------------|---------------------------------------------------------------|
| all              | Display all SPBM I-SID                                        |
| config           | Display configured SPBM I-SID                                 |
| discover         | Display discovered SPBM I-SID                                 |
| id <1-16777215>  | IS-IS SPBM I-SID identifier                                   |
| nick-name <WORD> | Nickname of the node where I-SID was configured or discovered |
| vlan <0-4094>    | B-VLAN where this I-SID was configured or discovered          |

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## show isis spbm i-sid (User Executive)

Displays IS-IS SPBM multicast FIB calculation results by I-SID.

### Syntax

- `show isis spbm i-sid {all | config | discover} [vlan <0-4094>] [id <1-16777215>] nick-name <WORD>`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter        | Description                                     |
|------------------|-------------------------------------------------|
| all              | Display all SPBM I-SID                          |
| config           | Display configured SPBM I-SID                   |
| discover         | Display discovered SPBM I-SID                   |
| id <1-16777215>  | IS-IS SPBM I-SID identifier                     |
| nick-name <WORD> | Nickname of the node where I-SID was configured |
| vlan <0-4094>    | B-VLAN where this I-SID was configured          |

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## show isis spbm multicast-fib (Privileged Executive)

Displays SPBM multicast FIB.

### Syntax

- `show isis spbm multicast-fib [vlan <0-4094>] [i-sid <1-16777214>] [nick-name <WORD>] summary`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                             | Description                                    |
|---------------------------------------|------------------------------------------------|
| <code>i-sid &lt;1-16777214&gt;</code> | I-SID associated with the multicast FIB entry  |
| <code>nick-name &lt;WORD&gt;</code>   | Nickname                                       |
| <code>summary</code>                  | Display summary                                |
| <code>vlan &lt;0-4094&gt;</code>      | B-VLAN associated with the multicast FIB entry |



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## show isis spbm multicast-fib (User Executive)

Displays SPBM multicast FIB.

### Syntax

- `show isis spbm multicast-fib [vlan <0-4094>] [i-sid <1-16777214>] [nick-name <WORD>] summary`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter                             | Description                                    |
|---------------------------------------|------------------------------------------------|
| <code>i-sid &lt;1-16777214&gt;</code> | I-SID associated with the multicast FIB entry  |
| <code>nick-name &lt;WORD&gt;</code>   | Nickname                                       |
| <code>summary</code>                  | Display summary                                |
| <code>vlan &lt;0-4094&gt;</code>      | B-VLAN associated with the multicast FIB entry |

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## show isis spbm nick-name (Privileged Executive)

Displays SPBM network node identification data.

### Syntax

- `show isis spbm nick-name`

### Default

None

### Command mode

Privileged Executive

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## show isis spbm nick-name (User Executive)

Displays SPBM network node identification data.

### Syntax

- `show isis spbm nick-name`

### Default

None

### Command mode

User Executive

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## show isis spbm (Privileged Executive)

Displays SPBM related information.

### Syntax

- `show isis spbm`

### Default

None

### Command mode

Privileged Executive

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## show isis spbm unicast-fib (Privileged Executive)

Displays SPBM unicast FIB.

### Syntax

- `show isis spbm unicast-fib [b-mac <H.H.H>] [vlan <0-4094>] summary`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                        | Description                                  |
|----------------------------------|----------------------------------------------|
| <code>b-mac &lt;H.H.H&gt;</code> | B-MAC                                        |
| <code>summary</code>             | Display summary                              |
| <code>vlan &lt;0-4094&gt;</code> | B-VLAN associated with the unicast FIB entry |

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## show isis spbm unicast-fib (User Executive)

Displays SPBM unicast FIB.

### Syntax

- `show isis spbm unicast-fib [b-mac <H.H.H>] [vlan <0-4094>] summary`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter                        | Description                                  |
|----------------------------------|----------------------------------------------|
| <code>b-mac &lt;H.H.H&gt;</code> | B-MAC                                        |
| <code>summary</code>             | Display summary                              |
| <code>vlan &lt;0-4094&gt;</code> | B-VLAN associated with the unicast FIB entry |

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## show isis spbm unicast-tree (Privileged Executive)

Displays SPBM unicast tree.

### Syntax

- `show isis spbm unicast-tree <1-4094> destination <H.H.H>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                              | Description       |
|----------------------------------------|-------------------|
| <code>&lt;1-4094&gt;</code>            | VLAN ID           |
| <code>destination &lt;H.H.H&gt;</code> | Destination B-MAC |

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## show isis spbm unicast-tree (User Executive)

Displays SPBM unicast tree.

### Syntax

- `show isis spbm unicast-tree <1-4094> destination <H.H.H>`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter                              | Description       |
|----------------------------------------|-------------------|
| <code>&lt;1-4094&gt;</code>            | VLAN ID           |
| <code>destination &lt;H.H.H&gt;</code> | Destination B-MAC |

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## show isis spbm (User Executive)

Displays SPBM related information.

### Syntax

- `show isis spbm`

### Default

None

### Command mode

User Executive

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## show isis statistics (Privileged Executive)

Displays IS-IS system statistics.

### Syntax

- `show isis statistics`

### Default

None

### Command mode

Privileged Executive

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## show isis statistics (User Executive)

Displays IS-IS system statistics.

### Syntax

- `show isis statistics`

### Default

None

### Command mode

User Executive

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## show isis system-id (Privileged Executive)

Displays IS-IS system ID.

### Syntax

- `show isis system-id`

### Default

None

### Command mode

Privileged Executive

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## show isis system-id (User Executive)

Displays IS-IS system ID.

### Syntax

- `show isis system-id`

### Default

None

### Command mode

User Executive

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## show isis (User Executive)

Displays IS-IS related information.

### Syntax

- `show isis`

### Default

None

### Command mode

User Executive

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## show jumbo-frames

Displays jumbo-frames support.

### Syntax

- show jumbo-frames

### Default

None

### Command mode

Privileged Executive

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## show lacp aggr

Displays LACP aggregator information.

### Syntax

- show lacp aggr <1-65535>

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description |
|-----------|-------------|
| <1-65535> | Aggr ID     |



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## show lacp debug

Displays LACP port debug information.

### Syntax

- show lacp debug member <WORD>

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                                               |
|-----------|-----------------------------------------------------------|
| <WORD>    | List of ports                                             |
| member    | Display LACP port debug information for specified port(s) |

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## show lacp key

Displays MLTs or MLTs/SMLTs reserved for LACP key values.

### Syntax

- show lacp key <1-4095>

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description    |
|-----------|----------------|
| <1-4095>  | LACP key value |

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## show lacp port

Displays LACP port information.

### Syntax

- `show lacp port {aggr <1-65535> | key <1-4095> | <WORD>}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter      | Description                                    |
|----------------|------------------------------------------------|
| <WORD>         | List of ports                                  |
| aggr <1-65535> | select ports that are members of an aggregator |
| key <1-4095>   | Select ports that have a specific key          |

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## show lacp stats

Displays LACP statistics information.

### Syntax

- `show lacp stats`

### Default

None

### Command mode

Privileged Executive

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## show lacp system

Displays LACP system settings.

### Syntax

- `show lacp system`

### Default

None

### Command mode

Privileged Executive

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## show license

Displays licenses.

### Syntax

- `show license {<1-10> | all} verbose`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                    |
|-----------|--------------------------------|
| <1-10>    | Select license to be displayed |
| all       | Display all licenses           |
| verbose   | Display verbose license info   |

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## show link-state (Privileged Executive)

Displays link-state tracking configuration.

### Syntax

- `show link-state [group <1-2>] detail`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                      | Description                                                    |
|--------------------------------|----------------------------------------------------------------|
| <code>detail</code>            | Display detailed configuration                                 |
| <code>group &lt;1-2&gt;</code> | Display link-state tracking configuration for a specific group |

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## show link-state (User Executive)

Displays link-state tracking configuration.

### Syntax

- `show link-state [group <1-2>] detail`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter                      | Description                                                    |
|--------------------------------|----------------------------------------------------------------|
| <code>detail</code>            | Display detailed configuration                                 |
| <code>group &lt;1-2&gt;</code> | Display link-state tracking configuration for a specific group |

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## show lldp local-sys-data (Privileged Executive)

Displays 802.1ab local system data.

### Syntax

- `show lldp local-sys-data [dot1] [dot3] [med] [detail]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter           | Description                                        |
|---------------------|----------------------------------------------------|
| <code>detail</code> | Display all TLVs                                   |
| <code>dot1</code>   | Display IEEE 802.1 Organizationally specific TLVs  |
| <code>dot3</code>   | Display IEEE 802.3 Organizationally specific TLVs  |
| <code>med</code>    | Display Media Endpoint Devices (MED) specific TLVs |

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## show lldp local-sys-data (User Executive)

Displays 802.1ab local system data.

### Syntax

- `show lldp local-sys-data [dot1] [dot3] [med] [detail]`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter           | Description                                        |
|---------------------|----------------------------------------------------|
| <code>detail</code> | Display all TLVs                                   |
| <code>dot1</code>   | Display IEEE 802.1 Organizationally specific TLVs  |
| <code>dot3</code>   | Display IEEE 802.3 Organizationally specific TLVs  |
| <code>med</code>    | Display Media Endpoint Devices (MED) specific TLVs |

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## show lldp med-network-policies (Privileged Executive)

Displays Media Endpoint Devices (MED) network policies.

### Syntax

- `show lldp med-network-policies [port <LINE>] {voice | voice-signaling}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter       | Description                              |
|-----------------|------------------------------------------|
| port <LINE>     | Port list                                |
| voice           | Display Voice Network Policies           |
| voice-signaling | Display Voice Signaling Network Policies |

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## show lldp med-network-policies (User Executive)

Displays Media Endpoint Devices (MED) network policies.

### Syntax

- `show lldp med-network-policies [port <LINE>] [voice] [voice-signaling]`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter                      | Description                              |
|--------------------------------|------------------------------------------|
| <code>port &lt;LINE&gt;</code> | Port list                                |
| <code>voice</code>             | Display Voice Network Policies           |
| <code>voice-signaling</code>   | Display Voice Signaling Network Policies |

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## show lldp mgmt-sys-data (Privileged Executive)

Displays 802.1ab management data.

### Syntax

- `show lldp mgmt-sys-data`

### Default

None

### Command mode

Privileged Executive

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## show lldp mgmt-sys-data (User Executive)

Displays 802.1ab management data.

### Syntax

- `show lldp mgmt-sys-data`

### Default

None

### Command mode

User Executive

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## show lldp neighbor-mgmt-addr (Privileged Executive)

Displays 802.1ab neighbors management addresses.

### Syntax

- `show lldp neighbor-mgmt-addr`

### Default

None

### Command mode

Privileged Executive

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## show lldp neighbor-mgmt-addr (User Executive)

Displays 802.1ab neighbors management addresses.

### Syntax

- `show lldp neighbor-mgmt-addr`

### Default

None

### Command mode

User Executive



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## show lldp neighbor (Privileged Executive)

Displays 802.1ab neighbors.

### Syntax

- show lldp neighbor [detail][dot1] [dot3] [med][protocol-id][vlan-names]
- show lldp neighbor [vendor-specific avaya][call-server] [dot1q-framing] [fa-element-type] [file-server] [phone-ip] [poe-conservation]
- show lldp neighbor [detail][dot1] [dot3] [med][protocol-id][vlan-names][vendor-specific avaya [call-server] [dot1q-framing] [fa-element-type] [file-server] [phone-ip] [poe-conservation]

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter        | Description                                                                 |
|------------------|-----------------------------------------------------------------------------|
| call-server      | Displays neighbors call-server information.                                 |
| capabilities     | Displays neighbors Media Endpoint Devices (MED) capabilities.               |
| detail           | Displays all type-length-values (TLVs).                                     |
| dot1             | Displays IEEE 802.1 Organizationally specific type-length-values (TLVs).    |
| dot1q-framing    | Displays neighbors dot1q-framing information.                               |
| dot3             | Displays IEEE 802.3 organizationally specific type-length-values (TLVs).    |
| extended-power   | Displays neighbors Media Endpoint Devices (MED) power information.          |
| fa-element-type  | Displays neighbors Fabric Attach information.                               |
| file-server      | Displays neighbors file-server information.                                 |
| inventory        | Displays neighbors Media Endpoint Devices (MED) inventory information.      |
| location         | Displays neighbors Media Endpoint Devices (MED) location information.       |
| med              | Displays Media Endpoint Devices (MED) specific type-length-values (TLVs).   |
| network-policy   | Displays neighbors Media Endpoint Devices (MED) network-policy information. |
| phone-ip         | Displays neighbors phone IP information.                                    |
| poe-conservation | Displays neighbors PoE-conservation information.                            |
| vendor-specific  | Displays the vendor-specific type-length-values (TLVs).                     |

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## show lldp neighbor (User Executive)

Displays 802.1ab neighbors.

### Syntax

- `show lldp neighbor {detail | [dot1] [dot3] [med {[capabilities] [network-policy] [location] [extended-power] [inventory]}] | vendor-specific avaya {[call-server] [dot1q-framing] [fa-element-type] [file-server] [phone-ip] [poe-conservation]}}`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter        | Description                                        |
|------------------|----------------------------------------------------|
| call-server      | Display neighbors call-server information          |
| capabilities     | Display neighbors MED capabilities                 |
| detail           | Display all TLVs                                   |
| dot1             | Display IEEE 802.1 Organizationally specific TLVs  |
| dot1q-framing    | Display neighbors dot1q-framing information        |
| dot3             | Display IEEE 802.3 Organizationally specific TLVs  |
| extended-power   | Display neighbors MED power information            |
| fa-element-type  | Display neighbors Fabric Attach information        |
| file-server      | Display neighbors file-server information          |
| inventory        | Display neighbors MED inventory information        |
| location         | Display neighbors MED location information         |
| med              | Display Media Endpoint Devices (MED) specific TLVs |
| network-policy   | Display neighbors MED network-policy information   |
| phone-ip         | Display neighbors phone-ip information             |
| poe-conservation | Display neighbors poe-conservation information     |
| vendor-specific  | Display the vendor-specific TLVs                   |

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## show lldp pdu-tlv-size (Privileged Executive)

Displays 802.1ab tlv's in pdu.

### Syntax

- `show lldp pdu-tlv-size`

### Default

None

### Command mode

Privileged Executive

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## show lldp pdu-tlv-size (User Executive)

Displays 802.1ab tlv's in pdu.

### Syntax

- `show lldp pdu-tlv-size`

### Default

None

### Command mode

User Executive

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## show lldp port (Privileged Executive)

Displays 802.1ab configuration for specified ports.

### Syntax

- show lldp port <LINE> {local-sys-data | neighbor | tx-tlv} {[detail] [dot1] [dot3] [med] [vendor-specific avaya [call-server] [dot1q-framing] [fa-element-type] [file-server] [phone-ip] [poe-conservation]] } | {vendor-specific avaya [dot1q-framing] [poe-conservation]} | neighbor-mgmt-addr | pdu-tlv-size | rx-stats | tx-stats

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter          | Description                                        |
|--------------------|----------------------------------------------------|
| call-server        | Display neighbors call-server information          |
| detail             | Display all TLVs                                   |
| dot1               | Display IEEE 802.1 Organizationally specific TLVs  |
| dot1q-framing      | Display neighbors dot1q-framing information        |
| dot3               | Display IEEE 802.3 Organizationally specific TLVs  |
| fa-element-type    | Display neighbors Fabric Attach information        |
| file-server        | Display neighbors file-server information          |
| local-sys-data     | Display 802.1ab local system data                  |
| med                | Display Media Endpoint Devices (MED) specific TLVs |
| neighbor           | Display 802.1ab neighbors                          |
| neighbor-mgmt-addr | Display 802.1ab neighbors management addresses     |
| pdu-tlv-size       | Display 802.1ab TLVs in the PDU.                   |
| phone-ip           | Display neighbors phone-ip information             |
| poe-conservation   | Display neighbors poe-conservation information     |
| rx-stats           | Display 802.1ab RX statistics                      |
| tx-stats           | Display 802.1ab TX statistics                      |
| tx-tlv             | Display 802.1ab TLVs                               |
| vendor-specific    | Display 802.1ab vendor-specific settings           |

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## show lldp port (User Executive)

Displays 802.1ab configuration for specified ports.

### Syntax

- `show lldp port <LINE> {local-sys-data | neighbor | tx-tlv} {[dot1] [dot3] [med] [detail]} [vendor-specific avaya {dot1q-framing | poe-conservation-request-level} | neighbor-mgmt-addr | pdu-tlv-size | rx-stats | tx-stats`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter                      | Description                                        |
|--------------------------------|----------------------------------------------------|
| <LINE>                         | List of ports                                      |
| detail                         | Display all TLVs                                   |
| dot1                           | Display IEEE 802.1 Organizationally specific TLVs  |
| dot1q-framing                  | Display 802.1Q framing tagging-mode                |
| dot3                           | Display IEEE 802.3 Organizationally specific TLVs  |
| local-sys-data                 | Display 802.1ab local system data                  |
| med                            | Display Media Endpoint Devices (MED) specific TLVs |
| neighbor                       | Display 802.1ab neighbors                          |
| neighbor-mgmt-addr             | Display 802.1ab neighbors management addresses     |
| pdu-tlv-size                   | Display 802.1ab TLVs in PDU.                       |
| poe-conservation-request-level | Display PoE conservation request level             |
| rx-stats                       | Display 802.1ab RX statistics                      |
| tx-stats                       | Display 802.1ab TX statistics                      |
| tx-tlv                         | Display 802.1ab TLVs                               |
| vendor-specific                | Display 802.1ab vendor-specific settings           |

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## show lldp rx-stats (Privileged Executive)

Displays 802.1ab RX statistics.

### Syntax

- `show lldp rx-stats`

### Default

None

### Command mode

Privileged Executive

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## show lldp rx-stats (User Executive)

Displays 802.1ab RX statistics.

### Syntax

- `show lldp rx-stats`

### Default

None

### Command mode

User Executive



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## show lldp stats (Privileged Executive)

Displays 802.1ab statistics.

### Syntax

- `show lldp stats`

### Default

None

### Command mode

Privileged Executive

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## show lldp stats (User Executive)

Displays 802.1ab statistics.

### Syntax

- `show lldp stats`

### Default

None

### Command mode

User Executive

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## show lldp tx-stats (Privileged Executive)

Displays 802.1ab TX statistics.

### Syntax

- `show lldp tx-stats`

### Default

None

### Command mode

Privileged Executive

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## show lldp tx-stats (User Executive)

Displays 802.1ab TX statistics.

### Syntax

- `show lldp tx-stats`

### Default

None

### Command mode

User Executive

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## show lldp tx-tlv (Privileged Executive)

Displays 802.1ab TLVs.

### Syntax

- `show lldp tx-tlv {dot1 | dot3 | med | vendor-specific avaya}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter       | Description                                        |
|-----------------|----------------------------------------------------|
| dot1            | Display IEEE 802.1 Organizationally specific TLVs  |
| dot3            | Display IEEE 802.3 Organizationally specific TLVs  |
| med             | Display Media Endpoint Devices (MED) specific TLVs |
| vendor-specific | Display Vendor-specific TLVs                       |

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## show lldp tx-tlv (User Executive)

Displays 802.1ab TLVs.

### Syntax

- `show lldp tx-tlv {dot1 | dot3 | med | vendor-specific avaya}`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter       | Description                                        |
|-----------------|----------------------------------------------------|
| dot1            | Display IEEE 802.1 Organizationally specific TLVs  |
| dot3            | Display IEEE 802.3 Organizationally specific TLVs  |
| med             | Display Media Endpoint Devices (MED) specific TLVs |
| vendor-specific | Display Vendor-specific TLVs                       |

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## show lldp vendor-specific (Privileged Executive)

Displays 802.1ab vendor-specific settings.

### Syntax

- `show lldp vendor-specific avaya {call-server | dot1q-framing | file-server | poe-conservation-request-level}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                                   | Description                             |
|---------------------------------------------|-----------------------------------------|
| <code>call-server</code>                    | Display call-server address(es).        |
| <code>dot1q-framing</code>                  | Display 802.1Q framing tagging-mode.    |
| <code>file-server</code>                    | Display file-server address(es).        |
| <code>poe-conservation-request-level</code> | Display PoE conservation request level. |

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## show lldp vendor-specific (User Executive)

Displays 802.1ab vendor-specific settings.

### Syntax

- `show lldp vendor-specific avaya {call-server | dot1q-framing | file-server | poe-conservation-request-level}`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter                                   | Description                             |
|---------------------------------------------|-----------------------------------------|
| <code>call-server</code>                    | Display call-server address(es).        |
| <code>dot1q-framing</code>                  | Display 802.1Q framing tagging-mode.    |
| <code>file-server</code>                    | Display file-server address(es).        |
| <code>poe-conservation-request-level</code> | Display PoE conservation request level. |



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## show logging

Shows the contents of logging buffers.

### Syntax

- `show logging [critical] [serious] [informational] [sort-reverse] [unit <1-8>] [config]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                     | Description                             |
|-------------------------------|-----------------------------------------|
| <code>config</code>           | Display configuration of event logging. |
| <code>critical</code>         | Critical event                          |
| <code>informational</code>    | Informational message                   |
| <code>serious</code>          | Serious event message                   |
| <code>sort-reverse</code>     | display log messages in reverse order   |
| <code>unit &lt;1-8&gt;</code> | Unit number                             |

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## show mac-address-table address

Displays specific address.

### Syntax

- `show mac-address-table address <H.H.H>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter   | Description                                                                                         |
|-------------|-----------------------------------------------------------------------------------------------------|
| <H . H . H> | Address to be displayed (i.e. H.H.H or xx.xx.xx.xx.xx.xx or xx-xx-xx-xx-xx-xx or xx:xx:xx:xx:xx:xx) |

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## show mac-address-table aging-time

Displays forwarding database aging time.

### Syntax

- `show mac-address-table aging-time`

### Default

None

### Command mode

Privileged Executive

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## show mac-address-table dynamic

Displays only dynamically learned addresses.

### Syntax

- `show mac-address-table dynamic {mlt <1-32> | vid <1-4094>} [port <LINE>] address <H.H.H>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                          | Description                                      |
|------------------------------------|--------------------------------------------------|
| <code>address &lt;H.H.H&gt;</code> | Display specific address                         |
| <code>mlt &lt;1-32&gt;</code>      | Display mac-address-table for specified trunk id |
| <code>port</code>                  | Display mac-address-table for specified ports    |
| <code>vid &lt;1-4094&gt;</code>    | Display mac-address-table for specified VLAN ID  |

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## show mac-address-table mlt

Displays mac-address-table for specified trunk id.

### Syntax

- `show mac-address-table mlt <1-32> address`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                 | Description              |
|---------------------------|--------------------------|
| <code>&lt;1-32&gt;</code> | Trunk number             |
| <code>address</code>      | Display specific address |

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## show mac-address-table port

Displays mac-address-table for specified ports.

### Syntax

- `show mac-address-table port <LINE> address <H.H.H>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter          | Description                                                                                         |
|--------------------|-----------------------------------------------------------------------------------------------------|
| <H.H.H>            | Address to be displayed (i.e. H.H.H or xx.xx.xx.xx.xx.xx or xx-xx-xx-xx-xx-xx or xx:xx:xx:xx:xx:xx) |
| <LINE>             | List of port(s)                                                                                     |
| address<br><H.H.H> | Display specific address                                                                            |

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## show mac-address-table spbm

Displays SPBM MAC entries.

### Syntax

- `show mac-address-table spbm i-sid <1-16777215>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                             | Description                                  |
|---------------------------------------|----------------------------------------------|
| <code>i-sid &lt;1-16777215&gt;</code> | Display SPBM MAC entries for specified i-sid |

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## show mac-address-table static

Displays only statically inserted addresses.

### Syntax

- `show mac-address-table static [vid <1-4094>] [port <LINE>] [mlt <1-32>] address <H.H.H>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                          | Description                                      |
|------------------------------------|--------------------------------------------------|
| <code>address &lt;H.H.H&gt;</code> | Display specific address                         |
| <code>mlt &lt;1-32&gt;</code>      | Display mac-address-table for specified trunk id |
| <code>port &lt;LINE&gt;</code>     | Display mac-address-table for specified ports    |
| <code>vid &lt;1-4094&gt;</code>    | Display mac-address-table for specified VLAN ID  |

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## show mac-address-table vid

Displays mac-address-table for specified VLAN ID.

### Syntax

- `show mac-address-table vid <1-4094> [port <LINE>] address <H.H.H>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                          | Description                                   |
|------------------------------------|-----------------------------------------------|
| <code>&lt;1-4094&gt;</code>        | VLAN ID                                       |
| <code>address &lt;H.H.H&gt;</code> | Display specific address                      |
| <code>port &lt;LINE&gt;</code>     | Display mac-address-table for specified ports |

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## show mac-security

Displays current MAC address security settings.

### Syntax

- `show mac-security {config | mac-address-table {address <H.H.H> | port <LINE>}} | mac-da-filter | port <LINE> | security-lists <LINE>}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                                | Description                                           |
|------------------------------------------|-------------------------------------------------------|
| <code>address &lt;H.H.H&gt;</code>       | Display the accessible port for specific MAC address. |
| <code>config</code>                      | Display the stack/switch MAC security configuration.  |
| <code>mac-address-table</code>           | Display the accessible MAC addresses on each port.    |
| <code>mac-da-filter</code>               | Display MAC DA filtering addresses                    |
| <code>port</code>                        | Display ports' MAC security status.                   |
| <code>port &lt;LINE&gt;</code>           | Display MAC addresses from specific port              |
| <code>security-lists &lt;LINE&gt;</code> | Display port membership of security lists             |

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## show memory-utilization (Privileged Executive)

Displays memory utilization info.

### Syntax

- `show memory-utilization unit <1-8>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                     | Description |
|-------------------------------|-------------|
| <code>unit &lt;1-8&gt;</code> | Unit number |

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## show memory-utilization (User Executive)

Displays memory utilization info.

### Syntax

- `show memory-utilization unit <1-8>`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter                     | Description |
|-------------------------------|-------------|
| <code>unit &lt;1-8&gt;</code> | Unit number |

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## show mlt

Displays Multi-Link Trunking (MLT) configuration.

### Syntax

- `show mlt {<LINE> | shutdown-ports-on-disable | spanning-tree <1-32> | utilization <1-32>}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                 | Description                                     |
|---------------------------|-------------------------------------------------|
| <LINE>                    | List of Trunk Groups                            |
| shutdown-ports-on-disable | Display disabled trunk loop prevention status   |
| spanning-tree <1-32>      | Display multi-link trunk spanning-tree settings |
| utilization <1-32>        | Display multi-link trunk utilization            |

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## show mlt hash-calc

Displays MLT hash calculations.

### Syntax

- `show mlt hash-calc <1-32> {dest-ip {A.B.C.D} src-ip {A.B.C.D} tcp-udp-dport <0-65535> tcp-udp-sport <0-65535>} | {dest-mac <H.H.H> src-mac <H.H.H> vlan <1-4094> ethertype <0x0600-0xffff> src-port <WORD>}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                 | Description                     |
|---------------------------|---------------------------------|
| <1-32>                    | MLT ID                          |
| <WORD>                    | Unit/Port                       |
| dest-ip {A.B.C.D}         | Destination IP address          |
| dest-mac <H.H.H>          | Destination MAC address         |
| ethertype <0x0600-0xffff> | Ethernet Type                   |
| src-ip {A.B.C.D}          | Source IP address               |
| src-mac <H.H.H>           | Source MAC address              |
| src-port <WORD>           | Source Port                     |
| tcp-udp-dport <0-65535>   | TCP/UDP Destination Port Number |
| tcp-udp-sport <0-65535>   | TCP/UDP Source Port Number      |
| vlan <1-4094>             | Vlan ID                         |

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## show ntp (Privileged Executive)

Displays Multi-Link Trunking (MLT) configuration .

### Syntax

- `show ntp {key | server | statistics}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter  | Description                         |
|------------|-------------------------------------|
| key        | Displays NTP key information        |
| server     | Displays NTP server information     |
| statistics | Displays NTP statistics information |

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## show ntp (User Executive)

Shows NTP information.

### Syntax

- `show ntp {server | statistics}`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter               | Description                         |
|-------------------------|-------------------------------------|
| <code>server</code>     | Displays NTP server information     |
| <code>statistics</code> | Displays NTP statistics information |

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## show nvram (Privileged Executive)

Displays NV block information.

### Syntax

- `show nvram block`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                  |
|-----------|------------------------------|
| block     | Display NV block information |

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## show nvram (User Executive)

Displays NV block information.

### Syntax

- show nvram block

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter | Description                  |
|-----------|------------------------------|
| block     | Display NV block information |

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## show password (Privileged Executive)

Displays password security restrictions.

### Syntax

- `show password {password-history | security}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                     | Description                             |
|-------------------------------|-----------------------------------------|
| <code>password-history</code> | Number of passwords in history          |
| <code>security</code>         | State of password security restrictions |

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## show password (User Executive)

Displays password security restrictions.

### Syntax

- `show password {password-history | security}`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter                     | Description                             |
|-------------------------------|-----------------------------------------|
| <code>password-history</code> | Number of passwords in history          |
| <code>security</code>         | State of password security restrictions |

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## show poe-main-status

Shows PoE main configuration.

### Syntax

- `show poe-main-status unit <1-8>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                     | Description                                    |
|-------------------------------|------------------------------------------------|
| <code>unit &lt;1-8&gt;</code> | Display main configuration of an unit in stack |

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## show poe-port-status

Shows PoE port configuration.

### Syntax

- show poe-port-status <LINE>

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description   |
|-----------|---------------|
| <LINE>    | List of ports |

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## show poe-power-measurement

Shows port power measurement.

### Syntax

- `show poe-power-measurement <LINE>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description   |
|-----------|---------------|
| <LINE>    | List of ports |

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## show port-mirroring

Displays port mirroring configuration.

### Syntax

- `show port-mirroring {<1-4> | rspan}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description            |
|-----------|------------------------|
| <1-4>     | Instance number        |
| rspan     | Display RSPAN settings |

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## show port-statistics

displays the port counter for a port.

### Syntax

- `show port-statistics port <LINE>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                                 |
|-----------|---------------------------------------------|
| <LINE>    | List of ports                               |
| port      | Display port-statistics for specified ports |

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## show qos acl-assign

Displays access-list assignments.

### Syntax

- `show qos acl-assign <1-65535>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                                        |
|-----------|----------------------------------------------------|
| <1-65535> | Display the specified access-list assignment entry |

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## show qos action

Displays the base action entries.

### Syntax

- `show qos action {<1-65535> | all | system | user}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                                           |
|-----------|-------------------------------------------------------|
| <1-65535> | Display the specified base action entry               |
| all       | Display all user-created, default, and system entries |
| system    | Display only system entries                           |
| user      | Display only user-created and default entries         |

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## show qos agent

Displays the global QoS parameters.

### Syntax

- show qos agent details

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description               |
|-----------|---------------------------|
| details   | Display QoS agent details |

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## show qos capability

Displays QoS port capabilities.

### Syntax

- `show qos capability {meter | shaper} port <LINE>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                      | Description                          |
|--------------------------------|--------------------------------------|
| <code>meter</code>             | Display QoS port meter capabilities  |
| <code>port &lt;LINE&gt;</code> | Specify list of ports                |
| <code>shaper</code>            | Display QoS port shaper capabilities |

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## show qos classifier

Displays the classifier entries.

### Syntax

- `show qos classifier {<1-65535> | all | system | user}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                                           |
|-----------|-------------------------------------------------------|
| <1-65535> | Display the specified classifier entry                |
| all       | Display all user-created, default, and system entries |
| system    | Display only system entries                           |
| user      | Display only user-created and default entries         |

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## show qos classifier-block

Displays the classifier block entries.

### Syntax

- `show qos classifier-block {<1-65535> | all | system | user}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                                           |
|-----------|-------------------------------------------------------|
| <1-65535> | Display the specified classifier block entry          |
| all       | Display all user-created, default, and system entries |
| system    | Display only system entries                           |
| user      | Display only user-created and default entries         |

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## show qos diag

Displays the diagnostics entries.

### Syntax

- `show qos diag unit <1-8>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                     | Description                                       |
|-------------------------------|---------------------------------------------------|
| <code>unit &lt;1-8&gt;</code> | Display the diagnostics entries for specific unit |

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## show qos egressmap

Displays the association between the DSCP and the 802.1p priority and drop precedence.

### Syntax

- `show qos egressmap ds <0-63>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                    | Description                         |
|------------------------------|-------------------------------------|
| <code>ds &lt;0-63&gt;</code> | Displays mapping for one DSCP value |

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## show qos if-action-extension

Displays the interface action extension entries.

### Syntax

- `show qos if-action-extension {<1-65535> | all | system | user}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                                            |
|-----------|--------------------------------------------------------|
| <1-65535> | Display the specified interface action extension entry |
| all       | Display all user-created, default, and system entries  |
| system    | Display only system entries                            |
| user      | Display only user-created and default entries          |

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## show qos if-assign

Displays the list of interface assignments.

### Syntax

- `show qos if-assign port <LINE>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                      | Description           |
|--------------------------------|-----------------------|
| <code>port &lt;LINE&gt;</code> | Specify list of ports |

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## show qos if-group

Displays the interface groups.

### Syntax

- `show qos if-group`

### Default

None

### Command mode

Privileged Executive

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## show qos if-queue-shaper

Displays the interface egress queue shaping parameters.

### Syntax

- `show qos if-queue-shaper port <LINE>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                      | Description           |
|--------------------------------|-----------------------|
| <code>port &lt;LINE&gt;</code> | Specify list of ports |

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## show qos if-shaper

Displays the interface shaping parameters.

### Syntax

- `show qos if-shaper port <LINE>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter   | Description           |
|-------------|-----------------------|
| port <LINE> | Specify list of ports |

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## show qos ingressmap

Displays the 802.1p priority to DSCP mapping.

### Syntax

- `show qos ingressmap`

### Default

None

### Command mode

Privileged Executive

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## show qos ip-acl

Displays IP access-lists.

### Syntax

- `show qos ip-acl <1-65535>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                          |
|-----------|--------------------------------------|
| <1-65535> | The identifier of the IP access list |



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## show qos ip-element

Displays the IP classifier element entries.

### Syntax

- `show qos ip-element {<1-65535> | all | system | user}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                                           |
|-----------|-------------------------------------------------------|
| <1-65535> | Display the specified IP classifier element entry     |
| all       | Display all user-created, default, and system entries |
| system    | Display only system entries                           |
| user      | Display only user-created and default entries         |

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## show qos l2-acl

Displays L2 access-lists.

### Syntax

- `show qos l2-acl <1-65535>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                          |
|-----------|--------------------------------------|
| <1-65535> | The identifier of the L2 access list |

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## show qos l2-element

Displays the Layer2 classifier element entries.

### Syntax

- `show qos l2-element {<1-65535> | all | system | user}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                                           |
|-----------|-------------------------------------------------------|
| <1-65535> | Display the specified Layer2 classifier element entry |
| all       | Display all user-created, default, and system entries |
| system    | Display only system entries                           |
| user      | Display only user-created and default entries         |

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## show qos meter

Displays the meter entries.

### Syntax

- `show qos meter {<1-65535> | all | system | user}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                                           |
|-----------|-------------------------------------------------------|
| <1-65535> | Display the specified meter entry                     |
| all       | Display all user-created, default, and system entries |
| system    | Display only system entries                           |
| user      | Display only user-created and default entries         |

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## show qos policy

Displays the policy entries.

### Syntax

- `show qos policy {<1-65535> | all | system | user}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                                           |
|-----------|-------------------------------------------------------|
| <1-65535> | Display the specified policy entry                    |
| all       | Display all user-created, default, and system entries |
| port      | Specify list of ports                                 |
| system    | Display only system entries                           |
| user      | Display only user-created and default entries         |

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## show qos port

Displays QoS port configuration.

### Syntax

- show qos port <LINE>

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description   |
|-----------|---------------|
| LINE      | List of ports |

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## show qos queue-set

Displays the queue set configuration.

### Syntax

- `show qos queue-set <1-8>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                       |
|-----------|-----------------------------------|
| <1-8>     | Displays the specified queue-set. |

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## show qos queue-set-assignment

Displays the association between the 802.1p priority to that of a specific queue.

### Syntax

- `show qos queue-set-assignment queue-set <1-8>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                          | Description                       |
|------------------------------------|-----------------------------------|
| <code>queue-set &lt;1-8&gt;</code> | Displays the specified queue-set. |

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## show qos queue-statistics

Display the queue-statistics values.

### Syntax

- `show qos queue-statistics [non-zero][port <LINE>][queue <1-8>]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                      | Description                                           |
|--------------------------------|-------------------------------------------------------|
| <code>non-zero</code>          | Displays only queues with non-zero statistics.        |
| <code>port &lt;LINE&gt;</code> | Displays the queue statistics for the specified port. |
| <code>queue &lt;1-8&gt;</code> | Displays the statistics on the specified queue.       |

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## show qos statistics

Displays the statistics values.

### Syntax

- `show qos statistics <1-65535> port <LINE>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                      | Description                                           |
|--------------------------------|-------------------------------------------------------|
| <code>&lt;1-65535&gt;</code>   | Specifies the policy ID.                              |
| <code>port &lt;LINE&gt;</code> | Display the port statistics for the specified policy. |

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## show qos system-element

Displays the system classifier element entries.

### Syntax

- `show qos system-element {<1-65535> | all | system | user}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                                            |
|-----------|--------------------------------------------------------|
| <1-65535> | Display the specified system classifier element entry. |
| all       | Display all user-created, default, and system entries. |
| system    | Display only system entries.                           |
| user      | Display only user-created and default entries          |

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## show qos traffic-profile

Displays QoS Traffic Profile entries.

### Syntax

- show qos traffic-profile {classifier name <WORD> eval-order <1-255>} | interface | {set [port <LINE> name <WORD>} | {statistics port <LINE> name <WORD> precedence}

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter          | Description                                                                              |
|--------------------|------------------------------------------------------------------------------------------|
| classifier         | Displays Quality of Service (QoS) Traffic Profile classifier entries.                    |
| eval-order <1-255> | Specifies the evaluation order to reference a specific Traffic Profile classifier entry. |
| interface          | Displays Quality of Service (QoS) Traffic Profile interface entries                      |
| name <WORD>        | Specifies the label to display a specific Traffic Profile classifier entry.              |
| port <LINE>        | Specifies the port(s) used to reference the Traffic Profile entry.                       |
| precedence         | Specifies the precedence used to reference the Traffic Profile entry.                    |
| set                | Displays Quality of Service (QoS) Traffic Profile set entries.                           |
| statistics         | Displays Quality of Service (QoS) Traffic Profile statistics.                            |

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## show qos ubp interface

Displays QoS UBP entries.

### Syntax

- `show qos ubp interface | [classifier] name <WORD> | statistics port <LINE> name <WORD> precedence <1-7>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter        | Description                                                  |
|------------------|--------------------------------------------------------------|
| classifier       | Display QoS UBP classifier entries                           |
| interface        | Display QoS UBP interface entries                            |
| name             | Specify the label to display a particular UBP template entry |
| name <WORD>      | Specify the label to display a specific UBP classifier entry |
| port <LINE>      | Specify a port to reference UBP entry                        |
| precedence <1-7> | Specify the precedence used to reference the UBP entry       |
| statistics       | Display QoS UBP statistics.                                  |

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## show qos ubp statistics

Displays QoS UBP statistics.

### Syntax

- `show qos ubp statistics [port <LINE>][name <WORD>][precedence]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter   | Description                                              |
|-------------|----------------------------------------------------------|
| name <WORD> | Specifies the label used to reference the UBP entry.     |
| port <LINE> | Specifies a port to reference the UBP entry.             |
| precedence  | Specifies the precedence use to reference the UBP entry. |

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## show qos user-policy

Displays Quality of Service (QoS) user policy entries.

### Syntax

- `show qos user-policy [port <LINE>] [user <WORD>]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                      | Description                                                      |
|--------------------------------|------------------------------------------------------------------|
| <code>port &lt;LINE&gt;</code> | Specifies the port(s) used to reference the User Policy entries. |
| <code>user &lt;WORD&gt;</code> | Specifies the user for whom the user policy must be displayed.   |

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## show quickconfig (Privileged Executive)

Shows quick config status.

### Syntax

- show quickconfig

### Default

None

### Command mode

Privileged Executive



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## show quickconfig (User Executive)

Shows quick config status.

### Syntax

- show quickconfig

### Default

None

### Command mode

User Executive

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## show radius

Displays RADIUS settings.

### Syntax

- `show radius {accounting interim-updates | dynamic-server {client {A.B.C.D} | replay-protection | statistics client {A.B.C.D}} | reachability | use-management-ip}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                      | Description                                                       |
|--------------------------------|-------------------------------------------------------------------|
| <code>accounting</code>        | Display the configuration of RADIUS Accounting Interim-Updates    |
| <code>client {A.B.C.D}</code>  | Display the configuration of RADIUS Dynamic Authorization Client  |
| <code>dynamic-server</code>    | Display the configuration of RADIUS Dynamic Authorization Clients |
| <code>interim-updates</code>   | Display the parameters of interim-updates                         |
| <code>reachability</code>      | Display RADIUS reachability settings                              |
| <code>replay-protection</code> | Display status of RADIUS dynamic server replay protection         |
| <code>statistics</code>        | Display the statistics for RADIUS Dynamic Authorization Client    |
| <code>use-management-ip</code> | Display RADIUS use-management-ip setting                          |

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## show radius accounting

Displays the configuration of RADIUS Accounting Interim-Updates.

### Syntax

- `show radius accounting interim-updates`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter                    | Description                               |
|------------------------------|-------------------------------------------|
| <code>interim-updates</code> | Display the parameters of interim-updates |

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## show radius dynamic-server

Displays the configuration of RADIUS Dynamic Authorization Clients.

### Syntax

- `show radius dynamic-server` `{[statistics] client {A.B.C.D} | replay-protection}`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter         | Description                                                      |
|-------------------|------------------------------------------------------------------|
| {A.B.C.D}         | IP address of RADIUS Dynamic Authorization Client                |
| client            | Display the configuration of RADIUS Dynamic Authorization Client |
| replay-protection | Display status of RADIUS dynamic server replay protection        |
| statistics        | Display the statistics for RADIUS Dynamic Authorization Clients  |

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## show radius reachability

Displays RADIUS reachability settings.

### Syntax

- `show radius reachability`

### Default

None

### Command mode

User Executive

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## show radius-server

Displays current RADIUS server/port/key configuration.

### Syntax

- show radius-server

### Default

None

### Command mode

Privileged Executive

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## show radius use-management-ip

Displays RADIUS use-management-ip setting.

### Syntax

- `show radius use-management-ip`

### Default

None

### Command mode

User Executive

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## show rate-limit

Displays rate-limiting settings and statistics.

### Syntax

- `show rate-limit port <LINE>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                      | Description                                          |
|--------------------------------|------------------------------------------------------|
| <code>port &lt;LINE&gt;</code> | Display rate-limit configuration for specified ports |

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## show rmon alarm

Displays RMON Alarm entries.

### Syntax

- `show rmon alarm sort-reverse`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                 | Description                                  |
|---------------------------|----------------------------------------------|
| <code>sort-reverse</code> | Display RMON Alarm entries in reversed order |

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## show rmon ethernet history

Displays RMON ethernet history data.

### Syntax

- show rmon ethernet history [sample-set <1-65535>] [sample-range <1-2147483647> <1-2147483647>] [interval-range <hh:mm:ss> <hh:mm:ss>] [port <LINE>]delta

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter            | Description                                      |
|----------------------|--------------------------------------------------|
| <hh:mm:ss>           | First or second history interval-range value     |
| <1-2147483647>       | First or second history sample index value       |
| delta                | Display deltas of consecutive history data       |
| interval-range       | Display history data for specific interval range |
| port <LINE>          | Display history data for specific ports          |
| sample-range         | Display history data for specific sample range   |
| sample-set <1-65535> | Display history data for specific index          |

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## show rmon ethernet packets

Displays rmon ethernet packets according to their size.

### Syntax

- `show rmon ethernet packets port <LINE>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                      | Description                                    |
|--------------------------------|------------------------------------------------|
| <code>port &lt;LINE&gt;</code> | Display rmon ethernet packets specific to port |

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## show rmon ethernet statistics

Displays rmon ethernet statistics.

### Syntax

- `show rmon ethernet statistics port <LINE>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                      | Description                                    |
|--------------------------------|------------------------------------------------|
| <code>port &lt;LINE&gt;</code> | Display ethernet statistics for specific ports |

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## show rmon event

Displays RMON Event entries.

### Syntax

- `show rmon event`

### Default

None

### Command mode

Privileged Executive

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## show rmon history

Displays RMON History entries.

### Syntax

- `show rmon history port <LINE>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                      | Description                             |
|--------------------------------|-----------------------------------------|
| <code>port &lt;LINE&gt;</code> | Display rmon history for specific ports |

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## show rmon stats

Displays RMON Stats entries.

### Syntax

- `show rmon stats`

### Default

None

### Command mode

Privileged Executive

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## show route-map (Privileged Executive)

Displays route policy table.

### Syntax

- `show route-map <word> <1-65535> detail`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                                                        |
|-----------|--------------------------------------------------------------------|
| <1-65535> | Index used to identify a specific policy in the route policy group |
| detail    | Route policy details                                               |
| WORD      | Name of set of policies                                            |



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## show route-map (User Executive)

Displays route policy table.

### Syntax

- `show route-map [<WORD> <1-65535>] detail`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter | Description                                                        |
|-----------|--------------------------------------------------------------------|
| <1-65535> | Index used to identify a specific policy in the route policy group |
| <WORD>    | Name of set of policies                                            |
| detail    | Route policy details                                               |

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## show running-config

Displays current configuration of system as a series of CLI commands.

### Syntax

- show running-config [verbose] [module [802.1ab] [aaur] [adac] [arp-inspection] [asset-id] [aur] [banner] [brouter] [cfm] [core] [dhcp-relay] [dhcp-snooping] [eap] [energy-saver] [fa][igmp] [interface] [ip] [ip-source-guard] [ipfix] [ipmgr] [ipv6][ipv6-fhs] [l3] [l3-protocols] [lACP] [link-state] [logging] [mac-security] [mlt] [pim][poe] [port-mirroring] [qos] [rate-limit] [rmon] [rtc] [slamon] [slpp] [snmp] [spbm] [stack] [stkmon] [storm-control][stp] [vlacp] [vlan]]

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter       | Description                                               |
|-----------------|-----------------------------------------------------------|
| 802.1ab         | Displays the 802.1ab configuration.                       |
| aaur            | Displays the AAUR configuration.                          |
| adac            | Displays the ADAC configuration.                          |
| arp-inspection  | Displays the ARP Inspection configuration.                |
| asset-id        | Displays the Asset ID configuration.                      |
| aur             | Displays the AUR configuration.                           |
| banner          | Displays the Custom Banner configuration.                 |
| brouter         | Displays the Brouter configuration.                       |
| cfm             | Displays the CFM configuration.                           |
| core            | Displays the Core configuration.                          |
| dhcp-relay      | Displays the DHCP Relay configuration.                    |
| dhcp-snooping   | Displays the DHCP Snooping configuration.                 |
| eap             | Displays the EAP configuration.                           |
| energy-saver    | Displays the Energy Saver configuration.                  |
| fa              | Displays the Fabric Attach configuration.                 |
| igmp            | Displays the IGMP configuration.                          |
| interface       | Displays the Interface configuration.                     |
| ip              | Displays the IP configuration.                            |
| ipfix           | Displays the IPFIX configuration.                         |
| ipmgr           | Displays the IP Manager configuration.                    |
| ip-source-guard | Displays the IP Source Guard configuration.               |
| ipv6            | Displays the IPv6 configuration.                          |
| ipv6-fhs        | Displays the IPv6 first hop security (FHS) configuration. |
| l3              | Displays the Layer 3 configuration.                       |

|                |                                                                  |
|----------------|------------------------------------------------------------------|
| l3-protocols   | Displays the Layer 3 protocols configuration.                    |
| lacp           | Displays the LACP configuration.                                 |
| link-state     | Displays the Link State Tracking configuration.                  |
| logging        | Displays the System Logging configuration.                       |
| mac-security   | Displays the MAC Security configuration.                         |
| mld            | Displays the MLD configuration.                                  |
| mlt            | Displays the MLT configuration.                                  |
| module         | Displays the configuration of an application.                    |
| PIM            | Displays the Protocol Independent Multicast (PIM) configuration. |
| poe            | Displays the PoE configuration.                                  |
| port-mirroring | Displays the Port Mirroring configuration.                       |
| qos            | Displays the QoS configuration.                                  |
| rate-limit     | Displays the Rate Limiting configuration.                        |
| rmon           | Displays the RMON configuration.                                 |
| rtc            | Displays the RTC configuration.                                  |
| slamon         | Displays the SLAMon configuration.                               |
| slpp           | Displays the SLPP configuration.                                 |
| snmp           | Displays the SNMP configuration.                                 |
| spbm           | Displays the SPBM configuration.                                 |
| stack          | Displays the Stack configuration.                                |
| stkmon         | Displays the Stack Monitor configuration.                        |
| storm-control  | Displays the storm-control configuration.                        |
| stp            | Displays the STP configuration.                                  |
| verbose        | Displays the entire configuration. (defaults and non-defaults)   |
| vlacp          | Displays the VLACP configuration.                                |
| vlan           | Displays the VLAN configuration.                                 |

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## show script

Displays ASCII configuration script table entries.

### Syntax

- `show script [status] <1-127>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                                         |
|-----------|-----------------------------------------------------|
| <1-127>   | Index of the ASCII configuration script table entry |
| status    | Display script status                               |

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## show serial-console

Displays current serial console port access.

### Syntax

- `show serial-console unit <1-8>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                     | Description |
|-------------------------------|-------------|
| <code>unit &lt;1-8&gt;</code> | Unit number |

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## show serial-security (Privileged Executive)

Displays current serial security setting.

### Syntax

- `show serial-security`

### Default

None

### Command mode

Privileged Executive

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## show serial-security (User Executive)

Displays current serial security setting.

### Syntax

- `show serial-security`

### Default

None

### Command mode

User Executive

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## show slpp-guard (Privileged Executive)

Displays SLPP-guard information.

### Syntax

- `show slpp-guard <LINE>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description   |
|-----------|---------------|
| <LINE>    | List of ports |



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## show slpp-guard (User Executive)

Displays SLPP-guard information.

### Syntax

- show slpp-guard <LINE>

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter | Description   |
|-----------|---------------|
| <LINE>    | List of ports |

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## show snmp-server

Displays the SNMP configuration.

### Syntax

- `show snmp-server {community | engine-id <WORD>|host | notification-control <WORD> | notify-filter | user | view}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                   | Description                                    |
|-----------------------------|------------------------------------------------|
| community                   | Displays the SNMP community strings.           |
| engine-id <WORD>            | Displays the Engine-ID information.            |
| host                        | Displays the SNMP trap destinations.           |
| notification-control <WORD> | Displays the notification control table.       |
| notify-filter               | Displays the SNMP notify filter configuration. |
| user                        | Displays the SNMP users.                       |
| view                        | Displays the SNMP views.                       |

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## show sntp

Displays Simple Network Time Protocol (SNTP).

### Syntax

- `show sntp`

### Default

None

### Command mode

Privileged Executive

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## show spanning-tree

Sub-commands to display spanning tree information.

### Syntax

- `show spanning-tree mode`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter | Description                          |
|-----------|--------------------------------------|
| mode      | Display Spanning Tree operation mode |

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## show spanning-tree 802dot1d-port-compliance (Privileged Executive)

Displays 802dot1d port compliance mode.

### Syntax

- `show spanning-tree 802dot1d-port-compliance`

### Default

None

### Command mode

Privileged Executive

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## show spanning-tree 802dot1d-port-compliance (User Executive)

Displays 802dot1d port compliance mode.

### Syntax

- `show spanning-tree 802dot1d-port-compliance`

### Default

None

### Command mode

User Executive

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## show spanning-tree bpdu-filtering

Displays BPDU filtering configuration.

### Syntax

- `show spanning-tree bpdu-filtering {[ethernet] port <LINE> | ignore-self}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter   | Description                                                   |
|-------------|---------------------------------------------------------------|
| Ethernet    | Ethernet IEEE 802.3                                           |
| ignore-self | Ignore bridge's own BPDUs                                     |
| port <LINE> | The port list whose BPDU filtering settings will be displayed |

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## show spanning-tree config

Displays Spanning Tree configuration.

### Syntax

- `show spanning-tree config [port <LINE> | vlans] vlans`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                               |
|-----------|-------------------------------------------|
| <LINE>    | List of ports                             |
| port      | Display spanning tree status of each port |
| vlans     | Display spanning-tree group VLAN members  |

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## show spanning-tree cost-calc-mode

Displays pathcost type.

### Syntax

- `show spanning-tree cost-calc-mode`

### Default

None

### Command mode

Privileged Executive

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## show spanning-tree mode

Displays Spanning Tree operation mode.

### Syntax

- `show spanning-tree mode`

### Default

None

### Command mode

Privileged Executive

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## show spanning-tree port

Displays spanning tree status of each port.

### Syntax

- `show spanning-tree port {<LINE> | vlans}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                              |
|-----------|------------------------------------------|
| <LINE>    | List of ports                            |
| vlans     | Display spanning-tree group VLAN members |

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## show spanning-tree port-mode

Displays spanning-tree port membership mode.

### Syntax

- show spanning-tree port-mode

### Default

None

### Command mode

Privileged Executive

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## show spanning-tree stp

Displays spanning-tree configuration for specified group ID.

### Syntax

- `show spanning-tree stp <1-8> {config vlans | {port <LINE>|vlans} | vlans}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                               |
|-----------|-------------------------------------------|
| <LINE>    | List of ports                             |
| config    | Display Spanning Tree configuration       |
| port      | Display spanning tree status of each port |
| vlans     | Display spanning-tree group VLAN members  |

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## show spanning-tree vlans

Displays spanning-tree group VLAN members.

### Syntax

- `show spanning-tree vlans`

### Default

None

### Command mode

Privileged Executive

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## show spbm (Privileged Executive)

Displays global SPBM status.

### Syntax

- show spbm

### Default

None

### Command mode

Privileged Executive

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## show spbm (User Executive)

Displays global SPBM status.

### Syntax

- show spbm

### Default

None

### Command mode

User Executive



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## show stack

Shows stacking information.

### Syntax

- `show stack {auto-unit-replacement [mac-addresses] | auto-unit-replacement-image | forced-mode | port-statistics unit <1-8> | reboot-on-failure | retry-count}`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter                                | Description                                       |
|------------------------------------------|---------------------------------------------------|
| <code>auto-unit-replacement</code>       | Display auto unit replacement configuration       |
| <code>auto-unit-replacement-image</code> | Display auto unit image replacement configuration |
| <code>forced-mode</code>                 | Display the forced stack mode                     |
| <code>mac-addresses</code>               | Display the AUR MAC address cache                 |
| <code>port-statistics</code>             | Display stack port counters                       |
| <code>reboot-on-failure</code>           | Display stack reboot-on-failure status            |
| <code>retry-count</code>                 | Display stack retry count                         |
| <code>unit &lt;1-8&gt;</code>            | Unit number                                       |

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## show stack auto-unit-replacement

Displays auto unit replacement configuration.

### Syntax

- `show stack auto-unit-replacement mac-addresses`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter     | Description                       |
|---------------|-----------------------------------|
| mac-addresses | Display the AUR MAC address cache |

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## show stack auto-unit-replacement-image

Displays auto unit image replacement configuration.

### Syntax

- `show stack auto-unit-replacement-image`

### Default

None

### Command mode

Privileged Executive

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## show stack forced-mode

Displays the forced stack mode.

### Syntax

- `show stack forced-mode`

### Default

None

### Command mode

Privileged Executive

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## show stack health

Displays the status of each stacking link.

### Syntax

- `show stack health`

### Default

None

### Command mode

Privileged Executive

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## show stack-info

Displays stack information.

### Syntax

- `show stack-info uptime`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                         |
|-----------|-------------------------------------|
| uptime    | Display stack up-time for each unit |

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## show stack-monitor

Displays stack-monitor configuration.

### Syntax

- show stack-monitor

### Default

None

### Command mode

Privileged Executive

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## show stack port-statistics

Displays stack port counters.

### Syntax

- `show stack port-statistics unit <1-8>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter  | Description        |
|------------|--------------------|
| unit <1-8> | Select unit number |

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## show stack reboot-on-failure

Displays stack reboot-on-failure status.

### Syntax

- `show stack reboot-on-failure`

### Default

None

### Command mode

Privileged Executive

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## show stack retry-count

Displays stack retry count.

### Syntax

- `show stack retry-count`

### Default

None

### Command mode

Privileged Executive

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## show storm-control

Display the storm-control configuration.

### Syntax

- `show storm-control [all][broadcast][multicast][unicast]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                                               |
|-----------|-----------------------------------------------------------|
| all       | Displays storm control settings for all types of traffic. |
| broadcast | Displays storm control settings for broadcast traffic.    |
| multicast | Displays storm control settings for multicast traffic.    |
| unicast   | Displays storm control settings for unicast traffic.      |

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## show storm-control interface

Display the storm-control configuration for the interface selected.

### Syntax

- `show storm-control interface Ethernet <LINE>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                                                  |
|-----------|--------------------------------------------------------------|
| <LINE>    | Displays storm control settings for a port or list of ports. |
| Ethernet  | Displays storm control settings for the Ethernet interface.  |

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## show sys-info

Displays system information.

### Syntax

- `show sys-info`

### Default

None

### Command mode

Privileged Executive

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## show system

Displays consolidated system information.

### Syntax

- `show system {last-exception unit<1-8>|all} | verbose`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                         | Description                                  |
|-----------------------------------|----------------------------------------------|
| <code>last-exception</code>       | Display last software exception information. |
| <code>unit &lt;1-8&gt; all</code> | Display last exception for a specified unit  |
| <code>verbose</code>              | Display verbose system information           |

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## show tacacs

Displays current TACACS+ server/port/key configuration.

### Syntax

- show tacacs

### Default

None

### Command mode

Privileged Executive

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## show tdr

Displays TDR test results.

### Syntax

- show tdr <WORD>

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description   |
|-----------|---------------|
| <WORD>    | List of ports |



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## show tech (Privileged Executive)

Displays system information for Tech-Support.

### Syntax

- show tech

### Default

None

### Command mode

Privileged Executive

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## show tech (User Executive)

Displays system information for Tech-Support.

### Syntax

- show tech

### Default

None

### Command mode

User Executive

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## show telnet

Shows telnet active sessions.

### Syntax

- `show telnet sessions`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter             | Description                     |
|-----------------------|---------------------------------|
| <code>sessions</code> | Displays telnet active sessions |

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## show telnet-access

Displays configuration of telnet access.

### Syntax

- show telnet-access

### Default

None

### Command mode

Privileged Executive

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## show terminal (Privileged Executive)

Displays terminal configuration parameters.

### Syntax

- `show terminal`

### Default

None

### Command mode

Privileged Executive

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## show terminal (User Executive)

Displays terminal configuration parameters.

### Syntax

- `show terminal`

### Default

None

### Command mode

User Executive

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## show tftp-server

Shows the TFTP Server IP address.

### Syntax

### Default

None

### Command mode

Privileged Executive

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## show trace

Displays trace information.

### Syntax

- `show trace {level | modid-list | status}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter  | Description                          |
|------------|--------------------------------------|
| level      | Display info for active trace module |
| modid-list | Display info for all trace modules   |
| status     | Display trace status                 |



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## show usb-files

Shows USB files.

### Syntax

- `show usb-files {ascii <WORD> unit <1-8> | binary <WORD> unit <1-8> | dir <WORD> {tree unit<1-8>|unit<1-8> tree} | unit <1-8> {tree dir<WORD>|dir<WORD> tree}}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter  | Description                              |
|------------|------------------------------------------|
| <WORD>     | The filename which will be displayed     |
| ascii      | Display the ASCII contents of a file.    |
| binary     | Display the binary contents of a file.   |
| dir        | Displays files from a specific directory |
| tree       | List subdirectories recursively          |
| unit <1-8> | Unit                                     |

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## show usb-host-port

Shows USB host port info.

### Syntax

- `show usb-host-port {all | unit <1-8>}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                     | Description                                    |
|-------------------------------|------------------------------------------------|
| <code>all</code>              | Display USB host port info for all units       |
| <code>unit &lt;1-8&gt;</code> | Display USB host port info of an unit in stack |

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## show vlacp

Displays VLACP configuration.

### Syntax

- `show vlacp interface <LINE>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                                          |
|-----------|------------------------------------------------------|
| <LINE>    | List of ports                                        |
| interface | Display VLACP configuration for specified interfaces |

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## show vlan configcontrol

Displays VLAN control mode.

### Syntax

- `show vlan configcontrol`

### Default

None

### Command mode

Privileged Executive

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## show vlan dhcp-relay

Displays DHCP relay info for a particular VLAN.

### Syntax

- `show vlan dhcp-relay <LINE>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description |
|-----------|-------------|
| <LINE>    | VLAN list   |

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## show vlan id

Displays specific VLAN.

### Syntax

- `show vlan id line type {port | protocol-decEther2 | protocol-ipEther2 | protocol-ipv6Ether2 | protocol-ipx802.2 | protocol-ipx802.3 | protocol-ipxEther2 | protocol-ipxSnap | protocol-Netbios | protocol-RarpEther2 | protocol-sna802.2 | protocol-snaEther2 | protocol-Userdef {all | ether | llc | snap} | protocol-vinesEther2 | protocol-xnsEther2 | spbm-bvlan | spbm-switchedUni | voice-vlan}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter            | Description                       |
|----------------------|-----------------------------------|
| all                  | Display All Userdef VLANs         |
| ether                | Display Ethernet II Userdef VLANs |
| LINE                 | VLAN list                         |
| llc                  | Display LLC Userdef VLANs         |
| port                 | Display port-based VLANs          |
| protocol-decEther2   | Display decEther2 VLANs           |
| protocol-ipEther2    | Display ipEther2 VLANs            |
| protocol-ipv6Ether2  | Display ipv6Ether2 VLANs          |
| protocol-ipx802.2    | Display ipx802.2 VLANs            |
| protocol-ipx802.3    | Display ipx802.3 VLANs            |
| protocol-ipxEther2   | Display ipxEther2 VLANs           |
| protocol-ipxSnap     | Display ipxSnap VLANs             |
| protocol-Netbios     | Display Netbios VLANs             |
| protocol-RarpEther2  | Display RarpEther2 VLANs          |
| protocol-sna802.2    | Display sna802.2 VLANs            |
| protocol-snaEther2   | Display snaEther2 VLANs           |
| protocol-Userdef     | Display Userdef VLANs             |
| protocol-vinesEther2 | Display vinesEther2 VLANs         |
| protocol-xnsEther2   | Display xnsEther2 VLANs           |
| snap                 | Display SNAP Userdef VLANs        |
| spbm-bvlan           | Display SPBM B-VLANs              |
| spbm-switchedUni     | Display SPBM switched UNI VLANs   |
| type                 | Display specific type of VLAN     |
| voice-vlan           | Display voice VLANs               |



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## show vlan igmp

Displays IGMP snoop settings.

### Syntax

- show vlan igmp {<LINE> | unknown-mcast-allow-flood <1-4094> | unknown-mcast-no-flood}

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                 | Description                                                           |
|---------------------------|-----------------------------------------------------------------------|
| <1-4094>                  | Vlan ID                                                               |
| <LINE>                    | VLAN list                                                             |
| unknown-mcast-allow-flood | Display list of multicast MAC addresses for which flooding is allowed |
| unknown-mcast-no-flood    | Display setting for flooding packets with unknown multicast addresses |



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## show vlan interface

Displays VLAN configuration for specified interfaces.

### Syntax

- `show vlan interface {info | verbose | vids} <LINE>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                                           |
|-----------|-------------------------------------------------------|
| <LINE>    | Port list                                             |
| info      | Display VLAN-related settings of ports                |
| verbose   | Display VLAN-related settings and membership of ports |
| vids      | Display VLAN membership of ports                      |

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## show vlan ip

Displays IP info for VLANs.

### Syntax

- `show vlan ip [id <LINE>] summary`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                    | Description                  |
|------------------------------|------------------------------|
| <code>id &lt;LINE&gt;</code> | display for specific VLAN ID |
| <code>summary</code>         | Display vlan ip summary      |

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## show vlan i-sid

Displays the C-VLAN to I-SID associations.

### Syntax

- `show vlan i-sid <1-4094>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description            |
|-----------|------------------------|
| <1-4094>  | Specifies the VLAN ID. |

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## show vlan mgmt

Displays mgmt vlan ID.

### Syntax

- show vlan mgmt

### Default

None

### Command mode

Privileged Executive

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## show vlan multicast

Displays VLAN multicast configuration.

### Syntax

- `show vlan multicast membership <1-4094> [detail]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                   | Description                                 |
|-----------------------------|---------------------------------------------|
| <code>&lt;1-4094&gt;</code> | Specifies the VLAN ID.                      |
| <code>detail</code>         | Displays VLAN multicast membership details. |
| <code>membership</code>     | Displays VLAN multicast membership.         |

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## show vlan remote-span

Displays Rspan VLANs.

### Syntax

- `show vlan remote-span`

### Default

None

### Command mode

Privileged Executive

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## show vlan summary

Displays a summary of VLANs.

### Syntax

- `show vlan summary`

### Default

None

### Command mode

Privileged Executive

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## show vlan type

Displays specific type of VLAN.

### Syntax

- `show vlan type {port | protocol-decEther2 | protocol-ipEther2 | protocol-ipv6Ether2 | protocol-ipx802.2 | protocol-ipx802.3 | protocol-ipxEther2 | protocol-ipxSnap | protocol-Netbios | protocol-RarpEther2 | protocol-sna802.2 | protocol-snaEther2 | protocol-Userdef {all | ether | llc | snap} | protocol-vinesEther2 | protocol-xnsEther2 | spbm-bvlan | spbm-switchedUni | voice-vlan}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter            | Description                       |
|----------------------|-----------------------------------|
| all                  | Display All Userdef VLANs         |
| ether                | Display Ethernet II Userdef VLANs |
| llc                  | Display LLC Userdef VLANs         |
| port                 | Display port-based VLANs          |
| protocol-decEther2   | Display decEther2 VLANs           |
| protocol-ipEther2    | Display ipEther2 VLANs            |
| protocol-ipv6Ether2  | Display ipv6Ether2 VLANs          |
| protocol-ipx802.2    | Display ipx802.2 VLANs            |
| protocol-ipx802.3    | Display ipx802.3 VLANs            |
| protocol-ipxEther2   | Display ipxEther2 VLANs           |
| protocol-ipxSnap     | Display ipxSnap VLANs             |
| protocol-Netbios     | Display Netbios VLANs             |
| protocol-RarpEther2  | Display RarpEther2 VLANs          |
| protocol-sna802.2    | Display sna802.2 VLANs            |
| protocol-snaEther2   | Display snaEther2 VLANs           |
| protocol-Userdef     | Display Userdef VLANs             |
| protocol-vinesEther2 | Display vinesEther2 VLANs         |
| protocol-xnsEther2   | Display xnsEther2 VLANs           |
| snap                 | Display SNAP Userdef VLANs        |
| spbm-bvlan           | Display SPBM B-VLANs              |
| spbm-switchedUni     | Display SPBM switched UNI VLANs   |
| voice-vlan           | Display voice VLANs               |



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## show vlan voice-vlan

Displays voice VLANs.

### Syntax

- `show vlan voice-vlan`

### Default

None

### Command mode

Privileged Executive

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## show web-server

Displays web server status.

### Syntax

- `show web-server`

### Default

None

### Command mode

Privileged Executive

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## shutdown (Ethernet Interface Configuration)

Shut downs the selected interface.

### Syntax

- shutdown [port <portlist>]

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

| Parameter       | Description                       |
|-----------------|-----------------------------------|
| port <portlist> | Specifies a port or list of ports |

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## shutdown (Privileged Executive)

Saves configuration and shutdown the switch/stack.

### Syntax

- `shutdown {cancel | [force] minutes-to-wait <1-60>}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                                 | Description                            |
|-------------------------------------------|----------------------------------------|
| <code>cancel</code>                       | Cancel a previous scheduled shutdown   |
| <code>force</code>                        | Do not ask for confirmation            |
| <code>minutes-to-wait &lt;1-60&gt;</code> | Number of minutes to wait before reset |

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## slamon agent-comm-port

Configures the agent-to-agent communication port.

### Syntax

- `slamon agent-comm-port {0 |<1024-65535>}`
- `default slamon agent-comm-port`

### Default

None

### Command mode

Application Configuration

### Command parameters

| Parameter         | Description                                                       |
|-------------------|-------------------------------------------------------------------|
| {0  <1024-65535>} | Configures the SLA Monitor agent-to-agent communication UDP port. |

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## slamon agent ip address

Configures the agent IP address.

### Syntax

- `slamon agent ip address {A.B.C.D}`
- `default slamon agent ip address`

### Default

None

### Command mode

Application Configuration

### Command parameters

| Parameter | Description                                                                                                                                              |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| {A.B.C.D} | Configures the agent IP address. If no IP address is specified, the default value is 0.0.0.0, which causes the agent to use the switch/stack IP address. |

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## slamon agent port

Configures the UDP port.

### Syntax

- `slamon agent port {0 | <1024-65535>}`
- `default slamon agent port`

### Default

The default is 50011.

### Command mode

Application Configuration

### Command parameters

| Parameter                             | Description                                                                                                                                                              |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>{0   &lt;1024-65535&gt;}</code> | Configures the UDP port for agent-server communication. The agent receives discovery packets on this port. The default is port 50011. The server must use the same port. |



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## slamon cli

Enables the SLA Monitor agent CLI support.

### Syntax

- `slamon cli enable`
- `no slamon cli [enable]`
- `default slamon cli`

### Default

None

### Command mode

Application Configuration

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## slamon cli-timeout

Configures the agent automatic CLI session timeout value.

### Syntax

- `slamon cli-timeout <60-600>`
- `default slamon cli-timeout <60-600>`

### Default

60

### Command mode

Application Configuration

### Command parameters

| Parameter                   | Description                                                            |
|-----------------------------|------------------------------------------------------------------------|
| <code>&lt;60-600&gt;</code> | Configures the CLI timeout value in seconds. The default is 60 seconds |

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## slamon cli-timeout-mode

Enables the agent automatic CLI session timeout.

### Syntax

- `slamon cli-timeout-mode enable`
- `no slamon cli-timeout-mode [enable]`
- `default slamon cli-timeout-mode`

### Default

None

### Command mode

Application Configuration

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## slamon ntr

Executes a new trace route (NTR) test on the network to establish the QoS benchmark.

### Syntax

- `slamon ntr {A.B.C.D} <0-63> [attempts <1-10>] [period <1000-200000>]`

### Default

None

### Command mode

Application Configuration

### Command parameters

| Parameter            | Description                                                                                                                    |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------|
| <0-63>               | Specifies the Differential Services Code Point (DSCP) value for use in packets that are generated by the NTR test.             |
| <A.B.C.D>            | Specifies the destination IP address. If no IP address is specified, the test execution fails.                                 |
| attempts <1-10>      | Specifies the number of attempts generated by the NTR test. The default value is 2.                                            |
| period <1000-200000> | Specifies the interval between packets in microseconds, generated by the NTR test. The default interval is 20000 microseconds. |

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## slamon oper-mode

Enables the SLA Monitor agent.

### Syntax

- `slamon oper-mode enable`
- `no slamon oper-mode [enable]`
- `default slamon oper-mode`

### Default

None

### Command mode

Application Configuration

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## slamon refuse-server-tests

Enables the agent refuse server test mode.

### Syntax

- `slamon refuse-server-tests [enable]`
- `no slamon refuse-server-tests [enable]`
- `default slamon refuse-server-tests`

### Default

None

### Command mode

Application Configuration

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## slamon RTP

Executes a real time protocol (RTP) test on the network to establish the QoS benchmark.

### Syntax

- slamon RTP {A.B.C.D} <0-63> [npack <10-100>] [nsync <10-100>] [period <1000-200000>]

### Default

None

### Command mode

Application Configuration

### Command parameters

| Parameter            | Description                                                                                                                    |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------|
| <0-63>               | Specifies the DSCP value for use in packets that are generated by the RTP test.                                                |
| <A.B.C.D>            | Specifies the destination IP address. If no IP address is specified, the test execution fails.                                 |
| npack <10-100>       | Specifies the RTP npack value. The default value is 50.                                                                        |
| nsync <10-100>       | Specifies the RTP nsync value. The default value is 10.                                                                        |
| period <1000-200000> | Specifies the interval between packets in microseconds, generated by the RTP test. The default interval is 20000 microseconds. |

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## slamon server-bypass

Enables the agent server bypass mode.

### Syntax

- `slamon server-bypass [enable]`
- `no slamon server-bypass [enable]`
- `default slamon server-bypass`

### Default

None

### Command mode

Application Configuration



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## slamon server ip address

Configures the agent server IP address.

### Syntax

- `slamon server ip address {A.B.C.D} [{A.B.C.D}]`
- `default slamon server ip address`

### Default

None

### Command mode

Application Configuration

### Command parameters

| Parameter                                          | Description                                                                                                                            |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <code>{A.B.C.D}</code><br><code>[{A.B.C.D}]</code> | Restricts the agent to use of this server IP address only. The default is 0.0.0.0, which means the agent can register with any server. |

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## slamon server port

Configure the server TCP registration port.

### Syntax

- `slamon server port <0-65535>`
- `default slamon server port`

### Default

None

### Command mode

Application Configuration

### Command parameters

| Parameter | Description                                                                                                                                                                                     |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <0-65535> | Restricts the agent to use of this registration port only. The default is 0, which means the agent disregards the source port information in server traffic. The server must use the same port. |

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## slpp-guard (Ethernet Interface Configuration)

Configures SLPP Guard for switch ports.

### Syntax

- `slpp-guard [port <portlist>][enable][timeout {0| <10-65535>}]`
- `no slpp-guard [port <portlist>][enable][timeout {0| <10-65535>}]`
- `default slpp-guard [port <portlist>][enable][timeout {0| <10-65535>}]`

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

| Parameter                                 | Description                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>default</code>                      | Sets SLPP Guard parameters to default values for a port or list of ports.                                                                                                                                                                                                                                                               |
| <code>enable</code>                       | Enables SLPP Guard parameters for a port or list of ports.                                                                                                                                                                                                                                                                              |
| <code>no</code>                           | Disables SLPP Guard parameters for a port or list of ports.                                                                                                                                                                                                                                                                             |
| <code>port &lt;portlist&gt;</code>        | Specifies the port or list of ports on which the specified SLPP Guard parameter or parameters are configured                                                                                                                                                                                                                            |
| <code>timeout {0 &lt;10-65535&gt;}</code> | Specifies the time period, in seconds, for which SLPP Guard disables the port. After the timeout period expires, the switch re-enables the port. The timeout value can be 0 or a value ranging from 10 to 65535. With a value of 0, the port remains disabled until it is manually re-enabled. The default timeout value is 60 seconds. |

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## slpp-guard (Global Configuration)

Configures SLPP-guard global settings.

### Syntax

- `slpp-guard ethertype <0x0600-0xffff>`
- `default slpp-guard ethertype`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                                    | Description                           |
|----------------------------------------------|---------------------------------------|
| <code>ethertype &lt;0x0600-0xffff&gt;</code> | Ethertype used for SLPP-guard packets |

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## snmp-server bootstrap

Generates SNMP bootstrap parameters.

### Syntax

- `snmp-server bootstrap <minimum-secure> | <semi-secure> | <very-secure>`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                   | Description                        |
|-----------------------------|------------------------------------|
| <code>minimum-secure</code> | Use minimum security configuration |
| <code>semi-secure</code>    | Use partial security configuration |
| <code>very-secure</code>    | Use maximum security configuration |

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## snmp-server community

Enables SNMP; set community string and access privs.

### Syntax

- `snmp-server community <WORD> {read-view <WORD> | write-view <WORD> | notify-view <WORD> | ro |rw }`
- `no snmp-server community {<WORD> | ro |rw }`
- `default snmp-server community { ro |rw }`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter          | Description                                  |
|--------------------|----------------------------------------------|
| <WORD>             | SNMP community string                        |
| notify-view <WORD> | Enter notify (trap) access view name         |
| read-view <WORD>   | Enter read access view name                  |
| ro                 | Read-only access with this community string  |
| rw                 | Read-write access with this community string |
| write-view <WORD>  | Enter write access view name                 |

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## snmp-server contact

Text for mib object sysContact.

### Syntax

- `snmp-server contact <LINE>`
- `no snmp-server contact`
- `default snmp-server contact`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter | Description                                                |
|-----------|------------------------------------------------------------|
| <LINE>    | Identification of the contact person for this managed node |

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## snmp-server disable

Disables SNMP access.

### Syntax

- `snmp-server disable`

### Default

None

### Command mode

Global Configuration



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## snmp-server enable

Enables SNMP access.

### Syntax

- `snmp-server enable`

### Default

None

### Command mode

Global Configuration

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## snmp-server engine-id

Changes the default unique SNMP Engine ID.

### Syntax

- `snmp-server engine-id <WORD>`
- `default snmp-server engine-id`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter | Description                   |
|-----------|-------------------------------|
| <WORD>    | Specifies the SNMP Engine ID. |

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## snmp-server host

Specifies hosts to receive SNMP notifications.

### Syntax

- `snmp-server host [A.B.C.D] [<WORD>] [port <1-65535>] [v1 <WORD> filter <WORD>] [v2c <WORD> {filter <WORD> | inform {[timeout <1-2147483647>} [retries <0-255>]}] [v3 <auth | no-auth> <WORD>]`
- `no snmp-server host [A.B.C.D] [<WORD>] [port <1-65535>] [v1] [v2c] [v3] [ <WORD>]`
- `default snmp-server host`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter              | Description                                 |
|------------------------|---------------------------------------------|
| <WORD>                 | IPv6 Address of SNMP Notification Host      |
| A.B.C.D                | IP address of SNMP notification host        |
| auth                   | Generate authenticated traps                |
| filter <WORD>          | Create SNMP notify filter profile           |
| inform                 | Generate acknowledge Inform requests        |
| no-auth                | Generate unauthenticated traps              |
| port <1-65535>         | Select a non-standard SNMP trap port        |
| retries <0-255>        | Retries for inform requests                 |
| timeout <1-2147483647> | Timeout for inform requests (centi-seconds) |
| v1 <WORD>              | Create SNMPv1 trap receiver                 |
| v2c <WORD>             | Create SNMPv2c trap receiver                |
| v3                     | Create SNMPv3 trap receiver                 |

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## snmp-server location

Modifies text for mib object sysLocation.

### Syntax

- `snmp-server location <LINE>`
- `no snmp-server location`
- `default snmp-server location`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter | Description                        |
|-----------|------------------------------------|
| <LINE>    | The physical location of this node |

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## snmp-server name

Modifies text for mib object sysName.

### Syntax

- `snmp-server name <LINE>`
- `no snmp-server name`
- `default snmp-server name`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter | Description                  |
|-----------|------------------------------|
| <LINE>    | The system name of this node |

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## snmp-server notification-control

Enables generation of a notification type.

### Syntax

- `snmp-server notification-control <WORD> <LINE>`
- `no snmp-server notification-control <WORD> <LINE>`
- `default snmp-server notification-control <WORD> <LINE>`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter | Description                               |
|-----------|-------------------------------------------|
| <LINE>    | List of ports                             |
| <WORD>    | Description or OID of a notification type |

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## snmp-server notify-filter

Creates SNMP notify filter.

### Syntax

- `snmp-server notify-filter <Profile-name> <WORD> [<WORD>] [<WORD>] [<WORD>] [<WORD>]`  
 `[<WORD>] [<WORD>] [<WORD>] [<WORD>] [<WORD>]`
- `no snmp-server notify-filter <WORD> [<WORD>]`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter      | Description                             |
|----------------|-----------------------------------------|
| <Profile-name> | Filter profile name                     |
| <WORD>         | Description or OID filter specification |

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## snmp-server user

Creates SNMPv3 user.

### Syntax

- `snmp-server user {[engine-id <WORD> <user-name>] [md5 <LINE>] | [WORD] [md5<LINE>] [read-view <WORD>] [write-view <WORD>] [notify-view <WORD>]}`
- `no snmp-server user [engine-id <WORD>] | [WORD]`
- `default snmp-server port`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter          | Description                                          |
|--------------------|------------------------------------------------------|
| <user-name>        | User name                                            |
| engine-id <WORD>   | Enter a remote SNMP entity's snmpEngineID            |
| md5                | Select MD5 authentication protocol                   |
| md5 <LINE>         | MD5 authentication password                          |
| notify-view <WORD> | Enter unauthenticated notify (trap) access view name |
| read-view <WORD>   | Enter unauthenticated read access view name          |
| write-view <WORD>  | Enter unauthenticated write access view name         |



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## snmp-server view

Creates/modifies an SNMP access view.

### Syntax

- `snmp-server view <view-name> <OID> [<OID> [<OID> [<OID> [<OID> [<OID> [<OID> [<OID> [<OID> [<OID> [<OID>]]]]]]]]]`
- `no snmp-server view <view-name>`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter   | Description            |
|-------------|------------------------|
| <OID>       | OID view specification |
| <view-name> | View name              |

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## sntp enable

Enables Simple Network Time Protocol (SNTP) parameters.

### Syntax

- `sntp enable`
- `no sntp enable`
- `default sntp enable`

### Default

None

### Command mode

Global Configuration

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## sntp server primary

Configures primary SNTP server.

### Syntax

- `sntp server primary address {A.B.C.D} | [WORD]`
- `no sntp server primary`
- `default sntp server primary`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter | Description                             |
|-----------|-----------------------------------------|
| {A.B.C.D} | server IP address                       |
| <WORD>    | primary server IPV6 address (45 length) |
| address   | primary server address                  |

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## sntp server secondary

Configures secondary SNTP server.

### Syntax

- sntp server secondary address {A.B.C.D} | [WORD]
- no sntp server secondary
- default sntp server secondary

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter | Description                               |
|-----------|-------------------------------------------|
| {A.B.C.D} | server IP address                         |
| <WORD>    | secondary server IPV6 address (45 length) |
| address   | secondary server address                  |

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## sntp sync-interval

Sets SNTP re-synchronization interval.

### Syntax

- `sntp sync-interval <0-168>`
- `default sntp sync-interval`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                  | Description                            |
|----------------------------|----------------------------------------|
| <code>&lt;0-168&gt;</code> | SNTP re-synchronization interval hours |

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## sntp sync-now

Forces immediate SNTP synchronization.

### Syntax

- `sntp sync-now`

### Default

None

### Command mode

Global Configuration

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## spanning-tree 802dot1d-port-compliance

Sets 802dot1d port compliance mode.

### Syntax

- `spanning-tree 802dot1d-port-compliance enable`
- `no spanning-tree 802dot1d-port-compliance enable`
- `default spanning-tree 802dot1d-port-compliance enable`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter           | Description                          |
|---------------------|--------------------------------------|
| <code>enable</code> | Enable 802dot1d port compliance mode |

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## spanning-tree add-vlan

Adds a VLAN to a spanning-tree group.

### Syntax

- `spanning-tree add-vlan <1-4094>`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter | Description |
|-----------|-------------|
| <1-4094>  | VLAN ID     |



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## spanning-tree bpd-filtering (Ethernet Interface Configuration)

Configures STP BPDU filtering.

### Syntax

- `spanning-tree bpd-filtering [port <portlist>] [enable] [timeout <10-65535 | 0>]`
- `no spanning-tree bpd-filtering [enable] [port <portlist>enable]`
- `default spanning-tree bpd-filtering [enable] [port <portlist>enable]`

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

| Parameter                                 | Description                                                                                                                                                                                                                   |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>enable</code>                       | Enables STP BPDU Filtering on the specified ports. The default value is disabled                                                                                                                                              |
| <code>port &lt;portlist&gt;</code>        | Specifies the ports affected by the command.                                                                                                                                                                                  |
| <code>timeout &lt;10-65535   0&gt;</code> | When BPDU filtering is enabled, this indicates the time (in seconds) during which the port remains disabled after it receives a BPDU. The port timer is disabled if this value is set to 0. The default value is 120 seconds. |

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## spanning-tree bpd-filtering (Global Configuration)

Configures spanning-tree bpd-filtering.

### Syntax

- `spanning-tree bpd-filtering ignore-self`
- `no spanning-tree bpd-filtering ignore-self`
- `default spanning-tree bpd-filtering ignore-self`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                | Description               |
|--------------------------|---------------------------|
| <code>ignore-self</code> | Ignore bridge's own BPDUs |

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## spanning-tree cost-calc-mode

Sets pathcost type IEEE 802.1d or IEEE 802.1t.

### Syntax

- `spanning-tree cost-calc-mode [dot1d | dot1t]`
- `default spanning-tree cost-calc-mode`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter          | Description          |
|--------------------|----------------------|
| <code>dot1d</code> | IEEE 802.1d pathcost |
| <code>dot1t</code> | IEEE 802.1t pathcost |

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## spanning-tree (Ethernet Interface Configuration)

Sets the Spanning Tree Protocol (STP) and multiple Spanning Tree Group (STG) participation for the ports within the specified Spanning Tree Group.

### Syntax

- `spanning-tree [port <portlist>] [stp <1-8>] [learning {disable | normal | fast}] [cost <1-65535>] [priority {00 | 10 | < | F0}]`
- `default spanning-tree [port <portlist>] [stp <1-8>] [learning] [cost] [priority]`
- `no spanning-tree [port <portlist>] [stp <1-8>]`

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

| Parameter                                   | Description                                                                                                                                                                                                                                                                      |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>cost &lt;1-65535&gt;</code>           | Enter the path cost of the spanning tree; range is from 1–65535.                                                                                                                                                                                                                 |
| <code>learning {disable normal fast}</code> | Specify the STP learning mode: disable: disables FastLearn mode; normal: changes to normal learning mode; fast: enables FastLearn mode.                                                                                                                                          |
| <code>port &lt;portlist&gt;</code>          | Enable the spanning tree for the specified port or ports; enter port or ports you want enabled for the spanning tree. If you omit this parameter, the system uses the port number you specified when you issued the interface command to enter the Interface Configuration mode. |
| <code>priority {00   10   &lt;   F0}</code> | Set the spanning tree priority for a port as a hexadecimal value.                                                                                                                                                                                                                |
| <code>stp &lt;1-8&gt;</code>                | Specify the spanning tree group; enter the STG ID.                                                                                                                                                                                                                               |

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## spanning-tree forward-time

Sets spanning tree forwarding time.

### Syntax

- spanning-tree forward-time <4-30> [hello-time <1-10>] [max-age <6-40>] [multicast-address <H.H.H>] [priority {[0000] [1000] [2000] [3000] [4000] [5000] [6000] [7000] [8000] [9000] [a000] [b000] [c000] [d000] [e000] [f000]}] [tagged-bpdu {[disable] [enable]}] [tagged-bpdu-vid <1-4094>]
- default spanning-tree forward-time [hello-time] [max-age] [multicast-address] [priority] [tagged-bpdu]

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                                    | Description                                                                              |
|----------------------------------------------|------------------------------------------------------------------------------------------|
| <4-30>                                       | seconds                                                                                  |
| disable                                      | Disable tagged BPDUs on tagged ports                                                     |
| enable                                       | Enable tagged BPDUs on tagged ports                                                      |
| hello-time <1-10>                            | Set spanning tree hello time                                                             |
| max-age <6-40>                               | Set spanning tree maximum age                                                            |
| multicast-address <H.H.H>                    | Set spanning-tree multicast MAC address                                                  |
| priority (0000 - f000 priority value in Hex) | Set spanning tree priority (in Hex); if 802.1T compliance, should be multiple of 0x1000. |
| tagged-bpdu                                  | Enable/disable tagged BPDUs on tagged ports                                              |
| tagged-bpdu-vid <1-4094>                     | Set VLAN ID for tagged BPDUs                                                             |

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## spanning-tree hello-time

Sets spanning tree hello time.

### Syntax

- spanning-tree hello-time <1-10> [max-age <6-40>] [multicast-address <H.H.H>] [priority {[0000] [1000] [2000] [3000] [4000] [5000] [6000] [7000] [8000] [9000] [a000] [b000] [c000] [d000] [e000] [f000]}] [tagged-bpdu {[disable] [enable]}] [tagged-bpdu-vid <1-4094>]
- default spanning-tree hello-time [max-age] [multicast-address] [priority] [tagged-bpdu]

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                                    | Description                                                                              |
|----------------------------------------------|------------------------------------------------------------------------------------------|
| disable                                      | Disable tagged BPDUs on tagged ports                                                     |
| enable                                       | Enable tagged BPDUs on tagged ports                                                      |
| hello-time <1-10>                            | Set spanning tree hello time                                                             |
| max-age <6-40>                               | Set spanning tree maximum age                                                            |
| multicast-address <H.H.H>                    | Set spanning-tree multicast MAC address                                                  |
| priority (0000 - f000 priority value in Hex) | Set spanning tree priority (in Hex); if 802.1T compliance, should be multiple of 0x1000. |
| tagged-bpdu                                  | Enable/disable tagged BPDUs on tagged ports                                              |
| tagged-bpdu-vid <1-4094>                     | Set VLAN ID for tagged BPDUs                                                             |

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## spanning-tree max-age

Sets spanning tree maximum age.

### Syntax

- spanning-tree max-age <6-40> [multicast-address <H.H.H>] [priority {[0000] [1000] [2000] [3000] [4000] [5000] [6000] [7000] [8000] [9000] [a000] [b000] [c000] [d000] [e000] [f000]}] [tagged-bpdu {[disable] [enable]}] [tagged-bpdu-vid <1-4094>]
- default spanning-tree max-age <6-40> [multicast-address] [priority] [tagged-bpdu]

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                                    | Description                                                                              |
|----------------------------------------------|------------------------------------------------------------------------------------------|
| disable                                      | Disable tagged BPDUs on tagged ports                                                     |
| enable                                       | Enable tagged BPDUs on tagged ports                                                      |
| max-age <6-40>                               | Set spanning tree maximum age                                                            |
| multicast-address <H.H.H>                    | Set spanning-tree multicast MAC address                                                  |
| priority (0000 - f000 priority value in Hex) | Set spanning tree priority (in Hex); if 802.1T compliance, should be multiple of 0x1000. |
| tagged-bpdu                                  | Enable/disable tagged BPDUs on tagged ports                                              |
| tagged-bpdu-vid <1-4094>                     | Set VLAN ID for tagged BPDUs                                                             |

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## spanning-tree mode

Sets spanning tree operation mode.

### Syntax

- spanning-tree mode {mst | rstp | stpg}

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter | Description                                                 |
|-----------|-------------------------------------------------------------|
| mst       | 802.1s Multi Spanning Tree Protocol                         |
| rstp      | 802.1w Rapid Spanning Tree Protocol (single group/instance) |
| stpg      | Avaya Multi Spanning Tree Protocol                          |

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## spanning-tree mstp (Ethernet Interface Configuration)

Sets the MSTP parameters.

### Syntax

- spanning-tree MSTP [port <portlist>] [cost <1-200000000>] [edge-port {false | true}][hello-time <1-10>] [learning {disable | enable}][p2p {auto | force-false | force-true}][priority {00 | 10 | < | F0}] [protocol-migration {false | true}][instance-specific <1-7>]
- default spanning-tree mstp [port <LINE>] [cost][edge-port][hello-time][learning][p2p][priority][protocol-migration]
- spanning-tree mstp msti [ <1-7> ] [ port LINE ] [ cost ] <1-200000000> [ learning {disable | enable } ] [priority {00 | 10 | < | F0}]
- default spanning-tree mstp msti <1-7> [port<portlist>] [cost] [learning] [priority]

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

| Parameter                            | Description                                                                                                                                                    |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| cost <1-200000000>                   | Set the MSTP path cost on the single or multiple ports for the CIST; the default is 200000.                                                                    |
| edge-port {false   true}             | Indicate whether the single or multiple ports are assumed to be edge ports. This parameter sets the Admin value of edge port status; the default is false.     |
| hello-time <1-10>                    | Set the MSTP hello time on the single or multiple ports for the CIST; the default is 2.                                                                        |
| instance-specific <1-7>              | Set the MSTP instance-specific configuration in a range from 1–7 (filter on the MSTP instance).                                                                |
| learning {disable   enable}          | Enable or disable MSTP on the single or multiple ports; the default is enable.                                                                                 |
| p2p {auto   force-false   forcetrue} | Indicate whether the single or multiple ports are treated as point-to-point links. This command sets the Admin value of P2P Status; the default is force-true. |
| port <portlist>                      | Enter a list or range of port numbers.                                                                                                                         |
| priority {00   10   ...   F0}        | Set the MSTP port priority on the single or multiple ports; the default is 80.                                                                                 |
| protocol-migration {false   true}    | Force the single or multiple ports to transmit MSTP BPDUs when set to true, while operating in MSTP mode; the default is false.                                |

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## spanning-tree multicast-address

Sets spanning-tree multicast MAC address.

### Syntax

- `spanning-tree multicast-address <H.H.H>`
- `default spanning-tree multicast-address`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter   | Description                                                                                       |
|-------------|---------------------------------------------------------------------------------------------------|
| <H . H . H> | Multicast MAC Address (i.e. H.H.H or xx:xx:xx:xx:xx:xx or xx.xx.xx.xx.xx.xx or xx-xx-xx-xx-xx-xx) |

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## spanning-tree port-mode

Sets spanning-tree port membership mode.

### Syntax

- `spanning-tree port-mode {auto | normal}`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter           | Description                               |
|---------------------|-------------------------------------------|
| <code>auto</code>   | spanning-tree auto port membership mode   |
| <code>normal</code> | spanning-tree normal port membership mode |

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## spanning-tree priority

Sets spanning tree priority (in Hex); if 802.1T compliance, should be multiple of 0x1000.

### Syntax

- spanning-tree priority {[0000] [1000] [2000] [3000] [4000] [5000] [6000] [7000] [8000] [9000] [a000] [b000] [c000] [d000] [e000] [f000]}] [multicast-address <H.H.H>][tagged-bpdu {[disable] [enable]}] [tagged-bpdu-vid <1-4094>]
- default spanning-tree priority [multicast-address] [tagged-bpdu] [tagged-bpdu-vid]

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                                    | Description                                                                              |
|----------------------------------------------|------------------------------------------------------------------------------------------|
| disable                                      | Disable tagged BPDUs on tagged ports                                                     |
| enable                                       | Enable tagged BPDUs on tagged ports                                                      |
| multicast-address <H.H.H>                    | Set spanning-tree multicast MAC address                                                  |
| priority (0000 - f000 priority value in Hex) | Set spanning tree priority (in Hex); if 802.1T compliance, should be multiple of 0x1000. |
| tagged-bpdu                                  | Enable/disable tagged BPDUs on tagged ports                                              |
| tagged-bpdu-vid <1-4094>                     | Set VLAN ID for tagged BPDUs                                                             |

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## spanning-tree remove-vlan

Removes a VLAN from a spanning-tree group.

### Syntax

- `spanning-tree remove-vlan <1-4094>`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                   | Description |
|-----------------------------|-------------|
| <code>&lt;1-4094&gt;</code> | VLAN ID     |

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## spanning-tree rstp (Ethernet Interface Configuration)

Sets the RSTP parameters.

### Syntax

- spanning-tree rstp [port <portlist>] [cost <1 - 200000000>] [edge-port {false | true}] [learning {disable | enable}] [p2p {auto | force-false | force-true}] [priority {00 | 10 | ... | F0}] [protocol-migration {false | true}]
- default spanning-tree rstp [port <LINE>] [ cost | edge-port | learning | p2p | priority | protocol-migration ]

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

| Parameter                             | Description                                                                                                                                                          |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| cost <1-200000000>                    | Set the RSTP path cost on the single or multiple ports; the default is 200000.                                                                                       |
| edge-port {false   true}              | Indicate whether the single or multiple ports are assumed to be edge ports. This parameter sets the Admin value of edge port status; the default is false.           |
| learning {disable   enable}           | Enable or disable RSTP on the single or multiple ports; the default is enable.                                                                                       |
| p2p {auto   force-false   force-true} | Indicate whether the single or multiple ports are to be treated as point-to-point links. This command sets the Admin value of P2P Status; the default is force-true. |
| port <portlist>                       | Filter on list of ports.                                                                                                                                             |
| priority {00   10   ...   F0}         | Set the RSTP port priority on the single or multiple ports; the default is 80.                                                                                       |
| protocol-migration {false   true}     | Force the single or multiple port to transmit RSTP BPDUs when set to true, while operating in RSTP mode; the default is false.                                       |

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## spanning-tree stp

Specifies spanning-tree group ID.

### Syntax

- spanning-tree [stp <1-8>] [forward-time <4-30>] [hello-time <1-10>] [max-age <6-40>] [priority {[0000] [1000] [2000] [3000] [4000] [5000] [6000] [7000] [8000] [9000] [a000] [b000] [c000] [d000] [e000] [f000]}] [tagged-bpdu {enable | disable}] [tagged-bpdu-vid <1-4094>] [multicast-address <H.H.H>] [add-vlan <1-4094>] [create] [delete] [disable] [enable] [remove-vlan <1-4094>]
- default spanning-tree stp <1-8> [forward-time] [hello-time] [max-age] [priority] [tagged-bpdu] [multicast-address]

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                                    | Description                                                                              |
|----------------------------------------------|------------------------------------------------------------------------------------------|
| <1-8>                                        | STPG ID                                                                                  |
| add-vlan <1-4094>                            | Add a VLAN to a spanning-tree group                                                      |
| create                                       | Create a spanning-tree group (STG)                                                       |
| delete                                       | Delete a spanning-tree group (STG)                                                       |
| disable                                      | Disable a spanning tree group (STG)                                                      |
| enable                                       | Enable a spanning tree group (STG)                                                       |
| forward-time <4-30>                          | Set spanning tree forwarding time                                                        |
| hello-time <1-10>                            | Set spanning tree hello time                                                             |
| max-age <6-40>                               | Set spanning tree maximum age                                                            |
| multicast-address <H.H.H>                    | Set spanning-tree multicast MAC address                                                  |
| priority (0000 - f000 priority value in Hex) | Set spanning tree priority (in Hex); if 802.1T compliance, should be multiple of 0x1000. |
| remove-vlan <1-4094>                         | Remove a VLAN from a spanning-tree group                                                 |
| tagged-bpdu {enable   disable}               | Enable/disable tagged BPDUs on tagged ports                                              |
| tagged-bpdu-vid <1-4094>                     | Set VLAN ID for tagged BPDUs                                                             |



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## spanning-tree tagged-bpdu

Enables/disables tagged BPDUs on tagged ports.

### Syntax

- `spanning-tree tagged-bpdu {enable | disable} [tagged-bpdu-vid <1-4094>] [multicast-address <H.H.H>]`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                                    | Description                             |
|----------------------------------------------|-----------------------------------------|
| <code>disable</code>                         | Disable tagged BPDUs on tagged ports    |
| <code>enable</code>                          | Enable tagged BPDUs on tagged ports     |
| <code>multicast-address &lt;H.H.H&gt;</code> | Set spanning-tree multicast MAC address |
| <code>tagged-bpdu-vid &lt;1-4094&gt;</code>  | Set VLAN ID for tagged BPDUs            |

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## spanning-tree tagged-bpdu-vid

Sets VLAN ID for tagged BPDUs.

### Syntax

- `spanning-tree tagged-bpdu-vid <1-4094> [multicast-address <H.H.H>]`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                                    | Description                             |
|----------------------------------------------|-----------------------------------------|
| <code>multicast-address &lt;H.H.H&gt;</code> | Set spanning-tree multicast MAC address |
| <code>tagged-bpdu-vid &lt;1-4094&gt;</code>  | Set VLAN ID for tagged BPDUs            |

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## spbm (Global Configuration)

Enables SPBM.

### Syntax

- `spbm ethertype {0x8100 | 0x88a8}`
- `no spbm`
- `default spbm ethertype`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter | Description        |
|-----------|--------------------|
| 0x8100    | 0x8100             |
| 0x88a8    | 0x88a8             |
| ethertype | Set SPBM ethertype |

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## spbm (ISIS Router Configuration)

Creates the SPBM instance.

### Syntax

- `spbm <1-100>`
- `no spbm <1-100>`
- `default spbm <1-100>`
- `spbm <1-100> b-vid {<vlan-id> [-<vlan-id>][,...]} [primary <1-4094>]`
- `no spbm <1-100> b-vid {<vlan-id> [-<vlan-id>][,...]} [primary <1-4094>]`
- `default spbm <1-100> b-vid {<vlan-id> [-<vlan-id>][,...]} [primary <1-4094>]`

### Default

None

### Command mode

ISIS Router Configuration

### Command parameters

| Parameter                                                     | Description                                                                                                                                                                               |
|---------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>&lt;1-100&gt;</code>                                    | Creates the SPBM instance. In this release, only one SPBM instance is supported                                                                                                           |
| <code>b-vid {&lt;vlan-id&gt; [-&lt;vlan-id&gt;][,...]}</code> | Sets the ISIS SPBM instance data VLANs. Use the no option to remove the specified BVLAN from the SPBM instance.                                                                           |
| <code>nick-name &lt;x.xx.xx&gt;</code>                        | Specifies a nickname for the SPBM instance globally. The value is 2.5 bytes in the format <code>&lt;x.xx.xx&gt;</code> . Use the no or default options to delete the configured nickname. |
| <code>primary &lt;1-4094&gt;</code>                           | Sets the IS-IS instance primary data VLAN                                                                                                                                                 |

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## spbm lsdb-trap enable

Enables a trap when the SPBM LSDB changes.

### Syntax

- `spbm <1-100> lsdb-trap enable`
- `no spbm <1-100> lsdb-trap enable`
- `default spbm <1-100> lsdb-trap enable`

### Default

None

### Command mode

ISIS Router Configuration

### Command parameters

| Parameter | Description                 |
|-----------|-----------------------------|
| <1-100>   | Specifies the SPBM instance |

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## spbm nick-name

Configures the system nickname.

### Syntax

- `spbm <1-100> nick-name <x.xx.xx>`
- `no spbm <1-100> nick-name <x.xx.xx>`
- `default spbm <1-100> nick-name <x.xx.xx>`

### Default

None

### Command mode

ISIS Router Configuration

### Command parameters

| Parameter                                              | Description                                                                                                                                                                                                        |
|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>nick-name</code><br><code>&lt;x.xx.xx&gt;</code> | Specifies a nickname for the SPBM instance globally. The value is 2.5 bytes in the format <code>&lt;x.xx.xx&gt;</code> . Use the <code>no</code> or <code>default</code> options to delete the configured nickname |

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## speed

Sets the port speed.

### Syntax

- `speed [port <portlist>] {10 | 100 | 1000 | 10000 | auto}`
- `default speed [port <portlist>]`

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

| Parameter                           | Description                                                                                                        |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| <code>10 100 1000 10000 auto</code> | Set the speed to: 10: 10 Mb/s; 100: 100 Mb/s; 1000: 1000 Mb/s or 1 GB/s; 10000: 10000 Mb/s; auto: autonegotiation. |
| <code>port &lt;portlist&gt;</code>  | List of ports                                                                                                      |

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## spf-delay

Configures the SPF delay in milliseconds.

### Syntax

- `spf-delay <0-5000>`
- `no spf-delay`
- `default spf-delay`

### Default

100

### Command mode

ISIS Router Configuration

### Command parameters

| Parameter | Description                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <0-5000>  | Configures the delay, in milliseconds, to pace successive Shortest Path First (SPF) runs. The timer prevents more than two SPF runs from being scheduled back-to-back. The mechanism for pacing SPF allows two back-to-back SPF runs. The default value is 100 milliseconds. Use the <code>no</code> or <code>default</code> options to set this parameter to the default value of 100 milliseconds. |



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## sshc authentication

Configure the SFTP authentication method Secure Shell (SSH) Client uses for transferring files.

### Syntax

- `sshc authentication {dsa|password|rsa}`
- `no sshc authentication`
- `default sshc authentication`

### Default

The default is DSA.

### Command mode

Global Configuration

### Command parameters

| Parameter             | Description                                               |
|-----------------------|-----------------------------------------------------------|
| <code>dsa</code>      | Enables SFTP DSA authentication for SSH Client (default). |
| <code>password</code> | Enables SFTP password authentication for SSH Client.      |
| <code>rsa</code>      | Enables SFTP RSA authentication for SSH Client.           |

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## sshc close-session

Close a specific Secure Shell (SSH) Client session.

### Syntax

- `sshc close-session <0-8>`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter | Description                          |
|-----------|--------------------------------------|
| <0-8>     | Specifies the SSH Client session ID. |

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## sshc dsa-host-key

Generate public and private DSA Secure Shell (SSH) client host keys for user access authentication.

### Syntax

- `sshc dsa-host-key [force]`
- `no sshc dsa-host-key`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter          | Description                                                        |
|--------------------|--------------------------------------------------------------------|
| <code>force</code> | Create a new DSA key, even in the presence of an existing DSA key. |

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## sshc dsa-key

Configures the Secure Shell Client (SSHC) DSA host key size and generates the new key at system reboot.

### Syntax

- `sshc dsa-key <512-1024>`
- `default sshc dsa-key`
- `default sshc dsa-keysize`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter  | Description                                                                                                                                                                                                 |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <512-1024> | Specifies the key size. Use the command <code>default sshc dsa-key</code> to clear the SSHC DSA key and then use the command <code>default sshc dsa-keysize</code> to configure the keysize to the default. |

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## sshc port

Configures the Secure Shell Client (SSHC) port to accept new connections.

### Syntax

- `sshc port <1-65535>`
- `default sshc port`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                    | Description             |
|------------------------------|-------------------------|
| <code>&lt;1-65535&gt;</code> | Specifies the TCP port. |

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## sshc rsa-host-key

Generate public and private Secure Shell Client (SSHC) RSA host keys for user access authentication.

### Syntax

- `sshc rsa-host-key [force]`
- `no sshc rsa-host-key`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter          | Description                                                        |
|--------------------|--------------------------------------------------------------------|
| <code>force</code> | Create a new RSA key, even in the presence of an existing RSA key. |

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## sshc rsa-key

Configure Secure Shell Client (SSHC) RSA host key size and generate a new key at the next system reboot.

### Syntax

- `sshc rsa-key <1024-2048>`
- `default sshc rsa-key`
- `default sshc rsa-keysize`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter   | Description                                                                                                                                                                                                 |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <1024-2048> | Specifies the key size. Use the command <code>default sshc rsa-key</code> to clear the SSHC RSA key and then use the command <code>default sshc rsa-keysize</code> to configure the keysize to the default. |

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## sshc upload-host-key

Upload the Secure Shell Client (SSHC) host key.

### Syntax

- sshc upload-host-key [address {<A.B.C.D>|<WORD>}][dsa][key-name <WORD>][rsa][usb unit <1-8>]

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                  | Description                                                       |
|----------------------------|-------------------------------------------------------------------|
| address {<A.B.C.D> <WORD>} | Specifies the TFTP server address.                                |
| dsa                        | Uploads the Secure Shell Client (SSHC) DSA host key.              |
| key-name <WORD>            | Specifies the TFTP filename.                                      |
| rsa                        | Uploads the Secure Shell Client (SSHC) RSA host key.              |
| usb unit <1-8>             | Uploads the Secure Shell Client (SSHC) authentication key to USB. |



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## stack auto-unit-replacement

Sets auto unit replacement settings.

### Syntax

- `stack auto-unit-replacement config {restore unit <1-8> | save [disable] [enable] [unit <1-8>]}`
- `no stack auto-unit-replacement enable`
- `default stack auto-unit-replacement enable`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                     | Description                                                                   |
|-------------------------------|-------------------------------------------------------------------------------|
| <code>config</code>           | Modify AUR operational settings                                               |
| <code>disable</code>          | Disable AUR auto-save                                                         |
| <code>enable</code>           | Enable AUR auto-save                                                          |
| <code>restore</code>          | Restore configuration of a unit from the saved configuration on the base unit |
| <code>save</code>             | Enable/disable auto-save of unit configuration to base unit                   |
| <code>unit &lt;1-8&gt;</code> | Force immediate save of NBU config to BU                                      |

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## stack auto-unit-replacement config

Modifies AUR operational settings.

### Syntax

- `stack auto-unit-replacement config {restore unit <1-8>} | save {disable |enable |unit <1-8>}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter  | Description                                                                   |
|------------|-------------------------------------------------------------------------------|
| disable    | Disable AUR auto-save                                                         |
| enable     | Enable AUR auto-save                                                          |
| restore    | Restore configuration of a unit from the saved configuration on the base unit |
| save       | Enable/disable auto-save of unit configuration to base unit                   |
| unit       | Force immediate save of NBU config to BU                                      |
| unit <1-8> | select unit                                                                   |

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## stack auto-unit-replacement-image

Sets auto unit image replacement settings.

### Syntax

- stack auto-unit-replacement-image enable
- no stack auto-unit-replacement-image enable
- default stack auto-unit-replacement-image enable

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter | Description                        |
|-----------|------------------------------------|
| enable    | Enable auto unit image replacement |

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## stack auto-unit-replacement remove-mac-address

Removes a unit's MAC address from the AUR cache.

### Syntax

- `stack auto-unit-replacement remove-mac-address unit <1-8>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                     | Description |
|-------------------------------|-------------|
| <code>unit &lt;1-8&gt;</code> | select unit |

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## stack forced-mode

Enables the forced stack mode.

### Syntax

- `stack forced-mode`
- `no stack forced-mode`
- `default stack forced-mode`

### Default

None

### Command mode

Global Configuration

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## stack loopback-test

Stacks ports loopback test.

### Syntax

- `stack loopback-test {external | internal}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter             | Description                                |
|-----------------------|--------------------------------------------|
| <code>external</code> | External loopback test for the stack ports |
| <code>internal</code> | Internal loopback test for the stack ports |

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## stack-monitor

Configures stack monitoring.

### Syntax

- `stack-monitor [enable] [stack-size <2-8>] [trap-interval <30-300>]`
- `no stack-monitor enable`
- `default stack-monitor [enable] [stack-size] [trap-interval]`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                                 | Description                                   |
|-------------------------------------------|-----------------------------------------------|
| <code>enable</code>                       | Enable stack monitoring                       |
| <code>stack-size &lt;2-8&gt;</code>       | Set stack size to be monitored <2-8>          |
| <code>trap-interval &lt;30-300&gt;</code> | Set interval between traps (seconds) <30-300> |

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## stack reboot-on-failure

Reboots stack units when their stacking ports fail to come up.

### Syntax

- `stack reboot-on-failure`
- `no stack reboot-on-failure`
- `default stack reboot-on-failure`

### Default

None

### Command mode

Global Configuration



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## stack replace

Replaces a stack member that is down.

### Syntax

- `stack replace unit <1-8>`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                     | Description                    |
|-------------------------------|--------------------------------|
| <code>unit &lt;1-8&gt;</code> | Select the unit to be replaced |

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## stack retry-count

Configures stack retry count.

### Syntax

- stack retry-count <0-4294967295>
- default stack retry-count

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter      | Description |
|----------------|-------------|
| <0-4294967295> | retry count |

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## storm-control

Configures storm control.

### Syntax

- `storm-control [broadcast | multicast | unicast |all] [action [none | drop | shutdown ]] [enable] [high-watermark <10-100000000>] [low-watermark <10-100000000>] [poll interval <5-300>] [trap-interval <0-1000>]`
- `no storm-control [broadcast | multicast | unicast |all] [enable]`
- `default storm-control [broadcast | multicast | unicast | all] [action] [high-watermark] [low-watermark] [poll interval] [trap-interval] [enable]`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                                     | Description                                                                                                                  |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| <code>action</code><br>{drop non shutdown}    | Configures the storm control action.                                                                                         |
| <code>all</code>                              | Configures storm-control settings for all types of traffic.                                                                  |
| <code>broadcast</code>                        | Configures storm-control settings for broadcast traffic.                                                                     |
| <code>enable</code>                           | Enables storm control.                                                                                                       |
| <code>high-watermark</code><br><10-100000000> | Configures the high-watermark in pps.                                                                                        |
| <code>low-watermark</code> <10-100000000>     | Configures the low-watermark in pps.                                                                                         |
| <code>multicast</code>                        | Configures storm-control settings for multicast traffic.                                                                     |
| <code>poll-interval</code> <5-300>            | Configures the interval for watermark checking in seconds.                                                                   |
| <code>trap-interval</code> <0-1000>           | Configures the trap sending interval in poll intervals when above the high-watermark. If the value is zero it does not send. |
| <code>unicast</code>                          | Configures storm-control settings for unicast traffic.                                                                       |

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## storm-control (Ethernet Interface Configuration)

Configures storm control.

### Syntax

- storm-control [broadcast | multicast | unicast | all] [action [none | drop | shutdown ]] [enable] [high-watermark <10-100000000>] [low-watermark <10-100000000>] [poll interval <5-300>] [trap-interval <0-1000>]
- no storm-control [broadcast | multicast | unicast | all] [enable]
- default storm-control [broadcast | multicast | unicast | all] [action] [high-watermark] [low-watermark] [poll interval] [trap-interval] [enable]

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

| Parameter                        | Description                                                                                                                  |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| action<br>{drop non shutdown}    | Configures the storm control action.                                                                                         |
| all                              | Configures storm-control settings for all types of traffic.                                                                  |
| broadcast                        | Configures storm-control settings for broadcast traffic.                                                                     |
| enable                           | Enables storm control.                                                                                                       |
| high-watermark<br><10-100000000> | Configures the high-watermark in pps.                                                                                        |
| low-watermark <10-100000000>     | Configures the low-watermark in pps.                                                                                         |
| multicast                        | Configures storm-control settings for multicast traffic.                                                                     |
| poll-interval <5-300>            | Configures the interval for watermark checking in seconds.                                                                   |
| trap-interval <0-1000>           | Configures the trap sending interval in poll intervals when above the high-watermark. If the value is zero it does not send. |
| unicast                          | Configures storm-control settings for unicast traffic.                                                                       |

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## sys-name

Configures the name for the system.

### Syntax

- `sys-name <WORD> <0-255>`
- `no sys-name`
- `default sys-name`

### Default

None

### Command mode

ISIS Router Configuration

### Command parameters

| Parameter                                               | Description                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>&lt;WORD&gt;</code><br><code>&lt;0-255&gt;</code> | Specifies a name for the system. This may be used as the host name for dynamic host name exchange in accordance with RFC 2763. By default, the system name comes from the host name configured at the system level. Use the <code>no</code> or <code>default</code> options to set this parameter to the default value (host name). |

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## system-id

Configures the IS-IS system ID for the switch.

### Syntax

- system-id <xxxx.xxxx.xxxx>

### Default

None

### Command mode

ISIS Router Configuration

### Command parameters

| Parameter        | Description                                                                                                                         |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| <xxxx.xxxx.xxxx> | Specifies the IS-IS system ID for the switch. Use the no or default options to set this parameter to the default value (node BMAC). |

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## tacacs accounting

Configures TACACS+ accounting to track what the user does.

### Syntax

- tacacs accounting {disable | enable}

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter | Description        |
|-----------|--------------------|
| disable   | disable accounting |
| enable    | enable accounting  |

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## tacacs authorization

TACACS+ authorization determines what the user is allowed to do.

### Syntax

- `tacacs authorization {disable | enable | level {ALL | <LINE> | NONE}}`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter | Description                                |
|-----------|--------------------------------------------|
| ALL       | all privilege levels                       |
| disable   | disable authorization                      |
| enable    | enable authorization                       |
| level     | authorization level                        |
| LINE      | Enable authorization on privilege level(s) |
| NONE      | none privilege level                       |



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## tacacs server

TACACS+ server's primary/secondary host, shared secret key and TCP port.

### Syntax

- tacacs server [host {A.B.C.D}] [secondary-host {A.B.C.D}] [port <1-65535>] [key]
- no tacacs server [host] [secondary-host] [port] [key]
- default tacacs server [host] [secondary-host] [port] [key]

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                | Description                            |
|--------------------------|----------------------------------------|
| {A.B.C.D}                | IP address of primary TACACS+ server   |
| {A.B.C.D}                | IP address of secondary TACACS+ server |
| host {A.B.C.D}           | TACACS+ primary host                   |
| key                      | TACACS+ shared secret                  |
| port <1-65535>           | TACACS+ TCP port                       |
| secondary-host {A.B.C.D} | TACACS+ secondary host                 |

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## tacacs switch

Switches between TACACS+ privilege levels.

### Syntax

- tacacs switch {back | level <1-15>}

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter | Description         |
|-----------|---------------------|
| <1-15>    | privilege level     |
| back      | Back one level      |
| level     | New privilege level |

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## tdr

TDR test commands

### Syntax

- tdr test <WORD>

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description     |
|-----------|-----------------|
| <WORD>    | List of ports   |
| test      | Start TDR tests |

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## telnet-access

Configures TELNET access settings.

### Syntax

- telnet-access [enable | disable] [login-timeout <1-10>] [retry <1-100>] [inactive-timeout <0-60>] [logging {none | access | failures | all}] [source-ip {<1-50> {A.B.C.D} mask {A.B.C.D} | <51-100> <WORD>}]
- no telnet-access source-ip {<1-50> | <51-100>}
- default telnet-access

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                                | Description                                                             |
|------------------------------------------|-------------------------------------------------------------------------|
| <1-50>                                   | Select which address/mask pair                                          |
| <51-100>                                 | Select which ipv6 address/prefix                                        |
| access                                   | Log successful telnet connections                                       |
| all                                      | Log all telnet connections                                              |
| disable                                  | Disable TELNET access                                                   |
| enable                                   | Enable TELNET access                                                    |
| failures                                 | Log failed telnet connections                                           |
| inactive-timeout <0-60>                  | Inactivity timeout for TELNET and CONSOLE sessions                      |
| logging {none   access   failures   all} | Level of logging for TELNET and CONSOLE attempts                        |
| login-timeout <1-10>                     | Set time to wait for TELNET and CONSOLE login before closing connection |
| mask {A.B.C.D}                           | Source IP mask from which connections are allowed                       |
| none                                     | Do not log telnet connections                                           |
| retry <1-100>                            | Number of allowed login attempts for TELNET and CONSOLE                 |
| source-ip                                | Set source IP address from which connections are allowed                |

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## telnet (Privileged Executive)

Telnet to another host.

### Syntax

- telnet {<hostname> | {A.B.C.D} | <WORD>} port <0-65535>

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter              | Description                          |
|------------------------|--------------------------------------|
| <hostname>   {A.B.C.D} | remote host name or IP address       |
| <WORD>                 | remote host IPv6 address (45 length) |
| port <0-65535>         | tcp port number                      |

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## telnet (User Executive)

Telnet to another host.

### Syntax

- telnet {<hostname> | {A.B.C.D} | <WORD>} port <0-65535>

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter              | Description                          |
|------------------------|--------------------------------------|
| <hostname>   {A.B.C.D} | remote host name or IP address       |
| <WORD>                 | remote host IPv6 address (45 length) |
| port <0-65535>         | tcp port number                      |

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## terminal (Privileged Executive)

Sets terminal line parameters.

### Syntax

- terminal {length <0-132> | width <1-132>}

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter      | Description                       |
|----------------|-----------------------------------|
| length <0-132> | Set number of lines on a screen   |
| width <1-132>  | Set width of the display terminal |

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## terminal (User Executive)

Sets terminal line parameters.

### Syntax

- terminal {length <0-132> | width <1-132>}

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter      | Description                       |
|----------------|-----------------------------------|
| length <0-132> | Set number of lines on a screen   |
| width <1-132>  | Set width of the display terminal |

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## tftp-server

Configures the tftp server.

### Syntax

- tftp-server {<A.B.C.D> | <WORD>}
- no tftp-server
- default tftp-server

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter | Description                 |
|-----------|-----------------------------|
| <A.B.C.D> | IP address of TFTP server   |
| <WORD>    | IPv6 address of TFTP server |

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## timers basic

Sets the RIP global timeout, holddown timer, and update timer.

### Syntax

- timers basic holddown <holddown-timer> timeout <global-timeout> update <update-timer>
- default timers basic [holddown] [timeout][update]

### Default

None

### Command mode

RIP Router Configuration

### Command parameters

| Parameter        | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <global-timeout> | Specifies the global timeout interval parameter. If a RIP router does not receive an update from another RIP router within the configured timeout period, it moves the routes advertised by the nonupdating router to the garbage list. The timeout interval must be greater than the update timer. Range is 15–259200 seconds. Default is 180 seconds.                                                                                                                                                                           |
| <holddown-timer> | Specifies the global holddown timer, which is the length of time (in seconds) that RIP maintains a route in the garbage list after determining that it is unreachable. During this period, RIP continues to advertise the garbage route with a metric of infinity (16). If a valid update for a garbage route is received within the holddown period, the router adds the route back into its routing table. If no update is received, the router deletes the garbage list entry. Range is 0–360 seconds. Default is 120 seconds. |
| <update-timer>   | Specifies a value for the RIP update timer, which is the time interval (in seconds) between regular RIP updates. The update timer value must be less than the timeout interval. Range is 0–360 seconds. Default is 30 seconds.                                                                                                                                                                                                                                                                                                    |
| default          | Returns the parameters to the factory default timer values: holddown timer: 120 seconds; global timeout: 180 seconds; update timer: 30 seconds.                                                                                                                                                                                                                                                                                                                                                                                   |

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## timers basic holddown

Configures the OSPF hold own timer.

### Syntax

- `timers basic holddown <timer_value>`
- `default timers basic holddown <timer_value>`

### Default

None

### Command mode

OSPF Router Configuration

### Command parameters

| Parameter                        | Description                                                |
|----------------------------------|------------------------------------------------------------|
| <code>&lt;timer_value&gt;</code> | Specifies a hold down timer value between 3 and 60 seconds |

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## trace

Traces operations.

### Syntax

- `trace {level <1-7> <0-4>} | {screen <disable|enable>} | shutdown`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                 |
|-----------|-----------------------------|
| <0-4>     | Trace level ID              |
| <1-7>     | Trace module ID             |
| disable   | Disable screen trace        |
| enable    | Enable screen trace         |
| level     | Set the trace module ID     |
| screen    | Enable/Disable screen trace |
| shutdown  | Trace OFF                   |

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## traceroute (Privileged Executive)

Traces route to a remote host.

### Syntax

- traceroute {<Hostname> | {A.B.C.D} | <ipv6address>} [<1-1460>] [-m <1-255>] [-p <0-65535>] [-q <1-255>] [-w <1-255>] [-v]

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description              |
|-----------|--------------------------|
| <1-1460>  | probe packet data length |
| -m        | max ttl value            |
| -p        | base udp port number     |
| -q        | number of probes per ttl |
| -v        | verbose mode             |
| -w        | wait time per probe      |

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## traceroute (User Executive)

Traces route to a remote host.

### Syntax

- traceroute {Hostname | {A.B.C.D} | <WORD>} [<1-1460>] [-m <1-255>] [-p <0-65535>] [-q <1-255>] { -v | {-w <1-255>}}

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter            | Description                    |
|----------------------|--------------------------------|
| <1-1460>             | probe packet data length       |
| <WORD>               | ipv6 address of remote host    |
| Hostname   {A.B.C.D} | remote host name or IP address |
| -m <1-255>           | max ttl value                  |
| -p <1-65535>         | base udp port number           |
| -q <1-255>           | number of probes per ttl       |
| -v                   | verbose mode                   |
| -w <1-255>           | wait time per probe            |

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## trap (RIP Router Configuration)

Enable RIP traps.

### Syntax

- trap
- no trap
- default trap

### Default

None

### Command mode

RIP Router Configuration

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## usb-host-port

Enables USB Host Port.

### Syntax

- `usb-host-port {[unit <1-8>] [enable]}`
- `no usb-host-port {[unit <1-8>] [enable]}`
- `default usb-host-port {[unit <1-8>] [enable]}`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                     | Description          |
|-------------------------------|----------------------|
| <code>enable</code>           | Enable USB Host Port |
| <code>unit &lt;1-8&gt;</code> | Unit number          |



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## username

Sets the RO/RW credentials.

### Syntax

- `username <WORD> <password> {ro | rw}`
- `default username {ro | rw}`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                     | Description                                             |
|-------------------------------|---------------------------------------------------------|
| <code>&lt;password&gt;</code> | Cleartext password (when password security is disabled) |
| <code>&lt;WORD&gt;</code>     | Username                                                |
| <code>ro</code>               | Read-only user name reset to default.                   |
| <code>rw</code>               | Read-write user name reset to default.                  |

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## vlacp (Ethernet Interface Configuration)

Configures VLACP parameters per port.

### Syntax

- `vlacp port <slot/port> [enable] [timeout <long/short>] [fast-periodic-time <integer>] [slow-periodic-time <integer>] [timeout-scale <integer>] [funcmac-addr <mac>] [ethertype {<0x8101-0x81ff>|<33025-33279>}]`
- `no vlapc enable`
- `default vlapc [port <LINE>] [enable][ethertype][fast-periodic-time][funcmac-addr][port <LINE>][slow-periodic-time][timeout][timeout-scale]`

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

| Parameter                                                          | Description                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>&lt;slot/port&gt;</code>                                     | Specifies the slot and port number.                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <code>enable</code>                                                | Enables VLACP.                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <code>ethertype {&lt;0x8101-0x81ff&gt; &lt;33025-33279&gt;}</code> | Sets the VLACP protocol identification for this port. Defines the ethertype value of the VLACP frame. The range is 8101-81FF. Default is 8103.                                                                                                                                                                                                                                                                                                          |
| <code>fast-periodic-time &lt;integer&gt;</code>                    | Specifies the number of milliseconds between periodic VLACPDU transmissions using short timeouts. The range is 400-20000 milliseconds. Default is 500.                                                                                                                                                                                                                                                                                                  |
| <code>funcmac-addr &lt;mac&gt;</code>                              | Specifies the address of the far-end switch/stack configured to be the partner of this switch/stack. If none is configured, any VLACP-enabled switch communicating with the local switch through VLACP PDUs is considered to be the partner switch.                                                                                                                                                                                                     |
| <code>slow-periodic-time &lt;integer&gt;</code>                    | Specifies the number of milliseconds between periodic VLACPDU transmissions using long timeouts. The range is 10000-30000 milliseconds. Default is 30000.                                                                                                                                                                                                                                                                                               |
| <code>timeout {long  short}</code>                                 | Specifies whether the timeout control value for the port is a long or short timeout. long— sets the port timeout value to: (timeoutscale value) × (slow-periodic-time value). short— sets the port's timeout value to: (timeout-scale value) × (fast-periodic-time value). For example, if the timeout is set to short while the timeout-scale value is 5 and the fast-periodic-time value is 500 ms, the timer expires after 2500 ms. Default is long. |
| <code>timeout-scale &lt;integer&gt;</code>                         | Sets a timeout scale for the port, where timeout = (periodic time) × (timeout-scale). The range is 1-10. Default is 3. Note: When you use fast-timers, you do not use a timeout-scale of 1, because this breaks the link continuity from service due to the time taken to transmit VLACPDU and for the partner to provide a corresponding response. Avaya recommends that you set the minimum timeout-                                                  |

scale to 3. Avaya also recommends that you use the minimum setting of 5 for the timeout-scale when using the fast-periodic-timer of 500 ms.

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## vlacp (Global Configuration)

Modifies VLACP configuration.

### Syntax

- vlacp {enable | macaddress <H.H.H>}
- no vlacp {enable | macaddress}
- default vlacp {enable | macaddress}

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter  | Description                                                                                      |
|------------|--------------------------------------------------------------------------------------------------|
| <H.H.H>    | VLACP multicast address (i.e. H.H.H or xx:xx:xx:xx:xx:xx or xx.xx.xx.xx.xx.xx or xx-xx-xx-xx-xx) |
| enable     | Enable VLACP for the system                                                                      |
| macaddress | Set the multicast address used for VLACPDU                                                       |

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## vlan configcontrol

Configures the VLAN control mode.

### Syntax

- `vlan configcontrol {automatic | autopvid | flexible | strict}`
- `default vlan configcontrol`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter              | Description                                                                   |
|------------------------|-------------------------------------------------------------------------------|
| <code>automatic</code> | AutoPVID and automatic change to membership of port-based VLANs               |
| <code>autopvid</code>  | Automatic change to PVID                                                      |
| <code>flexible</code>  | No restricts or automatic changes                                             |
| <code>strict</code>    | AutoPVID and restrictions imposed on adding port to VLAN and changing tagging |

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## vlan create

Creates new VLAN.

### Syntax

- vlan create [<2-4094>] [<LINE>] [name <LINE>] [type] [port] [protocol-decEther2] [protocol-ipEther2] [protocol-ipv6Ether2] [protocol-ipx802.2] [protocol-ipx802.3] [protocol-ipxEther2] [protocol-ipxSnap] [protocol-Netbios] [protocol-RarpEther2] [protocol-sna802.2] [protocol-snaEther2] [protocol-vinesEther2] [protocol-xnsEther2] [protocol-Userdef {ether <4096-65534> | llc <1-65534> | snap <1-65534>}] [spbm-bvlan] [spbm-switchedUni] [<1-8>][remote-span] [voice-vlan]

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter            | Description                                                 |
|----------------------|-------------------------------------------------------------|
| <1-8>                | Spanning Tree Group ID                                      |
| <2-4094>             | Specifies the VLAN ID.                                      |
| <4094-65534>         | Creates the Ethernet II Userdef VLAN with this Protocol ID. |
| <LINE>               | Specifies the VLAN List.                                    |
| ether <4096-65534>   | Create Ethernet II Userdef VLAN                             |
| llc <1-65534>        | Create LLC Userdef VLAN                                     |
| name <LINE>          | Specify name of new VLAN                                    |
| port                 | Creates the port-based VLAN.                                |
| protocol-decEther2   | Creates the decEther2 VLAN.                                 |
| protocol-ipEther2    | Creates the ipEther2 VLAN.                                  |
| protocol-ipv6Ether2  | Creates the ipv6Ether2 VLAN.                                |
| protocol-ipx802.2    | Creates the ipx802.2 VLAN.                                  |
| protocol-ipx802.3    | Creates the ipx802.3 VLAN.                                  |
| protocol-ipxEther2   | Creates the ipxEther2 VLAN.                                 |
| protocol-ipxSnap     | Creates the ipxSnap VLAN.                                   |
| protocol-Netbios     | Creates the Netbios VLAN.                                   |
| protocol-RarpEther2  | Creates the RarpEther2 VLAN.                                |
| protocol-sna802.2    | Creates the sna802.2 VLAN.                                  |
| protocol-snaEther2   | Creates the snaEther2 VLAN.                                 |
| protocol-Userdef     | Creates the Userdef VLAN.                                   |
| protocol-vinesEther2 | Creates the vinesEther2 VLAN.                               |
| protocol-xnsEther2   | Creates the xnsEther2 VLAN.                                 |
| remote-span          | Creates the RSPAN VLAN.                                     |
| snap <1-65534>       | Creates the SNAP Userdef VLAN.                              |

|                  |                                |
|------------------|--------------------------------|
| spbm-bvlan       | Creates the SPBM B-VLAN.       |
| spbm-switchedUni | Creates the SPBM switched UNI. |
| type             | Specify type of new VLAN.      |
| voice-vlan       | Creates the Voice VLAN.        |

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## vlan delete

Deletes a VLAN.

### Syntax

- `vlan delete <LINE>`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter | Description |
|-----------|-------------|
| <LINE>    | VLAN list   |



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## vlan igmp

Modifies IGMP snoop settings.

### Syntax

- `vlan igmp [<1-4094>] [snooping {disable | enable}] [proxy {disable | enable}] [robust-value <2-255>][ query-interval <1-65535>] [v1-members {[add | remove] <LINE>}] [v2-members {[add | remove] <LINE>}]`
- `vlan igmp unknown-mcast-allow-flood <1-4094> {<A.B.C.D> | <H.H.H>|<WORD>}`
- `vlan igmp unknown-mcast-no-flood {disable | enable}`
- `no vlan igmp unknown-mcast-allow-flood <1-4094> {<A.B.C.D> | <H.H.H>|<WORD>}`
- `default vlan igmp {<1-4094> | unknown-mcast-allow-flood <1-4094> {<A.B.C.D> | <H.H.H> | <WORD>} | unknown-mcast-no-flood}`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                   | Description                                                                                                                                 |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <1-4094>                    | VLAN ID                                                                                                                                     |
| <A.B.C.D>                   | Specifies the multicast IPv4 address.                                                                                                       |
| <H.H.H>                     | Specifies the multicast MAC address in one of the following formats: H.H.H or xx:xx:xx:xx:xx:xx or xx.xx.xx.xx.xx.xx or xx-xx-xx-xx-xx-xx). |
| <WORD>                      | Specifies the mulitcast IPv6 address.                                                                                                       |
| add                         | Add port members                                                                                                                            |
| LINE                        | Port list                                                                                                                                   |
| proxy {disable   enable}    | Enable/disable VLAN proxy                                                                                                                   |
| query-interval <1-65535>    | Set the IGMP query interval                                                                                                                 |
| remove                      | Remove port members                                                                                                                         |
| robust-value <2-255>        | Set the IGMP robust value                                                                                                                   |
| snooping {disable   enable} | Enable/disable IGMP snooping                                                                                                                |
| unknown-mcast-allow-flood   | Add address to the list of multicast addresses for which flooding is allowed                                                                |
| unknown-mcast-no-flood      | Enable/disable flooding of packets with an unknown multicast address                                                                        |
| v1-members                  | Specify IGMPv1 static port membership                                                                                                       |

v2-members

## Specify IGMPv2 static port membership

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## vlan i-sid

Creates a C-VLAN.

### Syntax

- `vlan i-sid <1-4094> <0-16777214>`
- `no vlan i-sid <1-4094>`
- `default vlan i-sid <1-4094>`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                       | Description |
|---------------------------------|-------------|
| <code>&lt;1-16777214&gt;</code> | I-SID       |
| <code>&lt;1-4094&gt;</code>     | VLAN ID     |

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## vlan members

Modifies VLAN port membership.

### Syntax

- `vlan members {[add] [<VLANlist>] [remove]} <LINE>`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter  | Description              |
|------------|--------------------------|
| <LINE>     | Port list                |
| <VLANlist> | VLAN list                |
| add        | Add ports to a VLAN      |
| remove     | Remove ports from a VLAN |

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## vlan mgmt

Sets management VLAN.

### Syntax

- `vlan mgmt <1-4094>`
- `default vlan mgmt`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                   | Description |
|-----------------------------|-------------|
| <code>&lt;1-4094&gt;</code> | VLAN ID     |

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## vlan name

Changes the name of a VLAN.

### Syntax

- `vlan name <1-4094> <LINE>`
- `no vlan name <LINE>`
- `default vlan name <LINE>`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter | Description       |
|-----------|-------------------|
| <1-4094>  | VLAN ID           |
| <LINE>    | New name for VLAN |

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## vlan ports

Modifies VLAN port settings.

### Syntax

- `vlan ports <LINE> [tagging {disable | enable | tagAll | tagPvidOnly | untagAll | untagPvidOnly}] [pvid <1-4094>] [filter-untagged-frame {disable | enable}] [filter-unregistered-frames {disable | enable}] [priority <0-7>] [name <LINE>]`
- `no vlan ports name <LINE>`
- `default vlan ports name <LINE>`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                                                                    | Description                                     |
|------------------------------------------------------------------------------|-------------------------------------------------|
| <LINE>                                                                       | Port list                                       |
| disable                                                                      | Disable tagging on this port                    |
| enable                                                                       | Enable tagging on this port                     |
| filter-unregistered-frames {disable   enable}                                | Enable/disable filtering of unregistered frames |
| filter-untagged-frame {disable   enable}                                     | Enable/disable filtering of untagged frames     |
| name <LINE>                                                                  | Set VLAN port name                              |
| priority <0-7>                                                               | Set VLAN port priority                          |
| pvid <1-4094>                                                                | Change PVID                                     |
| tagAll                                                                       | Enable tagging on this port                     |
| tagging {disable   enable   tagAll   tagPvidOnly   untagAll   untagPvidOnly} | Enable/disable tagging                          |
| tagPvidOnly                                                                  | Enable tagging of packets matching the          |
| untagAll                                                                     | Disable tagging on this port                    |
| untagPvidOnly                                                                | Disable tagging of packets matching the Pv      |

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## vlan remote-span

Enables RSPAN VLAN.

### Syntax

- `vlan remote-span <LINE>`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter | Description                 |
|-----------|-----------------------------|
| <LINE>    | List of VLANs to be enabled |



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## vlan voice-vlan

Changes to voice VLAN.

### Syntax

- `vlan voice-vlan <LINE>`
- `no vlan <LINE> {remote-span | voice-vlan}`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter | Description |
|-----------|-------------|
| <LINE>    | The VLAN id |

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## web-server

Modifies WEB server parameters.

### Syntax

- `web-server {disable | enable}`
- `no web-server`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter            | Description         |
|----------------------|---------------------|
| <code>disable</code> | Disable HTTP access |
| <code>enable</code>  | Enable HTTP access  |

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## write

Writes configuration in nvram.

### Syntax

- write memory

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                             |
|-----------|-----------------------------------------|
| memory    | Write configuration to local NV storage |

Avaya Ethernet Routing Switch 4000 Series Release 5.8  
NN47205-105 ACLI Commands Reference for Avaya Ethernet Routing Switch 4000 Series  
Version 02.01 June 26 2014  
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