

Avaya Command Line Interface Reference Guide

Introduction

This guide describes the Avaya Command Line Interface (ACLI) commands for the configuration of various features in Avaya ERS 4000 for the 5.7 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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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>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>any</code>	match any metric type
<code>type1</code>	match type-1 metric type
<code>type2</code>	match type-2 metric type
<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>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

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

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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>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>spbm</code>	Use an SPBM I-SID as uplink-port

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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>port <LINE></code>	Ports to which to apply the ADAC configuration
<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>no-change</code>	Leave the tagging unchanged to its current set value
<code>tag-all</code>	Enable tagging
<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
<code>high-end</code>	High end of the MAC address range to add
<code>low-end</code>	Low end of the MAC address range to add
<code><H.H.H></code>	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)

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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>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
<code>spbm</code>	Use an SPBM I-SID as uplink-port

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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

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<LINE>	Uplink port(s) range
call-server-port <LINE>	Call server port(s) range
spbm	Use an SPBM I-SID as 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>uplink-port <LINE></code>	Set uplink port(s) range
<code>spbm</code>	Use an SPBM I-SID as uplink-port

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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>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>external</code>	Specifies a normal area
<code>noexternal</code>	Specifies a stub area
<code>nssa</code>	Specifies a not-so-stubby area
<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>range {ip_addr/subnet_mask}</code>	

[{nssa-entlink |
summary-link}]
nssa-extlink
summary-link

Specifies range parameters for the OSPF area

Not-so-stubby area link summary (Type 7)
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
<code><area_id></code>	Specifies the transit area ID in dotted decimal notation (A.B.C.D)
<code><nghbr-routerid></code>	Specifies the transit area ID in dotted decimal notation (A.B.C.D)
<code>authentication-key <WORD></code>	Specifies the unique identifier assigned to the authentication key
<code>authentication-type</code>	Specifies one of the following authentication types: none; simple; password; message; digest MD5
<code>dead-interval</code>	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
<code>hello-interval</code>	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
<code>primary-md5-key</code>	Specifies the user-selected key used to encrypt OSPF protocol packets for transmission.
<code>retransmit-interval</code>	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.

transit-delay

Specifies the estimated number of seconds required to transmit a link state 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
enable	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

Configures auto-negotiation advertisement settings.

Syntax

- auto-negotiation-advertisements {[10-full] [10-half] [100-full] [100-half] [1000-full] [asymm-pause-frame] [pause-frame]}
- 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
asymm-pause-frame	Advertise use of asymmetric pause frames half-duplex
port <LINE>	Select port for operation

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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
default	Reboot the stack/switch and use the factory default configurations
partial-default	Reboot the stack/switch and use partial factory default configurations
unit <1-8>	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
<code><1-4094></code>	VLAN ID
<code>counters</code>	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 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
<code>interface Ethernet <WORD></code>	Select interface Port list

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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
<code>unit <1-8></code>	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
<code>password</code>	Modify CLI passwords
<code>timestamp</code>	Enable show timestamp
<code><WORD></code>	password
<code>local</code>	Use local password
<code>none</code>	Disable password
<code>radius</code>	Use RADIUS password authentication
<code>read-only</code>	Modify read-only password
<code>read-write</code>	Modify read-write password
<code>serial</code>	Enable/disable serial port password
<code>tacacs</code>	Use TACACS+ AAA services
<code>telnet</code>	Enable/disable telnet, ssh and web password

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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 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 SFTP.

Syntax

- configure 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>	Specify the address of the SFTP server as IPv4 address or IPv6 address
filename <WORD>	Specify the name of the configuration file on the SFTP server
username <WORD>	Specify the username
password	Specify the password which is mandatory when password authentication is enabled

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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>	Specify filename of 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

Copies configuration in a binary file to a 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>	Specify the address of the SFTP server as IPv4 address or IPv6 address
filename <WORD>	Specify the name of the configuration file on the SFTP server
username <WORD>	Specify the username
password	Specify the password which is mandatory when password authentication is enabled

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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>	Copy 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>}	Specify the address of the SFTP server to be used. <A.B.C.D> specifies the IPv4 address. <WORD> specifies the IPv6 address.
filename <WORD>	Specify the name of the file that is created when the configuration is saved to the TFTP or SFTP server or USB Mass Storage Device.
username <WORD>	Specify the username
password	In case sshc password authentication is enabled, then password parameter is mandatory.
module <applicationModules>	Display 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] [interface] [ip] [ip-sourceguard] [ipfix][ipmc] [ipmgr] [ipv6] [l3] [l3-protocols] [lACP] [logging] [mac-security] [mlt] [nsna] [poe] [port-mirroring] [qos] [rate-limit] [rmon] [rtc] [slpp] [snmp] [ssh] [sshc] [ssl] [stack] [stkmon] [stp] [vlacp] [vlan]
verbose	Copy the entire configuration for the switch or stack (defaults and non-defaults).

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copy running-config tftp

Copies to 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	Copy 802.1ab configuration
A.B.C.D	TFTP server IP address
aur	Copy AAUR configuration
adac	Copy ADAC configuration
address	Specify address of the TFTP server
arp-inspection	Copy ARP Inspection configuration
asset-id	Copy Asset ID configuration
aur	Copy AUR configuration
banner	Copy Custom Banner configuration
brouter	Copy Brouter configuration
cfm	Copy CFM configuration
core	Copy Core configuration
dhcp-relay	Copy DHCP Relay configuration
dhcp-snooping	Copy DHCP Snooping configuration
eap	Copy EAP configuration
energy-saver	Copy Energy Saver configuration
filename	Specify filename in which to store configuration on TFTP server
igmp	Copy IGMP configuration
interface	Copy Interface configuration
ip	Copy IP configuration
ipfix	Copy IPFIX configuration
ipmgr	Copy IP Manager configuration
ip-source-guard	

ipv6	Copy IP Source Guard configuration
l3	Copy IPV6 configuration
l3-protocols	Copy L3 configuration
lACP	Copy L3 Protocols configuration
link-state	Copy LACP configuration
logging	Copy Link State Tracking configuration
mac-security	Copy System Logging configuration
mlt	Copy MAC Security configuration
module	Copy MLT configuration
poE	Copy configuration of an application
port-mirroring	Copy PoE configuration
qoS	Copy Port Mirroring configuration
rate-limit	Copy QoS configuration
rmon	Copy Rate Limiting configuration
rtc	Copy RMON configuration
slamon	Copy RTC configuration
slpp	Copy SLAMon configuration
snmp	Copy SLPP configuration
spbm	Copy SNMP configuration
stack	Copy SPBM configuration
stkmon	Copy Stack configuration
stp	Copy Stack Monitor configuration
verbose	Copy STP configuration
vlACP	Copy entire configuration (defaults and non-defaults)
vlan	Copy VLACP configuration
WORD	Copy VLAN configuration
	TFTP server IPv6 address

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copy running-config usb

Copies to USB.

Syntax

- copy running-config usb [verbose] [module [802.1ab] [aaur] [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> unit <1-8>

Default

None

Command mode

Privileged Executive

Command parameters

Parameter	Description
<file-name>	Config file name on USB server
802.1ab	Copy 802.1ab configuration
aaur	Copy AAUR configuration
adac	Copy ADAC configuration
arp-inspection	Copy ARP Inspection configuration
asset-id	Copy Asset ID configuration
aur	Copy AUR configuration
banner	Copy Custom Banner configuration
brouter	Copy Brouter configuration
cfm	Copy CFM configuration
core	Copy Core configuration
dhcp-relay	Copy DHCP Relay configuration
dhcp-snooping	Copy DHCP Snooping configuration
eap	Copy EAP configuration
energy-saver	Copy Energy Saver configuration
filename	Specify filename in which to store configuration on USB
igmp	Copy IGMP configuration
interface	Copy Interface configuration
ip	Copy IP configuration
ipfix	Copy IPFIX configuration
ipmgr	Copy IP Manager configuration
ip-source-guard	Copy IP Source Guard configuration
ipv6	Copy IPV6 configuration
l3	

l3-protocols	Copy L3 configuration
l3-protocols	Copy L3 Protocols configuration
lACP	Copy LACP configuration
link-state	Copy Link State Tracking configuration
logging	Copy System Logging configuration
mac-security	Copy MAC Security configuration
mlt	Copy MLT configuration
module	Copy configuration of an application
poE	Copy PoE configuration
port-mirroring	Copy Port Mirroring configuration
qoS	Copy QoS configuration
rate-limit	Copy Rate Limiting configuration
rmon	Copy RMON configuration
rtc	Copy RTC configuration
slamon	Copy SLAMon configuration
slpp	Copy SLPP configuration
snmp	Copy SNMP configuration
spbm	Copy SPBM configuration
stack	Copy Stack configuration
stkmon	Copy Stack Monitor configuration
stp	Copy STP configuration
unit <1-8>	Copy to USB of another unit in a stack
verbose	Copy entire configuration (defaults and non-defaults)
vLACP	Copy VLACP configuration
vLAN	Copy VLAN configuration

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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>}] [filename <WORD>] [username <WORD>] [password]}

Default

None

Command mode

Privileged Executive

Command parameters

Parameter	Description
address {<A.B.C.D> <ipv6addr>}	Specify the address of the SFTP server as IPv4 address or IPv6 address
filename <WORD>	Specify the name of the file to be retrieved
username <WORD>	Specify the username
password	Specify the password

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copy sftp license

Copies license from SFTP server.

Syntax

- `copy sftp license {[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>}	Specify the address of the SFTP server as IPv4 address or IPv6 address
filename <WORD>	Specify the name of the file to be retrieved
username <WORD>	Specify the username
password	Specify the password

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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 copy 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	Copy configuration from usb
filename	Specify filename from which to copy configuration from USB
license	Copy 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
<code><1-600></code>	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.
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
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.

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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
<code><metric_value></code>	Specifies a metric value between 0 and 15

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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
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
password	Specify the password

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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
<code>auto</code>	Set duplex to autonegotiation
<code>full</code>	Set duplex to full-duplex mode
<code>half</code>	Set duplex to half-duplex mode
<code>port</code>	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
port <LINE>	Specifies the ports to configure for EAPOL
max-request <1-10>	Enter the number of times to retry sending packets to supplicant
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
enable	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
radius-non-eap-enable	Enable RADIUS authentication of non-eap clients
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>  
use-most-recent-radius-vlan  
use-radius-assigned-vlan
```

Port number on which to apply EAPOL settings
Allow the use of most recent RADIUS 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 fail-open-vlan continuity-mode
enable	Enable fail-open-vlan
vid <1-4094>	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
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-packet-mode	Select type of packet used for initial eap request for ids
eap-protocol-enable	Enable EAP protocol on port
non-eap-phone-enable	Allow non-eap phone clients
non-eap-reauthentication-enable	Enable re-authentication for non-EAP clients
non-eap-use-radius-assigned-vlan	Allow the use of VLAN IDs assigned by RADIUS for non-EAP clients
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 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
enable	Enable non-EAPOL user-based policies
filter-on-mac enable	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
<code><IPv6-address></code>	IPv6 address
<code><WORD></code>	EDM help file path
<code><A.B.C.D></code>	IPv4 address of the TFTP server
<code>address</code>	TFTP server address
<code>tftp</code>	Tftp-server
<code>unit</code>	Unit
<code>usb</code>	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 (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 (OSPF Router Configuration)

Exits from router configure mode.

Syntax

- end

Default

None

Command mode

OSPF 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
<code>activate</code>	Manually activate energy saver
<code>deactivate</code>	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
activate	Activate event
deactivate	Deactivate event
friday	Configure schedule entry for Friday
<hh:mm>	Set the hour and minutes
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 (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 (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 (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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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
application	Show commands available in Application Configuration Mode
commands	Show commands available
config	Show commands available in Global Configuration Mode
current	Show commands available in current configuration mode
exec	Show commands available in executive mode
ifconfig	Show commands available in Interface Configuration Mode
interface	Show commands available in Interface Configuration Modes
mode	Show commands available on specific mode
modes	Show available modes
privExec	Show commands available in Privileged Executive Mode
router	Show 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	Show commands available in Application Configuration Mode
commands	Show commands available
config	Show commands available in Global Configuration Mode
current	Show commands available in current configuration mode
exec	Show commands available in executive mode
ifconfig	Show commands available in Interface Configuration Mode
interface	Show commands available in Interface Configuration Modes
mode	Show commands available on specific mode
modes	Show available modes
ospf	Show commands available in OSPF Router Configuration Mode
privExec	Show commands available in Privileged Executive Mode
rip	Show commands available in RIP Router Configuration Mode
router	Show commands available in Router Configuration Modes
vrrp	Show commands available in VRRP Router Configuration Mode

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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
default	Sets the last member query interval to the default value of 10.
<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.

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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
default	Sets the query interval to the default value of 125 seconds
<1-65535>	Specifies the query interval value. Values range from 1 to 65535 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>default</code>	Sets the maximum query response time to the default value of 100.
<code><0-255></code>	Specifies the maximum query response time value in 1/10 of a second. Values range from 0 to 255.

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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> | vlan <1-4094>}`

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<LINE>	Port list
Ethernet	Ethernet IEEE 802.3
vlan <1-4094>	Layer 3 IP VLAN

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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 (VLAN Interface Configuration)

Assigns an IP addr 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
<1-256>	MAC offset, 1 for management vlan only
<subnet_mask>	Subnet mask
{A.B.C.D}	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
<code>port <LINE></code>	Specify list of ports
<code>trusted</code>	ARP traffic is not subject to dynamic ARP inspection
<code>untrusted</code>	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 <1-4094>	Configure ARP inspection VLANs

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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
<10-4294967295>	Lease time in seconds
client	Configure DHCP client settings
days <1-49710>	Lease time in days
hours <1-1193046>	Lease time in hours
lease	Configure DHCP lease time
minutes <1-71582788>	Lease time in minutes
weeks <1-7101>	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
bootp	set DHCP server mode to BOOTP only
bootp-dhcp	set DHCP server mode to both BOOTP and DHCP
dhcp	set DHCP server mode to DHCP only
disable	disable this forwarder path
enable	enable this forwarder path
fwd-path <agent-ip> <dhcp-ip>	Configure DHCP relay forward path
max-frame <576-1536>	Set the maximum length for which option82 is added to DHCP packets for relay
mode	set DHCP mode supported by this forwarder path
option82	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
<code>broadcast</code>	Enables the broadcast of DHCP reply packets to the DHCP clients on this VLAN interface
<code>min-sec <minsec></code>	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.
<code>mode {bootp dhcp bootp_dhcp}</code>	Specifies the type of DHCP packets this VLAN supports: bootp - Supports BootP only; dhcp - Supports DHCP only; bootp_dhcp - Supports both BootP and DHCP.
<code>option82</code>	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>	VLAN ID
<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)
expiry <1-4294967295>	Entry expiry time
ip {A.B.C.D}	IP address
port <LINE>	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
A.B.C.D	IPv4 address of TFTP server
enable	Enable 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> | portfwdlist <1-128> <1-65535> <A.B.C.D> <name>}`
- `no ip forward-protocol udp {<1-65535> | portfwdlist <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
portfwdlist	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>] [portfwdlist <forward_list>] [broadcastmask <bcast_mask>] [maxttl <max_ttl>]`
- `no ip forward-protocol udp [vlan <vid>] [portfwdlist <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>] | [ssm [dynamic-learning] group-range <A.B.C.D>/0-32] | [ssm-map {<Multicast-group-address> <SSM-map/channel-ip-source>| all} enable <A.B.C.D>] }`
- `no ip igmp { [profile <1-65535>] | [ssm dynamic-learning] | [ssm-map {<Multicast-group-address> | all} enable] }`
- `default ip igmp profile <1-65535>`
- `default ip igmp ssm {dynamic-learning | group-range}`
- `default ip igmp ssm-map {<A.B.C.D> | all} enable}`

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
enable	Enable IPFIX for one or more ports
port <LINE>	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 authentication-key (Ethernet Interface Configuration)

Configures an OSPF interface authentication password.

Syntax

- ip ospf authentication-key <password>
- no ip ospf authentication-key
- default ip ospf authentication-key

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<password>	Specifies the password to be configured. This password can be up to 8 characters in length.

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ip ospf authentication-key (VLAN Interface Configuration)

Configures an interface authentication password.

Syntax

- `ip ospf authentication-key <password>`
- `no ip ospf authentication-key`
- `default ip ospf authentication-key`

Default

None

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
<code><password></code>	Specifies the password to be configured

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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 area (Ethernet Interface Configuration)

Assigns an interface to an OSPF area.

Syntax

- ip ospf area <area-id>
- no ip ospf area
- default ip ospf area

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<area-id>	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.

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ip ospf area (VLAN Interface Configuration)

Assigns an interface to an OSPF area.

Syntax

- ip ospf area <area-id>
- no ip ospf area
- default ip ospf area

Default

None

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
<area-id>	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.

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ip ospf authentication-type (Ethernet Interface Configuration)

Configures the interface authentication type.

Syntax

- `ip ospf authentication-type [message-digest | simple | none]`
- `no ip ospf authentication-type`
- `default ip ospf authentication-type`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<code>message-digest</code>	MD5 digest authentication type.
<code>none</code>	No authentication type is applied to the interface.
<code>simple</code>	Simple password authentication type.

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ip ospf authentication-type (VLAN Interface Configuration)

Selects interface authentication type.

Syntax

- ip ospf authentication-type {message-digest | simple | none}
- no ip ospf authentication-type
- default ip ospf authentication-type

Default

None

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
{message-digest simple none}	Specifies the authentication type: message-digest—MD5 digest authentication type; simple—simple password authentication type; none—no authentication type is applied to the interface.

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ip ospf (Ethernet Interface Configuration)

Configures OSPF for an interface.

Syntax

- `ip ospf [port LINE] {[advertise-when-down enable] [cost <interface_cost>] [dead-interval <interval>] [hello-interval <interval>] [mtu-ignore enable] [network <broadcast | passive>] [primary-md5-key <1-255>] [priority <0-255>] [retransmit-interval <1-3600>]} [enable]`
- `no ip ospf mtu-ignore enable`
- `default ip ospf mtu-ignore enable`

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>cost <interface_cost></code>	Specifies the cost assigned to the interface. This is an integer value between 1 and 65535.
<code>dead-interval <interval></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 0 and 2147483647.
<code>enable</code>	Enable OSPF on an interface
<code>hello-interval <interval></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.
<code>network {broadcast passive}</code>	Defines the type of OSPF interface this interface is.
<code>port <LINE></code>	Select port(s) for operation
<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>retransmit-interval <1-3600></code>	Defines the number of seconds between link state advertisement retransmissions for adjacencies belonging to this interface. This is an integer

transit-delay
<1-3600>

value between 1 and 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 message-digest-key (Ethernet Interface Configuration)

Defines an MD5 key.

Syntax

- ip ospf message-digest-key <key_number> md5 <key_value>
- 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
<key_number>	Specifies an index value for the MD5 key being configured. This is an integer value between 1 and 255.
<key_value>	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)

Configures MD5 key for interface.

Syntax

- `ip ospf message-digest-key <key_number> md5 <key_value>`

Default

None

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
<key_number>	Specifies an index value for the MD5 key being configured. This is an integer value between 1 and 255.
<key_value>	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>] {[advertise-when-down enable] [cost <interface_cost>] [dead-interval <interval>] [hello-interval <interval>] [mtu-ignore enable] [network <broadcast | passive>] [primary-md5-key <1-255>] [priority <0-255>] [retransmit-interval <1-3600>] [transit-delay <1-3600>]} [enable]

Default

None

Command mode

VLAN Interface Configuration

Command parameters

Parameter	Description
[transit-delay <1-3600>] [enable]	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.
cost <interface_cost>	Specifies the cost assigned to the interface.
dead-interval <interval>	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.
hello-interval <interval>	Specifies the amount of time between transmission of hello packets from this interface.
[retransmit-interval <1-3600>]	Defines the number of seconds between link state advertisement retransmissions for adjacencies belonging to this interface.
advertise-when-down enable	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.
mtu-ignore enable	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.
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.
vlan <1-4094>	Select VLAN ID

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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
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-	Enables the interface to accept default routes learned through RIP updates. The

listen	default setting is disabled.
enable	
default-supply	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	
enable	Enables RIP on the interface.
holddown	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> <global>}	<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	Add in-policy on this interface.
<WORD>	
listen	Enables this interface to listen for RIP advertisements. The default value is enabled.
enable	
out-policy	Add out-policy on this interface.
<WORD>	
	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.
poison	
enable	
port	Select ports.
<LINE>	
proxy-announce	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.
enable	
receive	
version	Specifies the RIP version received on this interface. Default is rip1orrip2.
{rip1 rip1orrip2 rip 2}	
send	
version	Specifies the RIP version sent on an interface. Default is rip1compatible
{notsend rip1 rip1comp rip 2}	
supply	Enables RIP route advertisements on this interface. The default value is enabled.
enable	
	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.
timeout	
<timeout> <global>	
triggered	Enables automatic triggered updates on this RIP interface. Default is disabled.
enable	

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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 | 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 [domain <WORD>]] [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 [domain <WORD>]] [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

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-	Enables the interface to accept default routes learned through RIP updates. The

listen	default setting is disabled.
enable	
default-supply	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	
enable	Enables RIP on the interface
holddown	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>	<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).
<global>}	
in-policy	Add in-policy on this interface
<WORD>	
listen	Enables this interface to listen for RIP advertisements. The default value is enabled.
enable	
out-policy	Add out-policy on this interface
<WORD>	
	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.
poison	
enable	
port	Select ports
<LINE>	
proxy-announce	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.
enable	
receive	
version	Specifies the RIP version received on this interface. Default is rip1orrip2.
{rip1	
rip1orrip2	
rip 2}	
send	
version	Specifies the RIP version sent on an interface. Default is rip1compatible
{notsend	
rip1	
rip1comp	
rip 2}	
supply	Enables RIP route advertisements on this interface. The default value is enabled.
enable	
	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.
timeout	
<timeout>	
<global>	
triggered	Enables automatic triggered updates on this RIP interface. Default is disabled.
enable	

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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 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 interface

Creates and configure vlan IPv6 interface.

Syntax

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

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>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>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.

retransmit-
timer <ms>

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 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
<WORD>	IPv6 address, 45 length
mac <H.H.H>	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)
port <WORD>	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 UNI.

Syntax

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

Default

None

Command mode

Global Configuration

Command parameters

Parameter	Description
<code><1-16777214></code>	I-SID
<code><LINE></code>	Port list
<code>port</code>	Configure switched UNI by assigning port and VLAN to I-SID
<code>vlan <1-4094></code>	Configure 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>	Enable 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
<code><1-600></code>	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> <code><1-100></code>	Configures the SPBM instance l1-metric on the IS-IS interface located on the specified port or MLT. The default value is 10. SPBM instance
<code>interface-type</code> <code>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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I2ping (Privileged Executive)

Triggers an CFM LBM message.

Syntax

- l2ping 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
burst-count <1-200>	Number of packets
data-tlv-size <0-400>	Data TLV size
frame-size <64-1500>	Packet size
mac <H.H.H>	Destination Mac Address
priority <0-7>	Priority
routernodename <WORD>	Destination Node Name
testfill-pattern {allZero allZeroCrc pseudoRandomBitSequence pseudoRandomBitSequenceCrc}	Fill pattern
time-out <1-10>	Timeout in seconds
vlan <1-4094>	Destination vlan

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I2ping (User Executive)

Triggers an CFM LBM message.

Syntax

- l2ping 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>] [testfill {allZero | allZeroCrc | pseudoRandomBitSequence | pseudoRandomBitSequenceCrc}] time-out <1-10>

Default

None

Command mode

User Executive

Command parameters

Parameter	Description
<H.H.H>	Mac Address
<WORD>	Destination Node Name
burst-count <1-200>	Number of packets
data-tlv-size <0-400>	Data TLV size
frame-size <64-1500>	Packet size
mac	Destination Mac Address
priority <0-7>	Priority
routernodename	Destination Node Name
testfill-pattern	Fill pattern
time-out <1-10>	Timeout in seconds
vlan <1-4094>	Destination vlan

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l2traceroute (Privileged Executive)

Triggers an CFM LTM message.

Syntax

- l2traceroute 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>	Destination Mac Address
priority <0-7>	Priority
routernodename <WORD>	Destination Node Name
ttl <1-255>	Time To Live
vlan <1-4094>	Destination vlan

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l2traceroute (User Executive)

Triggers an CFM LTM message.

Syntax

- l2traceroute 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
<H.H.H>	Mac Address
<WORD>	Node Name
mac	Destination Mac Address
priority <0-7>	Priority
routernodename	Destination Node Name
ttl <1-255>	Time To Live
vlan <1-4094>	Destination vlan

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l2tracetree (Privileged Executive)

Triggers an CFM multicast LTM message.

Syntax

- l2tracetree 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
i-sid <1-16777215>	Instance identifier (I-SID)
mac <H.H.H>	Destination Mac Address
priority <0-7>	Priority
routernodename <WORD>	Destination Node Name
ttl <1-255>	Time To Live
vlan <1-4094>	Destination vlan

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l2tracetree (User Executive)

Triggers an CFM multicast LTM message.

Syntax

- l2tracetree 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
<H.H.H>	Mac Address
<WORD>	Node Name
i-sid <1-16777215>	Instance identifier (I-SID)
mac	Destination Mac Address
priority <0-7>	Priority
routernodename	Destination Node Name
ttl <1-255>	Time To Live
vlan <1-4094>	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 (Ethernet Interface Configuration)

Sets the LLDP port parameters.

Syntax

- `lldp port <portlist> [status {rxOnly | txAndRx | txOnly}] [config-notification]`
- `no lldp port <portlist> [status] [config-notification]`
- `default lldp port <portlist> [status] [config-notification]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<code>config notification</code>	Enable notification when new neighbor information is stored or when existing information is removed. The default value is enabled.
<code>port <portlist></code>	Specify the ports affected by the command
<code>status {rxOnly txAndRx txOnly}</code>	Set the LLDP transmit and receive status on the ports. rxonly: enables LLDP receive only. txAndRx: enables LLDP transmit and receive. For LLDP support for PoE+, transmission and reception must be enabled. txOnly: enables LLDP transmit only

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lldp (Global Configuration)

Configures 802.1ab settings.

Syntax

- `lldp [tx-interval <5-32768>] [tx-hold-multiplier <2-10>] [tx-delay <1-8192>] [reinit-delay <1-10>] [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]}}`
- `default lldp [tx-interval] [tx-hold-multiplier] [tx-delay] [reinit-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>]}}`

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 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]}`
- `no lldp location-identification 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]}`
- `default lldp location-identification 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]}`
- `lldp location-identification coordinate-base {[latitude <LINE> {NORTH | SOUTH }} [longitude <LINE> {EAST|WEST}} [altitude <LINE> {[floors][meters]}]}`
- `lldp location-identification ecs-elin <LINE 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</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)

city-district WORD	City division, city district, ward
country-code <WORD>	Country code
county WORD	County, parish, gun (JP), district(IN)
datum	Reference datum
floor WORD	Floor
house-number WORD	House number
house-number-suffix WORD	House number suffix
landmark WORD	Landmark or vanity address
latitude LINE	Latitude
leading-street-direction WORD	Leading street direction
longitude LINE	Longitude
name WORD	Residence and office occupant
p.o.box WORD	Post office box
place-type WORD	Office
postal/zip-code WORD	Postal/Zip code
postal-community-name WORD	Postal community name
room-number WORD	Room number
state WORD	National subdivisions: (state, canton, region)
street WORD	Street
street-suffix WORD	Street suffix
trailing-street-suffix WORD	Trailing street suffix

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Ildp med-network-policies

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 {voice|voice-signaling} [port <portList>]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
dscp <0-63>	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.
port <portlist>	Specifies the port or ports on which to configure LLDP MED policies
priority <0-7>	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
tagging {tagged untaged}	Specifies the type of VLAN tagging to apply on the selected switch port or ports. tagged—uses a tagged VLAN. untaged—uses an untagged VLAN or does not support port-based VLANs. If you select untaged, the system ignores the VLAN ID and priority values, and recognizes only the DSCP value.
vlan-id <0-4094>	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.
voice	Specifies voice network policy. The default value is 46.
voice-signaling	Specifies voice signalling network policy

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lldp tx-tlv

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

Syntax

- `lldp tx-tlv [port <portlist>] local-mgmt-addr [port-desc] [sys-cap] [sys-desc][sys-name]`
- `no lldp tx-tlv port <portlist> local-mgmt-addr port-desc sys-cap sys desc sys-name`
- `default lldp tx-tlv port <portlist> local-mgmt-addr port-desc sys-cap sys-desc sys-name`
- `lldp tx-tlv vendor-specific avaya {[call-server] [dot1q-framing][file-server][poe-conservation]}`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<code>local-mgmt-addr</code>	The local management address TLV. This TLV is enabled by default.
<code>port <portlist></code>	Specifies a port or list of ports
<code>port-desc</code>	The port description TLV This TLV is enabled by default. This TLV is enabled by default.
<code>sys-cap</code>	The system capabilities TLV
<code>sys-desc</code>	The system description TLV. This TLV is enabled by default.
<code>sys-name</code>	The system name TLV. This TLV is enabled by default.

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lldp tx-tlv dot1

Sets the optional IEEE 802.1 organizationally-specific TLVs to be included in the transmitted LLDPDUs.

Syntax

- `lldp tx-tlv [port <portlist>] dot1 [port-protocol-vlan-id <vlanlist>] [port-vlan-id] [protocol-identity < [EAP] [LLDP] [STP]>] [vlan-name <vlanlist>]`
- `no lldp tx-tlv [port <portlist>] dot1 [port-vlan-id] [vlan-name] [port-protocol-vlan-id] [protocol-identity [EAP] [LLDP] [STP]]`
- `default lldp tx-tlv port <portlist> dot1 [port-protocol-vlan-id] [port-vlan-id] [protocol-identity [EAP] [LLDP] [STP]] [vlan-name]`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<code>port <portlist></code>	The ports affected by the command
<code>port-protocol-vlan-id <vlanlist></code>	The port and protocol VLAN ID TLV
<code>port-vlan-id</code>	The port VLAN ID TLV
<code>protocol-identity {[EAP] [LLDP] [STP]}</code>	Protocol Identity TLV
<code>vlan-name <vlanlist></code>	The VLAN name TLV

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lldp tx-tlv dot3

Sets the optional IEEE 802.3 organizationally-specific TLVs to be included in the transmitted LLDPDUs.

Syntax

- `lldp tx-tlv [port <portlist>] dot3 [link-aggregation] [mac-phy-config-status] [maximum-frame-size] [mdi-power-support]`
- `no lldp tx-tlv port <portlist> dot3 link-aggregation mac-phy-config status maximum-frame-size mdi-power-support`
- `default lldp tx-tlv port <portlist> dot3 link-aggregation mac-phy config-status maximum-frame-size mdi-power-support`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<code>link-aggregation</code>	The link aggregation TLV
<code>mac-phy-config-status</code>	The MAC/Phy configuration or status TLV
<code>maximum-frame-size</code>	Maximum Frame Size TLV
<code>mdi-power-support</code>	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
<code>port <portlist></code>	The ports affected by the command

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lldp tx-tlv med

Sets the optional organizationally specific TLVs for use by MED devices to be included in the transmitted LLDPDUs.

Syntax

- `lldp tx-tlv [port <portlist>] med [extendedPSE] [inventory] [location] [med-capabilities] [network-policy]`
- `no lldp tx-tlv port <portlist> med extendedPSE inventory location med-capabilities network-policy`
- `default lldp tx-tlv port <portlist> med extendedPSE inventory location med-capabilities network-policy`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<code>extendedPSE</code>	Extended PSE TLV, the transmission of this TLV is enabled by default only on POE port switches
<code>inventory</code>	Inventory TLVs This TLV is enabled by default
<code>location</code>	Location Identification TLV This TLV is enabled by default
<code>med-capabilities</code>	MED Capabilities TLV (MED TLVs are transmitted only if MED Capabilities TLVs are transmitted). This TLV is enabled by default.
<code>network-policy</code>	Network Policy TLV This TLV is enabled by default
<code>port <portlist></code>	specifies the ports affected by the command

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lldp tx-tlv vendor-specific avaya (Ethernet Interface Configuration)

Vendor-specific TLVs

Syntax

- `lldp tx-tlv [port <portList>] vendor-specific avaya {[call-server] [dot1q-framing] [file-server] [poe-conservation]}`
- `no lldp tx-tlv [port <portList>] vendor-specific avaya {[call-server] [dot1q-framing] [file-server] [poe-conservation]}`
- `default lldp tx-tlv [port <portList>] vendor-specific avaya {[call-server] [dot1q-framing] [file-server] [poe-conservation]}`

Default

None

Command mode

Ethernet Interface Configuration

Command parameters

Parameter	Description
<portList>	Specifies a port or list of ports
<portList>	Specifies a port or list of ports
call-server	Enables the call server TLV transmit flag
dot1q-framing	Enables the Layer 2 priority tagging TLV transmit flag
file-server	Enables the file server TLV transmit flag
poe-conservation	Enables the PoE conservation request TLV transmit flag

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lldp vendor-specific avaya (Ethernet Interface Configuration)

Configures 802.1ab vendor-specific settings.

Syntax

- `lldp [port <portList>] vendor-specific avaya { dot1q-framing {auto | untagged | tagged} | poe-conservation-request-level <0-255>}`
- `default lldp port <portList> vendor-specific avaya 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]}} [volatile] {[latch] [overwrite]}
- 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
secondary-address {A.B.C.D} |
<WORD>
serious
volatile

Configure remote logging parameters
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>port <portlist></code>	Specifies a port or list of ports
<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

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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> I 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>

snmp-lock

sticky

sticky-address <H.H.H>

Assign a security list to a MAC address

Enable/disable SNMP lock on MAC address  
security parameters

Set mac-security sticky mode

Adds a sticky address to the mac-security mac-  
address table

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## manual-area

Configures an IS-IS manual area.

### Syntax

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

### Default

None

### Command mode

ISIS Router Configuration

### Command parameters

| Parameter             | Description                                                                                                                                                                                      |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <xx.xxxx.xxxx...xxxx> | Specifies the IS-IS manual-area (1–13 bytes in the format <xx.xxxx.xxxx...xxxx>. 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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## 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                     |
|----------------------------|---------------------------------|
| <code>&lt;1-900&gt;</code> | 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 day <1-2730> | password-history <3-10> | security}`
- `no password security`
- `default password password-history`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                                  | Description                                                              |
|--------------------------------------------|--------------------------------------------------------------------------|
| <code>aging-time day &lt;1-2730&gt;</code> | Password validity period                                                 |
| <code>password-history &lt;3-10&gt;</code> | Configure number of passwords in history if password security is enabled |
| <code>security</code>                      | Enable password security restrictions                                    |

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## ping (Privileged Executive)

Sends echo messages.

### Syntax

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

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter               | Description                        |
|-------------------------|------------------------------------|
| <Hostname> or {A.B.C.D} | The hostname or ip address to ping |
| <WORD>                  | Ipv6 address to ping               |
| continuous              | Ping in continuous mode            |
| count <1-9999>          | Number of packets                  |
| datasize <64-4096>      | Packet size                        |
| debug                   | Enable ping debug                  |
| interval<1-60>          | Interval to retransmit in seconds  |
| source{A.B.C.D}         | Source address for ping            |
| -t <1-120>              | Timeout in seconds                 |
| timeout <1-120>         | Timeout in seconds                 |
| ttl <0-255>             | Time to live for packet            |

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## ping (User Executive)

Sends echo messages.

### Syntax

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

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter                        | Description                                                |
|----------------------------------|------------------------------------------------------------|
| <Host-name>   {A.B.C.D}   <WORD> | The hostname or ip address to ping<br>Ipv6 address to ping |
| continuous                       | Ping in continuous mode                                    |
| count <1-9999>                   | Number of packets                                          |
| datasize <64-4096>               | Packet size                                                |
| debug                            | Enable ping debug                                          |
| interval <1-60>                  | Interval to retransmit in seconds                          |
| source {A.B.C.D}                 | Source address for ping                                    |
| -t <1-120>                       | Timeout in seconds                                         |
| timeout <1-120>                  | Timeout in seconds                                         |
| ttl <0-255>                      | Time to live 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            | Set mirroring MAC address B (i.e. H.H.H or xx:xx:xx:xx:xx:xx or                                                                            |

|                         |                                                                                                                         |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <H.H.H>                 | 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-<br>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<br>received on port Y and transmitted on port X |
| Xtx                     | Mirror packets transmitted on port X                                                                                    |

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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                                                                                                                                                                                                                                                                                                                                               |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>&lt;1-120&gt;</code> | 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-1p {<0-7> | use-tos-prec | use-egress}] [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                       |
|----------------------------------------------------------------------|-----------------------------------|
| <code>&lt;10-55000&gt;</code>                                        | Specify the Action ID             |
| <code>action-ext &lt;1-55000&gt;</code>                              | Specify the action extension id   |
| <code>action-ext-name &lt;WORD&gt;</code>                            | Specify the action extension name |
| <code>drop-action &lt;enable   disable   deferred-pass&gt;</code>    | Specify the drop action           |
| <code>name &lt;WORD&gt;</code>                                       | Specify the action label          |
| <code>session-id &lt;1-4294967295&gt;</code>                         | Specify the session ID            |
| <code>set-drop-prec {&lt;0-7&gt;   use-tos-prec   use-egress}</code> | Specify the set drop precedence   |
| <code>update-1p {&lt;0-7&gt;   use-tos-prec   use-egress}</code>     | Specify the update user priority  |
| <code>update-dscp &lt;0-63&gt;</code>                                | Specify 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                                                                                |
|-----------|--------------------------------------------------------------------------------------------|
| disable   | Auto QOS application traffic processing disabled on all ports                              |
| mixed     | Auto QOS application traffic processing enabled on all ports with egress DSCP remapping    |
| pure      | 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 –<br>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                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------------------|
| <code>aggregate</code>  | Allocate a single statistics counter to track data for all classifier of the QoS policy being created     |
| <code>disable</code>    | No statistics tracking for QoS policy being created                                                       |
| <code>individual</code> | 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                                                                                                                         |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| <code>disable</code>             | QoS Agent ignore user information forwarded by other applications (i.e. EAP)                                                        |
| <code>high-security-local</code> | QoS Agent internal database to be searched for user-specific classification data forwarded by other applications with high security |
| <code>low-security-local</code>  | 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                                          |
|----------------------------------------------|------------------------------------------------------|
| <code>&lt;1-55000&gt;</code>                 | Specify the classifier ID                            |
| <code>element-id &lt;1-55000&gt;</code>      | Specify the IP classifier element ID                 |
| <code>element-type {ip   l2   system}</code> | Specify the classifier element type (IP, L2, System) |
| <code>name &lt;WORD&gt;</code>               | Specify the classifier 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                        |

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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                                                                           |
|-------------------------------|---------------------------------------------------------------------------------------|
| <1-55000>                     | Specify the classifier block ID                                                       |
| block-number <1-55000>        | Specify the classifier block number                                                   |
| eval-order                    | Specify the block entry evaluation order                                              |
| in-profile-action <1-55000>   | Specify the in-profile action ID to be linked to the classifier entry of this block   |
| in-profile-action-name <WORD> | Specify the in-profile action name to be linked to the classifier entry of this block |
| meter <1-55000>               | Specify the meter ID to be linked to the classifier entry of this block               |
| meter-name <WORD>             | Specify the meter name to be linked to the classifier entry of this block             |
| name <WORD>                   | Specify the classifier block name                                                     |
| session-id <1-4294967295>     | Specify the session ID                                                                |
| set-id <1-55000>              | Specify the classifier set ID to be linked to the block                               |
| set-name <WORD>               | Specify the classifier set name to be linked to block                                 |

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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>] [1p <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                                                                       |
|----------------------------------|-----------------------------------------------------------------------------------|
| <code>1p &lt;0-7&gt;</code>      | Specify the 802.1p priority associated with the target DSCP                       |
| <code>dp high-drop</code>        | Higher probability of being dropped when congestion is encountered                |
| <code>dp low-drop</code>         | Lower probability of being dropped when congestion is encountered                 |
| <code>ds &lt;0-63&gt;</code>     | Specify the DSCP value used as lookup key for 802.1p priority and drop precedence |
| <code>ds-new &lt;0-63&gt;</code> | Specify the new DSCP associated with the target DSCP                              |
| <code>name &lt;WORD&gt;</code>   | 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                                                                                      |
|----------------------------|--------------------------------------------------------------------------------------------------|
| <1-55000>                  | Specify the Interface Action ID                                                                  |
| egress-non-ucast<br><LINE> | Specify redirection of broadcast, multicast, and unknown unicast (floods) to specified interface |
| egress-ucast <LIST>        | Specify redirection of known unicast packets to specified interface                              |
| name <WORD>                | Specify Interface Action label                                                                   |
| session-id <1-4294967295>  | 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>][1p <0-7> ds <0-63>]}`
- `default qos ingressmap`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                      | Description                                                                        |
|--------------------------------|------------------------------------------------------------------------------------|
| <code>1p &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 <0x0-0xffff>] [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-1p <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                                                                   |
|--------------------------------------|-------------------------------------------------------------------------------|
| 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 {enable   disable}       | 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-port-max <0-65535>               | Specify the L4 destination port maximum value filter criteria                 |
| dst-port-min <0-65535>               | Specify the L4 destination port minimum value classifier criteria             |
| flow-id 0x0-0xffff                   | Specify the IPv6 flow identifier classifier criteria                          |
| name <WORD>                          | Specify the label used to reference the access-list element                   |
| next_header <0-255>                  | Specify the IPv6 next header classifier criteria                              |
| protocol <0-255>                     | Specify the IPv4 protocol classifier criteria                                 |
| set-drop-prec {high drop   low drop} | Specify the set drop precedence                                               |
| src-ip {A.B.C.D}/<0-32>              | Specify the source IP classifier criteria                                     |
| src-port-max <0-65535>               | Specify the L4 source port maximum value filter criteria                      |
| src-port-min <0-65535>               | Specify the L4 source port minimum value classifier criteria                  |
| update-1p <0 - 7>                    | Specify the update user priority                                              |
| update-dscp <0 - 63>                 | 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                                                       |
|-------------------------------|-------------------------------------------------------------------|
| addr-type <ipv4   ipv6>       | Specify the address type (IPv4, IPv6) classifier criteria         |
| ds-field <0-63>               | Specify the DSCP classifier criteria                              |
| dst-ip {A.B.C.D}/<0-32>       | Specify the destination IP classifier criteria                    |
| dst-port-max <0-65535>        | Specify the L4 destination port maximum value filter criteria     |
| dst-port-min <0-65535>        | Specify the L4 destination port minimum value classifier criteria |
| flow-id <0x00-0xffff>         | Specify the IPv6 flow identifier classifier criteria              |
| ip-flag <LINE>                | Specify the IP fragment flag criteria                             |
| ipv4-option <no-opt with-opt> | Specify the IPv4 option criteria                                  |
| name <WORD>                   | Specify name of ip-element                                        |
| next-header <0-255>           | Specify the IPv6 next header classifier criteria                  |
| protocol <0-255>              | Specify the IPv4 protocol classifier criteria                     |
| session-id <1-4294967295>     | Specify the session ID                                            |
| src-ip {A.B.C.D}/<0-32>       | Specify the source IP classifier criteria                         |
| src-port-max <0-65535>        | Specify the L4 source port maximum value filter criteria          |
| src-port-min <0-65535>        | Specify the L4 source port minimum value classifier criteria      |
| tcp-control <a f p r s u>     | 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-1p <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-1p <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                                                                                                     |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <code>&lt;1-55000&gt;</code>                    | Specify the L2 classifier element ID                                                                            |
| <code>dst-mac &lt;H.H.H&gt;</code>              | Specify the destination MAC classifier criteria                                                                 |
| <code>dst-mac-mask &lt;H.H.H&gt;</code>         | Specify the destination MAC mask classifier criteria                                                            |
| <code>ethertype &lt;0x0-0xFFFF&gt;</code>       | Specify the ethertype classifier criteria                                                                       |
| <code>name &lt;WORD&gt;</code>                  | Specify name of l2 element                                                                                      |
| <code>pkt-type &lt;etherII llc snap&gt;</code>  | Specify the filter packet format ethertype encoding criteria (Ethernet II packet, or LLC packet or SNAP packet) |
| <code>priority &lt;0-7&gt;  All</code>          | Specify the user priority classifier criteria                                                                   |
| <code>session-id &lt;1-4294967295&gt;</code>    | Specify the session ID                                                                                          |
| <code>src-mac &lt;H.H.H&gt;</code>              | Specify the source MAC classifier criteria                                                                      |
| <code>src-mac-mask &lt;H.H.H&gt;</code>         | Specify the source MAC mask classifier criteria                                                                 |
| <code>vlan-min &lt;1-4094&gt;</code>            | Specify the Vlan ID minimum value classifier criteria                                                           |
| <code>vlan-max &lt;1-4094&gt;</code>            |                                                                                                                 |
| <code>vlan-tag &lt;tagged   untagged&gt;</code> | 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 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 <1-7> [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; range is 1–55000.                                                |
| aggregate                     | All classifiers associated with the policy will share the statistics resource                                |
| block                         | Associate a classifier block to the policy                                                                   |
| classifier                    | Associate a classifier to the policy                                                                         |
| clfr-id <1-55000>             | Specify the classifier set ID or classifier block number                                                     |
| clfr-name <NAME>              | Specify the classifier set name or classifier block name                                                     |
| clfr-type                     | Specify the classifier type (classifier,block)                                                               |
| enable                        | Enable the policy                                                                                            |
| if-group <WORD>               | Specify the interface group to apply policy                                                                  |
| individual                    | Each classifier associated with the policy will have its own statistics resource                             |
| in-profile-action <1-55000>   | Specify the in-profile action ID                                                                             |
| in-profile-action-name <WORD> | Specify the in-profile action name                                                                           |
| meter <1-55000>               | Specify the meter ID                                                                                         |
| meter-name <WORD>             | Specify the meter name                                                                                       |
| name <WORD>                   | Specify the policy label                                                                                     |
| port <LINE>                   | Specify the port to apply policy                                                                             |
| precedence <1-7>              | Specify the precedence of this policy in relation to other policies associated with the same interface group |
| session-id <1-4294967295>     | Specify the session ID                                                                                       |
| track-statistics              | Specify to track statistics on policy                                                                        |

<individual | aggregate>

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## qos queue-set-assignment

Configures the 802.1p priority to queue.

### Syntax

- qos queue-set-assignment queue-set <1-32> 1p <0-7> queue <1-8>

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter        | Description                                            |
|------------------|--------------------------------------------------------|
| 1p <0-7>         | Specify the 802.1p priority value                      |
| queue <1-8>      | Specifies the QoS queue set. Values range from 1 to 8. |
| queue-set <1-32> | Specify the queue set ID                               |

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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-1p {<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                 |

|                                                                  |                                                              |
|------------------------------------------------------------------|--------------------------------------------------------------|
| <code>pkt-type {etherII   llc   snap}</code>                     | Specify the filter packet format ethertype encoding criteria |
| <code>priority &lt;0-7&gt;  All</code>                           | Specify the user priority 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>set-drop-prec-out-action {high-drop   low-drop}</code>     | Specify the set drop precedence out-of-profile action        |
| <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-1p {&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>update-dscp-out-action &lt;0-63&gt;</code>                 | Specify the remark DSCP out-of-profile action                |
| <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 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                              |
| src-ip <A.B.C.D/<0-32>                        | Specify the source IP classifier criteria                    |
| src-mac <H.H.H>                               | Specify the source MAC classifier criteria                   |
| src-port-min <0-65535>                        | Specify the L4 source port minimum value classifier criteria |
| tcp-control <LINE>                            | Specify the TCP control criteria                             |
| update-1p {<0-7>   use-egress   use-tos-prec} | Specify the update user priority                             |
| update-dscp <0-63>                            | Specify the update DSCP                                      |
| vlan-min <1-4094>                             | Specify the Vlan ID minimum value classifier criteria        |
| vlan-tag {tagged   untagged}                  | 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                                                    |
|-----------------------------------------------------|----------------------------------------------------------------|
| committed-burst-size                                | Specify the burst size in KBytes                               |
| committed-rate <64-10230000>                        | Specify the committed rate value                               |
| max-burst-rate <64-4294967295>                      | Specify the maximum burst rate value                           |
| name <WORD>                                         | Specify the label used to reference the Traffic Profile entry. |
| set-priority <1-255>                                | Specify the filter set priority                                |
| track-statistics {aggregate   disable   individual} | 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         |
|-----------|---------------------|
| enable    | 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

Configures RADIUS server reachability settings.

### Syntax

- `radius reachability {use-icmp | use-radius [username <LINE> password <LINE>]}`
- `default radius reachability`

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter                          | Description                                             |
|------------------------------------|---------------------------------------------------------|
| <code>password &lt;LINE&gt;</code> | Set RADIUS request password                             |
| <code>use-icmp</code>              | Enable RADIUS server reachability using ICMP            |
| <code>use-radius</code>            | Enable RADIUS server reachability using RADIUS requests |
| <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                                                                                                                                                               |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <route_type>              | Specifies the source protocol to be redistributed. Valid options are direct, rip, and static.                                                                             |
| metric <metric_value>     | Specifies the metric value to associate with the route redistribution. This is an integer value between 0 and 65535.                                                      |
| metric-type <metric_type> | Specifies the metric type to associate with the route redistribution. Valid options are type1 and type2.                                                                  |
| route-policy <rmap_name>  | Specifies the route policy to associate with route redistribution. This is the name of a previously configured route map.                                                 |
| subnets <subnet_setting>  | 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                        |
|-------------------------------------------|------------------------------------|
| <code>cancel</code>                       | Cancel a previous scheduled reload |
| <code>force</code>                        | Do not ask for confirmation        |
| <code>minutes-to-wait &lt;1-60&gt;</code> | 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 paths |

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



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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                                                                           |
| 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                                                                                       |

next-hop <WORD>

nssa-pbit

permit

protocol <LINE>

route-source <WORD>

route-type <any | external |

external-1 | external-2 |

internal | local>

<WORD>

name)

Set the next hop (RIP interface)

Set P bit in specified type 7 LSA

Permit the route policy

Set match protocol

Set route source (on RIP is RIP interface)

Set route type

Name used to group a set of policies with different sequence number

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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                           |
|---------------------|---------------------------------------|
| <code>enable</code> | 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 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                |
|---------------------|----------------------------|
| <code>enable</code> | 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                 |
|---------------------|-----------------------------|
| <code>enable</code> | 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] [aaur] [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]}

### Default

None

### Command mode

Global Configuration

### Command parameters

| Parameter       | Description                        |
|-----------------|------------------------------------|
| 802.1ab         | Copy 802.1ab configuration         |
| aaur            | Copy AAUR configuration            |
| adac            | Copy ADAC configuration            |
| arp-inspection  | Copy ARP Inspection configuration  |
| asset-id        | Copy Asset ID configuration        |
| aur             | Copy AUR configuration             |
| banner          | Copy Custom Banner configuration   |
| brouter         | Copy Brouter configuration         |
| cfm             | Copy CFM configuration             |
| core            | Copy Core configuration            |
| dhcp-relay      | Copy DHCP Relay configuration      |
| dhcp-snooping   | Copy DHCP Snooping configuration   |
| eap             | Copy EAP configuration             |
| energy-saver    | Copy NES configuration             |
| igmp            | Copy IGMP configuration            |
| interface       | Copy Interface configuration       |
| ip              | Copy IP configuration              |
| ipfix           | Copy IPFIX configuration           |
| ipmgr           | Copy IP Manager configuration      |
| ip-source-guard | Copy IP Source Guard configuration |
| ipv6            | Copy IPV6 configuration            |
| l3              | Copy L3 configuration              |
| l3-protocols    | Copy L3 Protocols configuration    |
| lacp            |                                    |



|                |                                                         |
|----------------|---------------------------------------------------------|
| link-state     | Copy LACP configuration                                 |
| logging        | Copy Link State Tracking configuration                  |
| mac-security   | Copy System Logging configuration                       |
| mlt            | Copy MAC Security configuration                         |
| module         | Copy MLT configuration                                  |
| poe            | Copy configuration of an application                    |
| port-mirroring | Copy PoE configuration                                  |
| qos            | Copy Port Mirroring configuration                       |
| rate-limit     | Copy QoS configuration                                  |
| rmon           | Copy Rate Limiting configuration                        |
| rtc            | Copy RMON configuration                                 |
| slamon         | Copy RTC configuration                                  |
| slpp           | Copy SLAMon configuration                               |
| snmp           | Copy SLPP configuration                                 |
| spbm           | Copy SNMP configuration                                 |
| stack          | Copy SPBM configuration                                 |
| stkmon         | Copy Stack configuration                                |
| stp            | Copy Stack Monitor configuration                        |
| verbose        | Copy STP configuration                                  |
| vlacp          | Upload both default and non-default ASCII configuration |
| vlan           | Copy VLACP configuration                                |
|                | Copy VLAN configuration                                 |

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## script upload (Privileged Executive)

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

### Syntax

- script upload <1-127> [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]

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter       | Description                                       |
|-----------------|---------------------------------------------------|
| <1-127>         | Specify index in ASCII configuration script table |
| 802.1ab         | Copy 802.1ab configuration                        |
| aur             | Copy AAUR configuration                           |
| adac            | Copy ADAC configuration                           |
| arp-inspection  | Copy ARP Inspection configuration                 |
| asset-id        | Copy Asset ID configuration                       |
| aur             | Copy AUR configuration                            |
| banner          | Copy Custom Banner configuration                  |
| brouter         | Copy Brouter configuration                        |
| cfm             | Copy CFM configuration                            |
| core            | Copy Core configuration                           |
| dhcp-relay      | Copy DHCP Relay configuration                     |
| dhcp-snooping   | Copy DHCP Snooping configuration                  |
| eap             | Copy EAP configuration                            |
| energy-saver    | Copy NES configuration                            |
| igmp            | Copy IGMP configuration                           |
| interface       | Copy Interface configuration                      |
| ip              | Copy IP configuration                             |
| ipfix           | Copy IPFIX configuration                          |
| ipmgr           | Copy IP Manager configuration                     |
| ip-source-guard | Copy IP Source Guard configuration                |
| ipv6            | Copy IPV6 configuration                           |
| l3              | Copy L3 configuration                             |
| l3-protocols    | Copy L3 Protocols configuration                   |

|                |                                                         |
|----------------|---------------------------------------------------------|
| lACP           | Copy LACP configuration                                 |
| logging        | Copy System Logging configuration                       |
| mac-security   | Copy MAC Security configuration                         |
| mlt            | Copy MLT configuration                                  |
| module         | Copy configuration of an application                    |
| poE            | Copy PoE configuration                                  |
| port-mirroring | Copy Port Mirroring configuration                       |
| qoS            | Copy QoS configuration                                  |
| rate-limit     | Copy Rate Limiting configuration                        |
| rmon           | Copy RMON configuration                                 |
| rtc            | Copy RTC configuration                                  |
| slamon         | Copy SLAMon configuration                               |
| slpp           | Copy SLPP configuration                                 |
| snmp           | Copy SNMP configuration                                 |
| spbm           | Copy SPBM configuration                                 |
| stack          | Copy Stack configuration                                |
| stkmon         | Copy Stack Monitor configuration                        |
| stp            | Copy STP configuration                                  |
| verbose        | Upload both default and non-default ASCII configuration |
| vlACP          | Copy VLACP configuration                                |
| vlan           | Copy 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)

Displays ARP entries.

### Syntax

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

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                        | Description                                                                                                       |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <code>{A.B.C.D}</code>           | IP addr of ARP entry to be displayed                                                                              |
| <code>&lt;H.H.H&gt;</code>       | MAC addr of ARP entry 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) |
| <code>&lt;subnet-mask&gt;</code> | Subnet mask                                                                                                       |
| <code>dynamic</code>             | include dynamic ARP entries without a valid route                                                                 |
| <code>-s</code>                  | specify IP and subnet of ARP entries to be displayed                                                              |
| <code>static</code>              | include static ARP entries without a valid route                                                                  |
| <code>summary</code>             | Display summary of ARP entries                                                                                    |
| <code>vlan &lt;1-4094&gt;</code> | Display 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 [vlan <1-4094>] [<ip-addr>] [-s <subnet> <mask>] [static <ip-addr> [-s <subnet> <mask>]] [dynamic <ip-addr> [-s <subnet> <mask>]] [<H.H.H>] [summary]

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter         | Description                                                                                                       |
|-------------------|-------------------------------------------------------------------------------------------------------------------|
| <ip-addr>         | IP addr of ARP entry to be displayed                                                                              |
| dynamic <ip-addr> | include dynamic ARP entries without a valid route                                                                 |
| H.H.H             | MAC addr of ARP entry 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) |
| -s <subnet>       | specify IP and subnet of ARP entries to be displayed                                                              |
| static <ip-addr>  | include static ARP entries without a valid route                                                                  |
| summary           | Display summary of ARP entries                                                                                    |
| vlan <1-4094>     | Display 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                                               |
|-----------|-----------------------------------------------------------|
| <LINE>    | List of ports                                             |
| port      | 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           |
|---------------------|-----------------------|
| <code>custom</code> | Display custom banner |
| <code>static</code> | 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                  |
|-------------------|------------------------------|
| <code>spbm</code> | 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                  |
|-------------------|------------------------------|
| <code>spbm</code> | 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

Displays CLI tree list.

### Syntax

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

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter   | Description                                                      |
|-------------|------------------------------------------------------------------|
| application | Show commands available in Application Configuration Mode        |
| config      | Show commands available in Global Configuration Mode             |
| current     | Show commands available in current configuration mode            |
| Ethernet    | Show commands available in Ethernet Interface Configuration Mode |
| exec        | Show commands available in executive mode                        |
| ifconfig    | Show commands available in Interface Configuration Mode          |
| interface   | Show commands available in Interface Configuration Modes         |
| mode        | Show commands available on specific mode                         |
| ospf        | Show commands available in OSPF Router Configuration Mode        |
| privExec    | Show commands available in Privileged Executive Mode             |
| rip         | Show commands available in RIP Router Configuration Mode         |
| router      | Show commands available in Router Configuration Mode             |
| verbose     | Lists CLI tree and all commands syntax                           |
| vlan        | Show commands available in VLAN Interface Configuration Mode     |
| vrrp        | Show 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                                                                                         |
|-------------|-----------------------------------------------------------------------------------------------------|
| detail      | In addition to displaying current time, display all time source current value and RTC configuration |
| summer-time | Show daylight saving time settings                                                                  |
| time-zone   | Show 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                  | Show 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                                         | Show 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                             | Show 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 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 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> | verbose}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter      | Description                                              |
|----------------|----------------------------------------------------------|
| <LINE>         | List of ports                                            |
| admin-disabled | Display the admin disabled interfaces                    |
| admin-enabled  | Display the admin enabled interfaces                     |
| config         | Show interfaces configuration                            |
| gbic-info      | Display gbic details                                     |
| link-down      | Display the interfaces with link down                    |
| link-up        | Display the interfaces with link up                      |
| names          | Display interface names                                  |
| verbose        | Display port status information for several applications |
| verbose        | Display port status information for several applications |

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## show interfaces (User Executive)

Shows 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>] [verbose]`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter                                | Description                                              |
|------------------------------------------|----------------------------------------------------------|
| <code>admin-disabled &lt;LINE&gt;</code> | Display the admin disabled interfaces                    |
| <code>admin-enabled &lt;LINE&gt;</code>  | Display the admin enabled interfaces                     |
| <code>config</code>                      | Show interfaces configuration                            |
| <code>gbic-info &lt;LINE&gt;</code>      | Display gbic details                                     |
| <code>LINE {config   verbose}</code>     | List of ports                                            |
| <code>link-down &lt;LINE&gt;</code>      | Display the interfaces with link down                    |
| <code>link-up &lt;LINE&gt;</code>        | Display the interfaces with link up                      |
| <code>names &lt;LINE&gt;</code>          | Display interface names                                  |
| <code>verbose</code>                     | Display port status information for several applications |
| <code>verbose</code>                     | Display 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         |
|-----------|---------------------|
| Ethernet  | Ethernet IEEE 802.3 |
| <LINE>    | List of ports       |

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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                     |
|----------------------------------|---------------------------------|
| <code>interface</code>           | Display interface configuration |
| <code>vlan &lt;1-4094&gt;</code> | 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 (PrivilegedExecutive)

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                         |
|----------------------|-------------------------------------|
| <code>summary</code> | 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                         |
|----------------------|-------------------------------------|
| <code>summary</code> | 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                                 |
|----------------------|---------------------------------------------|
| <code>summary</code> | 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                                 |
|----------------------|---------------------------------------------|
| <code>summary</code> | 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         |
|-----------|---------------------|
| Ethernet  | Ethernet IEEE 802.3 |
| <LINE>    | List of ports       |

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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 [portfwdlist <1-128>] interface vlan <1-4094>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter     | Description                     |
|---------------|---------------------------------|
| interface     | Display interface configuration |
| portfwdlist   | Shows UDP fwdlists configured   |
| udp           | Shows 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> | Shows UDP fwdlists configured   |
| udp                 | Shows 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 igmp ssm

Displays global SSM settings.

### Syntax

- `show ip igmp ssm`

### Default

None

### Command mode

Privileged Executive

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## show ip igmp ssm-map

Displays SSM map/channel settings.

### Syntax

- show ip igmp ssm-map

### 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                         |
|--------------------|-------------------------------------|
| <code>route</code> | 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                         |
|--------------------|-------------------------------------|
| <code>route</code> | 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      | Show only IPv4 information. |
| IPv6      | Show only IPv6 information. |

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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       | Show ip tcp connections and services |
| udp       | Show 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       | Show ip tcp connections and services |
| udp       | Show 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                                |
|---------------|--------------------------------------------|
| enabled       | Display only admin enabled OSPF interfaces |
| vlan <1-4094> | 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                       |
|-------------------|-----------------------------------|
| adv-rtr {A.B.C.D} | Advertising router                |
| area {A.B.C.D}    | Area                              |
| as-external-link  | AS External LSA                   |
| as-summary-link   | AS Summary LSA                    |
| detail {A.B.C.D}  | Display detailed lsdb information |
| lsa-type          | Link state advertisement type     |
| lsid {A.B.C.D}    | Link state ID                     |
| multicast-link    | Multicast LSA                     |
| network-link      | Network LSA                       |
| nssa-extlink      | NSSA LSA                          |
| router-link       | Router LSA                        |
| summary-link      | 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 sOSPF 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 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             |
|-------------------------------|-------------------------|
| <code>prefix {A.B.C.D}</code> | Ip prefix               |
| <code>&lt;WORD&gt;</code>     | Name of the prefix list |

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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                   |
|-----------------|-------------------------------|
| address         | IP address of switch/stack    |
| bootp           | Show bootp settings           |
| default-gateway | 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 address 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           | Show 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       | Display IPv6 interfaces summary                |
| vlan <1-4094> | Display 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                                                       |
|-------------------------------|-------------------------------------------------------------------|
| <code>stack</code>            | Display configured stack ipv6 address/prefix                      |
| <code>switch</code>           | Display configured IPv6 address/prefix of local unit              |
| <code>unit &lt;1-8&gt;</code> | 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 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 {tunnel <1-2147483647> | vlan <1-4094>}`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter             | Description       |
|-----------------------|-------------------|
| tunnel <1-2147483647> | Display by tunnel |
| vlan <1-4094>         | Display by VLAN   |

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## show ipv6 interface (Privileged Executive)

Displays interface information.

### Syntax

- `show ipv6 interface {icmpstatistics | statistics} {tunnel <1-2147483647> | vlan <1-4094>}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                                | Description                  |
|------------------------------------------|------------------------------|
| <code>icmpstatistics</code>              | Display IPv6 icmp statistics |
| <code>statistics</code>                  | Display IPv6 statistics      |
| <code>tunnel &lt;1-2147483647&gt;</code> | Display by tunnel            |
| <code>vlan &lt;1-4094&gt;</code>         | Display by VLAN              |

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## show ipv6 interface statistics

Displays IPv6 statistics.

### Syntax

- `show ipv6 interface statistics {tunnel <1-2147483647> | vlan <1-4094>}`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter                                | Description       |
|------------------------------------------|-------------------|
| <code>tunnel &lt;1-2147483647&gt;</code> | Display by tunnel |
| <code>vlan &lt;1-4094&gt;</code>         | Display by VLAN   |

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## show ipv6 interface (User Executive)

Displays interface information.

### Syntax

- `show ipv6 interface vlan <1-4094>`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter                        | Description                      |
|----------------------------------|----------------------------------|
| <code>vlan &lt;1-4094&gt;</code> | Display per vlan IPv6 interfaces |

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## show ipv6 neighbor

Displays IPv6 neighbor information.

### Syntax

- show ipv6 neighbor interface {tunnel <1-2147483647> | vlan <1-4094>} | [<WORD>] [type {dynamic | local | other | static} | [summary]

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter             | Description                            |
|-----------------------|----------------------------------------|
| <WORD>                | IPv6 address                           |
| dynamic               | Display dynamically learned neighbors  |
| interface             | Display by interface                   |
| local                 | Display local neighbor address         |
| other                 | Display other neighbor entries         |
| static                | Display manually configured neighbors  |
| summary               | Display summary of IPv6 Neighbor Table |
| tunnel <1-2147483647> | Display by tunnel                      |
| type                  | Display by type                        |
| vlan <1-4094>         | Display by VLAN                        |

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## show ipv6 neighbor interface

Displays IPv6 neighbor information by interface.

### Syntax

- `show ipv6 neighbor interface {tunnel <1-2147483647> | vlan <1-4094>}`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter                                | Description       |
|------------------------------------------|-------------------|
| <code>tunnel &lt;1-2147483647&gt;</code> | Display by tunnel |
| <code>vlan &lt;1-4094&gt;</code>         | Display 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 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                |
|------------------------|----------------------------|
| <code>endpoints</code> | 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-ctrl-pkts (Privileged Executive)

Displays IS-IS Level 1 control packet counters.

### Syntax

- `show isis int-l1-ctrl-pkts`

### Default

None

### Command mode

Privileged Executive

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## show isis int-l1-ctrl-pkts (User Executive)

Displays IS-IS Level 1 control packet counters.

### Syntax

- `show isis int-l1-ctrl-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 l1] [sysid <H.H.H>] [lsp-id <WORD>] [detail] [tlv <WORD>]`

### Default

None

### Command mode

User Executive

### Command parameters

| Parameter                        | Description                                                                                                                                                                                 |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>detail</code>              | Display details                                                                                                                                                                             |
| <code>level l1</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 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 (UserExecutive)

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 informations.

### 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 (UserExecutive)

Displays SPBM related informations.

### 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 (UserExecutive)

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 informations.

### 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                              |
|-----------------|------------------------------------------|
| port <LINE>     | Port list                                |
| voice           | Display Voice Network Policies           |
| voice-signaling | 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] [vlan-names] [protocol-id] [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

Privileged Executive

### Command parameters

| Parameter                     | Description                                        |
|-------------------------------|----------------------------------------------------|
| <code>call-server</code>      | Display neighbors call-server information          |
| <code>capabilities</code>     | Display neighbors MED capabilities                 |
| <code>detail</code>           | Display all TLVs                                   |
| <code>dot1</code>             | Display IEEE 802.1 Organizationally specific TLVs  |
| <code>dot1q-framing</code>    | Display neighbors dot1q-framing information        |
| <code>dot3</code>             | Display IEEE 802.3 Organizationally specific TLVs  |
| <code>extended-power</code>   | Display neighbors MED power information            |
| <code>fa-element-type</code>  | Display neighbors Fabric Attach information        |
| <code>file-server</code>      | Display neighbors file-server information          |
| <code>inventory</code>        | Display neighbors MED inventory information        |
| <code>location</code>         | Display neighbors MED location information         |
| <code>med</code>              | Display Media Endpoint Devices (MED) specific TLVs |
| <code>network-policy</code>   | Display neighbors MED network-policy information   |
| <code>phone-ip</code>         | Display neighbors phone-ip information             |
| <code>poe-conservation</code> | Display neighbors poe-conservation information     |
| <code>vendor-specific</code>  | Display the vendor-specific 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                                        |
|-------------------------------|----------------------------------------------------|
| <code>call-server</code>      | Display neighbors call-server information          |
| <code>capabilities</code>     | Display neighbors MED capabilities                 |
| <code>detail</code>           | Display all TLVs                                   |
| <code>dot1</code>             | Display IEEE 802.1 Organizationally specific TLVs  |
| <code>dot1q-framing</code>    | Display neighbors dot1q-framing information        |
| <code>dot3</code>             | Display IEEE 802.3 Organizationally specific TLVs  |
| <code>extended-power</code>   | Display neighbors MED power information            |
| <code>fa-element-type</code>  | Display neighbors Fabric Attach information        |
| <code>file-server</code>      | Display neighbors file-server information          |
| <code>inventory</code>        | Display neighbors MED inventory information        |
| <code>location</code>         | Display neighbors MED location information         |
| <code>med</code>              | Display Media Endpoint Devices (MED) specific TLVs |
| <code>network-policy</code>   | Display neighbors MED network-policy information   |
| <code>phone-ip</code>         | Display neighbors phone-ip information             |
| <code>poe-conservation</code> | Display neighbors poe-conservation information     |
| <code>vendor-specific</code>  | 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 tlv's in 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 tlv's 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                                        |
|------------------------------|----------------------------------------------------|
| <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 |
| <code>vendor-specific</code> | 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                                        |
|------------------------------|----------------------------------------------------|
| <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 |
| <code>vendor-specific</code> | 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                                      |
|-----------------|--------------------------------------------------|
| address <H.H.H> | Display specific address                         |
| mlt <1-32>      | Display mac-address-table for specified trunk id |
| port            | Display mac-address-table for specified ports    |
| vid <1-4094>    | 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              |
|-----------|--------------------------|
| <1-32>    | Trunk number             |
| address   | 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                                      |
|-----------------|--------------------------------------------------|
| address <H.H.H> | Display specific address                         |
| mlt <1-32>      | Display mac-address-table for specified trunk id |
| port <LINE>     | Display mac-address-table for specified ports    |
| vid <1-4094>    | 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                          |
| 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                         |
| <WORD>                    | Unit/Port                       |

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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        | Show NTP key information        |
| server     | Show NTP server information     |
| statistics | Show 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                     |
|------------|---------------------------------|
| server     | Show NTP server information     |
| statistics | Show 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               |
|----------------------|---------------------------|
| <code>details</code> | 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                          |
|-------------|--------------------------------------|
| meter       | Display QoS port meter capabilities  |
| port <LINE> | Specify list of ports                |
| shaper      | 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> | Show 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           |
|--------------------------------|-----------------------|
| <code>port &lt;LINE&gt;</code> | 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 <1-32>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter | Description                     |
|-----------|---------------------------------|
| <1-32>    | Display 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 <1-32>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                           | Description                     |
|-------------------------------------|---------------------------------|
| <code>queue-set &lt;1-32&gt;</code> | Display the specified queue-set |

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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>   | 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 <1-7>}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter          | Description                                                                           |
|--------------------|---------------------------------------------------------------------------------------|
| classifier         | Display QoS Traffic Profile classifier entries                                        |
| eval-order <1-255> | Specify the evaluation order to reference a specific Traffic Profile classifier entry |
| interface          | Display QoS Traffic Profile interface entries                                         |
| name <WORD>        | Specify the label to display a specific Traffic Profile classifier entry              |
| port <LINE>        | Specify the port(s) used to reference the Traffic Profile entry                       |
| precedence <1-7>   | Specify the precedence used to reference the Traffic Profile entry                    |
| set                | Display QoS Traffic Profile set entries                                               |
| statistics         | Display 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 user-policy

Displays 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> | Specify the port(s) used to reference the User Policy entries |
| <code>user &lt;WORD&gt;</code> | Specify 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] [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

Privileged Executive

### Command parameters

| Parameter       | Description                           |
|-----------------|---------------------------------------|
| 802.1ab         | Display 802.1ab configuration         |
| aaur            | Display AAUR configuration            |
| adac            | Display ADAC configuration            |
| arp-inspection  | Display ARP Inspection configuration  |
| asset-id        | Display Asset ID configuration        |
| aur             | Display AUR configuration             |
| banner          | Display Custom Banner configuration   |
| brouter         | Display Brouter configuration         |
| cfm             | Display CFM configuration             |
| core            | Display Core configuration            |
| dhcp-relay      | Display DHCP Relay configuration      |
| dhcp-snooping   | Display DHCP Snooping configuration   |
| eap             | Display EAP configuration             |
| energy-saver    | Display Energy Saver configuration    |
| igmp            | Display IGMP configuration            |
| interface       | Display Interface configuration       |
| ip              | Display IP configuration              |
| ipfix           | Display IPFIX configuration           |
| ipmgr           | Display IP Manager configuration      |
| ip-source-guard | Display IP Source Guard configuration |
| ipv6            | Display IPV6 configuration            |
| l3              | Display L3 configuration              |
| l3-protocols    | Display L3 Protocols configuration    |
| lACP            | Display LACP configuration            |



|                |                                                          |
|----------------|----------------------------------------------------------|
| link-state     | Display Link State Tracking configuration                |
| logging        | Display System Logging configuration                     |
| mac-security   | Display MAC Security configuration                       |
| mlt            | Display MLT configuration                                |
| module         | Display configuration of an application                  |
| poe            | Display PoE configuration                                |
| port-mirroring | Display Port Mirroring configuration                     |
| qos            | Display QoS configuration                                |
| rate-limit     | Display Rate Limiting configuration                      |
| rmon           | Display RMON configuration                               |
| rtc            | Display RTC configuration                                |
| slamon         | Display SLAMon configuration                             |
| slpp           | Display SLPP configuration                               |
| snmp           | Display SNMP configuration                               |
| spbm           | Display SPBM configuration                               |
| stack          | Display Stack configuration                              |
| stkmon         | Display Stack Monitor configuration                      |
| stp            | Display STP configuration                                |
| verbose        | Display entire configuration (defaults and non-defaults) |
| vlacp          | Display VLACP configuration                              |
| vlan           | Display 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 SNMP configuration.

### Syntax

- show snmp-server {community | host | notification-control <WORD> | notify-filter | user | view}

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                   | Description                               |
|-----------------------------|-------------------------------------------|
| <WORD>                      | Description or OID of a notification type |
| community                   | Display SNMP community strings            |
| host                        | Display SNMP trap destinations            |
| notification-control <WORD> | Display notification control table        |
| notify-filter               | Display SNMP notify filter configuration  |
| user                        | Display SNMP users                        |
| view                        | Display 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                       |
|----------------------------|-----------------------------------|
| <code>mac-addresses</code> | 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        |
|-------------------------------|--------------------|
| <code>unit &lt;1-8&gt;</code> | 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 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> | Show 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        | Show 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                                    |
|------------|------------------------------------------------|
| all        | Display USB host port info for all units       |
| unit <1-8> | 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>  | 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>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

| Parameter                   | Description                       |
|-----------------------------|-----------------------------------|
| <code>&lt;1-4094&gt;</code> | Vlan ID                           |
| <code>membership</code>     | Display 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

50011

### Command mode

Application Configuration

### Command parameters

| Parameter                | Description                                                                                                                                                              |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| {0<br> <1024-<br>65535>} | 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                                                            |
|-----------|------------------------------------------------------------------------|
| <60-600>  | 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                                                                                                                            |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------|
| {A.B.C.D}   | 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. |
| [{A.B.C.D}] |                                                                                                                                        |

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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</code><br><code>&lt;portlist&gt;</code>        | Specifies the port or list of ports on which the specified SLPP Guard parameter or parameters are configured                                                                                                                                                                                                                            |
| <code>timeout</code><br><code>{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 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> [<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 |
|-----------------------------|-------------|
| <code>&lt;1-4094&gt;</code> | 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<br/>&lt;portlist&gt;</code>            | Specifies the ports affected by the command.                                                                                                                                                                                  |
| <code>timeout<br/>&lt;10-65535<br/>  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 |

## 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                                                                                                                                                                                                                                                                      |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| cost <1-65535>                    | Enter the path cost of the spanning tree; range is from 1–65535.                                                                                                                                                                                                                 |
| learning<br>{disable normal fast} | Specify the STP learning mode: disable: disables FastLearn mode; normal: changes to normal learning mode; fast: enables FastLearn mode.                                                                                                                                          |
| port <portlist>                   | 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. |
| priority {00   10   <   F0}       | Set the spanning tree priority for a port as a hexadecimal value.                                                                                                                                                                                                                |
| stp <1-8>                         | 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                                                 |
|-------------------|-------------------------------------------------------------|
| <code>mst</code>  | 802.1s Multi Spanning Tree Protocol                         |
| <code>rstp</code> | 802.1w Rapid Spanning Tree Protocol (single group/instance) |
| <code>stpg</code> | 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                                                                                       |
|----------------------------|---------------------------------------------------------------------------------------------------|
| <code>&lt;H.H.H&gt;</code> | 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 &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                                                                                                        |
|------------------------|--------------------------------------------------------------------------------------------------------------------|
| 10 100 1000 10000 auto | 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. |
| port <portlist>        | 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                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>&lt;0-5000&gt;</code> | 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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## 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                                                                   |
|-------------------------------|-------------------------------------------------------------------------------|
| <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</code>             | Force immediate save of NBU config to BU                                      |
| <code>unit &lt;1-8&gt;</code> | 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                                |
|-----------|--------------------------------------------|
| external  | External loopback test for the stack ports |
| internal  | 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 |
|-----------------------------------|-------------|
| <code>&lt;0-4294967295&gt;</code> | retry count |

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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                          |
|------------------------|--------------------------------------|
| <WORD>                 | remote host IPv6 address (45 length) |
| <hostname>   {A.B.C.D} | remote host name or IP address       |
| 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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## 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. <code>long</code> — sets the port timeout value to: (timeoutscale value) × (slow-periodic-time value). <code>short</code> — sets the port's timeout value to: (timeout-scale value) × (fast-periodic-time value). For example, if the timeout is set to <code>short</code> while the timeout-scale value is 5 and the fast-periodic-time value is 500 ms, the timer expires after 2500 ms. Default is <code>long</code> . |
| <code>timeout-scale</code>                                         | Sets a timeout scale for the port, where <code>timeout = (periodic time) × (timeout-scale)</code> . 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                                                                                                                                                                      |

<integer>

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-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>             | VLAN ID                         |
| <LINE>               | 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                 | Create port-based VLAN          |
| protocol-decEther2   | Create decEther2 VLAN           |
| protocol-ipEther2    | Create ipEther2 VLAN            |
| protocol-ipv6Ether2  | Create ipv6Ether2 VLAN          |
| protocol-ipx802.2    | Create ipx802.2 VLAN            |
| protocol-ipx802.3    | Create ipx802.3 VLAN            |
| protocol-ipxEther2   | Create ipxEther2 VLAN           |
| protocol-ipxSnap     | Create ipxSnap VLAN             |
| protocol-Netbios     | Create Netbios VLAN             |
| protocol-RarpEther2  | Create RarpEther2 VLAN          |
| protocol-sna802.2    | Create sna802.2 VLAN            |
| protocol-snaEther2   | Create snaEther2 VLAN           |
| protocol-Userdef     | Create Userdef VLAN             |
| protocol-vinesEther2 | Create vinesEther2 VLAN         |
| protocol-xnsEther2   | Create xnsEther2 VLAN           |
| remote-span          | Create RSPAN VLAN               |
| snap <1-65534>       | Create SNAP Userdef VLAN        |
| spbm-bvlan           |                                 |

spbm-switchedUni  
type  
voice-vlan

Create SPBM B-VLAN  
Create SPBM switched UNI  
Specify type of new VLAN  
Create 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>}`
- `vlan igmp unknown-mcast-no-flood {disable | enable}`
- `no vlan igmp unknown-mcast-allow-flood <1-4094> {<A.B.C.D> | <H.H.H>}`
- `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>                   | Multicast IPv4 address                                                                            |
| <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) |
| <WORD>                      | Multicast 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                                                             |

## 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 |
|-----------|-------------|
| <1-4094>  | 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                             |
|---------------------|-----------------------------------------|
| <code>memory</code> | Write configuration to local NV storage |