



# Command Line Interface Commands Reference for ERS 4900/5900 Series

## Command Line Interface Commands Reference for ERS 4900/5900 Series

### Introduction

This guide describes the Extreme Networks Command Line Interface (CLI) commands for the configuration of various features in Extreme Networks Ethernet Routing Switch 4900/5900 Series.

This document provides two different ways of navigating CLI 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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- [B](#) - 4 commands
- [C](#) - 71 commands
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- [F](#) - 13 commands
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## Command mode index

The following command modes are available. Select the command mode to see a list of commands available in that mode.

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- [exit \(OSPF Router Configuration\)](#)
- [exit \(Privileged Executive\)](#)
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- [exit \(VLAN Interface Configuration\)](#)
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- [help \(Privileged Executive\)](#)
- [help \(User Executive\)](#)
- [hop-limit](#)
- [host-route](#)
- [http-port](#)
- [https-only](#)

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- [igmp query-interval](#)
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- [ip arp-inspection \(Ethernet Interface Configuration\)](#)
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- [ip dhcp-relay \(VLAN Interface Configuration\)](#)
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- [ip dhcp-snooping external-save](#)
- [ip dhcp-snooping \(Global Configuration\)](#)
- [ip dhcp-snooping \(Privileged Executive\)](#)
- [ip directed-broadcast](#)
- [ip directed-broadcast](#)
- [ip domain-name](#)
- [ip forward-protocol](#)
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- [ip fwd-nh \(Global configuration mode\)](#)
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- [ip igmp filter](#)
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- [ip ipfix \(Privileged Executive\)](#)
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- [ip ospf \(Loopback Interface Configuration\)](#)
- [ip ospf message-digest-key\(Ethernet Interface Configuration\)](#)
- [ip ospf message-digest-key \(VLAN Interface Configuration\)](#)
- [ip ospf spf-run](#)
- [ip ospf \(VLAN Interface Configuration\)](#)
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- [ip pim rp-candidate group](#)
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- [ipv6](#)
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- [ipv6 dhcp](#)
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- [ip verify source](#)
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- [ip vrrp address](#)
- [ip vrrp critical-ip-addr](#)
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- [l2 ping \(Privileged Executive\)](#)
- [l2 ping \(User Executive\)](#)
- [l2 tracemroute source](#)
- [l2 traceroute \(Privileged Executive\)](#)
- [l2 traceroute \(User Executive\)](#)
- [l2 tracetree \(Privileged Executive\)](#)
- [l2 tracetree \(User Executive\)](#)
- [lACP aggregation](#)
- [lACP clear-stats](#)
- [lACP key \(Ethernet Interface Configuration\)](#)
- [lACP key \(Global Configuration\)](#)
- [lACP mode](#)
- [lACP port-mode](#)
- [lACP priority](#)
- [lACP system-priority](#)
- [lACP timeout-time](#)
- [link-state](#)
- [lldp config-notification\(Ethernet Interface Configuration\)](#)
- [lldp \(Global Configuration\)](#)
- [lldp location-identification \(Ethernet Interface Configuration\)](#)
- [lldp med-network-policies \(Ethernet Interface Configuration\)](#)
- [lldp port \(Ethernet Interface Configuration\)](#)
- [lldp status \(Ethernet Interface Configuration\)](#)
- [lldp tx-tlv \(Ethernet Interface Configuration\)](#)
- [lldp vendor-specific \(Ethernet Interface Configuration\)](#)
- [logging](#)
- [logout \(Privileged Executive\)](#)
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- [mac-address-table](#)
- [macsec clear-stats](#)
- [macsec confidentiality-offset \(Ethernet Interface Configuration\)](#)
- [macsec connectivity-association](#)
- [macsec connectivity-association \(Ethernet Interface Configuration\)](#)
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- [macsec enable \(Ethernet Interface Configuration\)](#)
- [macsec encryption enable \(Ethernet Interface Configuration\)](#)
- [macsec replay-protect enable \(Ethernet Interface Configuration\)](#)
- [mac-security \(Ethernet Interface Configuration\)](#)
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- [managed-config-flag](#)
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- [name \(Ethernet Interface Configuration\)](#)
- [network \(OSPF Router Configuration\)](#)
- [network \(RIP Router Configuration\)](#)
- [ntp](#)

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- [ospf](#)
- [overload](#)
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- [password](#)
- [ping \(Privileged Executive\)](#)
- [ping \(User Executive\)](#)
- [ping-virtual-address](#)
- [poe](#)
- [poe poe-limit \(for PoE+ units\)](#)
- [poe poe-limit \(for PoE units\)](#)
- [poe poe-priority](#)
- [poe poe-shutdown](#)
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- [qos acl-assign](#)
- [qos action](#)
- [qos agent aq-mode](#)
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- [qos clear-queue-stats](#)
- [qos clear-stats](#)
- [qos egressmap](#)
- [qos if-action-extension](#)
- [qos if-assign \(Ethernet Interface Configuration\)](#)
- [qos if-assign \(Global Configuration\)](#)
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- [qos system-element](#)
- [qos traffic-profile classifier](#)
- [qos traffic-profile set](#)
- [qos ubp classifier](#)
- [qos ubp set](#)
- [quickconfig \(Global configuration\)](#)
- [quickconfig \(Privileged Executive\)](#)

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- [radius dynamic-server](#)
- [radius reachability](#)
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- [radius-server](#)
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- [router-id](#)
- [router isis](#)
- [router ospf](#)
- [router-preference maximum](#)
- [router rip](#)
- [router vrrp](#)
- [run \(Privileged Executive\)](#)
- [run \(User Executive\)](#)

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- [script run \(Global configuration\)](#)
- [script run \(Privileged Executive\)](#)
- [script upload \(Global configuration\)](#)
- [script upload \(Privileged Executive\)](#)
- [serial-console](#)
- [serial-security](#)
- [sflow enable](#)
- [sflow \(Ethernet Interface Configuration\)](#)
- [sflow \(Global configuration\)](#)
- [sftp-server](#)
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- [show adac mac-range-table](#)
- [show application \(Privileged Executive\)](#)
- [show application \(User Executive\)](#)
- [show arp \(Privileged Executive\)](#)
- [show arp-table \(Privileged Executive\)](#)
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- [show certificate ca](#)
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- [show cli-command-group](#)
- [show cli info](#)
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- [show cli password](#)
- [show clock](#)
- [show config-network](#)
- [show cpu-utilization \(Privileged Executive\)](#)
- [show cpu-utilization \(User Executive\)](#)

- [show ddi-logging \(Privileged Executive\)](#)
- [show ddi-logging \(User Executive\)](#)
- [show diagnostics-quick-mode \(Privileged Executive\)](#)
- [show eapol](#)
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- [show energy-saver \(Privileged Executive\)](#)
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## VRRP Router Configuration

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## accept adv-rtr

Configures the OSPF accept-advertisements router policy.

### Syntax

- `accept adv-rtr <router_ip_address> [enable] [metric-type {any | type1 | type2}] [route-policy <rmap_name>]`
- `default 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

None

### Command mode

OSPF Router Configuration

### Command parameters

Parameter	Description
<code>enable</code>	Enables the accept entry for the router specified in the <code>&lt;ip_address&gt;</code> parameter.
<code>metric-type {any   type1   type2}</code>	Indicates the type of OSPF external routes that will be accepted from this router.
<code>&lt;router_ip_address&gt;</code>	Represents the IP address of the router from which advertisements are to be accepted. The value 0.0.0.0 denotes that advertisements from all routers are accepted.
<code>any</code>	Specifies match as any metric type.
<code>type1</code>	Specifies match as type-1 metric type.
<code>type2</code>	Specifies match as type-2 metric type.
<code>route-policy &lt;rmap_name&gt;</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.





# Command: adac call-server-port

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## adac call-server-port

Sets call server port(s) range.

### Syntax

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

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

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

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## adac enable

Enables adac on the port or ports listed.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<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>op-mode</code>	Set ADAC operation mode.
<code>call-server-port &lt;LINE&gt;</code>	Set call server port(s) range.
<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)]}`
- `default adac [enable] [port <LINE> tagged-frames-pvid enable] [port <LINE> tagged-frames-tagging enable]`
- `no adac [enable] [port <LINE> enable]`

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

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

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

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
high-end	High end of the MAC address range to add
low-end	Low end of the MAC address range to add
<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)

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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>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>call-server-port &lt;LINE&gt;</code>	Set call server port(s) range
<code>uplink-port &lt;LINE&gt;</code>	Set uplink port(s) range
<code>voice-vlan &lt;1-4094&gt;</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>]`
- `default adac uplink-port [call-server-port]`
- `no adac uplink-port [call-server-port]`

### Default

The default is none.

### Command mode

Global Configuration

### Command parameters

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

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## adac voice-vlan

Sets Voice-VLAN ID.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

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

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# Command: application

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## application

Enters application mode.

### Syntax

- application

### Default

None

### Command mode

Global Configuration

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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} }]`
- `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} }]`
- `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

None

### Command mode

OSPF Router Configuration

### Command parameters

Parameter	Description
<code>summary-link</code>	Aggregated summary (Type 3)
<code>advertise-metric &lt;0-65535&gt;</code>	Configure metric to be advertised for area range
<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>nssa-extlink</code>	Not-so-stubby area link summary (Type 7)
<code>advertise-mode {no-summarize   summarize   suppress}</code>	Select advertise mode for area range
<code>external</code>	Specifies a normal area
<code>nssa</code>	Specifies a not-so-stubby area
<code>noexternal</code>	Specifies a stub area

range {ip_addr/ subnet_mask} [{nssa- entlink   summary- link}]	Specifies range parameters for the OSPF area
area-id	Specifies the Area ID in dotted decimal notation (A.B.C.D)
import {external   noexternal   nssa}	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.
default-cost {0- 16777215}	Specifies the default cost associated with an OSPF stub area

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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>]}`
- `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>]}`
- `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

None

### Command mode

OSPF Router Configuration

### Command parameters

Parameter	Description
<code>authentication-type</code>	Specifies one of the following authentication types: none; simple; password; message; digest MD5
<code>transit-delay</code>	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.
<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.
<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>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>&lt;area_id&gt;</code>	Specifies the transit area ID in dotted decimal notation (A.B.C.D)

<code>&lt;nghbr- routerid&gt;</code>	Specifies the transit area ID in dotted decimal notation (A.B.C.D)
<code>authentication- key &lt;WORD&gt;</code>	Specifies the unique identifier assigned to the authentication key
<code>primary-md5-key</code>	Specifies the user-selected key used to encrypt OSPF protocol packets for transmission.

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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>`
- `default 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

None

### Command mode

OSPF Router Configuration

### Command parameters

Parameter	Description
<code>&lt;neighbor_id&gt;</code>	Specifies the neighbor router ID expressed as an IP address
<code>&lt;1-255&gt;</code>	Specifies the primary MD5 key value, expressed as an integer from 1-255.
<code>&lt;area_id&gt;</code>	Specifies the transit area Id expressed as an IP address
<code>md5-key</code> <code>&lt;WORD&gt;</code>	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>}`
- `default arp timeout`
- `no arp {A.B.C.D}`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>&lt;A.B.C.D&gt;</code>	IP addr of ARP entry
<code>&lt;H.H.H&gt;</code>	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-xx)
<code>timeout &lt;5-360&gt;</code>	time for the entry to exist
<code>&lt;WORD&gt;</code>	unit/port
<code>id &lt;1-4094&gt;</code>	VLAN ID to apply ARP entry for

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## as-boundary-router

Configures a router as an ASBR.

### Syntax

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

### Default

Disabled

### Command mode

OSPF Router Configuration

### Command parameters

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

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## asset-id

Configures the Asset-ID.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>unit &lt;1-8&gt;</code>	Asset-ID for specific unit in the Stack
<code>stack &lt;WORD&gt;</code>	Asset-ID for the Stack
<code>&lt;WORD&gt;</code>	Asset-ID of this unit

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## audit

Configures audit settings.

### Syntax

- `audit log save`
- `default audit log`
- `no audit log`

### Default

None

### Command mode

Global Configuration

### Command parameters

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



# Command: audit encryption-key aes-cbc

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## audit encryption-key aes-cbc

Changes the audit log encryption key.

### Syntax

- `audit encryption-key aes-cbc`

### Default

None

### Command mode

Global Configuration

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# Command: audit log

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## audit log

Configures audit settings.

### Syntax

### Default

None

### Command mode

Privileged Executive

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## auto-negotiation-advertisements

Configure auto-negotiation advertisement settings.

### Syntax

- `auto-negotiation-advertisements` {[port <LINE>][add | remove] [10-full] [10-half] [100-full] [100-half] [1000-full] [10000-full] [2500-full] [asymm-pause-frame] [none]}
- `default auto-negotiation-advertisements` [port <LINE>]
- `no auto-negotiation-advertisements` [port <LINE>]

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

Parameter	Description
10000-full	Advertise 10000Mbps full-duplex
1000-full	Advertise 1000Mbps full-duplex.
100-full	Advertise 100Mbps full-duplex.
100-half	Advertise 100Mbps half-duplex.
10-full	Advertise 10Mbps full-duplex.
10-half	Advertise 10Mbps half-duplex.
2500-full	Advertise 2500Mbps full-duplex.
asymm-pause-frame	Advertise use of asymmetric pause frames half-duplex.
none	Do not advertise anything during auto-negotiation
port <LINE>	Select a port for operation.
add	Specifies the option as add.
remove	Specifies the option as remove.

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

### Default

None

### Command mode

Global Configuration





# Command: auto-vlink

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## auto-vlink

Enables global automatic Virtual Link creation.

### Syntax

- auto-vlink
- default auto-vlink
- no 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| usg}
- no banner

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
usg	Activates the U.S. Government banner
<1-19> <LINE>	Custom banner line number
disabled	Skip banner display
custom	Use custom banner
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>time &lt;1-10&gt;</code>	How long to blink the LEDs
<code>off</code>	Stop blinking the LEDs
<code>unit &lt;1-8&gt;</code>	Unit number

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## boot

Resets the switch/stack.

### Syntax

- boot {default unit <1-8> | {nvram | script} block <1-2> | partial-default | primary | secondary | unit <1-8>}

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
nvram	Boot with binary cfg in nvram
script	Boot with script
partial-default	Reboot the stack/switch and use partial factory default configurations
primary	Reboot the stack/switch and use primary factory default configurations
secondary	Reboot the stack/switch and use secondary factory default configurations
default	Reboot the stack/switch and use the factory default configurations
block <1-2>	Select block from which ascii cfg file should be copied
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>routing enable</code>	Enables Layer 3 routing on the brouter port
<code>subnet A.B.C.D/&lt;0-32&gt;</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>port &lt;LINE&gt;</code>	Specifies the port to configure as a brouter port
<code>vlan &lt;1-4094&gt;</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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## certificate ca

Configures Certificate Authority / Trustpoint.

### Syntax

- no certificate ca
- certificate ca WORD<1-45> [common-name WORD<1-64>] [key-name WORD<1-45>] [action {caauth | enroll | generate-self-signed-cert | get-crl | remove | renew}] [ca-url WORD<1-1000>] [export] [import] [regenerate-key-on-re-enroll] [use-for <ike | ssl-server | ss-client>] [use-post <true|false>]

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
action caauth	Authenticates the trustpoint CA by getting the certificate of the CA and stores the CA certificate locally.
export	Export CA related files.
regenerate-key-on-reenroll	Generates a new key pair before each re-enrollment.
action generate-selfsigned-cert	Generates a self-signed subject certificate.
action renew [validity-days<7-1185>]	Generates certificate renewal request for given trustpoint CA, gets the digital certificate, and stores it locally by replacing the old certificate with the new one. The validity-days specifies the number of days for which the certificate will remain valid. The default value is 365 days.
action enroll [validity-days <7-1185>]	Generates certificate signing request to obtain identity certificate from configured trustpoint CA, gets the digital certificate, and stores it locally, associating with the trustpoint CA.
action get-crl	Gets the Certificate Revocation List from the CDP and stores into a file.
import	Import CA related files.
action remove	Releases the locally stored certificate associated with the trustpoint CA post revocation.
use-post <false   true>	Specifies the HTTP request style. The default value is True.
ca-url WORD<1-	

1000>	Specifies the IPv4 or IPv6 address of the SFTP server. The range for IPv6 is 1–128. The range for IPv4 is 0.0.0.0 to 255.255.255.255.
key-name WORD<1-45>	Specifies the key pair generated by the command that was first associated with the CA trustpoint.
WORD <1-45>	Specifies the name of the certificate authority. It should be alphanumeric and case-sensitive. The maximum length should be 45 characters.
use-for <ike   ssl-server   ssl-client>	Specifies the name of the feature that uses this identity.
common-name [WORD<1-64>]	Specifies the name of the owner of the device or us
username WORD<1-64>	Specifies the trusted CA url.
action enroll [challengepassword WORD<1-128>]	This password is given offline by the CA during the end entity registration. The length of the password is from 1 to 128.
action renew [challengepassword WORD<1-128>]	This password is given offline by the CA during the end entity registration. The length of the password is from 1 to 128.

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## certificate copy

Copies a certificate or a CRL.

### Syntax

- `certificate copy [ca WORD<1-45>] [trust-store]`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>trust-store</code>	Copies the certificate from trust store.
<code>ca WORD&lt;1-45&gt;</code>	Specifies the name of the source CA.

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## certificate key

Configures Key pair.

### Syntax

- `certificate key name WORD<1-45>`
- `certificate key name WORD<1-45> export [sftp address<Hostname or A.B.C.D>] | [usb file WORD<1-512>] | terminal]`
- `certificate key name WORD<1-45> import [sftp address<Hostname or A.B.C.D>] | [usb file WORD<1-512>] | terminal]`
- `certificate key name WORD<1-45> generate [size <2048-2048>] | [type rsa]`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>export {sftp usb   terminal}</code>	Exports key pair to another device.
<code>import {sftp usb   terminal}</code>	Imports key pair from another device.
<code>address&lt;Hostname or A.B.C.D&gt;</code>	Specifies the IPv4 or IPv6 address of the SFTP server. The range for IPv6 is 1–128. The range for IPv4 is 0.0.0.0 to 255.255.255.255.
<code>generate [size &lt;2048-2048&gt;]</code>	Specifies the size or modulus of key-pair to be generated. The value should be 2048.
<code>unit&lt;1-8&gt;</code>	Specifies the stack unit with USB storage.
<code>generate type rsa</code>	Specifies type of cryptography algorithm used to generate the key-pair. The switch uses only rsa as the cryptography algorithm type.
<code>name WORD&lt;1-45&gt;</code>	Speifies the name of the key pair.

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## certificate move

Moves or renames a certificate or CRL.

### Syntax

- `certificate move [ca WORD<1-45>] [trust-store]`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>trust-store</code>	Copies the certificate from trust store.
<code>ca WORD&lt;1-45&gt;</code>	Specifies the name of the source CA.
<code>file WORD&lt;1-512&gt;</code>	Speifies the name of the source file.

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## certificate subject

Defines subject information for device certificate.

### Syntax

- `certificate subject [common-name WORD<0-64>] [country WORD<2>] [e-mail WORD<0-254>] [fqdn] [include-ip-address] [locality WORD<0-128>] [organization WORD<0-64>] [province WORD<0-128>] [unit WORD<0-64>]`
- `no certificate subject`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>country WORD&lt;2&gt;</code>	Specifies the country of the subject sending the Certificate Signing Request to the Certificate Authority.
<code>e-mail WORD&lt;0-254&gt;</code>	Specifies the Email address of the subject sending the Certificate Signing Request to the Certificate Authority.
<code>locality WORD&lt;0-128&gt;</code>	Specifies the locality of the subject sending the Certificate Signing Request to the Certificate Authority.
<code>common-name WORD&lt;0-64&gt;</code>	Specifies the name of the subject sending the Certificate Signing Request to the Certificate Authority.
<code>organization WORD&lt;0-64&gt;</code>	Specifies the organization of the subject sending the Certificate Signing Request to the Certificate Authority.
<code>unit WORD&lt;0-64&gt;</code>	Specifies the organizational unit of the subject sending the Certificate Signing Request to the Certificate Authority.
<code>province WORD&lt;0-128&gt;</code>	Specifies the province of the subject sending the Certificate Signing Request to the Certificate Authority.

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## certificate trust-store

Configures trust store.

### Syntax

- `certificate trust-store export [file WORD<1-512> {sftp | usb | terminal}] | [pkcs7]`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>export file pkcs7</code>	Exports all certificates in a PKCS#7 file.
<code>export file WORD&lt;1-512&gt; {sftp   usb   terminal}</code>	Specifies the device to export the files.
<code>address&lt;Hostname or A.B.C.D&gt;</code>	Specifies the IPv4 or IPv6 address of the SFTP server. The range for IPv6 is 1–128. The range for IPv4 is 0.0.0.0 to 255.255.255.255.
<code>filename WORD&lt;1-512&gt;</code>	Specifies the local and remote names of the file to export.
<code>unit&lt;1-8&gt;</code>	Specifies the stack unit with USB storage.

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## cfm

Configures CFM.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

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

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## clear arp-cache

Clears the Layer 3 ARP cache.

### Syntax

- clear arp-cache

### Default

None

### Command mode

Privileged Executive



# Command: clear arp-cache (Ethernet Interface Configuration)

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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 eapol

Clears authenticated clients.

### Syntax

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

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>non-eap</code>	Clear NEAP authenticated clients
<code>&lt;LINE&gt;</code>	List of ports
<code>address &lt;H.H.H&gt;</code>	Non-EAP MAC address

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# Command: clear eapol non-eap (Ethernet Interface Configuration)

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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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# Command: clear fa statistics

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## clear fa statistics

Clears FA summary and per-port statistics counters.

### Syntax

- `clear fa statistics [summary | <PortList>]`

### Default

None

### Command mode

### Command parameters

Parameter	Description
summary	Clears FA summary statistics.

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# Command: clear ip-blocking (Ethernet Interface Configuration)

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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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# Command: clear ip dhcp-snooping binding (Ethernet Interface Configuration)

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

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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>profile</code>	Clear IGMP profile data
<code>stats</code>	Clear IGMP profile statistics
<code>&lt;1-65535&gt;</code>	Profile ID





# Command: clear ip igmp profile stats (Ethernet Interface Configuration)

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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>counters</code>	Clear OSPF counters
<code>&lt;1-4094&gt;</code>	VLAN ID

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# Command: clear ip ospf counters (Ethernet Interface Configuration)

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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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# Command: clear ipv6 destinationcache

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## clear ipv6 destinationcache

Clear the IPv6 destination cache.

### Syntax

- `clear ipv6 destinationcache`

### Default

None

### Command mode

Privileged Executive

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# Command: clear ipv6 destinationcache (Ethernet Interface Configuration)

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## clear ipv6 destinationcache (Ethernet Interface Configuration)

Clear the IPv6 destination cache.

### Syntax

- clear ipv6 destinationcache

### Default

None

### Command mode

Ethernet Interface Configuration

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## clear ipv6 dhcp-relay

Clear IPv6 DHCP-relay parameters.

### Syntax

- `clear ipv6 dhcp-relay counters [vlan <1-4094>]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>vlan</code>	Clear counters for specific vlan.
<code>counters</code>	Clear IPv6 DHCP-relay counters.

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# Command: clear ipv6 neighbor-cache (Ethernet Interface Configuration)

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## clear ipv6 neighbor-cache (Ethernet Interface Configuration)

Clears the IPv6 neighbor-cache.

### Syntax

- `clear ipv6 neighbor-cache`

### Default

None

### Command mode

Ethernet Interface Configuration

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# Command: clear ipv6 statistics (Ethernet Interface Configuration)

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## clear ipv6 statistics (Ethernet Interface Configuration)

Clear IPv6 statistics.

### Syntax

- `clear ipv6 statistics [all] [interface] [tcp] [udp] [ripng vlan <1-4094>]`

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

Parameter	Description
all	Clear all IPv6 statistics
interface	Clear IPv6 interface statistics
tcp	Clear IPv6 TCP statistics
udp	Clear IPv6 UDP statistics
ripng vlan <1-4094>	Clear RIPng statistics for specific vlan interface

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



# Command: clear ip verify source statistics (Ethernet Interface Configuration)

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## clear ip verify source statistics (Ethernet Interface Configuration)

Clears IP Source Guard statistics.

### Syntax

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

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

Parameter	Description
<WORD>	Port list
interface Ethernet	Select interface

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# Command: clear isis lsdB (Ethernet Interface Configuration)

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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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# Command: clear isis stats (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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# Command: clear license (Ethernet Interface Configuration)

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## clear license (Ethernet Interface Configuration)

Clears licenses.

### Syntax

- clear license

### Default

None

### Command mode

Ethernet Interface Configuration

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# Command: clear logging (Ethernet Interface Configuration)

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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
volatile	Clear log messages from DRAM
non-volatile	Clear log messages from NVRAM
nv	Clear log messages from NVRAM and DRAM
serious	Clear serious log messages

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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 address <H.H.H>`
- `clear mac-address-table interface mlt <1-32>`

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

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



# Command: clear ssh banner (Ethernet Interface Configuration)

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## clear ssh banner (Ethernet Interface Configuration)

Clears the SSH banner.

### Syntax

- clear ssh banner

### Default

None

### Command mode

Ethernet Interface Configuration

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# Command: clear ssh banner (Privileged Executive)

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## clear ssh banner (Privileged Executive)

Clears the SSH banner.

### Syntax

- clear ssh banner

### Default

None

### Command mode

Privileged Executive

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

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# Command: clear stack port-statistics

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## clear stack port-statistics

Clears the stack port counters.

### Syntax

- `clear stack port-statistics [ unit <1-8> ]`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>unit &lt;1-8&gt;</code>	Specifies the unit number.

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# Command: clear stack port-statistics (Ethernet Interface Configuration)

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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 &lt;1-8&gt;</code>	Specifies the unit in the stack

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## clear-stats

Clears the port counter.

### Syntax

- `clear-stats port <LINE> [mgmt]`

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

Parameter	Description
<code>mgmt</code>	Clear management port statistics
<code>port &lt;LINE&gt;</code>	Selects a port to clear the port counter

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# Command: clear system last-exception (Ethernet Interface Configuration)

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

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## cli

Modifies session settings.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

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

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## cli-command-group

Configures a group of commands.

### Syntax

- `cli-command-group <group_name> [<CLI_command_name> [ALL | hint | <CLI_subcommand_name> ALL | hint]]`
- `no cli-command-group <group_name> [<command_name> [ALL | <subcommand_name> ALL]]`
- `default cli-command-group <group_name>`

### Default

None

### Command mode

User Executive

### Command parameters

Parameter	Description
ALL	Adds or removes all subcommands
hint	Lists available commands or subcommands
<group_name>	Specifies the command group name.
<CLI_command_name>	Specifies the command to assign to a group of commands.
<command_name>	Specifies the name of a command to remove from the group of commands.
<subcommand_name>	Specifies the name of a subcommand to remove from the group of commands.
<CLI_subcommand_name>	Specifies the subcommand to assign to a group of commands.



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## clock set

Configure Real Time Clock

### Syntax

- `clock set { [hh:mm:ss <1-31>] [MONTH <2005-2099>] | [LINE] }`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<1-31>	RTC date
hh:mm:ss	RTC hour, minute, second
MONTH	RTC month
LINE	RTC time :mmddyyyhhmmss
<2005-2099>	RTC year

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## clock source

Configures time source.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>ntp</code>	Configure NTP as time source
<code>rtc</code>	Configure RTC 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> <DAY> <MONTH> <hh:mm>] [last <1-5> <DAY> <MONTH> <hh:mm> <1-1440>] | [WORD <date> <1-31> <MONTH> <1990-2099> <hh:mm> <-840 - 840>] }`
- `default clock summer-time recurring`
- `no clock summer-time recurring`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<1-31>	Day of the month, when summer time starts/ends
day	Day of the week when summer-time recurring starts/ends (Monday, Tuesday etc)
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
MONTH	Month when summer-time recurring starts/ends (January, February etc)
<-840 - 840>	Number of minutes to add/subtract during summer time
<1-1440>	Number of minutes to add/subtract during summer-time recurring
last	Select the last day which will be specified of the month for summer-time starts/ends
<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.
recurring	Specify the summer-time dates which recur every year
hh:mm	Time in hours and minutes when summer-time recurring starts
<1-5>	Week of the month when the summer-time recurring starts/ends
<1990-2099>	Year when summer time starts/ends





# Command: clock sync-rtc-with-time-client

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## clock sync-rtc-with-time-client

Enables RTC sync with NTP/SNTP status.

### Syntax

- `clock sync-rtc-with-time-client enable`
- `no clock sync-rtc-with-time-client`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
enable	Enable RTC sync with NTP/SNTP status

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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
<code>&lt;-12 - 13&gt;</code>	Hours difference from UTC
<code>&lt;0-59&gt;</code>	Minutes difference from UTC (0, 15, 30 or 45)
<code>&lt;WORD&gt;</code>	Set time zone acronym containing at most 4 chars



# Command: configure

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## configure

Configures setting.

### Syntax

- `configure [network] [terminal] [usb]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>network</code>	Configure from a TFTP network host
<code>terminal</code>	Configure from the terminal
<code>usb</code>	Configure from USB

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## configure network

Configure from a TFTP network host

### Syntax

- `configure { [address] [filename] [load-on-boot] }`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
address	Specify address of TFTP server
filename	Specify filename of config file
load-on-boot	Specify settings for loading config file at boot time

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# Command: configure network address

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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
filename <WORD>	Specify filename of config file
A.B.C.D	TFTP Server IP address
<WORD>	TFTP Server IPv6 address

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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
<WORD>	Config file name
address	Specify address of TFTP server
[<A.B.C.D>   <WORD>]	TFTP Server IP address or TFTP Server IPv6 address

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# Command: configure network load-on-boot

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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] { { [address {A.B.C.D | <WORD> | filename <WORD>} | [filename <WORD>]} | [use-bootp]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>disable</code>	Disable loading of config file at boot time
<code>use-bootp</code>	Load config file at boot time using BOOTP
<code>use-config</code>	Load config file at boot time using configured parameters
<code>filename &lt;word&gt;</code>	Specify filename of config file
<code>[A.B.C.D]</code>	TFTP Server IP address
<code>&lt;WORD&gt;</code>	TFTP Server IPv6 address

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## configure sftp

Configures from an SFTP network host.

### Syntax

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

### Default

None

### Command mode

Privileged Executive

### Command parameters

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



# Command: configure terminal

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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>unit &lt;1-8&gt;</code>	Configure from USB of another unit in a stack
<code>filename &lt;WORD&gt;</code>	Specifies the filename of a config file.

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

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## copy config sftp

Copy configuration in a binary file to an SFTP server.

### Syntax

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

### Default

None

### Command mode

Privileged Executive

### Command parameters

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





# Command: copy config tftp

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

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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
<code>unit &lt;1-8&gt;</code>	Copies the to USB of another unit in a stack
<code>filename &lt;word&gt;</code>	Specify filename in which to store configuration on USB

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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
<code>config</code>	Load the configuration from the specified NV storage configuration block
<code>block &lt;1-2&gt;</code>	Specify configuration block number

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## copy running-config tftp

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

### Syntax

- `copy running-config tftp [verbose] [module [802.1ab] [aaur] [adac] [arp-inspection] [asset-id] [aur] [banner] [brouter] [cfm] [core] [default-cmd-interface] [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] [ module ] [ mvr ] [poe] [port-mirroring] [qos] [rate-limit] [ripng] [rmon] [rtc] [sflow] [slamon] [slpp] [snmp] [spbm] [stack] [stkmon] [stp] [tacacs] [vlacp] [vlan]] filename <file-name> address {A.B.C.D | <WORD>}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>module aaur</code>	Copies the AAUR configuration.
<code>module adac</code>	Copies the ADAC configuration.
<code>module arp-inspection</code>	Copies the ARP inspection configuration.
<code>module asset-id</code>	Copies the Asset ID configuration.
<code>module aur</code>	Copies the AUR configuration.
<code>module brouter</code>	Copies the brouter configuration.
<code>module cfm</code>	Copies the Connectivity Fault Management (CFM) configuration.
<code>module core</code>	Copies the core configuration.
<code>module banner</code>	Copies the custom banner configuration.
<code>module dhcp-relay</code>	Copies the DHCP Relay configuration.
<code>module dhcp-snooping</code>	Copies the DHCP Snooping configuration.
<code>module eap</code>	Copies the EAP configuration.
<code>module energy-saver</code>	Copies the Energy Saver configuration.
<code>verbose</code>	Copies the entire configuration (defaults and non-defaults).
<code>module fa</code>	Copies the Fabric Attach (FA) configuration.
<code>module igmp</code>	Copies the IGMP configuration.
<code>module interface</code>	Copies the interface configuration.

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

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## copy running-config usb

Copies to USB.

### Syntax

- copy running-config usb [verbose] [module [802.1ab] [aur] [adac] [arp-inspection] [asset-id] [aur] [banner] [brouter] [cfm] [core] [default-cmd-interface] 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] [ module ] [ mvr ] [poe] [port-mirroring] [qos] [rate-limit] [ripng] [rmon] [rtc] [sflow] [slamon] [slpp] [snmp] [spbm] [stack] [stkmon] [stp] [tacacs] [vlacp] [vlan]] [filename <file-name>] [unit <1-8>]

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
module 802.1ab	Copies the 802.1ab configuration.
module aaur	Copies the AAUR configuration.
module adac	Copies the ADAC configuration.
module arp-inspection	Copies the ARP inspection configuration.
module asset-id	Copies the Asset ID configuration.
module aur	Copies the AUR configuration.
module brouter	Copies the brouter configuration.
module cfm	Copies the Connectivity Fault Management (CFM) configuration.
module core	Copies the core configuration.
module banner	Copies the custom banner configuration.
module dhcp-relay	Copies the DHCP Relay configuration.
module dhcp-snooping	Copies the DHCP Snooping configuration.
module eap	Copies the EAP configuration.
module energy-saver	Copies the Energy Saver configuration.
verbose	Copies the entire configuration (defaults and non-defaults)
module fa	Copies the Fabric Attach (FA) configuration.

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

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## copy sftp

Copies configuration from SFTP server.

### Syntax

- `copy sftp`

### Default

None

### Command mode

Privileged Executive



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## copy sftp config

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

### Syntax

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

### Default

None

### Command mode

Privileged Executive

### Command parameters

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



# Command: copy sftp license

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## copy sftp license

Copy the license from SFTP server.

### Syntax

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

### Default

None

### Command mode

Privileged Executive

### Command parameters

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

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## copy tftp config

Copies to local configuration.

### Syntax

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

### Default

None

### Command mode

Privileged Executive

### Command parameters

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

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

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## copy tftp script

Copies to local script

### Syntax

- `copy tftp script {address {A.B.C.D | <WORD>} filename <file-name>} block <1-2> name<WORD>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
block <1-2>	Select block from which ascii cfg file should be copied
address	Specify address of the TFTP server
filename	Specify target filename on TFTP server to copy configuration
name <WORD>	Specify the block name
A.B.C.D	TFTP server IP address
<WORD>	TFTP server IPv6 address

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## copy usb

Copies from USB memory stick.

### Syntax

- copy usb {config | license | script} [filename <WORD>] [block <1-2> name <WORD>]

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<WORD>	Config file name on USB
script	Copies ascii config file from USB
config	Copies the configuration from usb
license	Copies the license file from USB
block <1-2>	Selects block from which ascii cfg file should be copied
name <WORD>	Specifies the block name
filename	Specify filename from which to Copies the configuration 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>`
- `default csnp-interval`
- `no csnp-interval`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>&lt;1-600&gt;</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 <code>no</code> or <code>default</code> options to set this parameter to the default value of 10.

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## ddi-logging

Sets logging of DDI (Digital Diagnostics Interface) events

### Syntax

- `ddi-logging enable`
- `default ddi-logging`
- `no ddi-logging enable`

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

Parameter	Description
<code>enable</code>	Enables DDI events logging.

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## default clock

Configure clock settings

### Syntax

- `default clock {[source] [summer-time recurring] [sync-rtc-with-time-client enable]}`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>sync-rtc-with-time-client</code>	Configure default status of synchronization of RTC with NTP/SNTP
<code>source</code>	Configure default time source
<code>summer-time</code>	Set default values for summer-time.

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## default-cost

Configures the OSPF default cost metric.

### Syntax

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

### Default

None

### Command mode

OSPF Router Configuration

### Command parameters

Parameter	Description
<code>ethernet</code>	Set default cost for ethernet interfaces
<code>fast-ethernet</code>	Set default cost for fast-ethernet interfaces
<code>gig-ethernet</code>	Set default cost for gigabit-ethernet interfaces
<code>ten-gig-ethernet</code>	Set default cost for ten-gigabit-ethernet interfaces
<code>default</code>	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; two-gig-ethernet (2500 Mbps/s): 1; ten-gig-ethernet (10000 Mb/s): 1.
<code>&lt;metric_value&gt;</code>	Specifies the default cost metric to assign to the specified port type. The metric value is an integer between 1 and 65535.

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## default-metric

Configures the default RIP metric value.

### Syntax

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

### Default

None

### Command mode

RIP Router Configuration

### Command parameters

Parameter	Description
<code>&lt;metric_value&gt;</code>	Specifies a metric value between 0 and 15

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# Command: device-role (DHCP Guard Configuration)

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## device-role (DHCP Guard Configuration)

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

### Syntax

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

### Default

The default is router.

### Command mode

DHCP Guard Configuration

### Command parameters

Parameter	Description
client	Specifies client.
server	Specifies server.

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# Command: device-role (RA Guard Configuration)

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## device-role (RA Guard Configuration)

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

### Syntax

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

### Default

The default is router.

### Command mode

RA Guard Configuration

### Command parameters

Parameter	Description
host	Configures a device as host.
router	Configures a device as router.

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# Command: diagnostics-quick-mode

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## diagnostics-quick-mode

Diagnostics quick mode.

### Syntax

- `default diagnostics-quick-mode`
- `diagnostics-quick-mode [enable]`
- `no diagnostics-quick-mode`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
enable	Enable diagnostics quick mode

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# Command: disable

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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` {[address {A.B.C.D | <WORD>}] [diag <image-name>] [image <image-name>] [image-if-newer <image-name>] no-reset} [po\_e\_module\_image <image-name>] [primary {image <image-name> | image-if-newer <image-name>}] [secondary {image <image-name> | image-if-newer <image-name>}] [usb {[diag <image-name>] | [image {<image-name>] | [po\_e\_module\_image <image-name>] | [primary {image <image-name> | image-if-newer <image-name>}] | [secondary {image <image-name> | image-if-newer <image-name>}]}}
- `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
<code>diag &lt;image-name&gt;</code>	Diagnostics image file name
<code>no-reset</code>	Do not reset the switch after downloading
<code>usb</code>	Download image from USB
<code>primary</code>	Download the primary agent image
<code>secondary</code>	Download the secondary agent image
<code>po_e_module_image &lt;image-name&gt;</code>	PoE image file name
<code>image &lt;image-name&gt;</code>	Software image
<code>image-if-newer &lt;image-name&gt;</code>	Software image if version newer
<code>address {A.B.C.D   &lt;WORD&gt;</code>	Specify IP address of TFTP server
<code>username &lt;WORD&gt;</code>	Specify the username





# Command: eapol allow-port-mirroring

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## eapol allow-port-mirroring

Enables port mirroring on eap ports.

### Syntax

- `default eapol allow-port-mirroring`
- `eapol allow-port-mirroring`
- `no 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
reauthentication enable disable	Enables or disables reauthentication for EAPOL clients
quiet-interval <0-65535>	Enter the desired number of seconds between an authentication failure and the start of a new authentication attempt.
reauthentication- period <1-604800>	Enter the desired number of seconds between reauthentication attempts
max-request <1- 10>	Enter the number of times to retry sending packets to supplicant
init	Reinitiates EAP authentication
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).
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.
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.
re-authenticate	Specifies an immediate reauthentication. NonEAP clients are not reauthenticated even if reauthentication is enabled on the port.
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).

port <LINE>

Specifies the ports to configure for EAPOL

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# Command: eapol (Global Configuration)

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## eapol (Global Configuration)

Enables/Disables EAPOL protocol.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
{disable enable}	Disable/enable EAPOL protocol

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# Command: eapol guest-vlan (Ethernet Interface Configuration)

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## eapol guest-vlan (Ethernet Interface Configuration)

Sets guest-vlan.

### Syntax

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

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

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

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# Command: eapol guest-vlan (Global Configuration)

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## eapol guest-vlan (Global Configuration)

Sets guest-vlan.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>enable</code>	Enable guest-vlan
<code>vid &lt;1-4094&gt;</code>	guest-vlan ID

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## eapol multihost (Ethernet Interface Configuration)

Sets EAPOL multihost settings.

### Syntax

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

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

Parameter	Description
mac-max <1-64>	Maximum clients per port
eap-mac-max <1-32>	Maximum number of EAP-authentication MAC addresses allowed
mhsa-no-limit	Allow an unlimited numbers of auto-learned NEAP clients on port.
adac-non-eap-enable	Allow authentication of Non-EAP Phones using ADAC
auto-non-eap-mhsa-enable	Allow auto-auth of non-EAP clients
non-eap-phone-enable	Allow non-eap phone clients
use-radius-assigned-vlan	Allow the use of VLAN IDs assigned by RADIUS
non-eap-use-radius-assigned-vlan	Allow the use of VLAN IDs assigned by RADIUS for non-EAP clients
allow-non-eap-enable	Control of non-EAP clients (MAC addresses)
eap-protocol-enable	Enable EAP protocol on port
radius-non-eap-enable	Enable RADIUS authentication of non-eap clients
	Maximum number of non-EAP-authentication MAC

non-eap-mac-max <1-32>

port <LINE>

eap-packet-mode {multicast |  
unicast}

addresses allowed

Port number on which to apply EAPOL settings

Send initial EAP requests multicast or unicast

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# Command: eapol multihost fail-open-vlan (Ethernet Interface Configuration)

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## eapol multihost fail-open-vlan (Ethernet Interface Configuration)

Sets fail-open-vlan.

### Syntax

- `default eapol multihost fail-open-vlan [port <LINE>] [enable] [vid] [ubp]`
- `eapol multihost fail-open-vlan [port <LINE>] [enable] [vid {<1-4094> | global | port-pvid}] [ubp <WORD>]`
- `no eapol multihost fail-open-vlan [port <LINE>] [enable] [ubp]`

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

Parameter	Description
<code>enable</code>	Enable fail-open-vlan
<code>port-pvid</code>	Enable fail-open-vlan port-pvid mode
<code>vid &lt;1-4094&gt;</code>	Fail-open-vlan ID
<code>global</code>	Global fail-open-vlan ID
<code>port &lt;LINE&gt;</code>	Port number on which to enable fail-open-vlan
<code>ubp</code>	User Base Policy when FOV is active

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# Command: eapol multihost fail-open-vlan (Global Configuration)

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## eapol multihost fail-open-vlan (Global Configuration)

Sets fail-open-vlan.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>enable</code>	Enable fail-open-vlan
<code>continuity-mode</code>	Enable fail-open-vlan continuity-mode
<code>vid &lt;1-4094&gt;</code>	fail-open-vlan ID

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# Command: eapol multihost (Global Configuration)

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## eapol multihost (Global Configuration)

Sets EAPOL multihost settings of port.

### Syntax

- `default eapol multihost [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] [radius-non-eap-delay] [eap-packet-mode] [eap-protocol-enable] [non-eap-reauthentication-enable] [adac-non-eap-enable]`
- `eapol multihost [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] [radius-non-eap-delay <0-20>] [eap-packet-mode { multicast | unicast }] [eap-protocol-enable] [non-eap-reauthentication-enable] [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] [non-eap-use-radius-assigned-vlan] [eap-protocol-enable] [non-eap-reauthentication-enable] [adac-non-eap-enable]`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>adac-non-eap-enable</code>	Allow authentication of Non-EAP Phones using ADAC
<code>auto-non-eap-mhsa-enable</code>	Allow auto-auth of non-EAP clients
<code>non-eap-phone-enable</code>	Allow non-eap phone clients
<code>use-radius-assigned-vlan</code>	Allow the use of VLAN IDs assigned by RADIUS
<code>non-eap-use-radius-assigned-vlan</code>	Allow the use of VLAN IDs assigned by RADIUS for non-EAP clients
<code>allow-non-eap-enable</code>	Control of non-EAP clients (MAC addresses)
<code>eap-protocol-enable</code>	Enable EAP protocol on port
<code>radius-non-eap-enable</code>	Enable RADIUS authentication of non-eap clients
<code>non-eap-reauthentication-enable</code>	Enable re-authentication for non-EAP clients

eap-packet-mode  
radius-non-eap-delay  
<0-20>

Select type of packet used for initial eap request for ids  
Specifies the delay (sec) between learning a new MAC and trying to  
authenticate it via RADIUS.

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# Command: eapol multihost multivlan

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## eapol multihost multivlan

Sets EAPOL multihost multiVlan.

### Syntax

### Default

None

### Command mode

Global Configuration

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# Command: eapol multihost non-eap-mac

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## eapol multihost non-eap-mac

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

### Syntax

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

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

Parameter	Description
<code>default-all</code>	Default all local NEAP clients
<code>delete-all</code>	Delete all local NEAP clients
<code>port &lt;portlist&gt;</code> <code>&lt;H.H.H&gt;</code>	The list of ports on which you want to allow the specified non EAPOL hosts The MAC address of the allowed non EAPOL host

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## eapol multihost non-eap-pwd-fmt

Sets bits in RADIUS non-EAPOL password format.

### Syntax

- `default eapol multihost non-eap-pwd-fmt { [padding ] [ip-addr] [mac-addr] [port-number] key | key-string }`
- `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

None

### Command mode

Global Configuration

### Command parameters

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



# Command: eapol multihost non-eap-user-based-policies

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## eapol multihost non-eap-user-based-policies

Enables non-EAPOL user-based policies.

### Syntax

- `default eapol multihost non-eap-user-based-policies [enable] filter-on-mac enable`
- `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

None

### Command mode

Global Configuration

### Command parameters

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

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## eapol multihost voip-vlan

Sets voip-vlan.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>enable</code>	Enable voip-vlan
<code>&lt;1-5&gt;</code>	Number of voip vlan
<code>vid &lt;1-4094&gt;</code>	voip-vlan ID



# Command: eapol multivlan(Ethernet Interface Configuration)

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## eapol multivlan(Ethernet Interface Configuration)

Sets EAPOL MHMV on ports.

### Syntax

- `eapol multivlan auto-config port <LINE>`

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

Parameter	Description
<code>port &lt;LINE&gt;</code>	Apply auto config on ports
<code>auto-config</code>	Apply auto config MHMV settings on ports

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# Command: eapol multivlan(Global Configuration)

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## eapol multivlan(Global Configuration)

Sets EAPOL MHMV on ports.

### Syntax

- `eapol multivlan auto-config port <LINE>`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>port &lt;LINE&gt;</code>	Apply auto config on ports
<code>auto-config</code>	Apply auto config MHMV settings on ports

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# Command: eapol radius-dynamic-server enable

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## eapol radius-dynamic-server enable

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

### Syntax

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

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

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

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## eapol user-based-policies

Enables EAPOL user-based policies

### Syntax

- `default eapol user-based-policies {enable | filter-on-mac}`
- `eapol user-based-policies {enable | filter-on-mac}`
- `no eapol user-based-policies {enable | filter-on-mac}`

### Default

None

### Command mode

Global Configuration

### Command parameters

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

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## edm help-file-path

Sets the EDM help file path.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

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



# Command: edm inactivity-timeout

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## edm inactivity-timeout

Sets the EDM inactivity timeout.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>&lt;30 - 65535&gt;</code>	seconds

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# Command: enable (Privileged Executive)

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## enable (Privileged Executive)

Turns on privileged commands.

### Syntax

- enable

### Default

None

### Command mode

Privileged Executive

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# Command: enable (User Executive)

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## enable (User Executive)

Turns on privileged commands.

### Syntax

- enable

### Default

None

### Command mode

User Executive

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# Command: end (Application Configuration)

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## end (Application Configuration)

Exits from configure mode.

### Syntax

- end

### Default

None

### Command mode

Application Configuration

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# Command: end (DHCP Guard Configuration)

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## end (DHCP Guard Configuration)

Exits from configure mode.

### Syntax

- end

### Default

None

### Command mode

Ethernet Interface Configuration

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# Command: end (Ethernet Interface Configuration)

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## end (Ethernet Interface Configuration)

Exits from configure mode.

### Syntax

- end

### Default

None

### Command mode

Ethernet Interface Configuration

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# Command: end (Global configuration)

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## end (Global configuration)

Exits from configure mode.

### Syntax

- end

### Default

None

### Command mode

Global Configuration

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# Command: end (ISIS Router 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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# Command: end (Loopback Interface Configuration)

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## end (Loopback Interface Configuration)

Exits from Loopback Configuration mode.

### Syntax

- end

### Default

None

### Command mode

Loopback Interface Configuration

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# Command: end (OSPF 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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# Command: end (RA Guard Configuration)

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## end (RA Guard Configuration)

Exits from RA Guard configure mode.

### Syntax

- end

### Default

None

### Command mode

RIP Router Configuration

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# Command: end (RIP Router Configuration)

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## end (RIP Router Configuration)

Exits from router configure mode.

### Syntax

- end

### Default

None

### Command mode

RIP Router Configuration

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# Command: end (VLAN Interface 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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# Command: end (VRRP Router 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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# Command: energy-saver (Ethernet Interface Configuration)

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## energy-saver (Ethernet Interface Configuration)

Configures per-port energy saver settings.

### Syntax

- `default energy-saver [enable] [port <portlist> enable]`
- `energy-saver [enable] [port <portlist> enable]`
- `no 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 &lt;LINE&gt;</code>	Specify list of ports

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# Command: energy-saver (Global configuration)

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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
<code>efficiency-mode</code>	Enable Efficiency mode
<code>enable</code>	Enable energy saver
<code>poe-power-saving</code>	Enable POE power saving

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# Command: energy-saver (Privileged Executive)

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## energy-saver (Privileged Executive)

Manually activates or deactivate energy saver.

### Syntax

- energy-saver {activate | deactivate}

### Default

None

### Command mode

Privileged Executive

### Command parameters

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

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## energy-saver schedule

Configures energy saver activation/deactivation schedule.

### Syntax

- `default energy-saver schedule { {sunday | monday | tuesday | wednesday | thursday | friday | saturday | weekday | weekend} <hh:mm>`
- `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

None

### Command mode

Global Configuration

### Command parameters

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



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## enhanced-secure-mode

Enables or disables Enhanced Secure Mode.

### Syntax

- `enhanced-secure-mode {enable | disable}`
- `{no | default} enhanced-secure-mode`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>disable</code>	Disables Enhanced Secure Mode.
<code>no</code>	Disables Enhanced Secure Mode.
<code>enable</code>	Enables Enhanced Secure Mode.



# Command: exit (Application Configuration)

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## exit (Application Configuration)

Exits from application configuration mode.

### Syntax

- exit

### Default

None

### Command mode

Application Configuration

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# Command: exit (DHCP Guard Configuration)

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## exit (DHCP Guard Configuration)

Exits from the DHCP Guard configuration mode.

### Syntax

- exit

### Default

None

### Command mode

Application Configuration

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# Command: exit (Ethernet Interface 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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# Command: exit (Global configuration)

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## exit (Global configuration)

Exits from configure mode.

### Syntax

- exit

### Default

None

### Command mode

Global Configuration

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# Command: exit (ISIS Router 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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# Command: exit (Loopback Interface Configuration)

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## exit (Loopback Interface Configuration)

Exits from Loopback Interface Configuration mode.

### Syntax

- exit

### Default

None

### Command mode

Loopback Interface Configuration

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# Command: exit (OSPF 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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# Command: exit (Privileged Executive)

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## exit (Privileged Executive)

Exits from the EXEC.

### Syntax

- exit

### Default

None

### Command mode

Privileged Executive

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# Command: exit (RA Guard Configuration)

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## exit (RA Guard Configuration)

Exits from RA Guard configuration mode.

### Syntax

- exit

### Default

None

### Command mode

RIP Router Configuration

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# Command: exit (RIP Router Configuration)

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## exit (RIP Router Configuration)

Exits from router configuration mode.

### Syntax

- exit

### Default

None

### Command mode

RIP Router Configuration

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# Command: exit (User Executive)

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## exit (User Executive)

Exits from the EXEC.

### Syntax

- exit

### Default

None

### Command mode

User Executive

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# Command: exit (VLAN Interface Configuration)

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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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# Command: exit (VRRP Router 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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# Command: fa

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## fa

Configures Fabric Attach.

### Syntax

- default fa {authentication-key | auto-provision | message-authentication | port-enable | proxy | vlan| zero-touch |zero-touch-options | zero-touch-client}

### Default

Enabled

### Command mode

Global Configuration

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# Command: fa authentication-key

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## fa authentication-key

Configure Fabric Attach authentication key.

### Syntax

- fa authentication-key

### Default

None

### Command mode

Global Configuration

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## fa auto-provision

Configure Fabric Attach auto provision setting.

### Syntax

- `fa auto-provision {proxy |server}`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>proxy</code>	Configure Fabric Attach auto provision setting as proxy.
<code>server</code>	Configure Fabric Attach auto provision setting as server.

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# Command: fa extended-logging

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## fa extended-logging

Enables Fabric Attach extended logging

### Syntax

- fa extended-logging

### Default

None

### Command mode

Global Configuration

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# Command: fa message-authentication

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## fa message-authentication

Enable Fabric Attach message authentication.

### Syntax

- `fa message-authentication [<PortList>] [key-mode <strict | standard>]`

### Default

Enabled

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>key-mode &lt;strict   standard&gt;</code>	Specifies the Authentication key usage setting.

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## fa port-enable

Enables the Fabric Attach operation for each port.

### Syntax

- fa port-enable <LINE>

### Default

Enabled

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<LINE>	Enables the Fabric Attach operation for each port.

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# Command: fa proxy

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## fa proxy

Enable Fabric Attach client proxy.

### Syntax

- `fa proxy`

### Default

None

### Command mode

Global Configuration

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## fa uplink

Configures Fabric Attach uplink data

### Syntax

- `fa uplink {port <port> | trunk <trunkId>}`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>port &lt;port&gt;</code>	Specifies the uplink port.
<code>trunk &lt;trunkId&gt;</code>	Specifies the uplink trunk.

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# Command: fa vlan

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## fa vlan

Configure Fabric Attach VLANs.

### Syntax

- fa vlan

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<LINE>	Enable Fabric Attach client proxy.

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# Command: fa zero-touch

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## fa zero-touch

Enable Fabric Attach Zero Touch.

### Syntax

- fa zero-touch

### Default

None

### Command mode

Global Configuration

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## fa zero-touch-client

Configure Fabric Attach Zero Touch Client specifications.

### Syntax

- fa zero-touch-client standard {camera | ona-sdn | ona-spb-over-ip | phone | router | security-dev | srvr-endpt | switch | video | virtual-switch | wap-type1 | wap-type2} vlan <VLAN> [i-sid <ISID>] [priority <Priority>] [keep-static]

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
phone	Specifies the client type as IP Phone
ona-spb-over-ip	Specifies the client type as ONA (SpbOlp)
i-sid <0-16777214>	Specifies the client I-SID for I-SID/VLAN binding generation.
priority <0-7>	Specifies the client port priority.
camera	Specifies the client type as IP Camera
video	Specifies the client type as IP Video
ona-sdn	Specifies the client type as ONA (SDN)
router	Specifies the client type as Router
security-dev	Specifies the client type as Security Device
srvr-endpt	Specifies the client type as Server Endpoint
switch	Specifies the client type as Switch
virtual-switch	Specifies the client type as Virtual Switch
wap-type1	Specifies the client type as Wireless AP (Type 1)
wap-type2	Specifies the client type as Wireless AP (Type 2)
standard	Specifies the Standard (pre-defined) client type.
vlan <1-4094>	Specifies the VLAN ID.

`keep-static`

Specifies whether static VLANs should be kept or removed on the client port for the duration of the client connection.

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## fa zero-touch-options

Configure Fabric Attach Zero Touch option settings.

### Syntax

- fa zero-touch-options {{auto-port-mode-fa-client | auto-pvid-mode-fa-client | auto-trusted-mode-fa-client | auto-client-attach} [client-type <6-17>] | ip-addr-dhcp}

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
auto-pvid-mode-fa-client	Automates client PVID/Mgmt VLAN updates.
ip-addr-dhcp	Automates IP address source mode to DHCP.
auto-port-mode-fa-client	Automates the configuration of EAP port modes for clients.
auto-client-attach	Enables automated client attach configuration.
auto-trusted-mode-fa-client	Enables automatic trusted FA Client connection.
client-type	Specifies the FA Client type for which to automate operations.

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## flowcontrol

Configures flow control mode of a port.

### Syntax

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

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

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

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## help (Privileged Executive)

Description of the interactive help system.

### Syntax

- help {commands mode {application | config | current | | dhcp-guard | exec | ifconfig | interface {Ethernet | loopback | | mgmt | mlt | vlan} | privExec | ra-guard | router {isis | ospf | rip | vrrp}} | modes

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
modes	Displays available modes
commands	Displays commands available
application	Displays commands available in Application Configuration mode
current	Displays commands available in current configuration mode
exec	Displays commands available in executive mode
config	Displays commands available in Global Configuration mode
ifconfig	Displays commands available in Interface Configuration mode
interface	Displays commands available in Interface Configuration modes
privExec	Displays commands available in Privileged Executive mode
router	Displays commands available in Router Configuration modes
mode	Displays commands available on specific mode
dhcp-guard	Shows commands available in DHCP-Guard Mode
mlt	Shows commands available in MLT Interface Configuration Mode
ra-guard	Shows commands available in RA-Guard Mode

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## help (User Executive)

Description of the interactive help system.

### Syntax

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

### Default

None

### Command mode

User Executive

### Command parameters

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

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## hop-limit

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

### Syntax

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

### Default

The default is 0.

### Command mode

RA Guard Configuration

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## host-route

Adds a host to a router.

### Syntax

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

### Default

None

### Command mode

OSPF Router Configuration

### Command parameters

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



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## http-port

Sets the TCP port on which web server will listen.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<1024-65535>	http port number



# Command: https-only

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## https-only

Enables HTTPS only. When SSL is enabled, the web server will listen only on HTTPS port.

### Syntax

- default https-only
- https-only
- no https-only

### Default

None

### Command mode

Global Configuration

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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

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

### Default

10

### Command mode

VLAN Interface Configuration

### Command parameters

Parameter	Description
<code>default</code>	Sets the last member query interval to the default value of 10.
<code>&lt;0-255&gt;</code>	Specifies the last member query interval value in 1/10 of a second. Values range from 0 to 255. You should configure this parameter to values higher than 3. If a fast leave process is not required, values above 10 are recommended.

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## igmp query-interval

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

### Syntax

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

### Default

125

### Command mode

VLAN Interface Configuration

### Command parameters

Parameter	Description
<code>default</code>	Sets the query interval to the default value of 125 seconds
<code>&lt;1-65535&gt;</code>	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

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

### Default

100

### Command mode

VLAN Interface Configuration

### Command parameters

Parameter	Description
default	Sets the maximum query response time to the default value of 100.
<0-255>	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

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

### Default

None

### Command mode

VLAN Interface Configuration



# Command: install

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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> | mgmt <1-8> | loopback <1-16> | vlan <1-4094>}

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
Ethernet	Specifies the Ethernet IEEE 802.3 interface.
vlan <1-4094>	Specifies the Layer 3 IP VLAN interface.
loopback <1-16>	Specifies the loopback interface.
mgmt <1-8>	Specifies the mgmt interface.
<LINE>	Specifies the port list.



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## ip address (Global Configuration)

Sets switch/stack IP address.

### Syntax

- default ip address <source>
- 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

None

### Command mode

Global Configuration

### Command parameters

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





# Command: ip address (Loopback Interface Configuration)

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## ip address (Loopback Interface Configuration)

Assigns an IP address to a Loopback Interface.

### Syntax

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

### Default

None

### Command mode

Loopback Interface Configuration

### Command parameters

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

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# Command: ip address (VLAN Interface Configuration)

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## ip address (VLAN Interface Configuration)

Assigns an IP address to a VLAN.

### Syntax

- ip address {A.B.C.D} <subnet\_mask> [ <1-256> ]
- no ip address {A.B.C.D} <subnet\_mask> [ <1-256> ] [secondary]

### Default

None

### Command mode

VLAN Interface Configuration

### Command parameters

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

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# Command: ip area (Loopback Interface Configuration)

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## ip area (Loopback Interface Configuration)

Assigns a Loopback Interface to an area.

### Syntax

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

### Default

None

### Command mode

Loopback Interface Configuration

### Command parameters

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

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# Command: ip arp-inspection (Ethernet Interface Configuration)

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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

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

### Default

untrusted

### Command mode

Ethernet Interface Configuration

### Command parameters

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

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# Command: ip arp-inspection (Global Configuration)

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## ip arp-inspection (Global Configuration)

Enables ARP inspection.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

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

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## ip arp-proxy

Configures proxy ARP status on a VLAN.

### Syntax

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

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

### 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

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

### Default

None

### Command mode

Global Configuration

### Command parameters

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

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## ip default-gateway

Specifies default gateway (if not routing IP).

### Syntax

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

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

### Default

None

### Command mode

Global Configuration

### Command parameters

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



# Command: ip dhcp-relay (Ethernet Interface Configuration)

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## ip dhcp-relay (Ethernet Interface Configuration)

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

### Syntax

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

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

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

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## ip dhcp-relay (Global Configuration)

Enables DHCP relay.

### Syntax

- `default ip dhcp-relay {max-frame | option82}`
- `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

None

### Command mode

Global Configuration

### Command parameters

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

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## ip dhcp-relay (VLAN Interface Configuration)

Configures DHCP relay for a vlan.

### Syntax

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

### Default

None

### Command mode

VLAN Interface Configuration

### Command parameters

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

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





# Command: ip dhcp-snooping (Ethernet Interface Configuration)

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## ip dhcp-snooping (Ethernet Interface Configuration)

Configures DHCP snooping port settings.

### Syntax

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

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

Parameter	Description
<code>port &lt;portlist&gt;</code>	Specifies a port or group of ports
<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>trusted</code>	When selected, the port or ports automatically forward DHCP replies.
<code>untrusted</code>	When selected, the port or ports filter DHCP replies through DHCP snooping.

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# Command: ip dhcp-snooping external-save

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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>}] | [sftp {[<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
filename <WORD>	DHCP snooping binding table external file name
enable	Enables DHCP snooping binding table external saving.
WORD	IPv6 address of TFTP server
tftp	Save the DHCP snooping binding table on a TFTP server
usb	Save the DHCP snooping binding table on USB
sftp	Saves the DHCP snooping binding table on a SFTP server.
unit <1-8>	USB unit number on which to save the DHCP snooping binding table



# Command: ip dhcp-snooping (Global Configuration)

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## ip dhcp-snooping (Global Configuration)

Configures DHCP snooping settings.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

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

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# Command: ip dhcp-snooping (Privileged Executive)

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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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# Command: ip directed-broadcast

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## ip directed-broadcast

Enabled directed broadcast forwarding.

### Syntax

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

### Default

None

### Command mode

VLAN Interface Configuration

### Command parameters

Parameter	Description
enable	Enable IP directed broadcast

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## ip domain-name

Configures DNS domain name.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<LINE>	DNS domain name

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## ip forward-protocol

Configures broadcast forwarding.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

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

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## ip forward-protocol udp (VLAN Interface Configuration)

Associates a UDP forwarding list with a VLAN interface.

### Syntax

- `default ip forward-protocol udp [vlan <vid>] [broadcastmask] [maxttl]`
- `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

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 fwd-nh (Global configuration mode)

Configure IP forwarding next-hop settings

### Syntax

- ip fwd-nh [enable] [policy <WORD> match source-ip <A.B.C.D/<0-32> { [port-min <0-65535> port-max <0-65535>] [port-type <both | tcp | udp>] [set next-hop <A.B.C.D> [secondary-next-hop <A.B.C.D>]]]

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
enable	Enables the IP forwarding next-hop feature.
policy <WORD>	Name of next-hop forwarding policy.
match	Policy matching parameters
source-ip A.B.C.D/<0-32>	Source IP address and mask length to be matched.
port-type <both   tcp   udp>	Specifies destination port type.
secondary-next-hop <A.B.C.D>	Specifies IP address of secondary next-hop IP forwarding next-hop
set next-hop <A.B.C.D>	Specifies next-hop IP address
port-min <0-65535> port-max <0-65535>	Specifies the minimum and maximum L4 destination port value.



# Command: ip fwd-nh (VLAN Interface Configuration)

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## ip fwd-nh (VLAN Interface Configuration)

Configure IP forwarding next-hop configuration settings

### Syntax

- ip fwd-nh {[admin-status [disable] | [enable] ]| [policy [word] [mode] [drop] [normal-routing]]}

### Default

None

### Command mode

VLAN Interface Configuration

### Command parameters

Parameter	Description
admin-status <disable enable>	Specifies IP forwarding administrative status for all policies.
policy <WORD>	Specify the name of the next-hop forwarding policy.

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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

- `default ip igmp { [profile <1-65535>] | [ssm [dynamic-learning group-range ...]] | [ssm-map <A.B.C.D> enable] }`
- `ip igmp { [flush {all | vlan <1-4094> | ethernet <LINE>} [grp-member] [mrouter] [stream] ] | [ profile <1-65535> ] | [ssm [dynamic-learning] [group-range <A.B.C.D>/<0-32>]] | [ssm-map <A.B.C.D> <A.B.C.D> enable<A.B.C.D>] }`
- `no ip igmp { [profile <1-65535>] | [ssm dynamic-learning] | [ssm-map <A.B.C.D> enable] }`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>ssm</code>	Configure global SSM settings
<code>group-range &lt;A.B.C.D&gt;/&lt;0-32&gt;</code>	Configure SSM group range IP/mask
<code>profile &lt;1-65535&gt;</code>	Create/modify IGMP filter profile
<code>ssm-map &lt;A.B.C.D&gt;</code>	Create/modify SSM map/channel
<code>dynamic-learning</code>	Enable SSM dynamic learning
<code>grp-member</code>	Flush IGMP group member
<code>mrouter</code>	Flush IGMP Mrouter
<code>flush</code>	Flush IGMP Mrouter, group member, or sender
<code>stream</code>	Flush IGMP streams
<code>Ethernet</code>	Flush on Ethernet ports
<code>vlan &lt;1-4094&gt;</code>	Flush on vlan interfaces
<code>&lt;LINE&gt;</code>	List of ports

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## ip igmp mrouter

Adds one or more static mrouter ports to a VLAN.

### Syntax

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

### Default

None

### Command mode

VLAN Interface Configuration

### Command parameters

Parameter	Description
<code>&lt;port_list&gt;</code>	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

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

- default ip igmp robust-value <2-255>
- 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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# Command: ip igmp router-alert

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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

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

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

### Default

None

### Command mode

VLAN Interface Configuration

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## ip igmp snoop-querier-addr

Configures the address of the IGMP snoop querier.

### Syntax

- `default ip igmp snoop-querier-addr`
- `ip igmp snoop-querier-addr {A.B.C.D}`
- `no ip igmp snoop-querier-addr`

### Default

The default value is 0.0.0.0.

### Command mode

VLAN Interface Configuration

### Command parameters

Parameter	Description
{A.B.C.D}	Specifies the IP address.

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## ip igmp version

Configures the IGMP version running on the VLAN.

### Syntax

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

### Default

IGMPv2

### Command mode

VLAN Interface Configuration

### Command parameters

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

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# Command: ip igmp (VLAN Interface Configuration)

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## ip igmp (VLAN Interface Configuration)

Creates a new IGMP interface.

### Syntax

- default ip igmp
- ip igmp
- no ip igmp

### Default

None

### Command mode

VLAN Interface Configuration

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# Command: ip ipfix collector

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## ip ipfix collector

Configures IPFIX collectors.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

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

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# Command: ip ipfix enable

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## ip ipfix enable

Enables IPFIX.

### Syntax

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

### Default

None

### Command mode

Global Configuration

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# Command: ip ipfix (Ethernet Interface Configuration)

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## ip ipfix (Ethernet Interface Configuration)

Enables IPFIX for one or more ports.

### Syntax

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

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

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

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# Command: ip ipfix (Global Configuration)

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## ip ipfix (Global Configuration)

Configures IPFIX.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

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

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# Command: ip ipfix (Privileged Executive)

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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
export-and-flush	Export and flush ipfix data
flush	Flush ipfix port data
port<LINE>	Specify ports

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## ip ipfix slot

Configures IPFIX per-slot/unit settings.

### Syntax

- default ip ipfix slot <LINE> aging-interval
- ip ipfix slot <LINE> aging-interval <0-2147400> | active-timeout <1-60>
- default ip ipfix slot <LINE> active-timeout

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
active-timeout <1-60>	Set the active timeout value (mins).
aging-interval <0-2147400> <LINE>	Set the aging interval value (seconds) slot list (1 for standalone; 1- n for n high stack)

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## ip isis

Applies ISIS policy/redistribute configuration

### Syntax

- `ip isis apply redistribute {direct |static}`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>apply</code>	Apply ISIS policy/redistribute configuration
<code>redistribute</code>	Apply ISIS redistribute configurations
<code>direct</code>	Only apply direct redistribute configuration
<code>static</code>	Only apply static redistribute configuration

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## ip isis maximum-path

Sets the maximum number of ECMP path for ISIS routes.

### Syntax

- `ip isis maximum-path <1-4>`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<1-4>	Specifies the ECMP path value.

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## ip mgmt

Configures management information.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

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

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# Command: ip mgmt address

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## ip mgmt address

Configures management IP address.

### Syntax

- ip mgmt address { [<A.B.C.D> {<A.B.C.D> [default-gateway A.B.C.D] [default-gateway A.B.C.D]} [netmask <A.B.C.D> { [default-gateway A.B.C.D]}] [stack] [switch]

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<A.B.C.D>	IP address
switch	Local management address
stack	Management IP address of the stack
netmask <A.B.C.D>	Set management subnet mask

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# Command: ip mgmt default-gateway

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## ip mgmt default-gateway

Specify management default gateway (if not routing IP).

### Syntax

- ip mgmt default-gateway {<A.B.C.D>}

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<A.B.C.D>	Specify management default gateway (if not routing IP)

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## ip mgmt limit

Set the pps limit at which the OOB port will be automatically shutdown.

### Syntax

- ip mgmt limit <50-10000>

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<50-10000>	Specify the pps limit at which the OOB port will be automatic shutdown



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## ip mgmt netmask

Set management subnet mask.

### Syntax

- `ip mgmt netmask { [<A.B.C.D>] [unit <1-8> A.B.C.D] }`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>&lt;A.B.C.D&gt;</code>	Management subnet mask
<code>unit &lt;1-8&gt;</code>	Set the management subnet mask of another unit in a stack

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## ip mgmt route

Configure a static route for the mgmt vlan.

### Syntax

- ip mgmt route [<A.B.C.D>] [<A.B.C.D>] [<A.B.C.D>]

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<A.B.C.D>	Destination IP
<A.B.C.D>	Destination subnet mask
<A.B.C.D>	Gateway IP

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## ip mgmt shutdown

Shutdown the mgmt port.

### Syntax

- ip mgmt shutdown [all] [unit <1-8>]

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
all	Disable the management port of all units in a stack
unit <1-8>	Disable the management port of another unit in a stack

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## ip mgmt shutdown-interval

Set the mgmt port shutdown time.

### Syntax

- `ip mgmt shutdown-interval <0-180>`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>&lt;0-180&gt;</code> seconds	0 signifies shutdown without auto-recovery

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## ipmgr

Modifies IP Manager settings.

### Syntax

- `default ipmgr {snmp|telnet|web|source-ip <list ID>}`
- `ipmgr {snmp|telnet|web|source-ip <list ID> <IPaddr> [mask <mask>]}`
- `no 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
telnet	Enable IP Manager control over TELNET sessions
web	Enable IP Manager control over WEB connections
source-ip {<1-50>   <50-100> <WORD>}	Set source IP address from which connections are allowed

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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 ospf apply

Applies OSPF policy/redistribute configuration.

### Syntax

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

### Default

None

### Command mode

Privileged Executive

### Command parameters

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

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## ip ospf (Ethernet Interface Configuration)

Configures OSPF for an interface.

### Syntax

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

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

Parameter	Description
<code>priority &lt;0-255&gt;</code>	Assigns a priority to the interface for the purposes of Designated Router election. This is an integer value between 0 and 255.
<code>authentication-key &lt;WORD&gt;</code>	Configure interface authentication password
<code>retransmit-interval &lt;1-3600&gt;</code>	Defines the number of seconds between link state advertisement retransmissions for adjacencies belonging to this interface. This is an integer value between 1 and 3600.
<code>transit-delay &lt;1-3600&gt;</code>	Defines the transit delay for this OSPF interface in seconds. The transit delay is the estimated number of seconds it takes to transmit a link-state update over the interface. This is an integer value between 1 and 3600.
<code>network {broadcast   passive}</code>	Defines the type of OSPF interface this interface is.
<code>enable</code>	Enable OSPF on an interface
<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



<code>mtu-ignore enable</code>	advertise the route. Instructs the interface to ignore the packet MTU size specified in Database Descriptors.
<code>authentication-type {message-digest   none   simple}</code>	Select interface authentication type
<code>primary-md5-key &lt;1-255&gt;</code>	Select MD5 key used for transmit
<code>port &lt;LINE&gt;</code>	Select port(s) for operation
<code>dead-interval &lt;1-2147483647&gt;</code>	Specifies a dead interval for the interface. This is the interval of time that a neighbor waits for a Hello packet from this interface before the neighbor declares it down. This is an integer value between 1 and 2147483647.
<code>hello-interval &lt;1-65535&gt;</code>	Specifies the amount of time between transmission of hello packets from this interface. This is an integer value between 1 and 65535.
<code>cost &lt;1-65535&gt;</code>	Specifies the cost assigned to the interface. This is an integer value between 1 and 65535.
<code>area {A.B.C.D}</code>	Specifies the unique ID of the area to which the interface connects. An area ID of 0.0.0.0 indicates the OSPF area backbone and is created automatically by the switch.



# Command: ip ospf (Loopback Interface Configuration)

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## ip ospf (Loopback Interface Configuration)

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

### Syntax

- `default ip ospf`
- `ip ospf`
- `no ip ospf`

### Default

None

### Command mode

Loopback Interface Configuration

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

Configure MD5 key for interface.

### Syntax

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

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

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



# Command: ip ospf message-digest-key (VLAN Interface Configuration)

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

Configure MD5 key for interface.

### Syntax

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

### Default

None

### Command mode

VLAN Interface Configuration

### Command parameters

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

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# Command: ip ospf spf-run

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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

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

### Default

None

### Command mode

VLAN Interface Configuration

### Command parameters

Parameter	Description
<code>priority &lt;0-255&gt;</code>	Assigns a priority to the interface for the purposes of Designated Router election. This is an integer value between 0 and 255.
<code>authentication-key &lt;WORD&gt;</code>	Configure interface authentication password
<code>retransmit-interval &lt;1-3600&gt;</code>	Defines the number of seconds between link state advertisement retransmissions for adjacencies belonging to this interface.
<code>transit-delay &lt;1-3600&gt;</code>	Defines the transit delay for this OSPF interface in seconds. The transit delay is the estimated number of seconds it takes to transmit a link-state update over the interface. This is an integer value between 1 and 3600.
<code>network &lt;broadcast   passive&gt;</code>	Defines the type of OSPF interface this interface is.
<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>mtu-ignore enable</code>	Instructs the interface to ignore the packet MTU size specified in Database

## Descriptors.

authentication-  
type {message-  
digest | none  
|simple}

Select interface authentication type

primary-md5-key  
<1-255>

Select MD5 key used for transmit

vlan <1-4094>

Select VLAN ID

dead-interval <1-  
2147483647>

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  
<1-65535>

Specifies the amount of time between transmission of hello packets from this interface.

cost <1-65535>

Specifies the cost assigned to the interface.

area {A.B.C.D}

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 pim

Configure global Protocol Independent Multicast (PIM) settings.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

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



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## ip pim rp-candidate group

Configure a dynamic C-RP.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

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

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## ip pim static-rp

Configure a Protocol Independent Multicast (PIM) static RP.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

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

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## ip pim virtual-neighbor

Configure a Protocol Independent Multicast (PIM) virtual neighbor.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

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

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# Command: ip pim (VLAN Interface Configuration)

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## ip pim (VLAN Interface Configuration)

Configure global Protocol Independent Multicast (PIM) settings.

### Syntax

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

### Default

None

### Command mode

VLAN Interface Configuration

### Command parameters

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

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

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## ip rip (Ethernet Interface Configuration)

Configures RIP parameters on an interface.

### Syntax

- [default] [no] ip rip in-policy <rmap\_name>
- [default] [no] ip rip out-policy <rmap\_name>
- 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]
- 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

None

### Command mode

Ethernet Interface Configuration

### Command parameters

Parameter	Description
in-policy <WORD>	Add in-policy on this interface.
out-policy <WORD>	Add out-policy on this interface.
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.
triggered enable	Enables automatic triggered updates on this RIP interface. Default is disabled.
proxy- announce enable	Enables proxy announcements on a RIP interface. When proxy announcements are enabled, the source of a route and its next hop are treated as the same when processing received updates. So, instead of the advertising router being used as the source, the next hop is. Proxy announcements are disabled by default.
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.
enable	Enables RIP on the interface.
supply enable	Enables RIP route advertisements on this interface. The default value is enabled.
default- listen enable	Enables the interface to accept default routes learned through RIP updates. The default setting is disabled.
default- supply enable	Enables the interface to send default route information in RIP updates. This setting takes effect only if a default route exists in the routing table. The default setting is disabled
listen enable	Enables this interface to listen for RIP advertisements. The default value is enabled.
port <LINE>	Select ports.
holddown {<holddown>   <global>}	Specifies the interface holddown timer, which is the length of time (in seconds) that RIP maintains a route in the garbage list after determining that it is unreachable. <holddown> — overrides the global parameter and does not change if the global parameter is modified. Range is 0–360 seconds; <global> — default global holddown parameter (120 seconds).
cost <cost>	Specifies the RIP cost (metric) for this interface in a range from 1 to 15. The default cost is 1.
timeout <timeout>   <global>	Specifies the RIP timeout value on this interface. If a RIP interface does not receive an update from another RIP router within the configured timeout period, it moves the routes advertised by the nonupdating router to the garbage list. The timeout interval must be greater than the update timer. <timeout> — sets the interface timeout. Value ranges from 15 to 259200 seconds. <global> — sets the timeout to the global default (180 seconds). The interface timer setting overrides the global parameter and does not change if the global parameter is changed.
receive version {rip1   rip1orrip2   rip 2}	Specifies the RIP version received on this interface. Default is rip1orrip2.
send version {notsend   rip1   rip1comp   rip 2}	Specifies the RIP version sent on an interface. Default is rip1compatible
	Specifies whether RIP routes on the interface learned from a neighbor are advertised

poison  
enable

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.

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# Command: ip rip (VLAN Interface Configuration)

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## ip rip (VLAN Interface Configuration)

Configures RIP settings.

### Syntax

- [default] [no] ip rip in-policy <rmap\_name>
- [default] [no] ip rip out-policy <rmap\_name>
- 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]
- 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

None

### Command mode

VLAN Interface Configuration

### Command parameters

Parameter	Description
in-policy <WORD>	Add in-policy on this interface
out-policy <WORD>	Add out-policy on this interface
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.
triggered enable	Enables automatic triggered updates on this RIP interface. Default is disabled.
proxy- announce enable	Enables proxy announcements on a RIP interface. When proxy announcements are enabled, the source of a route and its next hop are treated as the same when processing received updates. So, instead of the advertising router being used as the source, the next hop is. Proxy announcements are disabled by default.
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.
enable	Enables RIP on the interface
supply enable	Enables RIP route advertisements on this interface. The default value is enabled.
default- listen enable	Enables the interface to accept default routes learned through RIP updates. The default setting is disabled.
default- supply enable	Enables the interface to send default route information in RIP updates. This setting takes effect only if a default route exists in the routing table. The default setting is disabled.
listen enable	Enables this interface to listen for RIP advertisements. The default value is enabled.
port <LINE>	Select ports
holddown {<holddown>   <global>}	Specifies the interface holddown timer, which is the length of time (in seconds) that RIP maintains a route in the garbage list after determining that it is unreachable. <holddown> — overrides the global parameter and does not change if the global parameter is modified. Range is 0–360 seconds. <global> — default global holddown parameter (120 seconds).
cost <cost>	Specifies the RIP cost (metric) for this interface in a range from 1 to 15. The default cost is 1.
timeout <timeout>   <global>	Specifies the RIP timeout value on this interface. If a RIP interface does not receive an update from another RIP router within the configured timeout period, it moves the routes advertised by the nonupdating router to the garbage list. The timeout interval must be greater than the update timer. <timeout> — sets the interface timeout. Value ranges from 15 to 259200 seconds. <global> — sets the timeout to the global default (180 seconds). The interface timer setting overrides the global parameter and does not change if the global parameter is changed.
receive version {rip1   rip1orrip2   rip 2}	Specifies the RIP version received on this interface. Default is rip1orrip2.
send version {notsend   rip1   rip1comp   rip 2}	Specifies the RIP version sent on an interface. Default is rip1compatible
	Specifies whether RIP routes on the interface learned from a neighbor are advertised

poison  
enable

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.

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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
<code>weight</code>	change cost of existing route
<code>&lt;1-65535&gt;</code>	cost
<code>&lt;destination-ip&gt;</code>	destination IP <A.B.C.D>
<code>&lt;destination-subnet-mask&gt;</code>	destination subnet mask <A.B.C.D>
<code>disable</code>	disable a route
<code>enable</code>	enable a route
<code>&lt;next-hop-ip&gt;</code>	next hop IP <A.B.C.D>

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## ip route preference protocol

Configures the ip route preference protocol value.

### Syntax

- [default] ip route preference protocol { [ spbm-level1 | ospf-ext1 | ospf5-ext2 | ospf-inter | ospf-intra | rip | static ] [ <1-255> ] }

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<1-255>	Preference value (0 is reserved for local routes).
spbm-level1	Specifies protocol type ISIS (SPBM-LEVEL1). Default preference value is 7.
ospf-ext1	Specifies protocol type OSPF-EXT1. Default preference value is 120.
ospf-ext2	Specifies protocol type OSPF-EXT2. Default preference value is 125.
ospf-inter	Specifies protocol type OSPF-INTER. Default preference value is 25.
ospf-intra	Specifies protocol type OSPF-INTRA. Default preference value is 20.
rip	Specifies protocol type RIP. Default preference value is 100.
static	Specifies protocol type static. Default preference value is 5.



# Command: ip routing (Global Configuration)

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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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# Command: ip routing (VLAN Interface Configuration)

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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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## ip-source-address

Configures the source address for SPBM IP shortcuts

### Syntax

- ip-source-address <A.B.C.D>
- no ip-source-address

### Default

None

### Command mode

ISIS Router Configuration

### Command parameters

Parameter	Description
<A.B.C.D>	Specify ISIS Source IP Address

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## ip source-interface

Configures source interface.

### Syntax

- `default ip source-interface {radius|syslog|tacacs|snmp-traps|ssh|telnet|all}`
- `ip source-interface {radius|syslog|tacacs|snmp-traps|ssh|telnet|all} {loopback <1-16>}`
- `no ip source-interface {radius|syslog|tacacs|snmp-traps|ssh|telnet| all}`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
all	Configures source interface for all listed applications
radius	Configures source interface for RADIUS
snmp-traps	Configures source interface for SNMP traps
ssh	Configures source interface for SSH
syslog	Configures source interface for SYSLOG
tacacs	Configures source interface for TACACS
telnet	Configures source interface for TELNET

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## ip static-mroute

Configure static multicast route.

### Syntax

- `ip static-mroute <A.B.C.D/<0-32> rpf <A.B.C.D> [preference <1-255>] [enable]`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>enable</code>	Enable static multicast route
<code>preference &lt;1-255&gt;</code>	Specify administrative distance value of the static multicast route
<code>&lt;A.B.C.D/&lt;0-32&gt;</code>	Specify IP address/mask of the destination network and IP address of the
<code>rpf &lt;A.B.C.D&gt;</code>	Reverse Path Forwarding neighbor towards RP/Source

## ipv6

Sets global IPv6 configuration subcommands.

### Syntax

- `default ipv6 [auto-config] [enable] [forwarding ] [hop-limit <0-255] [icmp]`
- `default ipv6 [enable] [icmp] {[block-multicast-replies] [icmp] [error-interval] [icmp] [error-quota] [icmp] [unreach-msg]}`
- `ipv6 [auto-config] [enable] [forwarding ] [hop-limit <0-255] [icmp]`
- `ipv6 [auto-config] [enable] [icmp] {[block-multicast-replies] [icmp] [error-interval <0-2147483647>] [icmp] [error-quota <0-2000000>] [icmp] [unreach-msg]}`
- `no ipv6 [auto-config] [enable] [forwarding ] [icmp]`
- `no ipv6 [enable] [icmp] {[block-multicast-replies] [icmp] [unreach-msg]}`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>addr-unreach</code>	Enable IPv6 ICMP address unreachable
<code>port-unreach</code>	Enable IPv6 ICMP port unreachable
<code>forwarding</code>	Enable global IPv5 forwarding
<code>hop-limit &lt;0-255&gt;</code>	Enable global IPv5 forwarding
<code>enable</code>	Enable IPv6 global admin status
<code>block-multicast-replies</code>	Enable IPv6 ICMP block-multicast-replies
<code>unreach-msg</code>	Enable IPv6 ICMP unreach-msg
<code>autoconfig</code>	Set IPv6 autoconfiguration
<code>error-interval&lt;0-2147483647&gt;</code>	Set IPv6 ICMP error-interval
<code>error-quota&lt;0-2000000&gt;</code>	Set IPv6 ICMP error-quota
<code>icmp</code>	Set IPv6 ICMP parameters



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## ipv6 address

Sets default IPv6 address.

### Syntax

- `default ipv6 address [stack] [switch] [unit <1-8>]`
- `ipv6 address {[stack <WORD>] [switch <WORD> [eui <1-3>]] [unit <1-8> <WORD>] [<WORD>]}`
- `no ipv6 address [stack] [switch] [unit <1-8>]`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<WORD>	IPv6 address /prefix length
unit <1-8>	Set the IP address of another unit in a stack
switch	Set the IP address of local unit
eui <1-3>	Sets the EUI parameter.
stack	The address of the stack

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## ipv6 autoconfig

Configures IPv6 autoconfiguration.

### Syntax

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

### Default

None

### Command mode

Global Configuration



# Command: ipv6 default-gateway

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## ipv6 default-gateway

Configures IPv6 default gateway.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<WORD>	IPv6 address

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## ipv6 dhcp

Global dhcp guard subcommands

### Syntax

- `default ipv6 dhcp guard enable`
- `default ipv6 dhcp guard policy <WORD>`
- `ipv6 dhcp guard clear stats [<LINE>]`
- `ipv6 dhcp guard enable`
- `ipv6 dhcp guard policy <WORD>`
- `no ipv6 dhcp guard enable`
- `no ipv6 dhcp guard policy <WORD>`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>clear</code>	Clear statistics globally
<code>stats</code>	Clear statistics globally
<code>policy</code>	Create a policy globally
<code>enable</code>	Enable dhcp guard globally
<code>guard</code>	Global dhcp guard subcommands
<code>LINE</code>	List of ports
<code>&lt;WORD&gt;</code>	Specifies the Dynamic Host Configuration Protocol (DHCP) policy name.





# Command: ipv6 dhcp guard attach-policy

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## ipv6 dhcp guard attach-policy

Attaches dhcp guard policy on interface

### Syntax

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

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

Parameter	Description
<WORD>	Specifies the policy name.

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# Command: ipv6 dhcp-relay fwd-path

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## ipv6 dhcp-relay fwd-path

Create fwd-path.

### Syntax

- default ipv6 dhcp-relay fwd-path <WORD> [enable]
- ipv6 dhcp-relay [fwd-path <WORD>] [enable]
- no ipv6 dhcp-relay fwd-path <WORD> [enable]

### Default

None

### Command mode

VLAN Interface Configuration

### Command parameters

Parameter	Description
<WORD>	Agent IPv6 address

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## ipv6 fhs

Global ipv6 fhs subcommands.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
mac-access-list	Create FHS mac access list
enable	Enable First Hoop Security globally
ipv6-access-list	Ipv6 access list
nd	ND subcommands

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## ipv6 fhs ipv6-access-list

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

### Syntax

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

### Default

The default is disabled.

### Command mode

Global Configuration

### Command parameters

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

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## ipv6 fhs mac-access-list

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

### Syntax

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

### Default

The default is disabled.

### Command mode

Global Configuration

### Command parameters

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

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# Command: ipv6 fhs nd inspection stats clear

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## ipv6 fhs nd inspection stats clear

Clears ND inspection global overflow statistics.

### Syntax

- `ipv6 fhs nd inspection stats clear`

### Default

None

### Command mode

Global Configuration

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## ipv6 icmp addr-unreach

Configure IPv6 Internet Control Message Protocol (ICMP) parameters.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

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

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## ipv6 icmp port-unreach

Configure IPv6 Internet Control Message Protocol (ICMP) parameters.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

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

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# Command: ipv6 interface (Loopback Interface Configuration)

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## ipv6 interface (Loopback Interface Configuration)

Creates and configures a Loopback IPv6 interface.

### Syntax

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

### Default

None

### Command mode

Loopback Interface Configuration

### Command parameters

Parameter	Description
<code>clip</code>	Circuitless IPv6 interface.
<code>enable</code>	Enables the address.
<code>address &lt;WORD&gt;</code>	Specifies the IPv6 address.

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## ipv6 interface (VLAN Interface Configuration)

Creates and configures a VLAN IPv6 interface.

### Syntax

- `default ipv6 interface [all][enable][link-local][mtu] [reachable-time] [retransmit-timer]`
- `ipv6 interface [address <WORD>][enable][link-local <WORD>][mtu <1280-9216>][name <WORD>][reachable-time <1-3600000>][retransmit-timer <0-3600000>][eui <1-3>]`
- `no ipv6 interface [address <WORD>][all][enable]`

### Default

None

### Command mode

VLAN Interface Configuration

### Command parameters

Parameter	Description
<code>name &lt;WORD&gt;</code>	Configures a description for the interface. This variable does not support the default parameter.
<code>address &lt;WORD&gt;</code>	Configures the IPv6 address and prefix length. The default value is none.
<code>link-local &lt;WORD&gt;</code>	Configures the link local identifier. The default value is none.
<code>mtu &lt;1280-9216&gt;</code>	Configures the maximum transmission unit for the interface. The default value is 1500.
<code>retransmit-timer &lt;0-3600000&gt;</code>	Configures the time, in milliseconds, between retransmissions of Neighbor Solicitation messages to a neighbor when resolving the address or when probing the reachability of a neighbor. Range is 0-3600000. The default value is 1000.
<code>reachable-time &lt;1-3600000&gt;</code>	Configures the time, in milliseconds, that a neighbor is considered reachable after receiving a reachability confirmation. Range is 0-3600000. The default value is 30000.
<code>enable</code>	Enables the interface admin status.
<code>eui &lt;1-3&gt;</code>	Specifies the EUI parameter setting.



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## ipv6 mgmt

Configure IPv6 management port

### Syntax

- `default ipv6 mgmt address { [stack] [ switch] [unit <1-8>]}`
- `default ipv6 mgmt default-gateway`
- `default ipv6 mgmt interface`
- `ipv6 mgmt address { [WORD <ipv6-addr/prefix_len>] [stack <ipv6-addr/prefix_len> ] [switch <ipv6-addr/prefix_len> ] [unit <1-8> <ipv6-addr/prefix_len>]}`
- `ipv6 mgmt default-gateway <ipv6-addr>`
- `ipv6 mgmt interface [dad-ns <0-600>| hop-limit <0-255>]`
- `no ipv6 mgmt address { [stack] [ switch] [unit <1-8>]}`
- `no ipv6 mgmt default-gateway`
- `no ipv6 mgmt interface`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>default-gateway</code>	Configure IPv6 management default gateway
<code>address</code>	Configure management stack/unit/switch address
<code>dad-ns</code>	Duplicate address detection - number of neighbor solicitations
<code>process-redirect</code>	Enable processing IPv6 redirect-msg
<code>WORD &lt;ipv6-addr&gt;</code>	<code>ipv6_address</code>
<code>WORD &lt;ipv6-addr/prefix_len&gt;</code>	<code>ipv6_address/prefix_length</code>
<code>hop-limit</code>	Number of hops for DAD NS packets
<code>unit &lt;1-8&gt; &lt;ipv6-addr/prefix_len&gt;</code>	Set the management address of a unit in the stack
<code>switch &lt;ipv6-addr/prefix_len&gt;</code>	Set the management address of local unit

```
stack <ipv6-addr/prefix_len>  
interface
```

Set the management address of the stack  
Set the management interface

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## ipv6 mld (Global Configuration)

Configure global MLD settings.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>flush</code>	Flush the multicast listener discovery (MLD) multicast router, group member, or sender.
<code>stream</code>	Flushes MLD Streams.
<code>grp-member</code>	Flushes the MLD group member.
<code>mrouter</code>	Flushes the MLD multicast router.
<code>port &lt;LINE&gt;</code>	Flushes the ports.
<code>vlan &lt;1-4094&gt;</code>	Flushes the VLAN interfaces.

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## ipv6 mld proxy

Enables MLD proxy.

### Syntax

- `default ipv6 mld proxy {[query-interval] [query-max-response-time] [robust-value]} {send-query}`
- `ipv6 mld proxy {[query-interval <1-65535>] [query-max-response-time <0-255>] [robust-value <2-255>]} {send-query}`
- `no ipv6 mld proxy send-query`

### Default

None

### Command mode

VLAN Interface Configuration

### Command parameters

Parameter	Description
<code>query-max-response-time &lt;0-255&gt;</code>	Configure Max response time in query message (in seconds)
<code>query-interval &lt;1-65535&gt;</code>	Configure query interval time
<code>robust-value &lt;2-255&gt;</code>	Configure robustness variable
<code>send-query</code>	Enable MLD send query

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## ipv6 mld (VLAN Interface Configuration)

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

### Syntax

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

### Default

None

### Command mode

VLAN Interface Configuration

### Command parameters

Parameter	Description
<code>version</code>	Configures MLD protocol version.
<code>mrouter &lt;LINE&gt;</code>	Configures multicast forwarding ports.
<code>las-memb-query-int &lt;0-255&gt;</code>	Configures the last member query interval.
<code>query-max-response-time &lt;0-255&gt;</code>	Configures the maximum response time in the query message in seconds.
<code>query-interval &lt;0-65535&gt;</code>	Configures the query interval time.
<code>robust-value &lt;2-255&gt;</code>	Configures the robustness variable.
<code>proxy</code>	Enables MLD proxy.
<code>send-query</code>	Enables MLD send query.
<code>snopping [enable]</code>	Enables multicast listener discovery (MLD) snooping.
<code>flush</code>	Flushes MLD Mrouter, group member, or sender.



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## ipv6 nd (Global Configuration)

Global ipv6 nd subcommands.

### Syntax

- `ipv6 nd inspection clear stats line`
- `ipv6 nd inspection enable`
- `ipv6 nd rguard clear stats line`
- `ipv6 nd rguard policy word`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>clear</code>	Clear rguard statistics globally
<code>stats</code>	Clear rguard statistics globally
<code>enable</code>	Enable rguard globally
<code>rguard</code>	Global ipv6 nd rguard subcommands
<code>LINE</code>	List of ports
<code>inspection</code>	ND inspection subcommands
<code>WORD</code>	Rguard policy name
<code>policy</code>	Set rguard policy globally



# Command: ipv6 nd inspection clear stats

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## ipv6 nd inspection clear stats

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

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<LINE>	Specifies a list of ports.

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# Command: ipv6 nd inspection dynamic-learning enable

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## ipv6 nd inspection dynamic-learning enable

Enable dynamic learning of a neighbor source address.

### Syntax

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

### Default

None

### Command mode

Ethernet Interface Configuration

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## ipv6 nd inspection enable

Enable ND inspection globally.

### Syntax

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

### Default

The default is disabled.

### Command mode

Global Configuration



# Command: ipv6 nd rguard attach-policy

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## ipv6 nd rguard attach-policy

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

### Syntax

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

### Default

The default is disabled.

### Command mode

Ethernet Interface Configuration

### Command parameters

Parameter	Description
<WORD>	Specifies the policy.

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## ipv6 nd raguard clear stats

Clear the router advertisement (RA) guard statistics.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<LINE>	Specifies a list of ports.

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## ipv6 nd raguard enable

Enable router advertisement (RA) guard globally.

### Syntax

- default `ipv6 nd raguard enable`
- `ipv6 nd raguard enable`
- no `ipv6 nd raguard enable`

### Default

The default is disabled.

### Command mode

Global Configuration

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## ipv6 nd rguard policy

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

### Syntax

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

### Default

The default is disabled.

### Command mode

Global Configuration

### Command parameters

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



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## ipv6 nd (VLAN Interface Configuration)

Configures neighbor discovery.

### Syntax

- `default ipv6 nd [dad-ns][hop-limit] [managed-config-flag] [other-config-flag] [ra-lifetime <0-9000>] [rtr-advert-max-interval <4-1800>] [rtr-advert-min-interval <3-1350> ] [send-ra]`
- `ipv6 nd [dad-ns][hop-limit] [managed-config-flag] [other-config-flag] [ra-lifetime <0-9000>] [rtr-advert-max-interval <4-1800>] [rtr-advert-min-interval <3-1350> ] [send-ra]`
- `no ipv6 nd [managed-config-flag] [other-config-flag] [send-ra]`

### Default

None

### Command mode

VLAN Interface Configuration

### Command parameters

Parameter	Description
<code>dad-ns &lt;0-600&gt;</code>	Duplicates address detection - neighbor solicitation.
<code>managed-config-flag</code>	Managed config flag
<code>rtr-advert-max-interval &lt;4-1800&gt;</code>	Max interval for router advert
<code>rtr-advert-min-interval &lt;3-1350&gt;</code>	Min interval for router advert
<code>other-config-flag</code>	Other config flag
<code>ra-lifetime &lt;0-9000&gt;</code>	Router advert lifetime
<code>send-ra</code>	Send router advert
<code>hop-limit &lt;1-255&gt;</code>	Specifies the hop limit value for the interface.

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## ipv6 neighbor

Configures neighbor cache.

### Syntax

- `ipv6 neighbor <WORD> port <WORD> mac <H.H.H> [vlan <1-4094>]`
- `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



# Command: ipv6 neighbor binding clear

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## ipv6 neighbor binding clear

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

### Syntax

- `ipv6 neighbor binding clear`

### Default

None

### Command mode

Global Configuration

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## ipv6 neighbor binding down-lifetime

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

### Syntax

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

### Default

The default is 86400.

### Command mode

Global Configuration

### Command parameters

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

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## ipv6 neighbor binding max-entries

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

### Syntax

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

### Default

The default is 512.

### Command mode

Global Configuration

### Command parameters

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

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## ipv6 neighbor binding reachable-lifetime

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

### Syntax

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

### Default

The default is 300 seconds.

### Command mode

Global Configuration

### Command parameters

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



# Command: ipv6 neighbor binding stale-lifetime

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## ipv6 neighbor binding stale-lifetime

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

### Syntax

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

### Default

The default is 86400 seconds.

### Command mode

Global Configuration

### Command parameters

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

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## ipv6 neighbor binding vlan

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

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

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



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## ipv6 rip

Enables RIPng interface.

### Syntax

- `ipv6 rip {enable | poison enable | cost <1-15 Cost> |default-information}`

### Default

Disabled

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>default-information</code>	Advertises only the default route on the interface.
<code>poison</code>	Enables poison reverse on the interface.
<code>enable</code>	Enables RIPng on the interface.
<code>cost</code>	Sets the RIPng interface metric.

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## ipv6 route

Creates a static route and set the parameters.

### Syntax

- `default ipv6 route <WORD> {[mgmt] [enable] [next-hop <WORD>] [tunnel <1-2147483647>] [vlan <1-4094>] | | preference protocol {ripng | static}}`
- `ipv6 route <WORD> {[cost <1-65535>] [mgmt [enable]] [next-hop <WORD>] [preference <1-255>] [tunnel <1-2147483647>] [vlan <1-4094>] | preference protocol {ripng | static} <1-255>}`
- `no ipv6 route <WORD> {[mgmt] [enable] [next-hop <WORD>] [tunnel <1-2147483647>] [vlan <1-4094>]}`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>preference &lt;WORD&gt;</code>	Configures route preference. IPv6 route 49 length
<code>cost &lt;1-65535&gt;</code>	IPv6 route cost
<code>next-hop &lt;WORD&gt;</code>	IPv6 route next-hop, 49 length
<code>preference &lt;1-255&gt;</code>	IPv6 route preference
<code>tunnel &lt;1-2147483647&gt;</code>	IPv6 route tunnel
<code>vlan &lt;1-4094&gt;</code>	IPv6 route VLAN
<code>mgmt [enable]</code>	Out of band management



# Command: ipv6 slow-path-to-cpu

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## ipv6 slow-path-to-cpu

Enables slow path to cpu.

### Syntax

- `ipv6 slow-path-to-cpu enable`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
enable	Enable slow path to cpu.

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## ipv6 source-guard

Enables Source Guard on interface.

### Syntax

- `default ipv6 source-guard enable | max-allowed-addr`
- `ipv6 source-guard {enable | max-allowed-addr <2-10> | overflow-count clear | drop-count clear}`
- `no ipv6 source-guard enable`

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

Parameter	Description
<code>overflow-count</code>	Clear overflow counter
<code>clear</code>	Clear the source guard overflow counter
<code>drop-count clear</code>	Clears the source guard drop counter
<code>enable</code>	Enable Source Guard on interface
<code>max-allowed-addr &lt;2-10&gt;</code>	Max allowed ipv6 address

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## ipv6 tunnel

IPv6 Tunnel configuration commands.

### Syntax

- `default ipv6 tunnel <1-2147483647> {[hop-limit]}`
- `ipv6 tunnel <1-2147483647> {[hop-limit <0-255>] [source <A.B.C.D> <ipv6-addr/prefix-len> <WORD> destination <A.B.C.D> [mode {data | mgmt}] type 6in4]}`
- `no ipv6 tunnel <1-2147483647>`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>data</code>	Data tunnel
<code>address &lt;WORD&gt;</code>	ipv6_address/prefix_length
<code>mgmt</code>	Management tunnel
<code>source &lt;A.B.C.D&gt;</code>	Specify IP address for source and destination of IPv6 tunnel
<code>hop-limit &lt;0-255&gt;</code>	Specify number of hops in the tunnel
<code>&lt;1-2147483647&gt;</code>	Tunnel ID
<code>type 6in4</code>	Tunnel type
<code>mode</code>	Tunneling mode <data or mgmt>

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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

- `default ip verify source [interface Ethernet [<WORD>]]`
- `ip verify source [interface Ethernet <WORD>]`
- `no 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> action {none | preempt}
- ip vrrp <vr\_id> adver-int <interval>
- no ip vrrp <vr\_id> fast-adv enable

### Default

None

### Command mode

VLAN Interface Configuration

### Command parameters

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

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## ip vrrp address

Associates an IP address with a virtual router ID.

### Syntax

- ip vrrp address <vr\_id> <ip\_address>
- no ip vrrp address <vr\_id> <ip\_address>

### Default

None

### Command mode

VLAN Interface Configuration

### Command parameters

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

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## ip vrrp critical-ip-addr

Configures the VRRP critical IP address.

### Syntax

- ip vrrp <vr\_id> critical-ip-addr <ip\_address>
- no ip vrrp <vr\_id> critical-ip-addr <ip\_address>

### Default

None

### Command mode

VLAN Interface Configuration

### Command parameters

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

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## ip vrrp critical-ip enable

Configures the VRRP critical IP status.

### Syntax

- ip vrrp <vr\_id> critical-ip enable
- no ip vrrp <vr\_id> critical-ip enable

### Default

None

### Command mode

VLAN Interface Configuration

### Command parameters

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

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## ip vrrp fast-adv-int

Configures the VRRP fast advertisement interval.

### Syntax

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

### Default

None

### Command mode

VLAN Interface Configuration

### Command parameters

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

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## ip vrrp holddown-timer

Configures the VRRP holddown timer.

### Syntax

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

### Default

None

### Command mode

VLAN Interface Configuration

### Command parameters

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

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## ip vrrp priority

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

### Syntax

- ip vrrp <vr\_id> priority <1-255>

### Default

None

### Command mode

VLAN Interface Configuration

### Command parameters

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

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## i-sid

Configures the User-Network-Interface (UNI).

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

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

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## isis

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

### Syntax

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

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

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

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## isis (Global Configuration)

Configures ISIS operations.

### Syntax

- `isis apply redistribute {direct | static}`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>apply</code>	Apply ISIS policy/redistribute configuration
<code>redistribute</code>	Apply ISIS redistribute configurations
<code>direct</code>	Only apply direct redistribute configuration
<code>static</code>	Only apply static redistribute configuration

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## isis hello-auth type

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

### Syntax

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

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

Parameter	Description
key <WORD>	Authentication key
simple	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.
hmac-md5	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.
key-id	Key value (1-16 length)
none	Specifies the authentication type used for IS-IS hello packets on the interface

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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

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

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

### Default

9

### Command mode

Ethernet Interface Configuration

### Command parameters

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

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# Command: isis l1-hello-multiplier

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## isis l1-hello-multiplier

Configures the level 1 hello multiplier.

### Syntax

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

### Default

3

### Command mode

Ethernet Interface Configuration

### Command parameters

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

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## isis maximum-path

Sets the maximum number of ECMP path for ISIS routes.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<1-4>	Specifies the ECMP path value.

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## isis spbm

SPBM commands

### Syntax

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

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

Parameter	Description
<code>interface-type ptpt</code>	Configures the SPBM instance interfacetype on the IS-IS interface located on the specified port or MLT.
<code>l1-metric &lt;1- 16777215&gt; &lt;1-100&gt;</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

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## is-type

Configures the router type globally.

### Syntax

- `is-type {l1}`
- `no is-type`

### Default

None

### Command mode

ISIS Router Configuration

### Command parameters

Parameter	Description
{l1}	Sets the router type globally: l1: Level-1 router type

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## jumbo-frames

Enables jumbo frames on switch/stack.

### Syntax

- `default jumbo-frames [enable] [size]`
- `jumbo-frames [enable] [size <1519-9216>]`
- `no jumbo-frames [enable]`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>enable</code>	Enable jumbo frames on switch/stack
<code>size &lt;1519-9216&gt;</code>	Maximum jumbo-frames size

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## I2 ping (Privileged Executive)

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

### Syntax

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

### Default

None

### Command mode

Privileged Executive

### Command parameters

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

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## I2 ping (User Executive)

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

### Syntax

- l2 ping [vlan <1-4094> | ip-address {A.B.C.B}] [mac <H.H.H> | routernodename <WORD>] [burst-count <1-200>] [data-tlv-size <0-400>] [frame-size <64-1500>] [priority <0-7>] [source-mode {nodal|smltVirtual}] [testfill {allZero | allZeroCrc | pseudoRandomBitSequence | pseudoRandomBitSequenceCrc}] [time-out <1-10>]

### Default

None

### Command mode

User Executive

### Command parameters

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

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## I2 tracemroute source

Verifies SPBM IP multicast routes.

### Syntax

- `l2 tracemroute {source A.B.C.D <1.2.3.4> group A.B.C.D <1.2.3.4> vlan <1-4096> {priority <0-7> |ttl <1-255>}}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>group {A.B.C.D}</code>	Specifies the multicast group address.
<code>priority &lt;0-7&gt;</code>	Specifies the priority. The default is 7.
<code>source {A.B.C.D}</code>	Specifies the source address.
<code>ttl-value &lt;1-255&gt;</code>	Specifies the time-to-live value for the trace.
<code>vlan &lt;1-4084&gt;</code>	Specifies the VLAN ID.



# Command: I2 traceroute (Privileged Executive)

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## I2 traceroute (Privileged Executive)

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

### Syntax

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

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>ip-address {A.B.C.D}</code>	Specifies IP address.
<code>mac &lt;H.H.H&gt;</code>	Specifies the destination MAC address.
<code>routernodename &lt;WORD&gt;</code>	Specifies the destination node name.
<code>vlan &lt;1-4094&gt;</code>	Specifies the destination VLAN.
<code>priority &lt;0-7&gt;</code>	Specifies the priority.
<code>ttl &lt;1-255&gt;</code>	Specifies the time-to-live (TTL).

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# Command: I2 traceroute (User Executive)

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## I2 traceroute (User Executive)

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

### Syntax

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

### Default

None

### Command mode

User Executive

### Command parameters

Parameter	Description
<code>ip-address {A.B.C.D}</code>	Specifies IP address.
<code>routernodename &lt;WORD&gt;</code>	Specifies the destination node name.
<code>vlan &lt;1-4094&gt;</code>	Specifies the destination VLAN.
<code>mac &lt;H.H.H&gt;</code>	Specifies the MAC address.
<code>priority &lt;0-7&gt;</code>	Specifies the priority.
<code>ttl &lt;1-255&gt;</code>	Specifies the time to live (TTL).

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# Command: I2 tracetree (Privileged Executive)

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## I2 tracetree (Privileged Executive)

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

### Syntax

- `l2 tracetree vlan <1-4094> i-sid <1-16777215> [mac <H.H.H> | routernodename <WORD>] [priority <0-7>] [ttl <1-255>]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

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

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## I2 tracetree (User Executive)

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

### Syntax

- `l2 tracetree vlan <1-4094> i-sid <1-16777215> {mac <H.H.H> | routernodname <WORD>} [priority <0-7>] [ttl <1-255>]`

### Default

None

### Command mode

User Executive

### Command parameters

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

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## lacp aggregation

Enables the port aggregation mode.

### Syntax

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

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

Parameter	Description
<code>enable</code>	Enable port aggregation mode
<code>port &lt;portList&gt;</code>	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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# Command: lacp key (Ethernet Interface Configuration)

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## lacp key (Ethernet Interface Configuration)

Configures the administrative LACP key for a set of ports.

### Syntax

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

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

Parameter	Description
<code>&lt;1-4095&gt;</code>	The LACP key to use
<code>&lt;portList&gt;</code>	The ports to configure the LACP key for

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# Command: lacp key (Global Configuration)

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## lacp key (Global Configuration)

Configures LACP key to MLT mappings.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>mlt-id &lt;1-32&gt;</code>	Configure MLT ID for this LACP key
<code>&lt;1-4095&gt;</code>	LACP key value

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## lacp mode

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

### Syntax

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

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

Parameter	Description
<code>off</code>	The port does not participate in Link Aggregation
<code>passive</code>	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.
<code>active</code>	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.
<code>&lt;portList&gt;</code>	The ports for which the LACP mode is to be set

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## lacp port-mode

Configure the LACP port mode for a set of ports.

### Syntax

- default lacp port-mode
- lacp port-mode {[advance] [default]}

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
advance	Configure LACP ports to behave in advance mode
default	Configure LACP ports to behave in default mode

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## lacp priority

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

### Syntax

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

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

Parameter	Description
<code>port &lt;portList&gt;</code>	The ports for which to configure LACP priority
<code>&lt;0-65535&gt;</code>	The priority value to assign

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# Command: lacp system-priority

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## lacp system-priority

Sets LACP system priority.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>&lt;0-65535&gt;</code>	Priority

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## lacp timeout-time

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

### Syntax

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

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

Parameter	Description
<code>{long   short}</code>	Specify the long or short timeout interval
<code>port &lt;portList&gt;</code>	The ports for which to configure the timeout interval

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## link-state

Configures link state tracking group.

### Syntax

- `default link-state group <1-2> [downstream] [upstream]`
- `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

None

### Command mode

Global Configuration

### Command parameters

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

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# Command: lldp config-notification(Ethernet Interface Configuration)

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## lldp config-notification(Ethernet Interface Configuration)

Enable notification on configuration change.

### Syntax

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

### Default

None

### Command mode

Ethernet Interface Configuration

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## lldp (Global Configuration)

Configures 802.1ab settings.

### Syntax

- `default lldp [tx-interval] [tx-hold-multiplier] [reinit-delay] [tx-delay] [notification-interval] [med-fast-start] [vendor-specific] {[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>]}}`
- `lldp [tx-interval <5-32768>] [tx-hold-multiplier <2-10>] [reinit-delay <1-10>] [tx-delay <1-8192>] [notification-interval <5-3600>] [med-fast-start <1-10>] [vendor-specific] {[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

None

### Command mode

Global Configuration

### Command parameters

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

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## lldp location-identification (Ethernet Interface Configuration)

Location Configuration Information (LCI)

### Syntax

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

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

Parameter	Description
<code>additional-code &lt;WORD&gt;</code>	Additional code
<code>additional-information &lt;WORD&gt;</code>	Additional location information
<code>altitude &lt;LINE&gt; {floors   meters}</code>	Altitude
<code>building &lt;WORD&gt;</code>	Building (structure)
<code>city-district &lt;WORD&gt;</code>	City division, city district, ward
<code>city &lt;WORD&gt;</code>	City, township, shi (JP)
<code>coordinate-base</code>	Coordinate-based
<code>country-code &lt;WORD&gt;</code>	Country code
<code>county &lt;WORD&gt;</code>	County, parish, gun (JP), district(IN)
<code>ecs-elin &lt;LINE&gt;</code>	Emergency Call Service ELIN
<code>floor &lt;WORD&gt;</code>	Floor
<code>house-number &lt;WORD&gt;</code>	House number

house-number-suffix <WORD>	House number suffix
landmark <WORD>	Landmark or vanity address
latitude <LINE> {north   south}	Latitude
leading-street-direction <WORD>	Leading street direction
longitude <LINE> {east   west}	Longitude
state <WORD>	National subdivisions: (state, canton, region)
block <WORD>	Neighborhood, block
place-type <WORD>	Office
port <LINE>	Port list
p.o.box <WORD>	Post office box
postal-community-name <WORD>	Postal community name
postal/zip-code <WORD>	Postal/Zip code
datum {NAD83/MLLW   NAD83/NAVD88   WGS84}	Reference datum
name <WORD>	Residence and office occupant
room-number <WORD>	Room number
street <WORD>	Street
street-suffix <WORD>	Street suffix
trailing-street-suffix <WORD>	Trailing street suffix
apartment <WORD>	Unit (apartment, suite)

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## lldp med-network-policies (Ethernet Interface Configuration)

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

### Syntax

- `default lldp med-network-policies [port <portList>] {voice|voice-signaling}`
- `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

None

### Command mode

Ethernet Interface Configuration

### Command parameters

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



# Command: lldp port (Ethernet Interface Configuration)

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## lldp port (Ethernet Interface Configuration)

Port list

### Syntax

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

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

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

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# Command: lldp status (Ethernet Interface Configuration)

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## lldp status (Ethernet Interface Configuration)

Set 802.1ab port(s) admin status

### Syntax

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

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

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

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## lldp tx-tlv (Ethernet Interface Configuration)

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

### Syntax

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

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

Parameter	Description
call-server	Call Server TLV
extendedPSE	Extended PSE TLV, the transmission of this TLV is enabled by default only on POE port switches
inventory	Inventory TLVs This TLV is enabled by default
location	Location Identification TLV This TLV is enabled by default
maximum-frame-size	Maximum Frame Size TLV
med-	MED Capabilities TLV (MED TLVs are transmitted only if MED Capabilities TLVs are

capabilities	transmitted). This TLV is enabled by default.
network-policy	Network Policy TLV This TLV is enabled by default
mdi-power-support	Power via MDI TLV is sent only on ports where transmission is enabled. The power via MDI TLV, transmission of this TLV is enabled by default on all POE ports. The transmission can be enabled only on PoE ports
protocol-identity { [EAP] [LLDP] [STP] }	Protocol Identity TLV
port <LINE>	Specifies a port or list of ports
dot1	Specifies IEEE 802.1 organizationally specific TLVs.
dot3	Specifies IEEE 802.3 organizationally specific TLVs.
med	Specifies Media Endpoint Devices (MED) specific TLVs.
dotq1-framing	Specifies the Dot1q framing TLV.
file-server	Specifies the file server TLV.
poe-conservation	Specifies the Power over Ethernet (POE) conservation TLV.
link-aggregation	The link aggregation TLV
local-mgmt-addr	The local management address TLV. This TLV is enabled by default.
mac-phy-config-status	The MAC/Phy configuration or status TLV
port-protocol-vlan-id <LINE>	The port and protocol VLAN ID TLV
port-desc	The port description TLV This TLV is enabled by default. This TLV is enabled by default.
port-vlan-id <LINE>	The port VLAN ID TLV
sys-cap	The system capabilities TLV
sys-desc	The system description TLV. This TLV is enabled by default.
sys-name	The system name TLV. This TLV is enabled by default.
vlan-name <LINE>	The VLAN name TLV
vendor-specific	Vendor-specific TLVs



# Command: lldp vendor-specific (Ethernet Interface Configuration)

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## lldp vendor-specific (Ethernet Interface Configuration)

Configures 802.1ab vendor-specific settings.

### Syntax

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

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

Parameter	Description
<code>dot1q-framing</code> {auto   untagged   tagged}	Enables the Layer 2 priority tagging TLV transmit flag.
<code>poe-conservation-request-level</code> <0-255>	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 IP phone connected to the port.

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## logging

Changes system event log settings.

### Syntax

- `default logging [remote] {[address] [facility] [level] [secondary-address]}`
- `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

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>volatile</code>	Configure options for logging to DRAM
<code>facility</code>	Configure remote logging facility
<code>remote</code>	Configure remote logging parameters
<code>address {A.B.C.D}   &lt;WORD&gt;</code>	Configure remote syslog address
<code>secondary-address {A.B.C.D}   &lt;WORD&gt;</code>	Configure remote syslog address
<code>critical</code>	Critical event
<code>disable</code>	Disable the event log
<code>enable</code>	Enable the event log
<code>informational</code>	Informational message
<code>latch</code>	Latch DRAM log when it is full
<code>none</code>	No events stored in volatile storage
<code>overwrite</code>	Overwrite DRAM log when it is full
<code>serious</code>	Serious event message
<code>daemon</code>	Set daemon facility
<code>local0</code>	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
level	The severity level of events that will be logged in DRAM
nv-level	The severity level of events that will be saved in NV storage



# Command: logout (Privileged Executive)

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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

## mac-address-table

Configures MAC address table settings.

### Syntax

- `default mac-address-table [aging-time] [learning <LINE>] [static <H.H.H> <1-4094> interface { [Ethernet <LINE>] | [mlt <1-32>]}]`
- `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

None

### Command mode

Global Configuration

### Command parameters

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



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## macsec clear-stats

Clears MACSec stats for all ports or entered ports.

### Syntax

- macsec clear-stats
- macsec clear-stats port<LINE>

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
port<LINE>	Specifies the ports to clear MACSec stats.

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# Command: macsec confidentiality-offset (Ethernet Interface Configuration)

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## macsec confidentiality-offset (Ethernet Interface Configuration)

Configures Encryption Offset on the port

### Syntax

- `macsec confidentiality-offset <30|50>`
- `no macsec confidentiality-offset`

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

Parameter	Description
<code>&lt;30 50&gt;</code>	Specifies the encryption offset to 30 or 50 bytes from the Sec Tag.

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# Command: macsec connectivity-association

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## macsec connectivity-association

**Syntax**

**Default**

**Command mode**

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# Command: macsec connectivity-association (Ethernet Interface Configuration)

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## macsec connectivity-association (Ethernet Interface Configuration)

Associates a connectivity association to a port.

### Syntax

- macsec connectivity-association WORD<5-15>

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

Parameter	Description
WORD<5-15>	Specifies a connectivity-association name. It is a 5 to 15 character alphanumeric string.

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# Command: macsec connectivity-association (Global Configuration)

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## macsec connectivity-association (Global Configuration)

Configures a new connectivity association.

### Syntax

- macsec connectivity-association WORD<5-15> connectivity association-key WORD<10-32> [keyparity {even | odd}]

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
WORD<5-15>	Specifies a connectivity-association name. It is a 5 to 15 character alphanumeric string.
key-parity {even   odd}]	Specifies even or odd generated keys.
connectivity association-key WORD<10-32>	Specifies the hexadecimal value of the connectivity association key (CAK). A 32 character string is recommended.



# Command: macsec enable (Ethernet Interface Configuration)

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## macsec enable (Ethernet Interface Configuration)

Enables macsec on a port.

### Syntax

- macsec enable
- no macsec enable

### Default

Disabled

### Command mode

Ethernet Interface Configuration

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# Command: macsec encryption enable (Ethernet Interface Configuration)

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## macsec encryption enable (Ethernet Interface Configuration)

Enables macsec encryption on a port.

### Syntax

- `macsec encryption enable`
- `no macsec encryption enable`

### Default

Disabled

### Command mode

Ethernet Interface Configuration

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# Command: macsec replay-protect enable (Ethernet Interface Configuration)

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## macsec replay-protect enable (Ethernet Interface Configuration)

Prevents the macsec port from replay-attacks

### Syntax

- `macsec replay-protect enable window-size <5-500>`

### Default

Disabled

### Command mode

Ethernet Interface Configuration

### Command parameters

Parameter	Description
<code>window-size&lt;5-500&gt;</code>	Sets the window size value.

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## mac-security (Ethernet Interface Configuration)

Enables /disables MAC-based security for individual port.

### Syntax

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

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

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



# Command: mac-security (Global Configuration)

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## mac-security (Global Configuration)

Configures MAC Address security options.

### Syntax

- `default mac-security [auto-learning] {[aging-time] | [sticky]} [mac-da-filter <H.H.H>]`
- `mac-security [auto-learning] {[aging-time <0-65535>] | [sticky]} [mac-address-table] {[address <H.H.H>] {[mlt-id <1-32>] | [port <LINE>] | [security-list <1-128>]} | {[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] [<1-128>] {[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 <1-128>]} [mac-da-filter <H.H.H>] [security-list <1-128>]`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>mac-address-table</code>	Add addresses to MAC security address table
<code>mac-da-filter</code>	Add/delete MAC DA filtering addresses
<code>sticky-address &lt;H.H.H&gt;</code>	Adds a sticky address to the mac-security mac-address table
<code>security-list &lt;1-32&gt;</code>	Assign a security list to a MAC address
<code>port &lt;LINE&gt;</code>	Assign specific port to a MAC address
<code>mlt-id &lt;1-32&gt;</code>	Assign specific trunk to a MAC address
<code>auto-learning</code>	Configure MAC Auto-Learning
<code>disable</code>	Disable MAC Address Security
<code>enable</code>	Enable MAC Address Security
<code>filtering</code>	Enable/disable DA filtering for intruder addresses
<code>learning</code>	Enable/disable MAC address learning

intrusion-detect	Enable/disable partitioning on intrusion detection
snmp-lock	Enable/disable SNMP lock on MAC address security parameters
learning-ports {add <LINE> I remove <LINE>   <LINE>}	Modify ports participation in MAC address learning
aging-time <0-65535>	Set aging-time value for auto-learned addresses
sticky	Set mac-security sticky mode
intrusion-timer <0-65535>	Set temporary partition time for intrusion detection

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## managed-config-flag

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

### Syntax

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

### Default

The default is none.

### Command mode

RA Guard Configuration

### Command parameters

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

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## manual-area

Configures an IS-IS manual area.

### Syntax

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

### Default

None

### Command mode

ISIS Router Configuration

### Command parameters

Parameter	Description
<code>&lt;xx.xxxx.xxxx...xxx&gt;</code>	Specifies the IS-IS manual-area (1–13 bytes in the format <code>&lt;xx.xxxx.xxxx...xxx&gt;</code> . 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
<code>ip</code>	Global IP configuration subcommands
<code>interface</code>	Trigger per-interface RIP update
<code>rip</code>	Trigger RIP update
<code>vlan &lt;1-4094&gt;</code>	VLAN interface

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# Command: match ipv6 access-list

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## match ipv6 access-list

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

### Syntax

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

### Default

The default is disabled.

### Command mode

RA Guard Configuration

### Command parameters

Parameter	Description
<WORD>	Specifies the IPv6 address.

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## match mac-access-list

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

### Syntax

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

### Default

The default is disabled.

### Command mode

RA Guard Configuration

### Command parameters

Parameter	Description
<WORD>	Specifies the IPv6 address.

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## match ra prefix-list

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

### Syntax

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

### Default

The default is disabled.

### Command mode

RA Guard Configuration

### Command parameters

Parameter	Description
<WORD>	Specifies the IPv6 address.

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## match reply prefix-list

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

### Syntax

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

### Default

The default is disabled.

### Command mode

RA Guard Configuration

### Command parameters

Parameter	Description
<WORD>	Specifies the prefix list name.



# Command: match server access-list

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## match server access-list

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

### Syntax

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

### Default

The default is disabled.

### Command mode

RA Guard Configuration

### Command parameters

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

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## maximum-path

Sets the maximum number of ECMP path for static routes.

### Syntax

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

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

### Default

None

### Command mode

ISIS Router Configuration

### Command parameters

Parameter	Description
<30-900>	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

- `default metric`
- `metric wide`
- `no metric`

### Default

`wide`

### Command mode

ISIS Router Configuration

### Command parameters

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

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## min-lsp-gen-interval

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

### Syntax

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

### Default

None

### Command mode

ISIS Router Configuration

### Command parameters

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

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## mlt

Modifies Multi-Link Trunking (MLT) configuration.

### Syntax

- `default mlt {<1-32> bpdu | shutdown-ports-on-disable enable}`
- `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

None

### Command mode

Global Configuration

### Command parameters

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



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## mvr

Configures MVR on the switch

### Syntax

- [no] mvr enable
- default mvr

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
no	Disables MVR on the switch.
default	Restores MVR to default.

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## mvr group-range

Configure the IP multicast address ranges for MVR processing

### Syntax

- [no] mvr group-range <A.B.C.D>/<0-32>

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<A.B.C.D>	Specifies the IP address.
<0-32>	Specifies the mask.

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# Command: mvr vlan

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## mvr vlan

Configures a VLAN as an MVR receiver or Source VLAN

### Syntax

- [no] mvr vlan <receiver | source> [enable]

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
no	Removes configured VLAN.
receiver	Specifies VLAN as MVR receiver VLAN.
source	Specifies VLAN as MVR source VLAN.

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# Command: name (Ethernet Interface Configuration)

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## name (Ethernet Interface Configuration)

Sets the names of ports.

### Syntax

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

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

Parameter	Description
<code>&lt;LINE&gt;</code>	New port name
<code>port &lt;LINE&gt;</code>	Port number(s) whose names are to be changed

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# Command: network (OSPF Router Configuration)

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## network (OSPF Router Configuration)

Enables OSPF on an interface.

### Syntax

- `default network <ip_address>`
- `network <ip_address> [area <area_id>]`
- `no network <ip_address>`

### Default

None

### Command mode

OSPF Router Configuration

### Command parameters

Parameter	Description
<code>area</code> <code>&lt;area_id&gt;</code>	Specifies the ID of the area assigned to the interface in dotted decimal notation (A.B.C.D)
<code>&lt;ip_address&gt;</code>	Specifies the IP address of interface to be enabled for OSPF routing

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# Command: network (RIP Router Configuration)

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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

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

### Default

None

### Command mode

Global Configuration

### Command parameters

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

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## ospf

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

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

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

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## overload

Sets overload condition

### Syntax

- `default overload`
- `no overload`
- `overload`

### Default

None

### Command mode

ISIS Router Configuration

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## overload-on-startup

Sets IS-IS overload-on-startup value (in seconds)

### Syntax

- `default overload-on-startup`
- `no overload-on-startup`
- `overload-on-startup <15-3600>`

### Default

None

### Command mode

ISIS Router Configuration

### Command parameters

Parameter	Description
<code>&lt;15-3600&gt;</code>	Specifies the overload-on-startup value (in seconds).

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## password

Configure password security restrictions.

### Syntax

- `default password password-history`
- `no password security`
- `password aging-time { [ username <WORD> ] <0-365> }`
- `password check-repeated { [ disable ] [ enable ] }`
- `password check-sequential { [ disable ] [ enable ] }`
- `password complexity { [ lower-case ] { [ <0-9> ] } [ numeric ] { [ <0-9> ] } [ special ] { [ <0-9> ] } [ upper-case ] { [ <0-9> ] } }`
- `password password-history { [ <0-12> ] }`
- `password security`
- `password unlock-timer <1-365>`
- `password delay-time <0-3600>`
- `password login-failure-notification WORD`
- `password min-length <8-255>`
- `password notifications <1-90>`
- `password password-change-on-first-login { [ disable ] [ enable ] }`
- `password password-change-rate-limiter <1-10>`
- `password unlock-timer <1-365>`
- `no password login-failure-notification`
- `no password unlock-timer`
- `default password check-repeated`
- `default password check-sequential`
- `default password complexity`
- `default password delay_time`

default password min-length

- default password notifications
- default password password-change-on-first-login
- default password password-change-rate-limiter
- default password unlock-timer
- default password aging-time [ username WORD ]

## Default

None

## Command mode

Global Configuration

## Command parameters

Parameter	Description
check-repeated	Accepts or forbids repeated consecutive characters in your password.
check-sequential	Accepts or forbids sequential characters in your password.
login-failure-notification <WORD>	Configures notification message to users encountering a login failure.
password-history <0-12>	Configures the number of passwords in history if password security is enabled.
password-history <0-12>	Configures the number of passwords in the history if password security is enabled.
security	Enables password security restrictions.
password-change-rate-limiter <1-10>	Restricts number of times a password can be changed in a day.
unlock-timer <1-365>	Set number of days after which a disabled account will be enabled.
complexity	Sets the password complexity rules.
password-change-on-first-login { [disable]   [enable] }	Specifies the ability to force password change on first login.
delay-time <0-3600>	Specifies the amount of delay time after 3 failed login attempts within one minute.
min-length <8-255>	Specifies the minimum password length.
notifications <1-90>	Specifies the password expiration notifications intervals.
aging-time { [username <WORD>] <0-365> }	Specifies the password validity period.

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## ping (Privileged Executive)

Send echo messages.

### Syntax

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

### Default

None

### Command mode

Privileged Executive

### Command parameters

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

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## ping (User Executive)

Sends echo messages.

### Syntax

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

### Default

None

### Command mode

User Executive

### Command parameters

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



# Command: ping-virtual-address

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## ping-virtual-address

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

### Syntax

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

- `no poe ip-phone {poe-limit | poe-priority}`
- `poe [ip-phone] {[poe-limit <3-32>] [poe-lldp port <portline>][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>]}`

### Default

None

### Command mode

Global Configuration

### Command parameters

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





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

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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
<code>&lt;3-32&gt;</code>	Power limit in watt
<code>port &lt;portlist&gt;</code>	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
<code>&lt;3-16&gt;</code>	Power limit in watt
<code>port &lt;portlist&gt;</code>	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

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

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

Parameter	Description
<code>port &lt;portlist&gt;</code>	List of ports

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## port-mirroring

Changes port mirroring configuration.

### Syntax

- no port-mirroring {<1-4> | rspan <1-4>}
- 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>] [mirror-vlan <1-4094>]
- port-mirroring rspan { [<1-4>] [destination-port <LINE>] [vlan <2-4094>]}

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
allow-traffic	Allow traffic for monitor port
rspan <1-4>	Configure RSPAN settings
disable	Disable port mirroring
<1-4>	instance number 1...4 (default 1)
ManyToOneTx	Many to one port mirroring egress traffic
ManyToOneRxTx	Many to one port mirroring ingress & egress traffic
ManyToOneRx	Many to one port mirroring ingress traffic
Xrx	Mirror packets received on port X
XrxYtxOrYrxXtx	Mirror packets received on port X and transmitted on port Y, or packets received on port Y and transmitted on port X
XrxYtx	Mirror packets received on port X and transmitted on port Y
XrxOrYtx	Mirror packets received on port X or transmitted on port Y

XrxOrXtx	Mirror packets received or transmitted on port X
Xtx	Mirror packets transmitted on port X
Adst	Mirror packets with destination MAC address A
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
mirror-MAC-A <H.H.H>	Set mirroring MAC address A (i.e. H.H.H or xx:xx:xx:xx:xx:xx or xx.xx.xx.xx.xx.xx or xx-xx-xx-xx-xx-xx)
mirror-MAC-B <H.H.H>	Set mirroring MAC address B (i.e. H.H.H or xx:xx:xx:xx:xx:xx or xx.xx.xx.xx.xx.xx or xx-xx-xx-xx-xx-xx)
mode	Set port mirroring mode
monitor-port <LINE>	Set port mirroring monitor port
destination-port <LINE>	Specify RSPAN destination port
rspan-vlan <2- 4094>	Specify RSPAN VLAN

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## preference

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

### Syntax

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

### Default

None

### Command mode

DHCP Guard Configuration

### Command parameters

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

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## psnp-interval

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

### Syntax

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

### Default

None

### Command mode

ISIS Router Configuration

### Command parameters

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



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## qos acl-assign

Creates access-list assignment.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<WORD>	1..16 character string
<1-55000>	Access-list assignment ID
<name>	Specify the access-list to reference
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

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

### Default

None

### Command mode

Global Configuration

### Command parameters

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

```
deferred-pass>  
session-id <1-  
4294967295>
```

Specify the session ID.

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## qos agent aq-mode

Modifies the Auto QOS application traffic processing mode.

### Syntax

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

### 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

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

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>maximum</code>	Maximum amount of resource sharing.
<code>large</code>	Medium amount of resource sharing.
<code>regular</code>	Minimum amount of resource sharing.



# Command: qos agent dos-attack-prevention

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## qos agent dos-attack-prevention

Enable the QoS DoS Attack Prevention

### Syntax

- `default qos agent dos-attack-prevention`
- `no qos agent dos-attack-prevention [enable]`
- `qos agent dos-attack-prevention [enable] [max-ipv4-icmp <0-1023>] [max-ipv6-icmp <0-16383>] [min-tcp-header <0-255>] [status-tracking] [enable]`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>status-tracking</code>	Enable status tracking
<code>enable</code>	Enable the QoS DoS Attack Prevention
<code>max-ipv4-icmp &lt;0-1023&gt;</code>	Specify the maximum IPv4 ICMP packet size in bytes
<code>max-ipv6-icmp &lt;0-16383&gt;</code>	Specify the maximum IPv6 ICMP packet size
<code>min-tcp-header &lt;0-255&gt;</code>	Specify the minimum TCP header size in bytes

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## qos agent nvram-delay

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

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

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

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## qos agent oper-mode

Enables the QoS operational mode.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
enable	QoS enabled globally





# Command: qos agent queue-set

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## qos agent queue-set

Modifies the default QoS CoS queue set.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<1-8>	queue set value

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# Command: qos agent reset-default

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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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# Command: qos agent reset-partial-default

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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

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

### Default

None

### Command mode

Global Configuration

### Command parameters

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

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## qos agent ubp

Modifies the QoS UBP support level.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

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

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## qos classifier

Creates classifier set entry.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

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

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## qos classifier-block

Creates classifier block entry.

### Syntax

- `no qos classifier-block <1-55000>`
- `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]`

### Default

None

### Command mode

Global Configuration

### Command parameters

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

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## qos clear-queue-stats

Clears all Quality of Service (QoS) queue statistics.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

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

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# Command: qos clear-stats

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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

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

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<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>name &lt;WORD&gt;</code>	Specify label for the egress mapping
<code>lp &lt;0-7&gt;</code>	Specify the 802.1p priority associated with the target DSCP
<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

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## qos if-action-extension

Creates interface actions extension entry.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
name <WORD>	Specify Interface Action label
egress-non-ucast <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
<1-55000>	Specify the Interface Action ID
session-id <1-4294967295>	Specify the session ID



# Command: qos if-assign (Ethernet Interface Configuration)

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## qos if-assign (Ethernet Interface Configuration)

Adds ports to an interface group.

### Syntax

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

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

Parameter	Description
<code>port &lt;portlist&gt;</code>	Enter the ports to add to interface group
<code>name &lt;WORD&gt;</code>	Specify name of interface group

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# Command: qos if-assign (Global Configuration)

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## qos if-assign (Global Configuration)

Adds interfaces to interface groups.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>port &lt;LINE&gt;</code>	Specify list of ports
<code>name &lt;WORD&gt;</code>	Specify name of interface group

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## qos if-group

Creates interface group.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
untrustedv4v6	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)
untrustedbasic	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.
untrusted	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)
class name <WORD>	Specify class of traffic received on interfaces associated with this interface group Specify name of interface group
trusted	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)
unrestricted	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)

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## qos if-queue-shaper

Creates an egress queue shaper for one or more interfaces.

### Syntax

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

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

Parameter	Description
name <WORD>	Specifies an alphanumeric label used to identify the QoS interface queue shaper. Value is a character string ranging from 1–16 characters in length.
shape-min-rate <0-10230000>	Specifies the minimum QoS interface queue shaping rate, in kilobits per second (Kbps). Values range from 0 to 10230000 Kbps.
port <portlist>	Specifies the port or list of ports for which to apply egress queue shaping
shape-rate <0-10230000>	Specifies the QoS interface queue shaping rate, in kilobits per second (Kbps). Values range from 0 to 10230000 Kbps
queue <1-8>	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.

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## qos if-shaper

Configures the interface shaping parameters for a set of ports.

### Syntax

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



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## qos ingressmap

Configures the 802.1p to DSCP associations.

### Syntax

- default qos ingressmap
- qos ingressmap { [name <WORD>] [1p <0-7> ds <0-63>] }

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
name <WORD>	Specify label for the ingress mapping
1p <0-7>	Specify the 802.1p user priority used as lookup key for DSCP assignment at ingress
ds <0-63>	Specify the DSCP value associated with the target 802.1p priority

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## qos ip-acl

Creates IP access-list element.

### Syntax

- no qos ip-acl {<1-55000> | all}
- 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-ip <0 - 7>] [set-drop-prec {high drop | low drop}] [block <WORD>]}

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
addr-type <ipv4   ipv6>	Specify the address type (IPv4, IPv6) classifier criteria
dst-ip {A.B.C.D}/<0-32>	Specify the destination IP classifier criteria
drop-action {enable   disable}	Specify the drop action
ds-field <0-63>	Specify the DSCP classifier criteria
protocol <0-255>	Specify the IPv4 protocol classifier criteria
flow-id 0x0-0xffff	Specify the IPv6 flow identifier classifier criteria
next_header <0-255>	Specify the IPv6 next header 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
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
block <WORD>	Specify the label to identify access-list elements that are of the same block
name <WORD>	Specify the label used to reference the access-list element
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

update-dscp <0 - 63>

Specify the update DSCP

update-1p <0 - 7>

Specify the update user priority

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## qos ip-element

Creates IP classifier element entry.

### Syntax

- no qos ip-element <1-55000>
- 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 <0x00-0xffffffff>] [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>]

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
name <WORD>	Specify name of ip-element
addr-type <ipv4   ipv6>	Specify the address type (IPv4, IPv6) classifier criteria
dst-ip {A.B.C.D}/<0-32>	Specify the destination IP classifier criteria
ds-field <0-63>	Specify the DSCP classifier criteria
ip-flag <LINE>	Specify the IP fragment flag criteria
ipv4-option <no-opt with-opt>	Specify the IPv4 option criteria
protocol <0-255>	Specify the IPv4 protocol classifier criteria
flow-id <0x00-0xffffffff>	Specify the IPv6 flow identifier classifier criteria
next-header <0-255>	Specify the IPv6 next header 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
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
session-id <1-4294967295>	Specify the session ID
src-ip {A.B.C.D}/<0-32>	Specify the source IP 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

- `no qos l2-acl {<1-55000> | all}`
- `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>]`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<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>drop-action {enable   disable}</code>	Specify the drop action
<code>ethertype &lt;0x0-0xFFFF&gt;</code>	Specify the ethertype classifier criteria
<code>block &lt;WORD&gt;</code>	Specify the label to identify access-list elements that are of the same block
<code>set-drop-prec {high drop   low drop}</code>	Specify the set drop precedence
<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>update-dscp &lt;0-63&gt;</code>	Specify the update DSCP
<code>update-1p &lt;0-7&gt;</code>	Specify the update user priority
<code>priority &lt;0-7&gt;  All</code>	Specify the user priority classifier criteria
<code>vlan-min &lt;1-4094&gt; vlan-max &lt;1-4094&gt;</code>	Specify the Vlan ID minimum and maximum value classifier criteria
<code>vlan-tag &lt;tagged   untagged&gt;</code>	Specify the vlan tag classifier criteria



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## qos l2-element

Creates L2 classifier element entry .

### Syntax

- no qos l2-element <1-55000>
- qos l2-element <1-55000> [dst-mac <H.H.H>] [dst-mac-mask <H.H.H>] [ethertype <0x00-0xffff>] [name <WORD>] [pkt-type <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>]

### Default

None

### Command mode

Global Configuration

### Command parameters

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





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## qos meter

Creates meter entry.

### Syntax

- no qos meter <1-55000>
- 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>]

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
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
<1-5000>	Specify the meter ID
name <WORD>	Specify the meter label
out-profile-action <1,9-55000>	Specify the out-profile action ID
out-profile-action-name <WORD>	Specify the out-profile action name
session-id <1-4294967295>	Specify the session ID



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## qos policy

Creates the Quality of Service (QoS) policy entry.

### Syntax

- no qos policy <1-55000> [enable]
- 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 <1-15> [track-statistics <individual | aggregate>]} [session-id <1-4294967295>]

### Default

None

### Command mode

Global Configuration

### Command parameters

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

<code>port &lt;LINE&gt;</code>	Specifies the port to apply policy.
<code>precedence &lt;1-14&gt;</code>	Specifies the precedence of this policy in relation to other policies associated with the same interface group.
<code>session-id &lt;1-4294967295&gt;</code>	Specifies the session ID.
<code>track-statistics</code> <code>&lt;individual   aggregate&gt;</code>	Specifies to track statistics on policy.

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## qos queue-set-assignment

Configures the 802.1p priority to queue.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

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

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## qos system-element

Creates system classifier element entry.

### Syntax

- `no qos system-element <1-55000>`
- `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>]`

### Default

None

### Command mode

Global Configuration

### Command parameters

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

<1-55000>

## Specify the system classifier element ID

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## qos traffic-profile classifier

Creates QoS Traffic Profile classifier entry.

### Syntax

- `no qos traffic-profile classifier [name <WORD>] [eval-order <1-255>]`
- `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>] [stage <egress>] [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-ip {<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}]`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>committed-burst-size &lt;burst sizeoptions&gt;</code>	Specifies the committed burst size in KiloBytes.
<code>dst-ip A.B.C.D/&lt;0-32&gt;</code>	Specifies the destination IP classifier criteria
<code>dst-mac &lt;H.H.H&gt;</code>	Specifies the destination MAC classifier criteria
<code>drop-out-action {disable   enable}</code>	Specifies the drop out-of-profile action
<code>ds-field &lt;0-63&gt;</code>	Specifies the DSCP classifier criteria
<code>flow-id &lt;0x0-0xFFFF&gt;</code>	Specifies the flow identifier for IPv6 packets. Values range from 0x0 to 0xFFFF hexadecimal.
<code>next-header &lt;0-255&gt;</code>	Specifies the IPv6 next-header value. Values range from 0–255.

<code>src-mac-mask &lt;src-mac-mask&gt;</code>	Specifies the MAC source address mask of incoming packets.
<code>dst-mac-mask &lt;dst-mac-mask&gt;</code>	Specifies the mask for the MAC address against which the MAC destination address of incoming packets is compared.
<code>max-burst-duration &lt;1-4294967295&gt;</code>	Specifies the maximum burst duration in milliseconds (ms). Values range from 1 to 4294967295 ms. You configure this parameter when a committed metering rate is specified.
<code>max-burst-rate &lt;64-4294967295&gt;</code>	Specifies the maximum burst rate. Values range from 64 to 4294967295 Kbps. You configure this parameter when a committed metering rate is specified.
<code>dst-port-max &lt;0-65535&gt;</code>	Specifies the maximum value for the Layer 4 destination port classifier.
<code>src-port-max &lt;0-65535&gt;</code>	Specifies the maximum value for the Layer 4 source port number in a packet.
<code>vlan-max &lt;1-4094&gt;</code>	Specifies the maximum VLAN ID value for the classifier.
<code>stage &lt;egress&gt;</code>	Specifies the stage to apply the filter.
<code>stage &lt;egress&gt;</code>	Specifies the stage to apply the filter.
<code>master</code>	Specify as the master member of the block
<code>addr-type {ipv4   ipv6}</code>	Specify the address type (IPv4, IPv6) classifier criteria
<code>committed-rate 64-10230000&gt;</code>	Specify the committed rate value
<code>drop-action {disable   enable}</code>	Specify the drop action
<code>ethertype &lt;0x0-0xFFFF&gt;</code>	Specify the ethertype classifier criteria
<code>eval-order &lt;1-255&gt;</code>	Specify the evaluation order
<code>pkt-type {etherII   llc   snap}</code>	Specify the filter packet format ethertype encoding criteria
<code>ip-flag &lt;LINE&gt;</code>	Specify the IP fragment flag criteria
<code>ipv4-option {no-opt   with -opt}</code>	Specify the IPv4 option criteria
<code>protocol &lt;0-255&gt;</code>	Specify the IPv4 protocol classifier criteria
<code>dst-port-min &lt;0-65535&gt;</code>	Specify the L4 destination port minimum value classifier criteria
<code>src-port-min &lt;0-65535&gt;</code>	Specify the L4 source port minimum value classifier criteria
<code>block &lt;WORD&gt;</code>	Specify the label to identify access-list elements that are of the same block
<code>name &lt;WORD&gt;</code>	Specify the label used to reference the Traffic Profile entry
<code>update-dscp-out-action &lt;0-63&gt;</code>	Specify the remark DSCP out-of-profile action
<code>set-drop-prec {high-drop   low-drop}</code>	Specify the set drop precedence
<code>set-drop-prec-out-</code>	

action {high-drop   low-drop}	Specify the set drop precedence out-of-profile action
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
tcp-control <LINE>	Specify the TCP control criteria
update-dscp <0-63>	Specify the update DSCP
update-1p {<0-7>   use-egress   use-tos-prec}	Specify the update user priority
priority <0-7>  All	Specify the user priority classifier criteria
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 traffic-profile set

Creates QoS Traffic Profile set.

### Syntax

- no qos traffic-profile set [port <LINE>] [name <WORD>] [enable]
- 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>}]

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

## qos ubp classifier

Creates QoS UBP entries.

### Syntax

- no qos ubp [name <WORD>] [eval-order <1-255>]
- 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}]

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
master	Specify as the master member of the block
addr-type {ipv4   ipv6}	Specify the address type (IPv4, IPv6) 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
drop-action {disable   enable}	Specify the drop action
ds-field <0-63>	Specify the DSCP classifier criteria
ethertype <0x0-0xFFFF>	Specify the ethertype classifier criteria
eval-order <1-255>	Specify the evaluation order
pkt-type {etherII   llc   snap}	Specify the filter packet format ethertype encoding criteria
ip-flag <LINE>	Specify the IP fragment flag criteria
ipv4-option {no-opt   with -opt}	Specify the IPv4 option criteria
protocol <0-255>	Specify the IPv4 protocol classifier criteria
dst-port-min <0-65535>	Specify the L4 destination port minimum value classifier criteria

<code>src-port-min &lt;0-65535&gt;</code>	Specify the L4 source port minimum value classifier criteria
<code>block &lt;WORD&gt;</code>	Specify the label to identify access-list elements that are of the same block
<code>name &lt;WORD&gt;</code>	Specify the label used to reference the Traffic Profile entry
<code>set-drop-prec {high-drop   low-drop}</code>	Specify the set drop precedence
<code>src-ip &lt;A.B.C.D/&lt;0-32&gt;</code>	Specify the source IP classifier criteria
<code>src-mac &lt;H.H.H&gt;</code>	Specify the source MAC classifier criteria
<code>tcp-control &lt;LINE&gt;</code>	Specify the TCP control criteria
<code>update-dscp &lt;0-63&gt;</code>	Specify the update DSCP
<code>update-1p {&lt;0-7&gt;   use-egress   use-tos-prec}</code>	Specify the update user priority
<code>priority &lt;0-7&gt;  All</code>	Specify the user priority classifier criteria
<code>vlan-min &lt;1-4094&gt;</code>	Specify the Vlan ID minimum value classifier criteria
<code>vlan-tag {tagged  untagged}</code>	Specify the vlan tag classifier criteria

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## qos ubp set

Creates QoS UBP set.

### Syntax

- no qos ubp set [name <WORD>]
- 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>}]

### 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
set-priority <1-255>	Specify the filter set priority
name <WORD>	Specify the label used to reference the Traffic Profile entry.
max-burst-rate <64-4294967295>	Specify the maximum burst rate value
track-statistics {aggregate   disable   individual}	Specify to track statistics on policy



# Command: quickconfig (Global configuration)

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## quickconfig (Global configuration)

Enables quick config.

### Syntax

- default quickconfig
- no quickconfig enable
- quickconfig enable

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
enable	Enable quick config

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# Command: quickconfig (Privileged Executive)

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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

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

- default radius dynamic-server {[client] {A.B.C.D} [secret] [enable] [port] [process-disconnect-requests] [process-change-of-auth-requests] [process-reauthentication-requests]} | [replay-protection]
- no radius dynamic-server {[client] {A.B.C.D} [secret] [enable] [process-disconnect-requests] [process-change-of-auth-requests] [process-reauthentication-requests]} | [replay-protection]
- radius dynamic-server {[client] {A.B.C.D} [secret] [port <1024-65535>] [enable] [process-disconnect-requests] [process-change-of-auth-requests] [process-reauthentication-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.
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.
enable	Enable packet receive from this RADIUS Dynamic Authorization Client.
process-reauthentication-requests	Enable reauthentication requests processing
secret	Set RADIUS Dynamic Authorization Client secret.
port <1024-65535>	Set server/NAS UDP port to listen for requests from this RADIUS Dynamic Authorization Client.



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## radius reachability

Configure RADIUS server reachability settings.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

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



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## radius server

Configures RADIUS server settings.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

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

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## radius-server

Configures RADIUS server password fallback.

### Syntax

- `default radius-server encapsulation| password fallback`
- `no radius-server {encapsulation [ms-chap-v2] [pap]} | password fallback`
- `radius-server {encapsulation [ms-chap-v2] [pap]} | password fallback`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>ms-chap-v2</code>	MS-CHAP-V2 protocol
<code>pap</code>	PAP protocol
<code>encapsulation</code>	RADIUS encapsulation protocol
<code>fallback</code>	RADIUS password fallback
<code>password</code>	RADIUS password fallback





# Command: radius-server encapsulation

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## radius-server encapsulation

Enables Change Radius Password

### Syntax

- `default radius-server encapsulation ms-chap-v2`
- `no radius-server encapsulation ms-chap-v2`
- `radius-server encapsulation ms-chap-v2`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>ms-chap-v2</code>	Enables Microsoft Challenge-Handshake Authentication Protocol version 2 (MS-CHAP-V2)

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## radius use-management-ip

Enables Radius use-management-ip flag.

### Syntax

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

### Default

None

### Command mode

Global Configuration

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## rate-limit

Configures rate-limiting on the port.

### Syntax

- `default rate-limit [port <portlist>]`
- `no rate-limit [port <portlist>]`
- `rate-limit [port <portlist>] {multicast <pct> | broadcast <pct> | both {<pct> | percent <0-10> | pps <0-262143>}}`

### 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>percent</code>	Changes rate-limit in percent
<code>pps</code>	Changes rate-limit in pps
<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

- `default redistribute {direct | rip | static} enable metric metric-type route-policy subnets`
- `no redistribute {direct | isis | rip | static} enable route-policy`
- `redistribute {direct | rip | static} [enable] [metric <0-65535>] [metric-type {type1 | type2}] [route-policy <WORD>] [subnets {allow | suppress}]`

### Default

None

### Command mode

OSPF Router Configuration

### Command parameters

Parameter	Description
<code>direct</code>	Configure OSPF redistribution policies for direct routes
<code>isis</code>	Configure OSPF redistribution policies for ISIS routes
<code>rip</code>	Configure OSPF redistribution policies for RIP routes
<code>static</code>	Configure OSPF redistribution policies for static routes
<code>enable</code>	Enable this ospf redistribute policy
<code>metric-type {type1   type2}</code>	Specifies the metric type to associate with the route redistribution.
<code>metric &lt;0-65535&gt;</code>	Specifies the metric value to associate with the route redistribution.
<code>route-policy &lt;WORD&gt;</code>	Specifies the route policy to associate with route redistribution. This is the name of a previously configured route map.
<code>subnets {allow   suppress}</code>	Specifies the subnet advertisement setting of this route redistribution. This determines whether individual subnets are advertised.



# Command: redistribute (ISIS Router Configuration)

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## redistribute (ISIS Router Configuration)

Configures isis redistribution policies.

### Syntax

- `redistribute {direct | static} enable`
- `no redistribute {ospf [route-policy] | rip[route-policy] } enable`
- `default redistribute {direct | ospf | rip | static} enable`

### Default

None

### Command mode

ISIS Router Configuration

### Command parameters

Parameter	Description
<code>direct</code>	Configures isis redistribution policies for direct routes.
<code>static</code>	Configures isis redistribution policies for static routes.
<code>no</code>	Deletes isis redistribution policies.

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## reload

Reloads the switch/stack.

### Syntax

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

### Default

None

### Command mode

Privileged Executive

### Command parameters

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

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# Command: remote connection

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## remote connection

Enables or disables SSHC and Telnet on device.

### Syntax

- `remote connection {enable | disable}`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
disable	Disables SSHC and Telnet on device.
enable	Enables SSHC and Telnet on device.

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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





# Command: renumber

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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
-y	Do not prompt
factory-default	Reset stack/switch to factory default configurations

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## retransmit-lsp-interval

Configures the minimum time between retransmission of an LSP.

### Syntax

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

### Default

5

### Command mode

ISIS Router Configuration

### Command parameters

Parameter	Description
<code>&lt;1-300&gt;</code>	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.



# Command: rfc1583-compatibility

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## rfc1583-compatibility

Configures OSPF RFC 1583 compatibility.

### Syntax

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

### Default

None

### Command mode

OSPF Router Configuration

### Command parameters

Parameter	Description
enable	Enable RFC-1583 compatibility mode

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## rip

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

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

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

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## rmon alarm

Creates RMON Alarm entries.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>absolute</code>	Absolute sampling type
<code>&lt;WORD&gt;</code>	Alarm variable (OID)
<code>delta</code>	Delta sampling type
<code>&lt;1-65535&gt;</code>	falling event index
<code>&lt;1-65535&gt;</code>	Index of entry
<code>&lt;1-65535&gt;</code>	rising event index
<code>&lt;1-2147483647&gt;</code>	Sampling interval (seconds)
<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

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## rmon event

Creates RMON Event entries.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<1-65535>	Index of entry
community <LINE>	Specify community string
description <LINE>	Specify description of event
log	Specify events should be logged
owner <LINE>	Specify owner string
trap	Specify that events should generate traps

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## rmon history

Creates RMON History entries.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
LINE <1-65535>	Data source (port number)
<1-65535>	Index of entry
<1-3600>	Sampling interval (seconds)
owner <LINE>	Specify owner string



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## rmon stats

Creates RMON Stats entries.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<LINE>	Data source (port number)
<1-65535>	Index of entry
owner <LINE>	Specify owner string

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## role

Configures a role.

### Syntax

- `role <role_name>`
- `role <role_name> [show-only <command_group_A> | show-config <command_group_B>]`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>show-only</code> <code>&lt;command_group_A&gt;</code>	Specifies the group of commands for which the specified role will have show-only privileges.
<code>&lt;role_name&gt;</code>	Specifies the name of the role.
<code>show-config</code> <code>&lt;command_group_B&gt;</code>	Specifies the group of commands for which the specified role will have full privileges (show, configure, no and default).

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## route-map

Adds/modifies an IP route policymap.

### Syntax

- `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}]`
- `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}]`
- `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}]`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>match</code>	Configure match criteria
<code>deny</code>	Deny the route policy
<code>enable</code>	Enable route map policy
<code>&lt;1-65535&gt;</code>	Index used to identify a specific policy in the route policy group
<code>&lt;WORD&gt;</code>	Name used to group a set of policies with different sequence number
<code>permit</code>	Permit the route policy
<code>mask {A.B.C.D}</code>	Set Mask Ip Address
<code>network &lt;WORD&gt;</code>	Set match network (can specify one or more prefix list name)
<code>protocol &lt;LINE&gt;</code>	Set match protocol
<code>interface &lt;WORD&gt;</code>	Set match received interface.(Only for rip routes. Ignored in
<code>metric &lt;0-65535&gt;</code>	Set match the metric field in the incoming advertisement Set metric type for the routes to be imported into OSPF

<code>metric-type &lt;type 1   type 2&gt;</code>	routing protocol, which passed the matching criteria configured in this route policy
<code>metric &lt;0-65535&gt;</code>	Set metric used while sending an update for the routes that match the matching criteria in this route policy
<code>nssa-pbit</code>	Set P bit in specified type 7 LSA
<code>route-source &lt;WORD&gt;</code>	Set route source (on RIP is RIP interface)
<code>route-type &lt;any   external   external-1   external-2   internal   local&gt;</code>	Set route type
<code>next-hop &lt;WORD&gt;</code>	Set the next hop (RIP interface)
<code>injectlist &lt;WORD&gt;</code>	Specifies the prefix list to be used either for injecting the routes into the routing table or to include the networks in the advertisement.
<code>ip-preference &lt;0-255&gt;</code>	Specifies the route preference value to be assigned to the routes that this policy applies to

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## router-id

Configures the router ID.

### Syntax

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

### Default

None

### Command mode

OSPF Router Configuration

### Command parameters

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

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## router isis

Changes router ISIS mode configuration.

### Syntax

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

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

### Default

None

### Command mode

Global Configuration

### Command parameters

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

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## router-preference maximum

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

### Syntax

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

### Default

By default the value is none.

### Command mode

RA Guard Configuration

### Command parameters

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



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## router rip

Changes RIP config settings.

### Syntax

- `default router rip {enable | ipv6-enable}`
- `no router rip {enable | ipv6-enable}`
- `router rip {enable | ipv6-enable}`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>enable</code>	Enable RIP config settings
<code>ipv6-enable</code>	Enable RIPng

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## router vrrp

Changes VRRP config settings.

### Syntax

- `default router vrrp enable`
- `no router vrrp enable`
- `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 | spbm}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
adac	Scripted CLI commands for ADAC setup
lldp	Scripted CLI commands for LLDP setup
ipoffice	Scripted CLI commands for setup with IP Office solutions
spbm	Scripted CLI commands for SPBM 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 | spbm}`

### Default

None

### Command mode

User Executive

### Command parameters

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



# Command: save

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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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# Command: script run (Global configuration)

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

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# Command: script run (Privileged Executive)

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

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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] [aaa] [aur] [adac] [arp-inspection] [asset-id] [arp] [banner] [brouter] [cfm] [core] [default-cmd-interface] [dhcp-relay] [dhcp-snooping] [eap] [energy-saver] [igmp] [interface] [ip] [ip-source-guard] [ipfix] [ipmgr] [ipv6] [l3] [l3-protocols] [lcp] [link-state] [logging] [mac-security] [mlt] [mvr] [poe] [port-mirroring] [qos] [rate-limit] [rmon] [rtc] [sflow] [slamon] [slpp] [snmp] [spbm] [ssh] [sshc] [ssl] [stack] [stkmon] [stp] [vlacp] [vlan]}`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
ssh	Copies SSH configuration
sshc	Copies SSHC configuration
ssl	Copies SSL configuration
802.1ab	Copies the 802.1ab configuration.
aur	Copies the AUR configuration.
adac	Copies the ADAC configuration.
arp-inspection	Copies the ARP Inspection configuration.
asset-id	Copies the asset ID configuration.
arp	Copies the ARP configuration.
brouter	Copies the brouter configuration.
module	Copies the configuration of an application.
cfm	Copies the Connectivity Fault Management (CFM) configuration.
core	Copies the core configuration.
banner	Copies the custom banner configuration.
dhcp-relay	Copies the DHCP Relay configuration.
dhcp-snooping	Copies the DHCP Snooping configuration.
eap	Copies the EAP configuration.
fa	Copies the Fabric Attach configuration.



igmp	Copies the IGMP configuration.
interface	Copies the interface configuration.
ip	Copies the IP configuration.
ipmgr	Copies the IP Manager configuration.
ip-source-guard	Copies the IP Source Guard configuration.
ipfix	Copies the IPFIX configuration.
ipv6	Copies the IPv6 configuration.
lacp	Copies the LACP configuration.
l3	Copies the Layer 3 configuration.
l3-protocols	Copies the Layer 3 protocols configuration.
link-state	Copies the Link State Tracking configuration.
mac-security	Copies the MAC Security configuration.
mlt	Copies the MLT configuration.
mld	Copies the Multicast Listener Discovery (MLD) configuration.
energy-saver	Copies the NES configuration.
poe	Copies the PoE configuration.
port-mirroring	Copies the Port Mirroring configuration.
pim	Copies the Protocol Independent Multicast (PIM) configuration.
qos	Copies the QoS configuration.
rate-limit	Copies the Rate Limiting configuration.
rmon	Copies the RMON configuration.
rtc	Copies the RTC configuration.
slamon	Copies the SLAMon configuration.
slpp	Copies the SLPP configuration.
snmp	Copies the SNMP configuration.
spbm	Copies the SPBM configuration.
stack	Copies the stack configuration.
stkmon	Copies the stack monitor configuration.
storm-control	Copies the storm-control configuration.
stp	Copies the STP configuration.
logging	Copies the System Logging configuration.
vlacp	Copies the VLACP configuration.
vlan	Copies the VLAN configuration.
aaa	Display AAA Configuration
verbose	Upload both default and non-default ASCII configuration.
mvr	
sflow	

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## script upload (Privileged Executive)

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

### Syntax

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

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>pim</code>	Copies the Protocol Independent Multicast (PIM) configuration.
<code>802.1ab</code>	Copies the 802.1ab configuration.
<code>aur</code>	Copies the AAUR configuration.
<code>adac</code>	Copies the ADAC configuration.
<code>arp-inspection</code>	Copies the ARP Inspection configuration.
<code>asset-id</code>	Copies the Asset ID configuration.
<code>aur</code>	Copies the AUR configuration.
<code>brouter</code>	Copies the brouter configuration.
<code>module</code>	Copies the configuration of an application.
<code>cfm</code>	Copies the Connectivity Fault Management (CFM) configuration.
<code>core</code>	Copies the core configuration.
<code>banner</code>	Copies the custom banner configuration.
<code>dhcp-relay</code>	Copies the DHCP Relay configuration.
<code>dhcp-snooping</code>	Copies the DHCP Snooping configuration.
<code>eap</code>	Copies the EAP configuration.
<code>fa</code>	Copies the Fabric Attach (FA) configuration.
<code>igmp</code>	Copies the IGMP configuration.
<code>interface</code>	Copies the interface configuration.

ip	Copies the IP configuration.
ipmgr	Copies the IP manager configuration.
ip-source-guard	Copies the IP Source Guard configuration.
ipfix	Copies the IPFIX configuration.
ipv6	Copies the IPv6 configuration.
lACP	Copies the LACP configuration.
l3	Copies the Layer 3 configuration.
l3-protocols	Copies the Layer 3 protocols configuration.
mac-security	Copies the MAC Security configuration.
mlt	Copies the MLT configuration.
mld	Copies the Multicast Listener Discovery (MLD) configuration.
energy-saver	Copies the NES configuration.
port-mirroring	Copies the Port Mirroring configuration.
poe	Copies the power over Ethernet (PoE) configuration.
qos	Copies the Quality of Service (QoS) configuration.
rate-limit	Copies the Rate Limiting configuration.
rmon	Copies the remote monitoring (RMON) configuration.
rtc	Copies the RTC configuration.
spbm	Copies the Shortest Path Bridging MAC (SPBM) configuration.
slamon	Copies the SLAMon configuration.
slpp	Copies the SLPP configuration.
snmp	Copies the SNMP configuration.
stack	Copies the stack configuration.
stkmon	Copies the stack monitor configuration.
storm-control	Copies the storm control configuration.
stp	Copies the STP configuration.
logging	Copies the System Logging configuration.
vlACP	Copies the VLACP configuration.
vlan	Copies the VLAN configuration.
<1-127>	Specifies index in ASCII configuration script table.
verbose	Upload both default and non-default ASCII configuration.



# Command: serial-console

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## serial-console

Enables serial console port.

### Syntax

- `default serial-console serial-console [unit <1-8>] [enable]`
- `no serial-console [unit <1-8>] [enable]`
- `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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# Command: serial-security

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## serial-security

Serial security settings.

### Syntax

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

### Default

None

### Command mode

Global Configuration

### Command parameters

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

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# Command: sflow enable

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## sflow enable

Enables or disables sFlow on the switch.

### Syntax

- `sflow enable`
- `no sflow enable`
- `default sflow enable`

### Default

None

### Command mode

Global Configuration

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# Command: sflow (Ethernet Interface Configuration)

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## sflow (Ethernet Interface Configuration)

Configures sFlow on the switch.

### Syntax

- `sflow [port <portlist>] collector <1-4>`
- `sflow [port <portlist>] counter-interval <1-3600>`
- `sflow [port <portlist>] max-header-size <64-256>`
- `sflow [port <portlist>] sampling-rate <ingress | egress> <4096-1000000>`
- `no sflow collector <1-4>`
- `default sflow collector <1-4>`
- `no sflow counter-interval`
- `default sflow counter-interval`
- `no sflow sampling-rate [ingress | egress]`
- `default sflow sampling-rate [ingress | egress]`
- `no sflow max-header-size`
- `default sflow max-header-size`

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

Parameter	Description
<code>collector &lt;1-4&gt;</code>	Specifies the Collector ID.
<code>counter-interval &lt;1-3600&gt;</code>	Specifies the counter on the pooling interval on the port.
<code>max-header-size &lt;64-256&gt;</code>	Specifies the maximum captured header size.
<code>portlist</code>	Specifies the port on the device.
<code>sampling-rate [egress   ingress] &lt;4096-1000000&gt;</code>	Specifies the sampling rate on the port.





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## sflow (Global configuration)

Configures sFlow on the switch.

### Syntax

- `sflow collector <1-4> address <a.b.c.d> | <ipv6addr> [owner <word>] [port <1-65535>]`
- `sflow collector <1-4> [max-datagram-size <400-9216>] [timeout <0-65535>]`
- `no sflow collector <1-4>`
- `default sflow collector <1-4>`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>collector &lt;1-4&gt;</code>	Specifies the Collector ID.
<code>address</code>	Specifies the IPv4 address or IPv6 address.
<code>max-datagram-size &lt;400-9216&gt;</code>	Specifies the maximum size of the datagram packets. The default is 1400.
<code>owner &lt;word&gt;</code>	Specifies the owner that created the entry (maximum length 20).
<code>timeout &lt;0-65535&gt;</code>	Specifies the timeout until collector is deleted. The default is 0.
<code>port &lt;1-65535&gt;</code>	Specifies the UDP port number. The default UDP port is 6343.

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## sftp-server

Configure the sftp-server

### Syntax

- `default sftp-server`
- `no sftp-server`
- `sftp-server [<ipv6_address> | <A.B.C.D>]`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>&lt;A.B.C.D&gt;</code>	Specifies the IP address of SFTP server
<code>&lt;ipv6_address&gt;</code>	Specifies the IPv6 address of SFTP server

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## shared-port

Configures shared-port setting.

### Syntax

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

### 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



# Command: show adac

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## show adac

Displays ADAC configuration.

### Syntax

- show adac

### Default

None

### Command mode

Privileged Executive

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# Command: show adac detection

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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
Ethernet	Ethernet IEEE 802.3
<LINE>	List of ports
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
Ethernet	Ethernet IEEE 802.3
<LINE>	List of ports

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# Command: show adac mac-range-table

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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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# Command: show application (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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# Command: show application (User Executive)

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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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# Command: show arp (Privileged Executive)

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## show arp (Privileged Executive)

Display ARP entries.

### Syntax

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

### Default

None

### Command mode

Privileged Executive

### Command parameters

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



# Command: show arp-table (Privileged Executive)

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## show arp-table (Privileged Executive)

Displays system ARP table.

### Syntax

- `show arp-table [mgmt-port]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>mgmt-port</code>	Displays the number of ARP entries.

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# Command: show arp-table (User Executive)

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## show arp-table (User Executive)

Displays system ARP table.

### Syntax

- `show arp-table [mgmt-port]`

### Default

None

### Command mode

User Executive

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## show arp (User Executive)

Displays ARP entries.

### Syntax

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

### Default

None

### Command mode

User Executive

### Command parameters

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

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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
log	Display audit log
asccfg	Display audit log for ASCII configuration
serial	Display audit log for serial connection
telnet	Display audit log for telnet/ssh
config	Display audit log save config



# Command: show auto-negotiation-advertisements

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

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# Command: show auto-negotiation-capabilities

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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
port	Display auto-negotiation-capabilities for specified ports
<LINE>	List of ports

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# Command: show auto-pvid (Privileged Executive)

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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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# Command: show auto-pvid (User 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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# Command: show autosave

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## show autosave

Displays current autosave setting.

### Syntax

- `show autosave`

### Default

None

### Command mode

Privileged Executive

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# Command: show autotopology

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

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## show banner

Shows banner information.

### Syntax

- `show banner {custom | static | usg}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>custom</code>	Display custom banner
<code>static</code>	Display static banner
<code>usg</code>	Display the U.S. Government banner

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# Command: show boot (Privileged Executive)

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## show boot (Privileged Executive)

Displays boot settings.

### Syntax

- `show boot {diag | image [primary] [secondary]}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
image	Display information about images
diag	Display information about the diag images
primary	Display primary image software version
secondary	Display secondary image software version

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## show boot (User Executive)

Displays boot settings.

### Syntax

- `show boot {diag | image [primary] [secondary]}`

### Default

None

### Command mode

User Executive

### Command parameters

Parameter	Description
image	Display information about images
diag	Display information about the diag images
primary	Display primary image software version
secondary	Display secondary image software version



# Command: show brouter (Privileged Executive)

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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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# Command: show brouter (User Executive)

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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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# Command: show certificate ca

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## show certificate ca

Displays Certificate Authority data.

### Syntax

### Default

None

### Command mode

User Executive

### Command parameters

Parameter	Description
detail	Display a detailed view of all certificates.
WORD<1-45>	Displays the name of the certificate authority.

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# Command: show certificate key

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## show certificate key

Displays information about key pairs.

### Syntax

### Default

None

### Command mode

User Executive

### Command parameters

Parameter	Description
detail	Display a detailed view of all key pairs.
WORD<1-45>	Displays the name of the key pair.

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# Command: show certificate subject

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## show certificate subject

Displays the Distinguished Name of the device.

### Syntax

### Default

None

### Command mode

User Executive

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# Command: show certificate trust-store

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## show certificate trust-store

Displays trusted CA certificates

### Syntax

### Default

None

### Command mode

User Executive

### Command parameters

Parameter	Description
file WORD<1-45>	Displays the name of the file.

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# Command: show cfm (Privileged Executive)

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## show cfm (Privileged Executive)

Displays CFM information.

### Syntax

- `show cfm spbm`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
spbm	Display CFM SPBM information

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# Command: show cfm (User Executive)

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## show cfm (User Executive)

Displays CFM information.

### Syntax

- `show cfm spbm`

### Default

None

### Command mode

User Executive

### Command parameters

Parameter	Description
spbm	Display CFM SPBM information

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## show cli-command-group

Displays command group information.

### Syntax

- `show cli-command-group <group_name>`
- `show cli-command-group`

### Default

None

### Command mode

User Executive

### Command parameters

Parameter	Description
<code>&lt;group_name&gt;</code>	Specifies the command group for which to display information.

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# Command: show cli info

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## show cli info

Displays general Console settings.

### Syntax

- show cli info

### Default

None

### Command mode

Privileged Executive

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## show cli list

Display the CLI tree list.

### Syntax

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

### Default

None

### Command mode

Privileged Executive

### Command parameters

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



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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
type	Display passwords types

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## show clock

Displays current time.

### Syntax

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

### Default

None

### Command mode

Privileged Executive

### Command parameters

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



# Command: show config-network

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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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# Command: show cpu-utilization (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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# Command: show cpu-utilization (User Executive)

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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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# Command: show ddi-logging (Privileged Executive)

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## show ddi-logging (Privileged Executive)

Displays DDI Logging on ports

### Syntax

- `show ddi-logging`

### Default

None

### Command mode

Privileged Executive

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# Command: show ddi-logging (User Executive)

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## show ddi-logging (User Executive)

Displays DDI Logging on ports

### Syntax

- `show ddi-logging`

### Default

None

### Command mode

User Executive

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# Command: show diagnostics-quick-mode (Privileged Executive)

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## show diagnostics-quick-mode (Privileged Executive)

Displays diagnostics

### Syntax

- `show diagnostics-quick-mode`

### Default

None

### Command mode

Privileged Executive

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## show eapol

Displays current settings of the EAPOL protocol.

### Syntax

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

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>non-eap-mac{interface &lt;LINE&gt; status &lt;LINE&gt;}</code>	Display allowed non-EAPoL MAC addresses
<code>verbose</code>	Display detailed EAPOL multihost port status
<code>port</code>	Display EAPOL configuration for specified ports
<code>auth-diags</code>	Display EAPOL diags
<code>guest-vlan</code>	Display EAPOL guest-vlan settings
<code>fail-open-vlan</code>	Display EAPoL multihost fail-open-vlan settings
<code>multihost</code>	Display EAPOL multi-host information
<code>interface</code>	Display EAPOL multihost port configuration
<code>status</code>	Display EAPOL multihost port status
<code>voip-vlan</code>	Display EAPoL multihost voip-vlan settings
<code>auth-stats</code>	Display EAPOL statistics
<code>summary</code>	Display summary of authenticated clients
<code>verbose</code>	Displays detailed output.
<code>dummy-adac-radius-requests</code>	Displays dummy radius requests status
<code>non-eap-pwd-fmt</code>	Displays Non-EAP Password Format
<code>key</code>	Displays Non-EAP Password Key
<code>interface &lt;LINE&gt;</code>	Select interfaces to be displayed
<code>acct-session-id</code>	Show accounting session id format

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## show eapol sessions

Displays information on MACs for EAP sessions.

### Syntax

- `show eapol sessions { [port <portmask>] | [dhcp-phones] | [[eap] | [non-eap [radius] [local] [adac-lldp] [adac-mac-range] [held] [mhsa]] | [[unauthenticated [intruder] [guest-vlan] [fail-open-vlan] [mhsa-no-limit]]]}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>eap</code>	Displays authenticated EAPOL sessions.
<code>non-eap</code>	Displays authenticated non-EAPOL clients.
<code>intruder</code>	Displays intruder MACs.
<code>local</code>	Displays locally authenticated non-EAPOL clients.
<code>fail-open-vlan</code>	Displays MACs of clients in Fail Open VLAN.
<code>dhcp-phones</code>	Displays MACs of DHCP Phones.
<code>adac-mac-range</code>	Displays neap sessions with macs in the adac mac range list.
<code>mhsa-no-limit</code>	Displays non-EAP sessions for MHSAs when no-limit is enabled.
<code>mhsa</code>	Displays non-EAP sessions for MHSAs.
<code>radius</code>	Displays non-EAPOL clients authenticated by RADIUS.
<code>adac-lldp</code>	Displays non-EAPOL clients authenticated through ADAC.
<code>held</code>	Displays unauthenticated clients held by RADIUS.
<code>guest-vlan</code>	Displays unauthenticated clients in Guest VLAN.
<code>unauthenticated</code>	Displays unauthenticated EAPOL and non-EAPOL clients.
<code>interface &lt;portlist&gt;</code>	Specifies the interfaces for which to display information. Select a port or a list of ports for which to display information.
<code>port &lt;portmask&gt;</code>	Specifies the numeric slot/port format.







# Command: show ecmp (Privileged Executive)

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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



# Command: show edm (Privileged 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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# Command: show energy-saver interface (Privileged Executive)

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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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# Command: show energy-saver interface (User Executive)

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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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# Command: show energy-saver (Privileged Executive)

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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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# Command: show energy-saver savings (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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# Command: show energy-saver savings (User 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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# Command: show energy-saver schedule (Privileged 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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# Command: show energy-saver schedule (User 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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# Command: show energy-saver (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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# Command: show enhanced-secure-mode

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## show enhanced-secure-mode

Displays the status of Enhanced Secure Mode.

### Syntax

### Default

None

### Command mode

User Executive

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# Command: show enhanced-secure-mode (Privileged Executive)

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## show enhanced-secure-mode (Privileged Executive)

Displays Enhanced Secure Mode status.

### Syntax

- show enhanced-secure-mode

### Default

None

### Command mode

Privileged Executive

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# Command: show enhanced-secure-mode (User Executive)

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## show enhanced-secure-mode (User Executive)

Displays Enhanced Secure Mode status.

### Syntax

- show enhanced-secure-mode

### Default

None

### Command mode

User Executive

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# Command: show environmental (Privileged 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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# Command: show environmental (User 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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# Command: show fa (Privileged Executive)

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## show fa (Privileged Executive)

Displays Fabric Attach specific settings.

### Syntax

- `show fa {agent | assignment<1-16777214> | elements [client-type] | i-sid <1-16777214> | interface {disabled-auth | disabled-port | enabled-auth | enabled-port | LINE} | port-enable <LINE> | uplink | vlan <LINE> | zero-touch-options [client-data]}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
assignment <1-16777214>	Display Fabric Attach configured UNIs
interface	Display Fabric Attach port settings
uplink	Display Fabric Attach uplink data
disabled-auth	Display only disabled authorized ports
disabled-port	Display only disabled ports
enabled-auth	Display only enabled authorized ports
enabled-port	Display only enabled ports
elements	Displays discovered Fabric Attach elements.
client-data	Displays FA Client type information.
vlan	Displays Fabric Attach VLANs.
zero-touch-client	Displays Fabric Attach Zero Touch Client specifications
zero-touch-options	Displays Fabric Attach Zero Touch option settings.
agent	Displays the Fabric Attach agent status.
i-sid <1-16777214>	Displays the Fabric Attach configured user-to-network interface (UNIs).
port-enable <LINE> <LINE>	Displays the Fabric Attach port settings. List of ports

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## show fa (User Executive)

Displays Fabric Attach specific settings.

### Syntax

- `show fa {agent | assignment<1-16777214> | elements [client-type] | i-sid <1-16777214> | interface {disabled-auth | disabled-port | enabled-auth | enabled-port | LINE} | port-enable <LINE> | uplink | vlan <LINE> | zero-touch-options [client-data] | statistics [summary | <portlist>] | zero-touch-client}`

### Default

None

### Command mode

User Executive

### Command parameters

Parameter	Description
<code>assignment &lt;1-16777214&gt;</code>	Display Fabric Attach configured UNIs
<code>interface</code>	Display Fabric Attach port settings
<code>uplink</code>	Display Fabric Attach uplink data
<code>disabled-auth</code>	Display only disabled authorized ports
<code>disabled-port</code>	Display only disabled ports
<code>enabled-auth</code>	Display only enabled authorized ports
<code>enabled-port</code>	Display only enabled ports
<code>elements</code>	Displays discovered Fabric Attach elements.
<code>client-data</code>	Displays FA Client type information.
<code>vlan</code>	Displays Fabric Attach VLANs.
<code>zero-touch-client</code>	Displays Fabric Attach Zero Touch Client specifications
<code>zero-touch-options</code>	Displays Fabric Attach Zero Touch option settings.
<code>statistics</code>	Displays the FA summary and per-port statistics counters.
<code>agent</code>	Displays the Fabric Attach agent status.
<code>i-sid &lt;1-16777214&gt;</code>	Displays the Fabric Attach configured user-to-network interface (UNIs).
<code>port-enable &lt;LINE&gt;</code>	Displays the Fabric Attach port settings.
<code>&lt;LINE&gt;</code>	List of ports





# Command: show flash (Privileged 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
history	Display FLASH writes
unit <1-8>	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
history	Display FLASH writes
unit <1-8>	Unit number



# Command: show http-port

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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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# Command: show https-only

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## show https-only

Displays secure only status.

### Syntax

- `show https-only`

### Default

None

### Command mode

Global Configuration

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# Command: show https-port

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## show https-port

Display the TCP port on which web server will listen when SSL is enabled

### Syntax

- show https-port

### Default

None

### Command mode

Privileged Executive

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# Command: show interfaces (Privileged Executive)

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## show interfaces (Privileged Executive)

Shows the interface status and configuration.

### Syntax

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

### Default

None

### Command mode

Privileged Executive

### Command parameters

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



# Command: show interfaces (User Executive)

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## show interfaces (User Executive)

Displays interface status and configuration.

### Syntax

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

### Default

None

### Command mode

User Executive

### Command parameters

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



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

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

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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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# Command: show ip arp-inspection (Privileged Executive)

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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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# Command: show ip arp-inspection (User Executive)

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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
vlan <LINE>	Display ARP inspection VLAN information

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# Command: show ip arp-proxy (Privileged Executive)

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## show ip arp-proxy (Privileged Executive)

Displays Proxy ARP status.

### Syntax

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

### Default

None

### Command mode

Privileged Executive

### Command parameters

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

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# Command: show ip arp-proxy (User Executive)

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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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# Command: show ip blocking-mode (Privileged Executive)

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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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# Command: show ip blocking-mode (User 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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# Command: show ip-blocking (Privileged 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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# Command: show ip-blocking (User 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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# Command: show ip default-ttl (Privileged Executive)

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## show ip default-ttl (Privileged Executive)

Displays default TTL.

### Syntax

- `show ip default-ttl`

### Default

None

### Command mode

Privileged Executive

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# Command: show ip default-ttl (User 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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# Command: show ip dhcp (Privileged 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
client	DHCP client
lease	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



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

[Home](#) | [Command modes](#) | [Alphabetical listing](#)

## 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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# Command: show ip dhcp-relay counters (User 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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# Command: show ip dhcp-relay fwd-path (Privileged Executive)

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

Displays DHCP relay global configuration.

### Syntax

- `show ip dhcp-relay fwd-path summary`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
summary	Display DHCP relay fwd-path summary

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# Command: show ip dhcp-relay fwd-path (User Executive)

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

Displays DHCP relay global configuration.

### Syntax

- `show ip dhcp-relay fwd-path summary`

### Default

None

### Command mode

User Executive

### Command parameters

Parameter	Description
summary	Display DHCP relay fwd-path summary

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## show ip dhcp-relay interface

Displays DHCP relay per-interface configuration.

### Syntax

- `show ip dhcp-relay interface {ethernet | vlan<1-4094>} <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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# Command: show ip dhcp-snooping binding (Privileged Executive)

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## show ip dhcp-snooping binding (Privileged Executive)

Displays DHCP snooping binding table.

### Syntax

- `show ip dhcp-snooping binding [ address <A.B.C.D> | <H.H.H> ] [ summary ] [ port <LINE>] [ unit <1-8> ]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>port &lt;LINE&gt;</code>	Display DHCP snooping binding table entries for specific port
<code>unit &lt;1-8&gt;</code>	Display DHCP snooping binding table entries for specific unit
<code>address &lt;A.B.C.D&gt;   &lt;H.H.H&gt;</code>	Display DHCP snooping binding table entry for specific MAC or IP address
<code>summary</code>	Display DHCP snooping binding table summary

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# Command: show ip dhcp-snooping binding (User Executive)

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## show ip dhcp-snooping binding (User Executive)

Displays DHCP snooping binding table.

### Syntax

- `show ip dhcp-snooping binding [ address <A.B.C.D> | <H.H.H> ] [ summary ] [ port <LINE>] [ unit <1-8> ]`

### Default

None

### Command mode

User Executive

### Command parameters

Parameter	Description
<code>port &lt;LINE&gt;</code>	Display DHCP snooping binding table entries for specific port
<code>unit &lt;1-8&gt;</code>	Display DHCP snooping binding table entries for specific unit
<code>address &lt;A.B.C.D&gt;   &lt;H.H.H&gt;</code>	Display DHCP snooping binding table entry for specific MAC or IP address
<code>summary</code>	Display DHCP snooping binding table summary

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# Command: show ip dhcp-snooping external-save (Privileged Executive)

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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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# Command: show ip dhcp-snooping external-save (User 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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# Command: show ip dhcp-snooping interface (Privileged 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
Ethernet	Ethernet IEEE 802.3
<LINE>	List of ports

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# Command: show ip dhcp-snooping interface (User Executive)

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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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# Command: show ip dhcp-snooping (Privileged Executive)

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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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# Command: show ip dhcp-snooping (User 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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# Command: show ip dhcp-snooping vlan (Privileged 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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# Command: show ip dhcp-snooping vlan (User Executive)

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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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# Command: show ip dhcp (User Executive)

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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
client	DHCP client
lease	DHCP client lease

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# Command: show ip directed-broadcast (Privileged Executive)

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## show ip directed-broadcast (Privileged Executive)

Displays directed-broadcast forwarding mode.

### Syntax

- `show ip directed-broadcast [interface] [vlan <1-4094>]`

### Default

None

### Command mode

Privileged Executive

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# Command: show ip directed-broadcast (User Executive)

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## show ip directed-broadcast (User Executive)

Displays directed-broadcast forwarding mode.

### Syntax

- `show ip directed-broadcast [interface] [vlan <1-4094>]`

### Default

None

### Command mode

User Executive

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# Command: show ip dns (Privileged 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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# Command: show ip dns (User 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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# Command: show ip forward-protocol (Privileged 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
<code>udp</code>	Displays UDP ports configured
<code>interface</code>	Display interface configuration
<code>portfwdlist</code>	Displays UDP fwdlists configured
<code>vlan &lt;1-4094&gt;</code>	Layer 3 IP VLAN

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# Command: show ip forward-protocol (User Executive)

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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
<code>interface</code>	Display interface configuration
<code>portfwdlist &lt;1-128&gt;</code>	Displays UDP fwdlists configured
<code>udp</code>	Displays UDP ports configured
<code>vlan &lt;1-4094&gt;</code>	Layer 3 IP VLAN

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## show ip fwd-nh

Display IP forwarding next-hop policies

### Syntax

- `show ip fwd-nh [policy [<WORD>]][interface [vlan <1-4094>]]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
interface	Display IP forwarding next-hop per-interface settings
policy [<WORD>]	Display IP forwarding next-hope policies
vlan <1-4094>	Select a VLAN interface

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# Command: show ip igmp cache

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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



# Command: show ip igmp interface

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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



# Command: show ip igmp router-alert

[Home](#) | [Command modes](#) | [Alphabetical listing](#)

## 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 sender

Displays IGMP sender details.

### Syntax

- `show ip igmp sender{count | group <A.B.C.D> | member-subnet <A.B.C.D>/<0-32> | vlan <1-4094>}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
count	Display count of entries
group <A.B.C.D>	Display selected destination
member-subnet <A.B.C.D>/<0-32>	Display selected member subnet
vlan <1-4094>	Selects a VLAN interface

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## show ip igmp snooping

Displays IGMP snooping information.

### Syntax

- show ip igmp snooping

### Default

None

### Command mode

Privileged Executive





# Command: show ip igmp snoop-querier-addr

[Home](#) | [Command modes](#) | [Alphabetical listing](#)

## show ip igmp snoop-querier-addr

Displays IGMP information.

### Syntax

- `show ip igmp snoop-querier-addr`

### 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



# Command: show ip ipfix collector (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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# Command: show ip ipfix collector (User Executive)

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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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# Command: show ip ipfix interface (Privileged Executive)

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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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# Command: show ip ipfix interface (User Executive)

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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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# Command: show ip ipfix (Privileged Executive)

[Home](#) | [Command modes](#) | [Alphabetical listing](#)

## show ip ipfix (Privileged Executive)

Displays IPFIX settings.

### Syntax

- show ip ipfix

### Default

None

### Command mode

Privileged Executive

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# Command: show ip ipfix slot (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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# Command: show ip ipfix slot (User Executive)

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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
ascending	Ascending order
byte-count	Byte number
descending	Descending order
dest-addr	Destination address
all	Display all entries
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
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  
TOS

TCP/UDP source port  
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
ascending	Ascending order
byte-count	Byte number
descending	Descending order
dest-addr	Destination address
all	Display all entries
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
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  
TOS

TCP/UDP source port  
TOS

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# Command: show ip ipfix (User Executive)

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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 isis

Displays IS-IS related information.

### Syntax

- `show ip isis redistribute`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>redistribute</code>	Display IS-IS redistribute configuration

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# Command: show ip mgmt (Privileged Executive)

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## show ip mgmt (Privileged Executive)

Displays management information.

### Syntax

- show ip mgmt [switch]
- show ip mgmt all
- show ip mgmt route
- show ip mgmt route

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
route	Display management VLAN information

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# Command: show ip mgmt (User Executive)

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## show ip mgmt (User Executive)

Displays management information.

### Syntax

- show ip mgmt [switch]
- show ip mgmt all
- show ip mgmt route

### Default

None

### Command mode

User Executive

### Command parameters

Parameter	Description
route	Display management VLAN information
all	Show the mgmt ip address from all the units in the stack
switch	Show the mgmt switch ip address

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## show ipmgr

Displays IP Manager settings.

### Syntax

- `show ipmgr {IPv4 | IPv6}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
IPv4	Displays only IPv4 information.
IPv6	Displays only IPv6 information.

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# Command: show ip mroute interface

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## show ip mroute interface

Display general multicast information.

### Syntax

- `show ip mroute interface [vlan <1-16>]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>vlan &lt;1-4094&gt;</code>	Displays VLAN interfaces.

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# Command: show ip mroute next-hop

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## show ip mroute next-hop

Display multicast next-hop information.

### Syntax

- show ip mroute next-hop

### Default

None

### Command mode

Privileged Executive

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# Command: show ip mroute route

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## show ip mroute route

Display multicast route information.

### Syntax

- show ip mroute route

### Default

None

### Command mode

Privileged Executive

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# Command: show ip netstat (Privileged Executive)

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## show ip netstat (Privileged Executive)

Shows ip tcp/udp connections and services.

### Syntax

- `show ip netstat {tcp | udp}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>tcp</code>	Displays ip tcp connections and services
<code>udp</code>	Displays ip udp endpoints

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# Command: show ip netstat (User Executive)

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## show ip netstat (User Executive)

Shows ip tcp/udp connections and services.

### Syntax

- `show ip netstat {tcp | udp}`

### Default

None

### Command mode

User Executive

### Command parameters

Parameter	Description
tcp	Displays ip tcp connections and services
udp	Displays ip udp endpoints

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# Command: show ip num-routes (Privileged Executive)

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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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# Command: show ip num-routes (User 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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# Command: show ip ospf accept (Privileged 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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# Command: show ip ospf accept (User 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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# Command: show ip ospf area (Privileged 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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# Command: show ip ospf area-range (Privileged Executive)

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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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# Command: show ip ospf area-range (User Executive)

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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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# Command: show ip ospf area (User Executive)

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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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# Command: show ip ospf ase (Privileged Executive)

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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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# Command: show ip ospf ase (User 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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# Command: show ip ospf authentication (Privileged 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
interface	Display interface MD5 keys
virtual-links	Display virtual link MD5 keys
Ethernet	Ethernet IEEE 802.3
vlan <1-4094>	Layer 3 IP VLAN
<LINE>	List of ports

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# Command: show ip ospf authentication (User Executive)

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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
interface	Display interface MD5 keys
virtual-links	Display virtual link MD5 keys
Ethernet	Ethernet IEEE 802.3
vlan <1-4094>	Layer 3 IP VLAN
<LINE>	List of ports

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# Command: show ip ospf default-cost (Privileged Executive)

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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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# Command: show ip ospf default-cost (User 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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# Command: show ip ospf host-route (Privileged 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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# Command: show ip ospf host-route (User 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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# Command: show ip ospf ifstats (Privileged 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
mismatch	Area ID not matched
detail	Display detailed information
[A.B.C.D]	Interface IP address

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# Command: show ip ospf ifstats (User Executive)

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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
mismatch	Area ID not matched
detail	Display detailed information
[A.B.C.D]	Interface IP address

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# Command: show ip ospf int-auth (Privileged Executive)

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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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# Command: show ip ospf int-auth (User Executive)

[Home](#) | [Command modes](#) | [Alphabetical listing](#)

## 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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# Command: show ip ospf interface (Privileged 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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# Command: show ip ospf interface (User Executive)

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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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# Command: show ip ospf int-timers (Privileged Executive)

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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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# Command: show ip ospf int-timers (User 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

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## show ip ospf lsdb (Privileged Executive)

Displays OSPF link state database.

### Syntax

- `show ip ospf lsdb [area {A.B.C.D}] [lsa-type {as-external-link | as-summary-link | multicast-link | network-link | nssa-extlink | router-link | summary-link}] [lsid {A.B.C.D}] [adv-rtr {A.B.C.D}] [detail {A.B.C.D}]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>adv-rtr {A.B.C.D}</code>	Advertising router
<code>area {A.B.C.D}</code>	Area
<code>as-external-link</code>	AS External LSA
<code>as-summary-link</code>	AS Summary LSA
<code>detail {A.B.C.D}</code>	Display detailed lsdb information
<code>lsa-type</code>	Link state advertisement type
<code>lsid {A.B.C.D}</code>	Link state ID
<code>multicast-link</code>	Multicast LSA
<code>network-link</code>	Network LSA
<code>nssa-extlink</code>	NSSA LSA
<code>router-link</code>	Router LSA
<code>summary-link</code>	Summary LSA

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## show ip ospf lsdb (User Executive)

Displays OSPF link state database.

### Syntax

- `show ip ospf lsdb [area {A.B.C.D}] [lsa-type {as-external-link | as-summary-link | multicast-link | network-link | nssa-extlink | router-link | summary-link}] [lsid {A.B.C.D}] [adv-rtr {A.B.C.D}] [detail {A.B.C.D}]`

### Default

None

### Command mode

User Executive

### Command parameters

Parameter	Description
<code>adv-rtr {A.B.C.D}</code>	Advertising router
<code>area {A.B.C.D}</code>	Area
<code>as-external-link</code>	AS External LSA
<code>as-summary-link</code>	AS Summary LSA
<code>detail {A.B.C.D}</code>	Display detailed lsdb information
<code>lsa-type</code>	Link state advertisement type
<code>lsid {A.B.C.D}</code>	Link state ID
<code>multicast-link</code>	Multicast LSA
<code>network-link</code>	Network LSA
<code>nssa-extlink</code>	NSSA LSA
<code>router-link</code>	Router LSA
<code>summary-link</code>	Summary LSA



# Command: show ip ospf neighbor (Privileged Executive)

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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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# Command: show ip ospf neighbor (User Executive)

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## show ip ospf neighbor (User Executive)

Displays OSPF neighbors.

### Syntax

- show ip ospf neighbor

### Default

None

### Command mode

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# Command: show ip ospf (Privileged 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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# Command: show ip ospf redistribute (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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# Command: show ip ospf redistribute (User Executive)

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## show ip ospf redistribute (User Executive)

Displays OSPF redistribution policy.

### Syntax

- show ip ospf redistribute

### Default

None

### Command mode

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# Command: show ip ospf stats (Privileged 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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# Command: show ip ospf stats (User Executive)

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## show ip ospf stats (User Executive)

Displays global statistics.

### Syntax

- show ip ospf stats

### Default

None

### Command mode

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# Command: show ip ospf timer (Privileged 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
virtual-links	Display configured OSPF virtual link timer values
interface	Display interface timer settings
vlan <1-4094>	Layer 3 IP VLAN

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# Command: show ip ospf timer (User Executive)

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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
virtual-links	Display configured OSPF virtual link timer values
interface	Display interface timer settings
vlan <1-4094>	Layer 3 IP VLAN

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# Command: show ip ospf (User Executive)

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## show ip ospf (User Executive)

Displays global OSPF settings.

### Syntax

- show ip ospf

### Default

None

### Command mode

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# Command: show ip ospf virtual-links (Privileged 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

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# Command: show ip ospf virtual-links (User 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

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# Command: show ip ospf virtual-neighbors (Privileged 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

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# Command: show ip ospf virtual-neighbors (User 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

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# Command: show ip pim

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## show ip pim

Display the global Protocol Independent Multicast-Sparse Mode (PIM-SM) properties.

### Syntax

- `show ip pim`

### Default

None

### Command mode

Privileged Executive

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## show ip pim active-rp

Display the active rendezvous points for Protocol Independent Multicast (PIM).

### Syntax

- `show ip pim active-rp [group <A.B.C.D>]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>group &lt;A.B.C.D&gt;</code>	Specifies the group to display.

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# Command: show ip pim bsr

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## show ip pim bsr

Display the bootstrap router settings for Protocol Independent Multicast (PIM).

### Syntax

- show ip pim bsr

### Default

None

### Command mode

Privileged Executive

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## show ip pim interface

Display Protocol Independent Multicast (PIM) for each interface setting.

### Syntax

- `show ip pim interface [enabled] [vlan <1-4094>]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>enabled</code>	Displays only admin enabled Protocol Independent Multicast (PIM) interfaces.
<code>vlan &lt;1-4094&gt;</code>	Displays VLAN interfaces.

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# Command: show ip pim mode

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## show ip pim mode

Display the Protocol Independent Multicast (PIM) mode.

### Syntax

- show ip pim mode

### Default

None

### Command mode

Privileged Executive

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## show ip pim mroute

Display the Protocol Independent Multicast (PIM) multicast routes.

### Syntax

- `show ip pim mroute [count] [group <A.B.C.D>] [source <A.B.C.D>] [summary]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>group</code> <code>&lt;A.B.C.D&gt;</code>	Displays specific groups by IP address.
<code>source</code> <code>&lt;A.B.C.D&gt;</code>	Displays specific sources by IP address.
<code>summary</code>	Displays summary information of Protocol Independent Multicast (PIM) multicast routes.
<code>count</code>	Displays the count of entries.

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## show ip pim neighbor

Display the global Protocol Independent Multicast-Sparse Mode (PIM-SM) neighbors.

### Syntax

- `show ip pim neighbor`

### Default

None

### Command mode

Privileged Executive



# Command: show ip pim rp-candidate

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## show ip pim rp-candidate

Display the Protocol Independent Multicast (PIM) candidate rendezvous points.

### Syntax

- `show ip pim rp-candidate [group <A.B.C.D>]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>group &lt;A.B.C.D&gt;</code>	Displays specific groups by IP address.

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# Command: show ip pim rp-hash

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## show ip pim rp-hash

Display the Protocol Independent Multicast rendezvous point set and hash.

### Syntax

- `show ip pim rp-hash`

### Default

None

### Command mode

Privileged Executive

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# Command: show ip pim static-rp

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## show ip pim static-rp

Display the statically configured Protocol Independent Multicast rendezvous point.

### Syntax

- `show ip pim static-rp`

### Default

None

### Command mode

Privileged Executive

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# Command: show ip pim virtual-neighbor

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## show ip pim virtual-neighbor

Display the Protocol Independent Multicast virtual neighbor.

### Syntax

- `show ip pim virtual-neighbor`

### Default

None

### Command mode

Privileged Executive

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# Command: show ip prefix-list (Privileged Executive)

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## show ip prefix-list (Privileged Executive)

Displays IP prefix lists.

### Syntax

- `show ip prefix-list [<WORD>] [prefix {A.B.C.D}]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>prefix {A.B.C.D}</code>	Ip prefix
<code>&lt;WORD&gt;</code>	Name of the prefix list

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# Command: show ip prefix-list (User Executive)

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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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# Command: show ip (Privileged Executive)

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## show ip (Privileged Executive)

Displays IP-related information.

### Syntax

- `show ip [bootp] [default-gateway] address {source | stack | switch | unit <1-8>}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>bootp</code>	Displays bootp settings
<code>default-gateway</code>	IP address of default gateway
<code>address</code>	IP address of switch/stack

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# Command: show ip rip interface (Privileged Executive)

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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
<code>enabled</code>	Display only enabled RIP interfaces
<code>ethernet &lt;LINE&gt;</code>	Ethernet IEEE 802.3
<code>&lt;1-4094&gt;</code>	Vlan ID
<code>vlan &lt;1-4094&gt;</code>	vlan interfaces only

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# Command: show ip rip interface (User Executive)

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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
enabled	Display only enabled RIP interfaces
Ethernet	Ethernet IEEE 802.3
LINE	List of ports
<1-4094>	Vlan ID
vlan	vlan interfaces only

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# Command: show ip rip (Privileged Executive)

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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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# Command: show ip rip stats (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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# Command: show ip rip stats (User 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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# Command: show ip rip (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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# Command: show ip route (Privileged 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] } | preference | summary | spbm-nh-as-mac`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>ospf</code>	Display IP OSPF route(s) information
<code>rip</code>	Display IP RIP route(s) information
<code>static</code>	Display IP static route(s) information
<code>summary</code>	Display summary of IP route information
<code>preference</code>	Displays route preference values.
<code>spbm-nh-as-mac</code>	Displays spbm route next hop as mac.
<code>A.B.C.D</code>	specify IP addr of route to be displayed
<code>-s</code>	specify subnet(s) of routes to be displayed
<code>&lt;subnet-mask&gt;</code>	subnet mask

[Home](#) | [Command modes](#) | [Alphabetical listing](#)

## show ip route (User Executive)

Displays IP route information.

### Syntax

- `show ip route {[ospf | rip | static] [-s {A.B.C.D} <subnet-mask>] [A.B.C.D] } | preference | summary | spbm-nh-as-mac`

### Default

None

### Command mode

User Executive

### Command parameters

Parameter	Description
<code>ospf</code>	Display IP OSPF route(s) information
<code>rip</code>	Display IP RIP route(s) information
<code>static</code>	Display IP static route(s) information
<code>summary</code>	Display summary of IP route information
<code>preference</code>	Displays route preference values.
<code>spbm-nh-as-mac</code>	Displays spbm route next hop as mac.
<code>A.B.C.D</code>	specify IP addr of route to be displayed
<code>-s</code>	specify subnet(s) of routes to be displayed
<code>&lt;subnet-ip&gt;</code>	subnet IP
<code>&lt;mask-ip&gt;</code>	subnet mask



# Command: show ip routing (Privileged Executive)

[Home](#) | [Command modes](#) | [Alphabetical listing](#)

## show ip routing (Privileged Executive)

Displays global routing enable/disable.

### Syntax

- show ip routing

### Default

None

### Command mode

Privileged Executive

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# Command: show ip routing (User Executive)

[Home](#) | [Command modes](#) | [Alphabetical listing](#)

## 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
<code>binding</code>	Display IP Source Guard address bindings
<code>&lt;WORD&gt;</code>	port list
<code>Ethernet</code>	Select Ethernet interfaces
<code>interface</code>	select interfaces
<code>A.B.C.D</code>	specify ip address for which to display binding entries

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# Command: show ip static-mroute (Privileged Executive)

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## show ip static-mroute (Privileged Executive)

Displays Ip static mroute settings

### Syntax

- `show ip static-mroute [ip A.B.C.D] [rpf A.B.C.D]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>ip {A.B.C.D}</code>	IP Address of the destination network
<code>rpf {A.B.C.D}</code>	Specifies the type of address for the reverse path forwarding address (ipv4).

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# Command: show ip static-mroute (User Executive)

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## show ip static-mroute (User Executive)

Displays Ip static mroute settings

### Syntax

- `show ip static-mroute [ip A.B.C.D] [rpf A.B.C.D]`

### Default

None

### Command mode

User Executive

### Command parameters

Parameter	Description
<code>ip {A.B.C.D}</code>	IP Address of the destination network
<code>rpf {A.B.C.D}</code>	Specifies the type of address for the reverse path forwarding address (ipv4).

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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
source	Display BOOTP/DHCP settings
stack	Display stack ip address
switch	Display the ip address of local unit
bootp	Displays bootp settings
default-gateway	IP address of default gateway
address	IP address of switch/stack
unit <1-8>	To display the IP address of another unit in a stack



# Command: show ipv6 address interface (Privileged Executive)

[Home](#) | [Command modes](#) | [Alphabetical listing](#)

## 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
summary	Display IPv6 interfaces summary
vlan <1-4094> <WORD>	Display per vlan addresses for IPv6 interfaces IPv6 Address, 45 length

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# Command: show ipv6 address interface (User Executive)

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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
summary	Displays IPv6 interfaces summary.
vlan <1-4094> <WORD>	Displays per vlan addresses for IPv6 interfaces. IPv6 Address, 45 length

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# Command: show ipv6 address (Privileged Executive)

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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
<code>unit &lt;1-8&gt;</code>	Display configured IPv6 address/prefix of another unit in a stack
<code>switch</code>	Display configured IPv6 address/prefix of local unit
<code>stack</code>	Display configured stack ipv6 address/prefix

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# Command: show ipv6 address (User Executive)

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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>unit &lt;1-8&gt;</code>	Display configured IPv6 address/prefix of another unit in a stack
<code>switch</code>	Display configured IPv6 address/prefix of local unit
<code>stack</code>	Display configured stack ipv6 address/prefix

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# Command: show ipv6 default-gateway (Privileged Executive)

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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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# Command: show ipv6 default-gateway (User 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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# Command: show ipv6 default-routers (Privileged Executive)

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## show ipv6 default-routers (Privileged Executive)

Displays IPv6 default routers configuration.

### Syntax

- `show ipv6 default-routers`

### Default

None

### Command mode

Privileged Executive

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# Command: show ipv6 default-routers (User Executive)

[Home](#) | [Command modes](#) | [Alphabetical listing](#)

## show ipv6 default-routers (User Executive)

Displays IPv6 default routers configuration.

### Syntax

- `show ipv6 default-routers`

### Default

None

### Command mode

User Executive

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# Command: show ipv6 destinationcache (Privileged Executive)

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## show ipv6 destinationcache (Privileged Executive)

Displays IPv6 destination cache information.

### Syntax

- show ipv6 destinationcache

### Default

None

### Command mode

Privileged Executive

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# Command: show ipv6 destinationcache (User Executive)

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## show ipv6 destinationcache (User Executive)

Displays IPv6 destination cache information.

### Syntax

- show ipv6 destinationcache

### Default

None

### Command mode

User Executive

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# Command: show ipv6 dhcp guard policy (Privileged Executive)

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## show ipv6 dhcp guard policy (Privileged Executive)

Displays the Dynamic Host Configuration Protocol (DHCP) guard policy information.

### Syntax

- `show ipv6 dhcp guard policy [<WORD>]`

### Default

None

### Command mode

Privileged Executive

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# Command: show ipv6 dhcp guard policy (User Executive)

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## show ipv6 dhcp guard policy (User Executive)

Displays the Dynamic Host Configuration Protocol (DHCP) guard policy information.

### Syntax

- `show ipv6 dhcp guard policy [<WORD>]`

### Default

None

### Command mode

User Executive

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# Command: show ipv6 dhcp-relay (Privileged Executive)

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## show ipv6 dhcp-relay (Privileged Executive)

Displays the Dynamic Host Configuration Protocol (DHCP)relay information.

### Syntax

- `show ipv6 dhcp-relay { [counters [interface vlan <1-4094>]] [fwd-path [summary]] | [interface vlan <1-4094>]] [interface [vlan <1-4094>]] [vlan <1-4094>] }`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
summary	Displays fwd-path summary
counters	Show dhcp-relay counter information
interface	Show dhcp-relay interface information
fwd-path	Show fwd-path information

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# Command: show ipv6 dhcp-relay (User Executive)

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## show ipv6 dhcp-relay (User Executive)

Displays the Dynamic Host Configuration Protocol (DHCP)relay information.

### Syntax

- `show ipv6 dhcp-relay { [counters [interface vlan <1-4094>]] [fwd-path [summary]] | [interface vlan <1-4094>]] [interface] [vlan <1-4094>]}`

### Default

None

### Command mode

User Executive

### Command parameters

Parameter	Description
counters	Show dhcp-relay counter information
interface	Show dhcp-relay interface information
fwd-path	Show fwd-path information

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# Command: show ipv6 fhs capture-policy (Privileged Executive)

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## show ipv6 fhs capture-policy (Privileged Executive)

Displays the Dynamic Host Configuration Protocol for IPv6 (DHCPv6)/Router Advertisement (RA) guard policy name configured, number of DHCPv6/RA packets received, number of DHCPv6/RA packets dropped, and if dynamic learning is enabled or disabled for neighbor discovery inspection configuration.

### Syntax

- `show ipv6 fhs capture-policy [interface <LINE>]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
Interface <LINE>	Displays the first hop security statistics for the port number specified.

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# Command: show ipv6 fhs capture-policy (User Executive)

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## show ipv6 fhs capture-policy (User Executive)

Displays the Dynamic Host Configuration Protocol for IPv6 (DHCPv6)/Router Advertisement (RA) guard policy name configured, number of DHCPv6/RA packets received, number of DHCPv6/RA packets dropped, and if dynamic learning is enabled or disabled for neighbor discovery inspection configuration.

### Syntax

- `show ipv6 fhs capture-policy [interface <LINE>]`

### Default

None

### Command mode

User Executive

### Command parameters

Parameter	Description
Interface <LINE>	Displays the first hop security statistics for the port number specified.

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# Command: show ipv6 fhs ipv6-access-list (Privileged Executive)

[Home](#) | [Command modes](#) | [Alphabetical listing](#)

## show ipv6 fhs ipv6-access-list (Privileged Executive)

Displays all of the configured IPv6 access lists in the system.

### Syntax

- `show ipv6 fhs ipv6-access-list [<WORD>]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<WORD>	Displays the IPv6 access list for the access list name specified.

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# Command: show ipv6 fhs ipv6-access-list (User Executive)

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## show ipv6 fhs ipv6-access-list (User Executive)

Displays all of the configured IPv6 access lists in the system.

### Syntax

- `show ipv6 fhs ipv6-access-list [<WORD>]`

### Default

None

### Command mode

User Executive

### Command parameters

Parameter	Description
<WORD>	Displays the IPv6 access list for the access list name specified.

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# Command: show ipv6 fhs mac-access-list (Privileged Executive)

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## show ipv6 fhs mac-access-list (Privileged Executive)

Displays all of the MAC access lists in the system.

### Syntax

- `show ipv6 fhs mac-access-list [<WORD>]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
-----------	-------------

<WORD>	Displays the IPv6 MAC access list for the MAC access list name specified.
--------	---

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# Command: show ipv6 fhs mac-access-list (User Executive)

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## show ipv6 fhs mac-access-list (User Executive)

Displays all of the MAC access lists in the system.

### Syntax

- `show ipv6 fhs mac-access-list [<WORD>]`

### Default

None

### Command mode

User Executive

### Command parameters

Parameter	Description
-----------	-------------

<WORD>	Displays the IPv6 MAC access list for the MAC access list name specified.
--------	---

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# Command: show ipv6 fhs status (Privileged Executive)

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## show ipv6 fhs status (Privileged Executive)

Displays the global first hop security (FHS) status, router advertisement (RA) guard status, Dynamic Host Configuration Protocol for IPv6 (DHCPv6), neighbor discovery (ND) inspection status, reachable timer value, stale timer value, down timer value and source binding table (SBT) entry overflow.

### Syntax

- `show ipv6 fhs status`

### Default

None

### Command mode

Privileged Executive

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# Command: show ipv6 fhs status (User Executive)

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## show ipv6 fhs status (User Executive)

Displays the global first hop security (FHS) status, router advertisement (RA) guard status, Dynamic Host Configuration Protocol for IPv6 (DHCPv6), neighbor discovery (ND) inspection status, reachable timer value, stale timer value, down timer value and source binding table (SBT) entry overflow.

### Syntax

- `show ipv6 fhs status`

### Default

None

### Command mode

User Executive

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# Command: show ipv6 forwarding (Privileged Executive)

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## show ipv6 forwarding (Privileged Executive)

Displays IPv6 forwarding information.

### Syntax

- show ipv6 forwarding

### Default

None

### Command mode

Privileged Executive

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# Command: show ipv6 forwarding (User Executive)

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## show ipv6 forwarding (User Executive)

Displays IPv6 forwarding information.

### Syntax

- show ipv6 forwarding

### Default

None

### Command mode

User Executive

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# Command: show ipv6 global (Privileged 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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# Command: show ipv6 global (User Executive)

[Home](#) | [Command modes](#) | [Alphabetical listing](#)

## show ipv6 global (User Executive)

Displays IPv6 global configuration.

### Syntax

- show ipv6 global

### Default

None

### Command mode

User Executive

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# Command: show ipv6 interface icmpstatistics (Privileged Executive)

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## show ipv6 interface icmpstatistics (Privileged Executive)

Displays IPv6 ICMP statistics.

### Syntax

- `show ipv6 interface icmpstatistics [loopback <1-16>] [mgmt] [tunnel <1-2147483647>] [vlan <1-4094>]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
loopback <1-16>	Displays by IPv6 loopback interface.
tunnel <1-2147483647>	Displays by tunnel.
vlan <1-4094>	Displays by VLAN.
mgmt	Out of band.

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# Command: show ipv6 interface icmpstatistics (User Executive)

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## show ipv6 interface icmpstatistics (User Executive)

Displays IPv6 ICMP statistics.

### Syntax

- `show ipv6 interface icmpstatistics [loopback <1-16>] [mgmt] [tunnel <1-2147483647>] [vlan <1-4094>}`

### Default

None

### Command mode

User Executive

### Command parameters

Parameter	Description
loopback <1-16>	Displays by IPv6 loopback interface.
tunnel <1-2147483647>	Displays by tunnel.
vlan <1-4094>	Displays by VLAN.
mgmt	Out of band.

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# Command: show ipv6 interface (Privileged Executive)

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## show ipv6 interface (Privileged Executive)

Displays interface information.

### Syntax

- `show ipv6 interface [loopback <1-16>][vlan <1-4094>] [icmpstatistics] [process-redirect] [statistics]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
loopback <1-16>	Displays by loopback interface.
tunnel <1-2147483647>	Displays by tunnel.
vlan <1-4094>	Displays by VLAN.
icmpstatistics	Displays IPv6 ICMP statistics.
statistics	Displays IPv6 statistics.

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# Command: show ipv6 interface process-redirect (Privileged Executive)

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## show ipv6 interface process-redirect (Privileged Executive)

Displays IPv6 processing redirect.

### Syntax

- `show ipv6 interface process-redirect [mgmt] [vlan <1-4094>]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>vlan &lt;1-4094&gt;</code>	Display processing redirect per vlan
<code>mgmt</code>	OOB mgmt interface

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# Command: show ipv6 interface process-redirect (User Executive)

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## show ipv6 interface process-redirect (User Executive)

Displays IPv6 processing redirect.

### Syntax

- `show ipv6 interface process-redirect [mgmt] [vlan <1-4094>]`

### Default

None

### Command mode

User Executive

### Command parameters

Parameter	Description
<code>vlan &lt;1-4094&gt;</code>	Displays by VLAN.
<code>mgmt</code>	OOB mgmt interface

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# Command: show ipv6 interface statistics (Privileged Executive)

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## show ipv6 interface statistics (Privileged Executive)

Displays IPv6 statistics.

### Syntax

- `show ipv6 interface statistics [loopback <1-16>] [mgmt] [tunnel <1-2147483647>] [vlan <1-4094>]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>loopback &lt;1-16&gt;</code>	Displays by loopback interface.
<code>tunnel &lt;1-2147483647&gt;</code>	Displays by tunnel.
<code>vlan &lt;1-4094&gt;</code>	Displays by VLAN.
<code>mgmt</code>	Out of band

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# Command: show ipv6 interface statistics (User Executive)

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## show ipv6 interface statistics (User Executive)

Displays IPv6 statistics.

### Syntax

- `show ipv6 interface statistics [loopback <1-16>] [mgmt] [tunnel <1-2147483647>] [vlan <1-4094>]`

### Default

None

### Command mode

User Executive

### Command parameters

Parameter	Description
loopback <1-16>	Displays by loopback interface.
tunnel <1-2147483647>	Displays by tunnel.
vlan <1-4094>	Displays by VLAN.
mgmt	Out of band

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# Command: show ipv6 interface (User Executive)

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## show ipv6 interface (User Executive)

Displays interface information.

### Syntax

- `show ipv6 interface [loopback <1-16>] [vlan <1-4094>] [icmpstatistics] [process-redirect] [statistics]`

### Default

None

### Command mode

User Executive

### Command parameters

Parameter	Description
<code>loopback &lt;1-16&gt;</code>	Displays IPv6 loopback interfaces.
<code>vlan &lt;1-4094&gt;</code>	Displays IPv6 VLAN interfaces.

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# Command: show ipv6 mgmt address (Privileged Executive)

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## show ipv6 mgmt address (Privileged Executive)

Displays IPv6 management addresses

### Syntax

- `show ipv6 mgmt address [unit <1-8>]`

### Default

None

### Command mode

User Executive

### Command parameters

Parameter	Description
<code>unit &lt;1-8&gt;</code>	Specifies the unit number.

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# Command: show ipv6 mgmt address (User Executive)

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## show ipv6 mgmt address (User Executive)

Displays IPv6 management addresses

### Syntax

- `show ipv6 mgmt address [unit <1-8>]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>unit &lt;1-8&gt;</code>	Specifies the unit number.

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# Command: show ipv6 mgmt default-gateway (Privileged Executive)

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## show ipv6 mgmt default-gateway (Privileged Executive)

Displays the Dynamic Host Configuration Protocol (DHCP) management gateway.

### Syntax

- `show ipv6 mgmt default-gateway`

### Default

None

### Command mode

Privileged Executive

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# Command: show ipv6 mgmt default-gateway (User Executive)

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## show ipv6 mgmt default-gateway (User Executive)

Displays the Dynamic Host Configuration Protocol (DHCP) management gateway.

### Syntax

- `show ipv6 mgmt default-gateway`

### Default

None

### Command mode

User Executive

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# Command: show ipv6 mgmt interface (Privileged Executive)

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## show ipv6 mgmt interface (Privileged Executive)

Display IPv6 management interface

### Syntax

- show ipv6 mgmt interface

### Default

None

### Command mode

Privileged Executive

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# Command: show ipv6 mgmt interface (User Executive)

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## show ipv6 mgmt interface (User Executive)

Display IPv6 management interface

### Syntax

- show ipv6 mgmt interface

### Default

None

### Command mode

User Executive

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# Command: show ipv6 mld-cache interface

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## show ipv6 mld-cache interface

Displays the learned multicast groups in the cache.

### Syntax

- `show ipv6 mld-cache interface [vlan <1-4094>]`

### Default

None

### Command mode

User Executive

### Command parameters

Parameter	Description
<code>vlan &lt;1-4094&gt;</code>	Displays by VLAN.

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# Command: show ipv6 mld-cache interface (Privileged Executive)

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## show ipv6 mld-cache interface (Privileged Executive)

Displays the learned multicast groups in the cache.

### Syntax

- `show ipv6 mld-cache interface [vlan <1-4094>]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>vlan &lt;1-4094&gt;</code>	Displays by VLAN.

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## show ipv6 mld group

Displays the learned multicast groups information.

### Syntax

- `show ipv6 mld group [count] [group <WORD>] [interface vlan <1-4094>] [member-subnet <WORD>] [port <LINE>]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>count</code>	Displays the count of entries.
<code>group &lt;WORD&gt;</code>	Displays the group by IPv6 address. <WORD> specifies the IPv6 address.
<code>member-subnet &lt;WORD&gt;</code>	Displays the subnet-mask for group member network by IPv6 address. <WORD> specifies the IPv6 address.
<code>interface vlan &lt;1-4094&gt;</code>	Displays the VLAN interfaces.
<code>port &lt;LINE&gt;</code>	Filters information by port number or a list of ports. <LINE> specifies the port or list of ports.

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## show ipv6 mld-host-cache

Displays the learned multicast groups in the host cache.

### Syntax

- `show ipv6 mld-host-cache [interface <1-4094>]`

### Default

None

### Command mode

User Executive

### Command parameters

Parameter	Description
<code>interface &lt;1-4094&gt;</code>	Displays by VLAN.

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# Command: show ipv6 mld-host-cache (Privileged Executive)

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## show ipv6 mld-host-cache (Privileged Executive)

Displays the learned multicast groups in the host cache.

### Syntax

- `show ipv6 mld-host-cache [interface <1-4094>]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>interface &lt;1-4094&gt;</code>	Displays by VLAN.

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## show ipv6 mld interface

Displays the learned multicast groups interface.

### Syntax

- `show ipv6 mld interface [vlan <1-4094>]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>vlan &lt;1-4094&gt;</code>	Displays by VLAN.

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## show ipv6 mld-proxy-cache

Displays MLD Proxy Cache.

### Syntax

- `show ipv6 mld-proxy-cache vlan <1-4094> group <WORD>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>group &lt;WORD&gt;</code>	Select group
<code>vlan &lt;1-4094&gt;</code>	Select VLAN

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# Command: show ipv6 mld snooping

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## show ipv6 mld snooping

Displays the learned multicast groups snooping information.

### Syntax

- `show ipv6 mld snooping`

### Default

None

### Command mode

User Executive

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## show ipv6 mld stream

Displays MLD sender details.

### Syntax

- `show ipv6 mld stream vlan <1-4094>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>vlan &lt;1-4094&gt;</code>	Select VLAN.

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## show ipv6 nd interface

Displays the neighbor discovery (ND) interface configuration.

### Syntax

- `show ipv6 nd interface [<1-4094>] [details] [vlan]`

### Default

None

### Command mode

User Executive

### Command parameters

Parameter	Description
<code>details</code>	Displays IPv6 neighbor discovery details by on the interface.
<code>&lt;1-4094&gt;</code>	Displays IPv6 neighbor discovery information by VLAN ID.
<code>vlan</code>	Displays IPv6 neighbor discovery information on VLAN interfaces only.

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# Command: show ipv6 nd interface (Privileged Executive)

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## show ipv6 nd interface (Privileged Executive)

Displays the neighbor discovery (ND) interface configuration.

### Syntax

- `show ipv6 nd interface [<1-4094>] [details] [vlan]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>details</code>	Displays IPv6 neighbor discovery details by on the interface.
<code>&lt;1-4094&gt;</code>	Displays IPv6 neighbor discovery information by VLAN ID.
<code>vlan</code>	Displays IPv6 neighbor discovery information on VLAN interfaces only.

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# Command: show ipv6 nd-prefix interface

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## show ipv6 nd-prefix interface

Displays the neighbor discovery (ND) prefix information.

### Syntax

- `show ipv6 nd-prefix interface [<1-4094>] [details] [vlan]`

### Default

None

### Command mode

User Executive

### Command parameters

Parameter	Description
<code>details</code>	Displays IPv6 neighbor discovery prefix details by on the interface.
<code>&lt;1-4094&gt;</code>	Displays IPv6 neighbor discovery prefix information by VLAN ID.
<code>vlan</code>	Displays IPv6 neighbor discovery prefix information on VLAN interfaces only.

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# Command: show ipv6 nd-prefix interface (Privileged Executive)

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## show ipv6 nd-prefix interface (Privileged Executive)

Displays the neighbor discovery (ND) prefix information.

### Syntax

- `show ipv6 nd-prefix interface [<1-4094>] [details] [vlan]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>details</code>	Displays IPv6 neighbor discovery prefix details by on the interface.
<code>&lt;1-4094&gt;</code>	Displays IPv6 neighbor discovery prefix information by VLAN ID.
<code>vlan</code>	Displays IPv6 neighbor discovery prefix information on VLAN interfaces only.

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## show ipv6 nd raguard policy

Displays the neighbor discovery (ND) router advertisement (RA) guard policy information.

### Syntax

- `show ipv6 nd raguard policy [<WORD>]`

### Default

None

### Command mode

User Executive

### Command parameters

Parameter	Description
<WORD>	Displays by the policy name.



# Command: show ipv6 nd rguard policy (Privileged Executive)

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## show ipv6 nd rguard policy (Privileged Executive)

Displays the neighbor discovery (ND) router advertisement (RA) guard policy information.

### Syntax

- `show ipv6 nd rguard policy [<WORD>]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<WORD>	Displays by the policy name.

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## show ipv6 neighbor binding

Displays source binding table (SBT) entries and other timer values.

### Syntax

- `show ipv6 neighbor binding [interface Ethernet <LINE>] [ipv6 <WORD>] [vlan <1-4094>]`

### Default

None

### Command mode

User Executive

### Command parameters

Parameter	Description
<code>interface Ethernet &lt;LINE&gt;</code>	Displays SBT entries and other timer values by Ethernet interface and port.
<code>vlan &lt;1-4094&gt;</code>	Displays SBT entries and other timer values by VLAN.

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# Command: show ipv6 neighbor binding (Privileged Executive)

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## show ipv6 neighbor binding (Privileged Executive)

Displays source binding table (SBT) entries and other timer values.

### Syntax

- `show ipv6 neighbor binding [interface Ethernet <LINE>] [ipv6 <WORD>] [vlan <1-4094>]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>interface Ethernet &lt;LINE&gt;</code>	Displays SBT entries and other timer values by Ethernet interface and port.
<code>ipv6 &lt;WORD&gt;</code>	Displays SBT entries and other timer values by IPv6 address.
<code>vlan &lt;1-4094&gt;</code>	Displays SBT entries and other timer values by VLAN.

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# Command: show ipv6 neighbor interface

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## show ipv6 neighbor interface

Displays IPv6 neighbor information by interface.

### Syntax

- `show ipv6 neighbor interface [loopback <1-16>] [mgmt] [tunnel <1-2147483647>] [vlan <1-4094>]`

### Default

None

### Command mode

User Executive

### Command parameters

Parameter	Description
<code>loopback &lt;1-16&gt;</code>	Displays neighbor information by loopback interface.
<code>tunnel &lt;1-2147483647&gt;</code>	Displays neighbor information by tunnel.
<code>vlan &lt;1-4094&gt;</code>	Displays neighbor information by VLAN.

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# Command: show ipv6 neighbor interface (Privileged Executive)

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## show ipv6 neighbor interface (Privileged Executive)

Displays IPv6 neighbor information by interface.

### Syntax

- `show ipv6 neighbor interface [loopback <1-16>] [tunnel <1-2147483647>] [vlan <1-4094>]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>loopback &lt;1-16&gt;</code>	Displays neighbor information by loopback interface.
<code>tunnel &lt;1-2147483647&gt;</code>	Displays neighbor information by tunnel.
<code>vlan &lt;1-4094&gt;</code>	Displays neighbor information by VLAN.

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# Command: show ipv6 neighbor (Privileged Executive)

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## show ipv6 neighbor (Privileged Executive)

Displays IPv6 neighbor information.

### Syntax

- `show ipv6 neighbor interface {loopback <1-16>|mgmt | tunnel <1-2147483647> | vlan <1-4094>}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
tunnel <1-2147483647>	Display by tunnel
vlan <1-4094>	Displays by VLAN.
loopback <1-16>	Displays the loopback.
<WORD>	IPv6 address

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# Command: show ipv6 neighbor summary

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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
<code>dynamic</code>	Display dynamically learned neighbors
<code>local</code>	Display local neighbor address
<code>static</code>	Display manually configured neighbors
<code>other</code>	Display other neighbor entries
<code>&lt;WORD&gt;</code>	IPv6 address



# Command: show ipv6 neighbor (User Executive)

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## show ipv6 neighbor (User Executive)

Displays IPv6 neighbor information.

### Syntax

- `show ipv6 neighbor interface {loopback <1-16>|mgmt | tunnel <1-2147483647> | vlan <1-4094>}`

### Default

None

### Command mode

User Executive

### Command parameters

Parameter	Description
mgmt	Out of band.
tunnel <1-2147483647>	Display by tunnel.
vlan <1-4094>	Displays by VLAN.
loopback <1-16>	Displays the loopback.

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## show ipv6 rip

Displays global RIP settings.

### Syntax

- `show ipv6 rip [interface] [ redistribute ] [ statistics] [loopback <1-16>] [vlan <1-4094>]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>statistics</code>	Display per-interface RIPng statistics
<code>vlan &lt;1-4094&gt;</code>	RIPng per-vlan information
<code>loopback &lt;1-16&gt;</code>	Show RIPng information for loopback CLIP interfaces
<code>interface</code>	Show RIPng per interface
<code>redistribute</code>	Show RIPng redistribution



# Command: show ipv6 route (Privileged Executive)

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## show ipv6 route (Privileged Executive)

Displays IPv6 route information.

### Syntax

- `show ipv6 route [dest WORD] [mgmt][alternative][local][next-hop WORD] [ static {dest <WORD> | mgmt}] [tunnel <1-2147483647> ] [vlan <1-4094>] | ripng`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>dest &lt;WORD&gt;</code>	Display IPV6 route destination
<code>static</code>	Display IPV6 static routes
<code>summary</code>	Display summary of IPv6 route information
<code>local</code>	Displays IPv6 local routes.
<code>alternative</code>	Displays alternative routes.
<code>next-hop &lt;WORD&gt;</code>	IPV6 route next-hop
<code>tunnel &lt;1-2147483647&gt;</code>	IPV6 route tunnel
<code>vlan &lt;1-4094&gt;</code>	IPV6 route vlan
<code>mgmt</code>	Out of band

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# Command: show ipv6 route (User Executive)

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## show ipv6 route (User Executive)

Displays IPv6 route information.

### Syntax

- `show ipv6 route [dest WORD] [mgmt][alternative][local][next-hop WORD] [ static {dest <WORD> | mgmt}] [tunnel <1-2147483647> ] [vlan <1-4094>]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>dest &lt;WORD&gt;</code>	Display IPV6 route destination
<code>static</code>	Display IPV6 static routes
<code>summary</code>	Display summary of IPv6 route information
<code>local</code>	Displays IPv6 local routes.
<code>alternative</code>	Displays alternative routes.
<code>next-hop &lt;WORD&gt;</code>	IPV6 route next-hop
<code>tunnel &lt;1-2147483647&gt;</code>	IPV6 route tunnel
<code>vlan &lt;1-4094&gt;</code>	IPV6 route vlan
<code>mgmt</code>	Out of band

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## show ipv6 source-guard

Displays Source Guard settings on interface.

### Syntax

- `show ipv6 source-guard [binding] [interface] [enabled] [ethernet <LINE>] [<WORD>]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
Ethernet <LINE>	Interface type
interface	Interface types
<WORD>	Ipv6 address
binding	Show ipv6 addresses allowed on all or a given port
enabled	Show Source Guard setting on enabled interface

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# Command: show ipv6 tcp connections (Privileged Executive)

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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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# Command: show ipv6 tcp connections (User 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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# Command: show ipv6 tcp listener (Privileged 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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# Command: show ipv6 tcp listener (User 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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# Command: show ipv6 tcp (Privileged 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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# Command: show ipv6 tcp (User 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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# Command: show ipv6 tunnel (Privileged Executive)

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## show ipv6 tunnel (Privileged Executive)

Displays IPv6 tunnel ID.

### Syntax

- `show ipv6 tunnel [<1-2147483647>] [sorted]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>sorted</code>	Sort tunnels by ID rather than interface index
<code>&lt;1-2147483647&gt;</code>	Tunnel ID

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# Command: show ipv6 tunnel (User Executive)

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## show ipv6 tunnel (User Executive)

Displays IPv6 tunnel ID.

### Syntax

- `show ipv6 tunnel [<1-2147483647>] [sorted]`

### Default

None

### Command mode

User Executive

### Command parameters

Parameter	Description
<code>sorted</code>	Sort tunnels by ID rather than interface index
<code>&lt;1-2147483647&gt;</code>	Tunnel ID

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# Command: show ipv6 udp (Privileged 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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# Command: show ipv6 udp (User Executive)

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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
source	Display IP Source Guard settings
statistics	Display IP Source Guard Statistics
<WORD>	port list
Ethernet	Select Ethernet interfaces
interface	select interfaces

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# Command: show ip vrrp address (Privileged Executive)

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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
A.B.C.D	Address to display in quad dotted notation
vrid <1-255>	Display addresses associated with specific VR
vlan	Display addresses on VLAN interfaces only
interface	Display addresses per interface
addr	Display specific address
<1-4094>	VLAN ID

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# Command: show ip vrrp address (User Executive)

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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
<code>vrid &lt;1-255&gt;</code>	Display addresses associated with specific VR
<code>vlan</code>	Display addresses on VLAN interfaces only
<code>interface</code>	Display addresses per interface
<code>addr {A.B.C.B}</code>	Display specific address
<code>&lt;1-4094&gt;</code>	VLAN ID

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# Command: show ip vrrp interface (Privileged Executive)

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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
<code>verbose</code>	Display additional information
<code>vlan</code>	Display addresses on VLAN interfaces only
<code>&lt;LINE&gt;</code>	VLAN ID
<code>vrid &lt;1-255&gt;</code>	VR ID

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# Command: show ip vrrp interface (User Executive)

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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
<code>verbose</code>	Display additional information
<code>vlan</code>	Display addresses on VLAN interfaces only
<code>&lt;LINE&gt;</code>	VLAN ID
<code>vrid &lt;1-255&gt;</code>	VR ID

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# Command: show ip vrrp (Privileged Executive)

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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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# Command: show ip vrrp (User 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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# Command: show i-sid (Privileged 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



# Command: show isis adjacencies (Privileged Executive)

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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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# Command: show isis adjacencies (User 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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# Command: show isis int-auth (Privileged 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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# Command: show isis int-auth (User 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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# Command: show isis int-ckt-level (Privileged 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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# Command: show isis int-ckt-level (User 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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# Command: show isis int-counters (Privileged 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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# Command: show isis int-counters (User 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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# Command: show isis interface (Privileged Executive)

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## show isis interface (Privileged Executive)

Displays IS-IS interface configuration and status data.

### Syntax

- `show isis interface l1`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
l1	Display IS-IS interface configuration and status data for Level-1

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# Command: show isis interface (User Executive)

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## show isis interface (User Executive)

Displays IS-IS interface configuration and status data.

### Syntax

- `show isis interface l1`

### Default

None

### Command mode

User Executive

### Command parameters

Parameter	Description
l1	Display IS-IS interface configuration and status data for Level-1

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# Command: show isis int-l1-cntl-pkts (Privileged Executive)

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## show isis int-l1-cntl-pkts (Privileged Executive)

Displays IS-IS Level 1 control packet counters.

### Syntax

- `show isis int-l1-cntl-pkts`

### Default

None

### Command mode

Privileged Executive

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# Command: show isis int-l1-cntl-pkts (User Executive)

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

Displays IS-IS Level 1 control packet counters.

### Syntax

- `show isis int-l1-cntl-pkts`

### Default

None

### Command mode

User Executive

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# Command: show isis int-timers (Privileged 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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# Command: show isis int-timers (User 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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# Command: show isis lsdb (Privileged Executive)

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## show isis lsdb (Privileged Executive)

Displays IS-IS LSDB.

### Syntax

- `show isis lsdb [level l1] [sysid <H.H.H>] [lsp-id <WORD>] [tlv <WORD> sub-tlv <1-3>] [detail]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
detail	Display details
tlv <WORD> sub-tlv <1-3>	Enter sub-tlv type: 1(SPB-INST), 3(SPB-SI)
level l1	Level of the external router
lsp-id <WORD>	LSP ID assigned to the external IS-IS routing device
sysid <H.H.H>	System ID

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# Command: show isis lsdb (User Executive)

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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> sub-tlv <1-3>]`

### Default

None

### Command mode

User Executive

### Command parameters

Parameter	Description
<code>detail</code>	Display details
<code>tlv &lt;WORD&gt; sub-tlv &lt;1-3&gt;</code>	Enter sub-tlv type: 1(SPB-INST), 3(SPB-SI)
<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

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# Command: show isis manual-area (Privileged Executive)

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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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# Command: show isis manual-area (User 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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# Command: show isis net (Privileged 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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# Command: show isis net (User 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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# Command: show isis (Privileged 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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# Command: show isis redistribute

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## show isis redistribute

Displays IS-IS redistribute configuration.

### Syntax

- `show isis redistribute`

### Default

None

### Command mode

Privileged Executive

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# Command: show isis spb-mcast-summary

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## show isis spb-mcast-summary

Displays multicast over SPBM summary information for each S, G, V tuple.

### Syntax

- `show isis spb-mcast-summary`
- `show isis spb-mcast-summary host-name <WORD>`
- `show isis spb-mcast-summary lspid <WORD>`

### Default

None

### Command mode

User Executive

### Command parameters

Parameter	Description
<code>host-name &lt;WORD&gt;</code>	Show spb-mcast-summary for a given host-name. <WORD> is router host name.
<code>lspid &lt;WORD&gt;</code>	Show spb-mcast-summary for a given lspid. <WORD> is isis lspid.

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# Command: show isis spbm i-sid (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
<code>vlan &lt;0-4094&gt;</code>	B-VLAN where this I-SID was configured or discovered
<code>all</code>	Display all SPBM I-SID
<code>config</code>	Display configured SPBM I-SID
<code>discover</code>	Display discovered SPBM I-SID
<code>id &lt;1-16777215&gt;</code>	IS-IS SPBM I-SID identifier
<code>nick-name &lt;WORD&gt;</code>	Nickname of the node where I-SID was configured or discovered

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# Command: show isis spbm i-sid (User Executive)

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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
<code>vlan &lt;0-4094&gt;</code>	B-VLAN where this I-SID was configured
<code>all</code>	Display all SPBM I-SID
<code>config</code>	Display configured SPBM I-SID
<code>discover</code>	Display discovered SPBM I-SID
<code>id &lt;1-16777215&gt;</code>	IS-IS SPBM I-SID identifier
<code>nick-name &lt;WORD&gt;</code>	Nickname of the node where I-SID was configured

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# Command: show isis spbm multicast

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## show isis spbm multicast

Displays the status of the global SPBM multicast configuration.

### Syntax

- `show isis spbm multicast`

### Default

None

### Command mode

User Executive

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# Command: show isis spbm multicast-fib (Privileged Executive)

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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>vlan &lt;0-4094&gt;</code>	B-VLAN associated with the multicast FIB entry
<code>summary</code>	Display summary
<code>i-sid &lt;1-16777214&gt;</code>	I-SID associated with the multicast FIB entry
<code>nick-name &lt;WORD&gt;</code>	Nickname

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# Command: show isis spbm multicast-fib (User Executive)

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## show isis spbm multicast-fib (User Executive)

Displays SPBM multicast FIB.

### Syntax

- `show isis spbm multicast-fib [vlan <0-4094>] [i-sid <1-16777214>] [nick-name <WORD>] summary`

### Default

None

### Command mode

User Executive

### Command parameters

Parameter	Description
<code>vlan &lt;0-4094&gt;</code>	B-VLAN associated with the multicast FIB entry
<code>summary</code>	Display summary
<code>i-sid &lt;1-16777214&gt;</code>	I-SID associated with the multicast FIB entry
<code>nick-name &lt;WORD&gt;</code>	Nickname

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# Command: show isis spbm nick-name (Privileged Executive)

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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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# Command: show isis spbm nick-name (User 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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# Command: show isis spbm (Privileged Executive)

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## show isis spbm (Privileged Executive)

Displays SPBM related information.

### Syntax

- `show isis spbm`

### Default

None

### Command mode

Privileged Executive

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# Command: show isis spbm unicast-fib (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>vlan &lt;0-4094&gt;</code>	B-VLAN associated with the unicast FIB entry
<code>summary</code>	Display summary

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# Command: show isis spbm unicast-fib (User Executive)

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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>vlan &lt;0-4094&gt;</code>	B-VLAN associated with the unicast FIB entry
<code>summary</code>	Display summary

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# Command: show isis spbm unicast-tree (Privileged Executive)

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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>destination &lt;H.H.H&gt;</code>	Destination B-MAC
<code>&lt;1-4094&gt;</code>	VLAN ID

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# Command: show isis spbm unicast-tree (User Executive)

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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>destination &lt;H.H.H&gt;</code>	Destination B-MAC
<code>&lt;1-4094&gt;</code>	VLAN ID

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# Command: show isis spbm (User Executive)

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## show isis spbm (User Executive)

Displays SPBM related information.

### Syntax

- `show isis spbm`

### Default

None

### Command mode

User Executive

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# Command: show isis statistics (Privileged 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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# Command: show isis statistics (User Executive)

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## show isis statistics (User Executive)

Displays IS-IS system statistics.

### Syntax

- `show isis statistics`

### Default

None

### Command mode

User Executive

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# Command: show isis system-id (Privileged 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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# Command: show isis system-id (User 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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# Command: show isis (User Executive)

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## show isis (User Executive)

Displays IS-IS related information.

### Syntax

- `show isis`

### Default

None

### Command mode

User Executive

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# Command: show jumbo-frames

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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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# Command: show lacp aggr

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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
member	Display LACP port debug information for specified port(s)
<WORD>	List of ports

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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 port-mode

Displays LACP port mode information.

### Syntax

- `show lacp port-mode`

### Default

None

### Command mode

Privileged Executive



# Command: show lacp stats

[Home](#) | [Command modes](#) | [Alphabetical listing](#)

## show lacp stats

Displays LACP statistics information.

### Syntax

- show lacp stats

### Default

None

### Command mode

Privileged Executive

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# Command: show lacp system

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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
<code>all</code>	Display all licenses
<code>verbose</code>	Display verbose license info
<code>&lt;1-10&gt;</code>	Select license to be displayed

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# Command: show link-state (Privileged Executive)

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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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# Command: show link-state (User Executive)

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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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# Command: show lldp local-sys-data (Privileged Executive)

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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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# Command: show lldp local-sys-data (User Executive)

[Home](#) | [Command modes](#) | [Alphabetical listing](#)

## 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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# Command: show lldp med-network-policies (Privileged Executive)

[Home](#) | [Command modes](#) | [Alphabetical listing](#)

## 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
voice	Display Voice Network Policies
voice-signaling	Display Voice Signaling Network Policies
port <LINE>	Port list

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# Command: show lldp med-network-policies (User Executive)

[Home](#) | [Command modes](#) | [Alphabetical listing](#)

## show lldp med-network-policies (User Executive)

Displays Media Endpoint Devices (MED) network policies.

### Syntax

- `show lldp med-network-policies [port <LINE>] [voice] [voice-signaling]`

### Default

None

### Command mode

User Executive

### Command parameters

Parameter	Description
<code>voice</code>	Display Voice Network Policies
<code>voice-signaling</code>	Display Voice Signaling Network Policies
<code>port &lt;LINE&gt;</code>	Port list

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# Command: show lldp mgmt-sys-data (Privileged Executive)

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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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# Command: show lldp mgmt-sys-data (User 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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# Command: show lldp neighbor-mgmt-addr (Privileged 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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# Command: show lldp neighbor-mgmt-addr (User Executive)

[Home](#) | [Command modes](#) | [Alphabetical listing](#)

## show lldp neighbor-mgmt-addr (User Executive)

Displays 802.1ab neighbors management addresses.

### Syntax

- `show lldp neighbor-mgmt-addr`

### Default

None

### Command mode

User Executive

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## show lldp neighbor (Privileged Executive)

Displays 802.1ab neighbors.

### Syntax

- `show lldp neighbor [detail] [dot1] [dot3] [med] [protocol-id] [vlan-names]`
- `show lldp neighbor [detail] [dot1] [dot3] [med] [protocol-id] [vlan-names] [vendor-specific] [call-server] [dot1q-framing] [fa-element-type] [file-server] [phone-ip] [poe-conservation]`
- `show lldp neighbor [vendor-specific] [call-server] [dot1q-framing] [fa-element-type] [file-server] [phone-ip] [poe-conservation]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>detail</code>	Displays all type-length-values (TLVs).
<code>dot1</code>	Displays IEEE 802.1 Organizationally specific type-length-values (TLVs).
<code>dot3</code>	Displays IEEE 802.3 organizationally specific type-length-values (TLVs).
<code>med</code>	Displays Media Endpoint Devices (MED) specific type-length-values (TLVs).
<code>call-server</code>	Displays neighbors call-server information.
<code>dot1q-framing</code>	Displays neighbors dot1q-framing information.
<code>fa-element-type</code>	Displays neighbors Fabric Attach information.
<code>file-server</code>	Displays neighbors file-server information.
<code>capabilities</code>	Displays neighbors Media Endpoint Devices (MED) capabilities.
<code>inventory</code>	Displays neighbors Media Endpoint Devices (MED) inventory information.
<code>location</code>	Displays neighbors Media Endpoint Devices (MED) location information.
<code>network-policy</code>	Displays neighbors Media Endpoint Devices (MED) network-policy information.
<code>extended-power</code>	Displays neighbors Media Endpoint Devices (MED) power information.
<code>phone-ip</code>	Displays neighbors phone IP information.
<code>poe-conservation</code>	Displays neighbors PoE-conservation information.
<code>vendor-specific</code>	Displays the vendor-specific type-length-values (TLVs).







# Command: show lldp neighbor (User Executive)

[Home](#) | [Command modes](#) | [Alphabetical listing](#)

## 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 {[call-server] [dot1q-framing] [fa-element-type] [file-server] [phone-ip] [poe-conservation]}}`

### Default

None

### Command mode

User Executive

### Command parameters

Parameter	Description
detail	Display all TLVs
dot1	Display IEEE 802.1 Organizationally specific TLVs
dot3	Display IEEE 802.3 Organizationally specific TLVs
med	Display Media Endpoint Devices (MED) specific TLVs
call-server	Display neighbors call-server information
dot1q-framing	Display neighbors dot1q-framing information
fa-element-type	Display neighbors Fabric Attach information
file-server	Display neighbors file-server information
capabilities	Display neighbors MED capabilities
inventory	Display neighbors MED inventory information
location	Display neighbors MED location information
network-policy	Display neighbors MED network-policy information
extended-power	Display neighbors MED power information
phone-ip	Display neighbors phone-ip information
poe-conservation	Display neighbors poe-conservation information
vendor-specific	Display the vendor-specific TLVs



# Command: show lldp pdu-tlv-size (Privileged Executive)

[Home](#) | [Command modes](#) | [Alphabetical listing](#)

## 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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# Command: show lldp pdu-tlv-size (User 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 [call-server] [dot1q-framing] [fa-element-type] [file-server] [phone-ip] [poe-conservation]] } | {vendor-specific [dot1q-framing] [poe-conservation]} | neighbor-mgmt-addr | pdu-tlv-size | rx-stats | tx-stats`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
local-sys-data	Display 802.1ab local system data
neighbor	Display 802.1ab neighbors
neighbor-mgmt-addr	Display 802.1ab neighbors management addresses
rx-stats	Display 802.1ab RX statistics
tx-tlv	Display 802.1ab TLVs
pdu-tlv-size	Display 802.1ab TLVs in the PDU.
tx-stats	Display 802.1ab TX statistics
vendor-specific	Display 802.1ab vendor-specific settings
detail	Display all TLVs
dot1	Display IEEE 802.1 Organizationally specific TLVs
dot3	Display IEEE 802.3 Organizationally specific TLVs
med	Display Media Endpoint Devices (MED) specific TLVs
call-server	Display neighbors call-server information
dot1q-framing	Display neighbors dot1q-framing information
fa-element-type	Display neighbors Fabric Attach information
file-server	Display neighbors file-server information
phone-ip	Display neighbors phone-ip information
poe-conservation	Display neighbors poe-conservation information



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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 {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
local-sys-data	Display 802.1ab local system data
neighbor	Display 802.1ab neighbors
neighbor-mgmt-addr	Display 802.1ab neighbors management addresses
rx-stats	Display 802.1ab RX statistics
tx-tlv	Display 802.1ab TLVs
pdu-tlv-size	Display 802.1ab TLVs in PDU.
tx-stats	Display 802.1ab TX statistics
vendor-specific	Display 802.1ab vendor-specific settings
dot1q-framing	Display 802.1Q framing tagging-mode
detail	Display all TLVs
dot1	Display IEEE 802.1 Organizationally specific TLVs
dot3	Display IEEE 802.3 Organizationally specific TLVs
med	Display Media Endpoint Devices (MED) specific TLVs
poe-conservation-request-level	Display PoE conservation request level
<LINE>	List of ports



# Command: show lldp rx-stats (Privileged Executive)

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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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# Command: show lldp rx-stats (User 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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# Command: show lldp stats (Privileged 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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# Command: show lldp stats (User 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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# Command: show lldp tx-stats (Privileged 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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# Command: show lldp tx-stats (User Executive)

[Home](#) | [Command modes](#) | [Alphabetical listing](#)

## 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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# Command: show lldp tx-tlv (Privileged 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}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
dot1	Display IEEE 802.1 Organizationally specific TLVs
dot3	Display IEEE 802.3 Organizationally specific TLVs
med	Display Media Endpoint Devices (MED) specific TLVs
vendor-specific	Display Vendor-specific TLVs

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# Command: show lldp tx-tlv (User Executive)

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## show lldp tx-tlv (User Executive)

Displays 802.1ab TLVs.

### Syntax

- `show lldp tx-tlv {dot1 | dot3 | med | vendor-specific}`

### 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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# Command: show lldp vendor-specific (Privileged Executive)

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## show lldp vendor-specific (Privileged Executive)

Displays 802.1ab vendor-specific settings.

### Syntax

- `show lldp vendor-specific {call-server | dot1q-framing | file-server | poe-conservation-request-level}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>dot1q-framing</code>	Display 802.1Q framing tagging-mode.
<code>call-server</code>	Display call-server address(es).
<code>file-server</code>	Display file-server address(es).
<code>poe-conservation-request-level</code>	Display PoE conservation request level.

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# Command: show lldp vendor-specific (User Executive)

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## show lldp vendor-specific (User Executive)

Displays 802.1ab vendor-specific settings.

### Syntax

- `show lldp vendor-specific {call-server | dot1q-framing | file-server | poe-conservation-request-level}`

### Default

None

### Command mode

User Executive

### Command parameters

Parameter	Description
<code>dot1q-framing</code>	Display 802.1Q framing tagging-mode.
<code>call-server</code>	Display call-server address(es).
<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>critical</code>	Critical event
<code>config</code>	Display configuration of event logging.
<code>sort-reverse</code>	display log messages in reverse order
<code>informational</code>	Informational message
<code>serious</code>	Serious event message
<code>unit &lt;1-8&gt;</code>	Unit number



# Command: show mac-address-table address

[Home](#) | [Command modes](#) | [Alphabetical listing](#)

## 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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# Command: show mac-address-table aging-time

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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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# Command: show mac-address-table dynamic

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## show mac-address-table dynamic

Displays only dynamically learned addresses.

### Syntax

- `show mac-address-table dynamic {mlt <1-32> | vid <1-4094>} [port <LINE>] address <H.H.H>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>port</code>	Display mac-address-table for specified ports
<code>mlt &lt;1-32&gt;</code>	Display mac-address-table for specified trunk id
<code>vid &lt;1-4094&gt;</code>	Display mac-address-table for specified VLAN ID
<code>address &lt;H.H.H&gt;</code>	Display specific address

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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
address	Display specific address
<1-32>	Trunk number

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# Command: show mac-address-table port

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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)
address <H.H.H>	Display specific address
<LINE>	List of port(s)



# Command: show mac-address-table spbm

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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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# Command: show mac-address-table static

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## show mac-address-table static

Displays only statically inserted addresses.

### Syntax

- `show mac-address-table static [vid <1-4094>] [port <LINE>] [mlt <1-32>] address <H.H.H>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>port &lt;LINE&gt;</code>	Display mac-address-table for specified ports
<code>mlt &lt;1-32&gt;</code>	Display mac-address-table for specified trunk id
<code>vid &lt;1-4094&gt;</code>	Display mac-address-table for specified VLAN ID
<code>address &lt;H.H.H&gt;</code>	Display specific address

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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>port &lt;LINE&gt;</code>	Display mac-address-table for specified ports
<code>address &lt;H.H.H&gt;</code>	Display specific address
<code>&lt;1-4094&gt;</code>	VLAN ID

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# Command: show macsec connectivity-association

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## show macsec connectivity-association

Displays macsec connectivity association information.

### Syntax

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
WORD<5-15>	Display the connectivity association name.

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# Command: show macsec statistics

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## show macsec statistics

Displays macsec port statistics.

### Syntax

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
port <LINE>	Display macsec port statistics for specified ports.

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# Command: show macsec status

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## show macsec status

Displays macsec status of entered ports or all macsec capable ports.

### Syntax

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
port <LINE>	Display macsec status of entered ports or all macsec capable 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>port &lt;LINE&gt;</code>	Display MAC addresses from specific port
<code>mac-da-filter</code>	Display MAC DA filtering addresses
<code>security-lists &lt;LINE&gt;</code>	Display port membership of security lists
<code>port</code>	Display ports' MAC security status.
<code>mac-address-table</code>	Display the accessible MAC addresses on each port.
<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.



# Command: show memory-utilization (Privileged Executive)

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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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# Command: show memory-utilization (User Executive)

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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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# Command: show mgmt-port (Privileged Executive)

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## show mgmt-port (Privileged Executive)

Display Management port information.

### Syntax

- `show mgmt-port [status]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
status	Show the management port link status

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# Command: show mgmt-port (User Executive)

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## show mgmt-port (User Executive)

Display Management port information.

### Syntax

- `show mgmt-port [status]`

### Default

None

### Command mode

User Executive

### Command parameters

Parameter	Description
status	Show the management port link status

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## show mlt

Displays Multi-Link Trunking (MLT) configuration.

### Syntax

- `show mlt {all-members| disabled | enabled | <LINE> | shutdown-ports-on-disable | spanning-tree <1-32> | utilization <1-32>}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
all-members	Display all members of the selected trunk
disabled	Display disabled MLTs
shutdown-ports-on-disable	Display disabled trunk loop prevention status
enabled	Display enabled MLTs
spanning-tree <1-32>	Display multi-link trunk spanning-tree settings
utilization <1-32>	Display multi-link trunk utilization
<LINE>	List of Trunk Groups

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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>} | [ WORD 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>}]`
- `show mlt hash-calc MLT ID <1-32> dest-ip <A.B.C.D> src-ip <A.B.C.D> tcp-udp-dport <0-65535> tcp-udp-sport <0-65535>`
- `show mlt hash-calc MLT ID <1-32> dest-mac <H.H.H> src-mac <H.H.H> vlan <1-4094> ethertype <0x0600-0xffff> src-port <WORD>`
- `show mlt hash-calc MLT ID <1-32> non-unicast dest-mac <dest-mac> src-mac <src-mac> src-port < unit / port>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>dest-ip {A.B.C.D}</code>	Destination IP address
<code>dest-mac &lt;H.H.H&gt;</code>	Destination MAC address
<code>non-unicast</code>	Displays non-unicast hash algorithm
<code>ethertype &lt;0x0600-0xffff&gt;</code>	Ethernet Type
<code>&lt;1-32&gt;</code>	MLT ID
<code>src-ip {A.B.C.D}</code>	Source IP address
<code>src-mac &lt;H.H.H&gt;</code>	Source MAC address
<code>src-port &lt;WORD&gt;</code>	Source Port
<code>tcp-udp-dport &lt;0-65535&gt;</code>	TCP/UDP Destination Port Number
<code>tcp-udp-sport &lt;0-65535&gt;</code>	TCP/UDP Source Port Number
<code>&lt;WORD&gt;</code>	Unit/Port
<code>vlan &lt;1-4094&gt;</code>	Vlan ID





# Command: show mvr group-range

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## show mvr group-range

Displays the configured MVR IP Multicast address ranges

### Syntax

- `show mvr group-range`

### Default

None

### Command mode

Privileged Executive

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# Command: show mvr (Privileged Executive)

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## show mvr (Privileged Executive)

Displays MVR global information.

### Syntax

- `show mvr [group-range] | [vlan]`

### Default

None

### Command mode

Privileged Executive

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## show mvr (User Executive)

Displays MVR global information.

### Syntax

- `show mvr [group-range] | [vlan]`

### Default

None

### Command mode

User Executive

### Command parameters

Parameter	Description
<code>group-range</code>	Displays MVR IP multicast address range information
<code>vlan</code>	Displays MVR receiver VLAN information

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# Command: show ntp (Privileged Executive)

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## show ntp (Privileged Executive)

Displays NTP information.

### Syntax

- `show ntp {key | server | statistics}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>key</code>	Displays NTP key information
<code>server</code>	Displays NTP server information
<code>statistics</code>	Displays NTP statistics information

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## show ntp (User Executive)

Displays NTP information.

### Syntax

- `show ntp {server | statistics}`

### Default

None

### Command mode

User Executive

### Command parameters

Parameter	Description
server	Displays NTP server information
statistics	Displays NTP statistics information

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# Command: show nvram (Privileged Executive)

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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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# Command: show nvram (User Executive)

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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

Displays password security restrictions.

### Syntax

- `show password check-repeated`
- `show password check-sequential`
- `show password complexity`
- `show password delay-time`
- `show password min-length`
- `show password notifications`
- `show password password-change-on-first-login`
- `show password password-change-rate-limiter`
- `show password unlock-timer`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>password-change-rate-limiter</code>	Display number of times a password can be changed in a day
<code>complexity</code>	Display password complexity rules settings
<code>notifications</code>	Display password expiration notifications intervals
<code>delay-time</code>	Display the delay time after 3 failed login attempts within one minute
<code>min-length</code>	Display the password minimum length
<code>check-repeated</code>	State of check-repeated-characters option
<code>check-sequential</code>	State of check-sequential-characters option
<code>password-change-on-first-login</code>	State of password-change-on-first-login option
<code>unlock-timer</code>	State of unlock-timer option

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# Command: show password (Privileged Executive)

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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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# Command: show password (User Executive)

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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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# Command: show poe-main-status

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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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# Command: show poe-port-status

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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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# Command: show poe-power-measurement

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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
<code>rspan</code>	Display RSPAN settings
<code>&lt;1-4&gt;</code>	Instance number

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## show port-statistics

Displays the port counter for a port.

### Syntax

- `show port-statistics port <LINE> [mgmt]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>mgmt</code>	Display management port statistics
<code>port</code>	Display port-statistics for specified ports
<code>&lt;LINE&gt;</code>	List of ports

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# Command: show qos acl-assign

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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
<code>all</code>	Display all user-created, default, and system entries
<code>system</code>	Display only system entries
<code>user</code>	Display only user-created and default entries
<code>&lt;1-65535&gt;</code>	Display the specified base action entry



# Command: show qos agent

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## show qos agent

Displays the global QoS parameters.

### Syntax

- show qos agent details

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
details	Display QoS agent details

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## show qos capability

Displays QoS port capabilities.

### Syntax

- `show qos capability {meter | shaper} port <LINE>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>meter</code>	Display QoS port meter capabilities
<code>shaper</code>	Display QoS port shaper capabilities
<code>port &lt;LINE&gt;</code>	Specify list of ports

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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
<code>all</code>	Display all user-created, default, and system entries
<code>system</code>	Display only system entries
<code>user</code>	Display only user-created and default entries
<code>&lt;1-65535&gt;</code>	Display the specified classifier entry

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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
<code>all</code>	Display all user-created, default, and system entries
<code>system</code>	Display only system entries
<code>user</code>	Display only user-created and default entries
<code>&lt;1-65535&gt;</code>	Display the specified classifier block entry

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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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# Command: show qos diag egress

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## show qos diag egress

Displays QoS egress precedence information on all units.

### Syntax

### Default

None

### Command mode

Privileged Executive

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# Command: show qos egressmap

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## show qos egressmap

Displays the association between the DSCP and the 802.1p priority and drop precedence.

### Syntax

- `show qos egressmap ds <0-63>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>ds &lt;0-63&gt;</code>	Displays mapping for one DSCP value

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## show qos if-action-extension

Displays the interface action extension entries.

### Syntax

- `show qos if-action-extension {<1-65535> | all | system | user}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>all</code>	Display all user-created, default, and system entries
<code>system</code>	Display only system entries
<code>user</code>	Display only user-created and default entries
<code>&lt;1-65535&gt;</code>	Display the specified interface action extension entry

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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
port <LINE>	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



# Command: show qos ingressmap

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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
<code>all</code>	Display all user-created, default, and system entries
<code>system</code>	Display only system entries
<code>user</code>	Display only user-created and default entries
<code>&lt;1-65535&gt;</code>	Display the specified IP classifier element entry



# Command: show qos l2-acl

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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
<code>all</code>	Display all user-created, default, and system entries
<code>system</code>	Display only system entries
<code>user</code>	Display only user-created and default entries
<code>&lt;1-65535&gt;</code>	Display the specified Layer2 classifier element entry

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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
<code>all</code>	Display all user-created, default, and system entries
<code>system</code>	Display only system entries
<code>user</code>	Display only user-created and default entries
<code>&lt;1-65535&gt;</code>	Display the specified meter entry



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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
<code>all</code>	Display all user-created, default, and system entries
<code>system</code>	Display only system entries
<code>user</code>	Display only user-created and default entries
<code>&lt;1-65535&gt;</code>	Display the specified policy entry
<code>port</code>	Specify list of ports

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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



# Command: show qos queue-set

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## show qos queue-set

Displays the queue set configuration.

### Syntax

- `show qos queue-set <1-8>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<1-8>	Displays the specified queue-set.

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# Command: show qos queue-set-assignment

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## show qos queue-set-assignment

Displays the association between the 802.1p priority to that of a specific queue.

### Syntax

- `show qos queue-set-assignment queue-set <1-8>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>queue-set &lt;1-8&gt;</code>	Displays the specified queue-set.

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## show qos queue-statistics

Display the queue-statistics values.

### Syntax

- `show qos queue-statistics [non-zero] [port <LINE>] [queue <1-8>]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>non-zero</code>	Displays only queues with non-zero statistics.
<code>port &lt;LINE&gt;</code>	Displays the queue statistics for the specified port.
<code>queue &lt;1-8&gt;</code>	Displays the statistics on the specified queue.

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## show qos statistics

Displays the statistics values.

### Syntax

- `show qos statistics <1-65535> port <LINE>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>port &lt;LINE&gt;</code>	Display the port statistics for the specified policy.
<code>&lt;1-65535&gt;</code>	Specifies the policy ID.

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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
<code>all</code>	Display all user-created, default, and system entries.
<code>system</code>	Display only system entries.
<code>user</code>	Display only user-created and default entries
<code>&lt;1-65535&gt;</code>	Display the specified system classifier element entry.

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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 <1-15>}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
classifier	Displays Quality of Service (QoS) Traffic Profile classifier entries.
interface	Displays Quality of Service (QoS) Traffic Profile interface entries
set	Displays Quality of Service (QoS) Traffic Profile set entries.
statistics	Displays Quality of Service (QoS) Traffic Profile statistics.
eval-order <1-255>	Specifies the evaluation order to reference a specific Traffic Profile classifier entry.
name <WORD>	Specifies the label to display a specific Traffic Profile classifier entry.
port <LINE>	Specifies the port(s) used to reference the Traffic Profile entry.
precedence <1-15>	Specifies the precedence used to reference the Traffic Profile entry. Specifies the range of precedence.





# Command: show qos traffic-profile statistics

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## show qos traffic-profile statistics

Displays QoS traffic profile statistics.

### Syntax

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
precedence <1-15>	Specify the precedence used to reference the Traffic Profile entry.
port <LINE>	Specifies a port to reference Traffic Profile entry.
name <WORD>	Specifies the label used to reference the Traffic Profile entry.

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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
statistics	Display QoS UBP statistics.
port <LINE>	Specify a port to reference UBP entry
name	Specify the label to display a particular UBP template entry
name <WORD>	Specify the label to display a specific UBP classifier entry
precedence <1-7>	Specify the precedence used to reference the UBP entry

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## show qos ubp statistics

Displays QoS UBP statistics.

### Syntax

- `show qos ubp statistics [port <LINE>] [name <WORD>] [precedence]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>port &lt;LINE&gt;</code>	Specifies a port to reference the UBP entry.
<code>name &lt;WORD&gt;</code>	Specifies the label used to reference the UBP entry.
<code>precedence</code>	Specifies the precedence use to reference the UBP entry.

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## show qos user-policy

Displays Quality of Service (QoS) user policy entries.

### Syntax

- `show qos user-policy [port <LINE>] [user <WORD>]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>port &lt;LINE&gt;</code>	Specifies the port(s) used to reference the User Policy entries.
<code>user &lt;WORD&gt;</code>	Specifies the user for whom the user policy must be displayed.

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# Command: show quickconfig (Privileged Executive)

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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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# Command: show quickconfig (User 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>reachability</code>	Display RADIUS reachability settings
<code>use-management-ip</code>	Display RADIUS use-management-ip setting
<code>replay-protection</code>	Display status of RADIUS dynamic server replay protection
<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>statistics</code>	Display the statistics for RADIUS Dynamic Authorization Client

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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
<code>replay-protection</code>	Display status of RADIUS dynamic server replay protection
<code>client</code>	Display the configuration of RADIUS Dynamic Authorization Client
<code>statistics</code>	Display the statistics for RADIUS Dynamic Authorization Clients
<code>{A.B.C.D}</code>	IP address of RADIUS Dynamic Authorization Client



# Command: show radius reachability

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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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# Command: show radius-server

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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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# Command: show radius use-management-ip

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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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# Command: show remote connection (Privileged Executive)

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## show remote connection (Privileged Executive)

Displays remote connection status on device.

### Syntax

- show remote connection

### Default

None

### Command mode

Privileged Executive

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# Command: show remote connection (User Executive)

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## show remote connection (User Executive)

Displays remote connection status on device.

### Syntax

- show remote connection

### Default

None

### Command mode

User Executive

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# Command: show rmon alarm

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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
delta	Display deltas of consecutive history data
sample-set <1-65535>	Display history data for specific index
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
<hh:mm:ss>	First or second history interval-range value
<1-2147483647>	First or second history sample index value

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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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# Command: show rmon ethernet statistics

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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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# Command: show rmon event

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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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# Command: show rmon stats

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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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# Command: show role

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## show role

Displays role information.

### Syntax

- show role

### Default

None

### Command mode

User Executive

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# Command: show route-map (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
WORD	Name of set of policies
detail	Route policy details

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# Command: show route-map (User Executive)

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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] [default-cmd-interface] [dhcp-relay] [dhcp-snooping] [eap] [energy-saver] [fa][igmp] [interface] [ip] [ip-source-guard] [ipfix] [ipmgr] [ipv6] [ipv6-fhs] [l3] [l3-protocols] [lacp] [link-state] [logging] [mac-security] [mlt] [mvr] [pim] [poe] [port-mirroring] [qos] [rate-limit] [rmon] [rtc] [sflow] [slamon] [slpp] [snmp] [spbm] [stack] [stkmon] [storm-control] [stp] [vlacp] [vlan]]

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
802.1ab	Displays the 802.1ab configuration.
aaur	Displays the AAUR configuration.
adac	Displays the ADAC configuration.
arp-inspection	Displays the ARP Inspection configuration.
asset-id	Displays the Asset ID configuration.
aur	Displays the AUR configuration.
brouter	Displays the Brouter configuration.
cfm	Displays the CFM configuration.
module	Displays the configuration of an application.
core	Displays the Core configuration.
banner	Displays the Custom Banner configuration.
dhcp-relay	Displays the DHCP Relay configuration.
dhcp-snooping	Displays the DHCP Snooping configuration.
eap	Displays the EAP configuration.
energy-saver	Displays the Energy Saver configuration.
verbose	Displays the entire configuration. (defaults and non-defaults)
fa	Displays the Fabric Attach configuration.
igmp	Displays the IGMP configuration.

interface	Displays the Interface configuration.
ip	Displays the IP configuration.
ipmgr	Displays the IP Manager configuration.
ip-source-guard	Displays the IP Source Guard configuration.
ipfix	Displays the IPFIX configuration.
ipv6	Displays the IPv6 configuration.
ipv6-fhs	Displays the IPv6 first hop security (FHS) configuration.
lacp	Displays the LACP configuration.
l3	Displays the Layer 3 configuration.
l3-protocols	Displays the Layer 3 protocols configuration.
link-state	Displays the Link State Tracking configuration.
mac-security	Displays the MAC Security configuration.
mld	Displays the MLD configuration.
mlt	Displays the MLT configuration.
mvr	Displays the MVR configuration.
poe	Displays the PoE configuration.
port-mirroring	Displays the Port Mirroring configuration.
PIM	Displays the Protocol Independent Multicast (PIM) configuration.
qos	Displays the QoS configuration.
rate-limit	Displays the Rate Limiting configuration.
rmon	Displays the RMON configuration.
rtc	Displays the RTC configuration.
sflow	Displays the sFlow configuration.
slamon	Displays the SLAMon configuration.
slpp	Displays the SLPP configuration.
snmp	Displays the SNMP configuration.
spbm	Displays the SPBM configuration.
stack	Displays the Stack configuration.
stkmon	Displays the Stack Monitor configuration.
storm-control	Displays the storm-control configuration.
stp	Displays the STP configuration.
logging	Displays the System Logging configuration.
vlacp	Displays the VLACP configuration.
vlan	Displays the VLAN configuration.

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## show script

Displays ASCII configuration script table entries.

### Syntax

- `show script [status] <1-127> [block]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
block	Display script block
status	Display script status
<1-127>	Index of the ASCII configuration script table entry

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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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# Command: show serial-security (Privileged Executive)

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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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# Command: show serial-security (User 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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# Command: show sflow (Ethernet Interface Configuration)

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## show sflow (Ethernet Interface Configuration)

Displays sFlow-related information.

### Syntax

- `show sflow interface [enabled] [<port number>]`

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

Parameter	Description
<code>&lt;port number&gt;</code>	Specifies the port number.
<code>interface</code>	

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# Command: show sflow (Global configuration)

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## show sflow (Global configuration)

Displays sFlow-related information.

### Syntax

- `show sflow`
- `show sflow interface <port>`
- `show sflow collector [<1-4>]`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>collector [&lt;1-4&gt;]</code>	Specifies the Collector ID.

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# Command: show slpp

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## show slpp

Displays SLPP information.

### Syntax

- `show slpp`

### Default

None

### Command mode

User Executive

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# Command: show slpp-guard (Privileged 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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# Command: show slpp-guard (User Executive)

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## show slpp-guard (User Executive)

Displays SLPP-guard information.

### Syntax

- show slpp-guard <LINE>

### Default

None

### Command mode

User Executive

### Command parameters

Parameter	Description
<LINE>	List of ports

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## show snmp-server

Displays the SNMP configuration.

### Syntax

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

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
engine-id <WORD>	Displays the Engine-ID information.
notification-control <WORD>	Displays the notification control table.
community	Displays the SNMP community strings.
notify-filter	Displays the SNMP notify filter configuration.
host	Displays the SNMP trap destinations.
user	Displays the SNMP users.
view	Displays the SNMP views.



# Command: show sntp

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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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# Command: show spanning-tree

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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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# Command: show spanning-tree 802dot1d-port-compliance (Privileged Executive)

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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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# Command: show spanning-tree 802dot1d-port-compliance (User 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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# Command: show spanning-tree bpdu-filtering

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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
port	Display spanning tree status of each port
vlans	Display spanning-tree group VLAN members
<LINE>	List of ports

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# Command: show spanning-tree cost-calc-mode

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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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# Command: show spanning-tree mode

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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
<code>vlans</code>	Display spanning-tree group VLAN members
<code>&lt;LINE&gt;</code>	List of ports

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# Command: show spanning-tree port-mode

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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
config	Display Spanning Tree configuration
port	Display spanning tree status of each port
vlans	Display spanning-tree group VLAN members
<LINE>	List of ports

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# Command: show spanning-tree vlans

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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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# Command: show spbm (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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# Command: show spbm reserved-port

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## show spbm reserved-port

Displays the current and the next reserved loopback port settings.

### Syntax

- `show spbm reserved-port`

### Default

None

### Command mode

User Executive

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# Command: show spbm (User 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 ssh banner

Displays the SSH Banner.

### Syntax

- show ssh banner

### Default

None

### Command mode

Privileged Executive

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## show sshc

Displays sshc status.

### Syntax

- `show sshc [known-hosts | sessions]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>sessions</code>	Shows SSH Client active sessions
<code>known-hosts</code>	Shows SSH Client known hosts

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# Command: show ssh download-auth-key

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## show ssh download-auth-key

Display auth key TFTP download info

### Syntax

- `show ssh download-auth-key`

### Default

None

### Command mode

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# Command: show ssh global

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## show ssh global

Display general SSH settings

### Syntax

- `show ssh global`

### Default

None

### Command mode

Privileged Executive

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# Command: show ssh session

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## show ssh session

Display SSH session info

### Syntax

- show ssh session

### Default

None

### Command mode

Privileged Executive

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# Command: show ssl

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## show ssl

Displays SSL configuration

### Syntax

- `show ssl [certificate]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
certificate	Displays digital certificate information

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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-image</code>	Display auto unit image replacement configuration
<code>auto-unit-replacement</code>	Display auto unit replacement configuration
<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>mac-addresses</code>	Display the AUR MAC address cache
<code>forced-mode</code>	Display the forced stack mode
<code>unit &lt;1-8&gt;</code>	Unit number



# Command: show stack auto-unit-replacement

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## show stack auto-unit-replacement

Displays auto unit replacement configuration.

### Syntax

- `show stack auto-unit-replacement mac-addresses`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
mac-addresses	Display the AUR MAC address cache

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# Command: show stack auto-unit-replacement-image

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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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# Command: show stack-cable-info (Privileged Executive)

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## show stack-cable-info (Privileged Executive)

Displays cable information.

### Syntax

- show stack-cable-info

### Default

None

### Command mode

Privileged Executive

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# Command: show stack-cable-info (User Executive)

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## show stack-cable-info (User Executive)

Displays cable information.

### Syntax

- show stack-cable-info

### Default

None

### Command mode

User Executive

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# Command: show stack forced-mode

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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



# Command: show stack-info

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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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# Command: show stack-monitor

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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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# Command: show stack port-statistics

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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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# Command: show stack reboot-on-failure

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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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# Command: show stack retry-count

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## show stack retry-count

Displays stack retry count.

### Syntax

- `show stack retry-count`

### Default

None

### Command mode

Privileged Executive

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## show storm-control

Display the storm-control configuration.

### Syntax

- `show storm-control [all] [broadcast] [multicast] [unicast]`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>all</code>	Displays storm control settings for all types of traffic.
<code>broadcast</code>	Displays storm control settings for broadcast traffic.
<code>multicast</code>	Displays storm control settings for multicast traffic.
<code>unicast</code>	Displays storm control settings for unicast traffic.

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## show storm-control interface

Display the storm-control configuration for the interface selected.

### Syntax

- `show storm-control interface Ethernet <LINE>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<LINE>	Displays storm control settings for a port or list of ports.
Ethernet	Displays storm control settings for the Ethernet interface.

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# Command: show sys-info

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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>unit &lt;1-8&gt; all</code>	Display last exception for a specified unit
<code>last-exception</code>	Display last software exception information.
<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



# Command: show tdr

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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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# Command: show tech (Privileged Executive)

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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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# Command: show tech (User 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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# Command: show telnet

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## show telnet

Shows telnet active sessions.

### Syntax

- `show telnet sessions`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>sessions</code>	Displays telnet active sessions

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# Command: show telnet-access

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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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# Command: show terminal (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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# Command: show terminal (User 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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# Command: show tftp-server

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## show tftp-server

Shows the TFTP Server IP address.

### Syntax

- `show tftp-server`

### 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
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
ascii	Display the ASCII contents of a file.
binary	Display the binary contents of a file.
dir	Displays files from a specific directory
tree	List subdirectories recursively
<WORD>	The filename which will be displayed
unit <1-8>	Unit

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## show usb-host-port

Shows USB host port info.

### Syntax

- `show usb-host-port {all | unit <1-8>}`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>all</code>	Display USB host port info for all units
<code>unit &lt;1-8&gt;</code>	Display USB host port info of an unit in stack

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## show username

Display username settings

### Syntax

- `show username <username>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<username>	Specifies the user for which to display information.

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# Command: show username (Enhanced Secure Mode)

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## show username (Enhanced Secure Mode)

Displays user information.

### Syntax

- show username [<user\_name>]

### Default

None

### Command mode

User Executive

### Command parameters

Parameter	Description
<user_name>	Specifies the user for which to display information.

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## show vlacp

Displays VLACP configuration.

### Syntax

- `show vlacp interface <LINE>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
interface	Display VLACP configuration for specified interfaces
<LINE>	List of ports

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# Command: show vlan

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## show vlan

Displays VLAN information.

### Syntax

- `show vlan [configcontrol] [dhcp-relay] [i-sid] [id] [igmp] [interface] [ip] [mgmt] [multicast] [remote-span] [summary] [type] [voice-vlan]`

### Default

None

### Command mode

Privileged Executive

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# Command: show vlan configcontrol

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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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# Command: show vlan dhcp-relay

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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-decOtherEther2 | 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
protocol-decEther2	Display decEther2 VLANs
protocol-decOtherEther2	Display decOtherEther2 VLANs
ether	Display Ethernet II Userdef 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
llc	Display LLC Userdef VLANs
protocol-Netbios	Display Netbios VLANs
port	Display port-based VLANs
protocol-RarpEther2	Display RarpEther2 VLANs
protocol-sna802.2	Display sna802.2 VLANs
protocol-snaEther2	Display snaEther2 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
protocol-Userdef	Display Userdef VLANs
protocol-vinesEther2	Display vinesEther2 VLANs
voice-vlan	Display voice VLANs
protocol-xnsEther2	Display xnsEther2 VLANs
LINE	VLAN list

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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
<code>unknown-mcast-allow-flood</code>	Display list of multicast MAC addresses for which flooding is allowed
<code>unknown-mcast-no-flood</code>	Display setting for flooding packets with unknown multicast addresses
<code>&lt;1-4094&gt;</code>	Vlan ID
<code>&lt;LINE&gt;</code>	VLAN list

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## show vlan interface

Displays VLAN configuration for specified interfaces.

### Syntax

- `show vlan interface {info | verbose | private-vlan | vids} <LINE>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>vids</code>	Display VLAN membership of ports
<code>verbose</code>	Display VLAN-related settings and membership of ports
<code>info</code>	Display VLAN-related settings of ports
<code>private-vlan</code>	Displays the Private VLAN configuration.
<code>&lt;LINE&gt;</code>	Port list



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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
<code>&lt;1-4094&gt;</code>	Specifies the VLAN ID.



# Command: show vlan mgmt

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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
membership	Displays VLAN multicast membership.
<1-4094>	Specifies the VLAN ID.

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# Command: show vlan private-vlan

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## show vlan private-vlan

Displays the Private VLAN configuration.

### Syntax

- show vlan private-vlan

### Default

None

### Command mode

Privileged Executive

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# Command: show vlan remote-span

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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
protocol-decEther2	Display decEther2 VLANs
ether	Display Ethernet II Userdef 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
llc	Display LLC Userdef VLANs
protocol-Netbios	Display Netbios VLANs
port	Display port-based VLANs
protocol-RarpEther2	Display RarpEther2 VLANs
protocol-sna802.2	Display sna802.2 VLANs
protocol-snaEther2	Display snaEther2 VLANs
snap	Display SNAP Userdef VLANs
spbm-bvlan	Display SPBM B-VLANs
spbm-switchedUni	Display SPBM switched UNI VLANs
protocol-Userdef	Display Userdef VLANs



protocol-vinesEther2	Display vinesEther2 VLANs
voice-vlan	Display voice VLANs
protocol-xnsEther2	Display xnsEther2 VLANs

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# Command: show vlan voice-vlan

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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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# Command: show web-server

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## show web-server

Displays web server status.

### Syntax

### Default

None

### Command mode

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# Command: shutdown (Ethernet Interface Configuration)

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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
<code>port &lt;portlist&gt;</code>	Specifies a port or list of ports

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# Command: shutdown (Privileged Executive)

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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

- default slamon agent-comm-port
- slamon agent-comm-port {0 |<1024-65535>}

### 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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# Command: slamon agent ip address

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## slamon agent ip address

Configures the agent IP address.

### Syntax

- default slamon agent ip address
- slamon agent ip address {A.B.C.D}

### 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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# Command: slamon agent port

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## slamon agent port

Configures the UDP port.

### Syntax

- default slamon agent port
- slamon agent port {0 |<1024-65535>}

### Default

The default is 50011.

### Command mode

Application Configuration

### Command parameters

Parameter	Description
{0  <1024-65535>}	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.





# Command: slamon cli

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## slamon cli

Enables the SLA Monitor agent CLI support.

### Syntax

- `default slamon cli`
- `no slamon cli [enable]`
- `slamon cli enable`

### Default

None

### Command mode

Application Configuration

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## slamon cli-timeout

Configures the agent automatic CLI session timeout value.

### Syntax

- `default slamon cli-timeout <60-600>`
- `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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# Command: slamon cli-timeout-mode

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## slamon cli-timeout-mode

Enables the agent automatic CLI session timeout.

### Syntax

- `default slamon cli-timeout-mode`
- `no slamon cli-timeout-mode [enable]`
- `slamon cli-timeout-mode enable`

### 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
<A.B.C.D>	Specifies the destination IP address. If no IP address is specified, the test execution fails.
<0-63>	Specifies the Differential Services Code Point (DSCP) value for use in packets that are generated by the NTR test.
period <1000- 200000>	Specifies the interval between packets in microseconds, generated by the NTR test. The default interval is 20000 microseconds.
attempts <1- 10>	Specifies the number of attempts generated by the NTR test. The default value is 2.



# Command: slamon oper-mode

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## slamon oper-mode

Enables the SLA Monitor agent.

### Syntax

- `default slamon oper-mode`
- `no slamon oper-mode [enable]`
- `slamon oper-mode enable`

### Default

None

### Command mode

Application Configuration

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# Command: slamon refuse-server-tests

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## slamon refuse-server-tests

Enables the agent refuse server test mode.

### Syntax

- `default slamon refuse-server-tests`
- `no slamon refuse-server-tests [enable]`
- `slamon refuse-server-tests [enable]`

### 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
<A.B.C.D>	Specifies the destination IP address. If no IP address is specified, the test execution fails.
<0-63>	Specifies the DSCP value for use in packets that are generated by the RTP test.
period <1000- 200000>	Specifies the interval between packets in microseconds, generated by the RTP test. The default interval is 20000 microseconds.
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.



# Command: slamon server-bypass

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## slamon server-bypass

Enables the agent server bypass mode.

### Syntax

- `default slamon server-bypass`
- `no slamon server-bypass [enable]`
- `slamon server-bypass [enable]`

### Default

None

### Command mode

Application Configuration

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# Command: slamon server ip address

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## slamon server ip address

Configures the agent server IP address.

### Syntax

- default slamon server ip address
- slamon server ip address {A.B.C.D} [{A.B.C.D}]

### Default

0.0.0.0

### 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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# Command: slamon server port

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## slamon server port

Configure the server TCP registration port.

### Syntax

- default slamon server port
- slamon server port <0-65535>

### Default

0

### 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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# Command: slpp enable (Ethernet Interface Configuration)

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## slpp enable (Ethernet Interface Configuration)

Enable SLPP receive on ports.

### Syntax

- `slpp enable`
- `no slpp enable`
- `default slpp enable`

### Default

Disabled

### Command mode

Ethernet Interface Configuration

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# Command: slpp enable (Global Configuration)

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## slpp enable (Global Configuration)

Enables SLPP.

### Syntax

- `slpp enable`
- `no slpp enable`
- `default slpp enable`

### Default

Disabled

### Command mode

Global Configuration

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# Command: slpp ethertype (Global Configuration)

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## slpp ethertype (Global Configuration)

Sets the SLPP ethertype.

### Syntax

- `slpp ethertype <0x0600 - 0xffff>`
- `default slpp ethertype`

### Default

Default value is 0x8102

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>&lt;0x0600 - 0xffff&gt;</code>	Configures the SLPP PDU ethertype value. The default value is 0x8102. Value 0x8100 is reserved and cannot be selected.

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# Command: slpp-guard (Ethernet Interface Configuration)

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## slpp-guard (Ethernet Interface Configuration)

Configures SLPP Guard for switch ports.

### Syntax

- `default slpp-guard [port <portlist>] [enable] [timeout {0| <10-65535>}]`
- `no slpp-guard [port <portlist>] [enable] [timeout {0| <10-65535>}]`
- `slpp-guard [port <portlist>] [enable] [timeout {0| <10-65535>}]`

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

Parameter	Description
<code>no</code>	Disables SLPP Guard parameters for a port or list of ports.
<code>enable</code>	Enables SLPP Guard parameters for a port or list of ports.
<code>default</code>	Sets SLPP Guard parameters to default values for a port or list of ports.
<code>port</code> <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> <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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# Command: slpp-guard (Global Configuration)

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## slpp-guard (Global Configuration)

Configures SLPP-guard global settings.

### Syntax

- `default slpp-guard ethertype`
- `slpp-guard ethertype <0x0600-0xffff>`

### 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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# Command: slpp packet-rx-threshold (Ethernet Interface Configuration)

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## slpp packet-rx-threshold (Ethernet Interface Configuration)

Specifies the number of SLPP packets received before port becomes disabled.

### Syntax

- `default slpp packet-rx-threshold`
- `slpp packet-rx-threshold <1-500>`
- `no slpp packet-rx-threshold`

### Default

Default is 5

### Command mode

Ethernet Interface Configuration

### Command parameters

Parameter	Description
<1-500>	Specifies the number of SLPP packets received before port becomes disabled. The default is 5.

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# Command: slpp port (Ethernet Interface Configuration)

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## slpp port (Ethernet Interface Configuration)

Specifies the Port number(s) on which to change SLPP settings.

### Syntax

- `slpp port`

### Default

None

### Command mode

Ethernet Interface Configuration

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# Command: slpp timeout (Global Configuration)

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## slpp timeout (Global Configuration)

Sets the SLPP auto port re-enable timeout

### Syntax

- default slpp timeout
- slpp timeout <0-65535>
- no slpp timeout

### Default

Default value is 0

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<0-65535>	Specifies the SLPP auto port re-enable timeout. If timeout is 0, the port stays in disable state until manually enabled. The default is 0.

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# Command: slpp tx-interval (Global Configuration)

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## slpp tx-interval (Global Configuration)

Sets SLPP packet transmission interval

### Syntax

- default slpp tx-interval
- slpp tx-interval <500-5000>
- no slpp tx-interval

### Default

Default value is 500

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<500-5000>	Configures the SLPP packet transmit interval, expressed in milliseconds in a range from 500–5000. The default value is 500.

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# Command: slpp vid (Global Configuration)

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## slpp vid (Global Configuration)

Sets the SLPP VLAN list.

### Syntax

- `default slpp vid`
- `slpp vid <1 - 4094>`
- `no slpp vid`

### Default

Default value is 1

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<1 - 4094>	Specifies the VLAN, by VLAN ID, to add to the SLPP transmission list.

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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>very-secure</code>	Use maximum security configuration
<code>minimum-secure</code>	Use minimum security configuration
<code>semi-secure</code>	Use partial security configuration

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## snmp-server community

Enables SNMP; set community string and access privs.

### Syntax

- `default snmp-server community { ro |rw }`
- `no snmp-server community {<WORD> | ro |rw }`
- `snmp-server community <WORD> {read-view <WORD> | write-view <WORD>| notify-view <WORD> | ro |rw }`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>notify-view &lt;WORD&gt;</code>	Enter notify (trap) access view name
<code>read-view &lt;WORD&gt;</code>	Enter read access view name
<code>write-view &lt;WORD&gt;</code>	Enter write access view name
<code>ro</code>	Read-only access with this community string
<code>rw</code>	Read-write access with this community string
<code>&lt;WORD&gt;</code>	SNMP community string



# Command: snmp-server contact

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## snmp-server contact

Text for mib object sysContact.

### Syntax

- `default snmp-server contact`
- `no snmp-server contact`
- `snmp-server contact <LINE>`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<LINE>	Identification of the contact person for this managed node

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# Command: snmp-server disable

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## snmp-server disable

Disables SNMP access.

### Syntax

- `snmp-server disable`

### Default

None

### Command mode

Global Configuration

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# Command: snmp-server enable

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## snmp-server enable

Enables SNMP access.

### Syntax

- `snmp-server enable`

### Default

None

### Command mode

Global Configuration

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## snmp-server engine-id

Changes the default unique SNMP Engine ID.

### Syntax

- default snmp-server engine-id
- snmp-server engine-id <WORD>

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<WORD>	Specifies the SNMP Engine ID.

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## snmp-server host

Specifies hosts to receive SNMP notifications.

### Syntax

- default snmp-server host
- no snmp-server host [A.B.C.D] [<WORD>] [port <1-65535>] [v1] [v2c] [v3] [ <WORD>]
- 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>]

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
filter <WORD>	Create SNMP notify filter profile
v1 <WORD>	Create SNMPv1 trap receiver
v2c <WORD>	Create SNMPv2c trap receiver
v3	Create SNMPv3 trap receiver
inform	Generate acknowledge Inform requests
auth	Generate authenticated traps
no-auth	Generate unauthenticated traps
A.B.C.D	IP address of SNMP notification host
<WORD>	IPv6 Address of SNMP Notification Host
retries <0-255>	Retries for inform requests
port <1-65535>	Select a non-standard SNMP trap port
timeout <1-2147483647>	Timeout for inform requests (centi-seconds)

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## snmp-server location

Modifies text for mib object sysLocation.

### Syntax

- default snmp-server location
- no snmp-server location
- snmp-server location <LINE>

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<LINE>	The physical location of this node

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# Command: snmp-server name

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## snmp-server name

Modifies text for mib object sysName.

### Syntax

- `default snmp-server name`
- `no snmp-server name`
- `snmp-server name <LINE>`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<LINE>	The system name of this node

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# Command: snmp-server notification-control

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## snmp-server notification-control

Enables generation of a notification type.

### Syntax

- `default snmp-server notification-control <WORD> <LINE>`
- `no snmp-server notification-control <WORD> <LINE>`
- `snmp-server notification-control <WORD> <LINE>`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<WORD>	Description or OID of a notification type
<LINE>	List of ports

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## snmp-server notify-filter

Creates SNMP notify filter.

### Syntax

- `no snmp-server notify-filter <WORD> [<WORD>]`
- `snmp-server notify-filter <Profile-name> <WORD> [<WORD>] [<WORD>] [<WORD>] [<WORD>] [<WORD>] [<WORD>]`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<WORD>	Description or OID filter specification
<Profile-name>	Filter profile name

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## snmp-server user

Creates SNMPv3 user.

### Syntax

- default snmp-server port
- no snmp-server user [engine-id <WORD>] | [WORD]
- snmp-server user {[engine-id <WORD> <user-name>] [md5 <LINE>] | [WORD] [md5<LINE>] [read-view <WORD>] [write-view <WORD>] [notify-view <WORD>]}

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
engine-id <WORD>	Enter a remote SNMP entity's snmpEngineID
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
md5 <LINE>	MD5 authentication password
md5	Select MD5 authentication protocol
<user-name>	User name







# Command: sntp enable

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## sntp enable

Enables Simple Network Time Protocol (SNTP) parameters.

### Syntax

- `default sntp enable`
- `no sntp enable`
- `sntp enable`

### Default

None

### Command mode

Global Configuration

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## sntp server primary

Configures primary SNTP server.

### Syntax

- `default sntp server primary`
- `no sntp server primary`
- `sntp server primary address {A.B.C.D} | [WORD]`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>address</code>	primary server address
<code>&lt;WORD&gt;</code>	primary server IPV6 address (45 length)
<code>{A.B.C.D}</code>	server IP address

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## sntp server secondary

Configures secondary SNTP server.

### Syntax

- `default sntp server secondary`
- `no sntp server secondary`
- `sntp server secondary address {A.B.C.D} | [WORD]`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>address</code>	secondary server address
<code>&lt;WORD&gt;</code>	secondary server IPV6 address (45 length)
<code>{A.B.C.D}</code>	server IP address

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## sntp sync-interval

Sets SNTP re-synchronization interval.

### Syntax

- default sntp sync-interval
- sntp sync-interval <0-168>

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<0-168>	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



# Command: spanning-tree 802dot1d-port-compliance

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## spanning-tree 802dot1d-port-compliance

Sets 802dot1d port compliance mode.

### Syntax

- `default spanning-tree 802dot1d-port-compliance enable`
- `no spanning-tree 802dot1d-port-compliance enable`
- `spanning-tree 802dot1d-port-compliance enable`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
enable	Enable 802dot1d port compliance mode

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# Command: spanning-tree add-vlan

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## spanning-tree add-vlan

Adds a VLAN to a spanning-tree group.

### Syntax

- `spanning-tree add-vlan <1-4094>`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<1-4094>	VLAN ID

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# Command: spanning-tree bpdu-filtering (Ethernet Interface Configuration)

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## spanning-tree bpdu-filtering (Ethernet Interface Configuration)

Configures STP BPDU filtering.

### Syntax

- `default spanning-tree bpdu-filtering [enable] [port <portlist>enable]`
- `no spanning-tree bpdu-filtering [enable] [port <portlist>enable]`
- `spanning-tree bpdu-filtering [port <portlist>] [enable] [timeout <10-65535 | 0>]`

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

Parameter	Description
<code>enable</code>	Enables STP BPDU Filtering on the specified ports. The default value is disabled
<code>port &lt;portlist&gt;</code>	Specifies the ports affected by the command.
<code>timeout &lt;10-65535   0&gt;</code>	When BPDU filtering is enabled, this indicates the time (in seconds) during which the port remains disabled after it receives a BPDU. The port timer is disabled if this value is set to 0. The default value is 120 seconds.



# Command: spanning-tree bpdu-filtering (Global Configuration)

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## spanning-tree bpdu-filtering (Global Configuration)

Configures spanning-tree bpdu-filtering.

### Syntax

- `default spanning-tree bpdu-filtering ignore-self`
- `no spanning-tree bpdu-filtering ignore-self`
- `spanning-tree bpdu-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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# Command: spanning-tree cost-calc-mode

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## spanning-tree cost-calc-mode

Sets pathcost type IEEE 802.1d or IEEE 802.1t.

### Syntax

- `default spanning-tree cost-calc-mode`
- `spanning-tree cost-calc-mode [dot1d | dot1t]`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>dot1d</code>	IEEE 802.1d pathcost
<code>dot1t</code>	IEEE 802.1t pathcost

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# Command: spanning-tree (Ethernet Interface Configuration)

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## spanning-tree (Ethernet Interface Configuration)

Sets the Spanning Tree Protocol (STP) and multiple Spanning Tree Group (STG) participation for the ports within the specified Spanning Tree Group.

### Syntax

- `default spanning-tree [port <portlist>] [stp <1-8>] [learning] [cost] [priority]`
- `no spanning-tree [port <portlist>] [stp <1-8>]`
- `spanning-tree [port <portlist>] [stp <1-8>] [learning {disable | normal | fast}] [cost <1-65535>] [priority {00 | 10 | < | F0}]`

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

Parameter	Description
<code>port &lt;portlist&gt;</code>	Enable the spanning tree for the specified port or ports; enter port or ports you want enabled for the spanning tree. If you omit this parameter, the system uses the port number you specified when you issued the interface command to enter the Interface Configuration mode.
<code>cost &lt;1-65535&gt;</code>	Enter the path cost of the spanning tree; range is from 1–65535.
<code>priority {00   10   &lt;   F0}</code>	Set the spanning tree priority for a port as a hexadecimal value.
<code>stp &lt;1-8&gt;</code>	Specify the spanning tree group; enter the STG ID.
<code>learning {disable normal fast}</code>	Specify the STP learning mode: <code>disable</code> : disables FastLearn mode; <code>normal</code> : changes to normal learning mode; <code>fast</code> : enables FastLearn mode.

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## spanning-tree forward-time

Sets spanning tree forwarding time.

### Syntax

- `default spanning-tree forward-time [hello-time] [max-age] [multicast-address] [priority] [tagged-bpdu]`
- `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

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>tagged-bpdu</code>	Enable/disable tagged BPDUs on tagged ports
<code>&lt;4-30&gt;</code>	seconds
<code>hello-time &lt;1-10&gt;</code>	Set spanning tree hello time
<code>max-age &lt;6-40&gt;</code>	Set spanning tree maximum age
<code>priority (0000 - f000 priority value in Hex)</code>	Set spanning tree priority (in Hex); if 802.1T compliance, should be multiple of 0x1000.
<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 hello-time

Sets spanning tree hello time.

### Syntax

- `default spanning-tree hello-time [max-age] [multicast-address] [priority] [tagged-bpdu]`
- `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

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>tagged-bpdu</code>	Enable/disable tagged BPDUs on tagged ports
<code>hello-time &lt;1-10&gt;</code>	Set spanning tree hello time
<code>max-age &lt;6-40&gt;</code>	Set spanning tree maximum age
<code>priority (0000 - f000 priority value in Hex)</code>	Set spanning tree priority (in Hex); if 802.1T compliance, should be multiple of 0x1000.
<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 max-age

Sets spanning tree maximum age.

### Syntax

- `default spanning-tree max-age <6-40> [multicast-address] [priority] [tagged-bpdu]`
- `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

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>tagged-bpdu</code>	Enable/disable tagged BPDUs on tagged ports
<code>max-age &lt;6-40&gt;</code>	Set spanning tree maximum age
<code>priority (0000 - f000 priority value in Hex)</code>	Set spanning tree priority (in Hex); if 802.1T compliance, should be multiple of 0x1000.
<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



# Command: spanning-tree mode

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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>	Multi Spanning Tree Protocol

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## spanning-tree mstp (Ethernet Interface Configuration)

Sets the MSTP parameters.

### Syntax

- `default spanning-tree mstp [port <LINE>] [cost] [edge-port] [hello-time] [learning] [p2p] [priority] [protocol-migration]`
- `default spanning-tree mstp msti <1-7> [port<portlist>] [cost] [learning] [priority]`
- `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>]`
- `spanning-tree mstp msti [ <1-7> ] [ port LINE ] [ cost ] <1-200000000> [ learning {disable | enable } ] [priority {00 | 10 | < | F0}]`

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

Parameter	Description
<code>learning {disable   enable}</code>	Enable or disable MSTP on the single or multiple ports; the default is enable.
<code>port &lt;portlist&gt;</code>	Enter a list or range of port numbers.
<code>protocol-migration {false   true}</code>	Force the single or multiple ports to transmit MSTP BPDUs when set to true, while operating in MSTP mode; the default is false.
<code>edge-port {false   true}</code>	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.
<code>p2p {auto   force-false   forcetrue}</code>	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.
<code>hello-time &lt;1-10&gt;</code>	Set the MSTP hello time on the single or multiple ports for the CIST; the default is 2.
<code>instance-specific &lt;1-7&gt;</code>	Set the MSTP instance-specific configuration in a range from 1–7 (filter on the MSTP instance).
<code>cost &lt;1-</code>	Set the MSTP path cost on the single or multiple ports for the CIST; the

200000000>

default is 200000.

priority {00 | 10  
|... | F0}

Set the MSTP port priority on the single or multiple ports; the default is 80.

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# Command: spanning-tree multicast-address

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## spanning-tree multicast-address

Sets spanning-tree multicast MAC address.

### Syntax

- `default spanning-tree multicast-address`
- `spanning-tree multicast-address <H.H.H>`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<H . H . H>	Multicast MAC Address (i.e. H.H.H or xx:xx:xx:xx:xx:xx or xx.xx.xx.xx.xx.xx or xx-xx-xx-xx-xx-xx)

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# Command: spanning-tree port-mode

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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
auto	spanning-tree auto port membership mode
normal	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

- `default spanning-tree priority [multicast-address] [tagged-bpdu] [tagged-bpdu-vid]`
- `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

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>tagged-bpdu</code>	Enable/disable tagged BPDUs on tagged ports
<code>priority (0000 - f000 priority value in Hex)</code>	Set spanning tree priority (in Hex); if 802.1T compliance, should be multiple of 0x1000.
<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 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
<1-4094>	VLAN ID

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## spanning-tree rstp (Ethernet Interface Configuration)

Sets the RSTP parameters.

### Syntax

- `default spanning-tree rstp [port <LINE>] [ cost | edge-port | learning | p2p | priority | protocol-migration ]`
- `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

None

### Command mode

Ethernet Interface Configuration

### Command parameters

Parameter	Description
<code>learning {disable   enable}</code>	Enable or disable RSTP on the single or multiple ports; the default is enable.
<code>port &lt;portlist&gt;</code>	Filter on list of ports.
<code>protocol-migration {false   true}</code>	Force the single or multiple port to transmit RSTP BPDUs when set to true, while operating in RSTP mode; the default is false.
<code>edge-port {false   true}</code>	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.
<code>p2p {auto   force-false   force-true}</code>	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.
<code>cost &lt;1-200000000&gt;</code>	Set the RSTP path cost on the single or multiple ports; the default is 200000.
<code>priority {00   10   ...   F0}</code>	Set the RSTP port priority on the single or multiple ports; the default is 80.

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## spanning-tree stp

Specifies spanning-tree group ID.

### Syntax

- `default spanning-tree stp <1-8> [forward-time] [hello-time] [max-age] [priority] [tagged-bpdu] [multicast-address]`
- `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

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>add-vlan &lt;1-4094&gt;</code>	Add a VLAN to a spanning-tree group
<code>create</code>	Create a spanning-tree group (STG)
<code>delete</code>	Delete a spanning-tree group (STG)
<code>disable</code>	Disable a spanning tree group (STG)
<code>enable</code>	Enable a spanning tree group (STG)
<code>tagged-bpdu {enable   disable}</code>	Enable/disable tagged BPDUs on tagged ports
<code>remove-vlan &lt;1-4094&gt;</code>	Remove a VLAN from a spanning-tree group
<code>forward-time &lt;4-30&gt;</code>	Set spanning tree forwarding time
<code>hello-time &lt;1-10&gt;</code>	Set spanning tree hello time
<code>max-age &lt;6-40&gt;</code>	Set spanning tree maximum age
<code>priority (0000 - f000 priority value in Hex)</code>	Set spanning tree priority (in Hex); if 802.1T compliance, should be multiple of 0x1000.
<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
<code>&lt;1-8&gt;</code>	STPG ID







# Command: spanning-tree tagged-bpdu

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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
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
tagged-bpdu-vid <1-4094>	Set VLAN ID for tagged BPDUs

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# Command: spanning-tree tagged-bpdu-vid

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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

- `default spbm ethertype`
- `no spbm`
- `spbm ethertype {0x8100 | 0x88a8}`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>reserved-port {front-panel   none   stack}</code>	Configures one port in loopback.
<code>ethertype</code>	Set SPBM ethertype
<code>0x8100</code>	Set SPBM ethertype value to 0x8100
<code>0x88a8</code>	Set SPBM ethertype value to 0x88a8



# Command: spbm (ISIS Router Configuration)

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## spbm (ISIS Router Configuration)

Enables SPBM.

### Syntax

- `default spbm <1-100> b-vid {<vlan-id> [-<vlan-id>][,...]} [primary <1-4094>]`
- `default spbm <1-100> ip enable`
- `no spbm <1-100> b-vid {<vlan-id> [-<vlan-id>][,...]} [primary <1-4094>]`
- `no spbm <1-100> ip enable`
- `spbm <1-100> b-vid {<vlan-id> [-<vlan-id>][,...]} [primary <1-4094>]`
- `spbm <1-100> ip enable`

### 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>ip</code>	Enable IP Shortcut
<code>primary &lt;1-4094&gt;</code>	Sets the IS-IS instance primary data VLAN
<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.

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## speed

Sets the port speed.

### Syntax

- default speed [port <portlist>]
- speed [port <portlist>] {10 | 100 | 1000 | 2500 | 10000 | auto}

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

Parameter	Description
port <portlist>	List of ports
10 100 1000 10000 2500 auto	Set the speed to: 10: 10 Mb/s; 100: 100 Mb/s; 1000: 1000 Mb/s or 1 GB/s; 2500 Mb/s or 2.5 GB/s; 10000: 10000 Mb/s or 10 GB/s; auto: autonegotiation.

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## spf-delay

Configures the SPF delay in milliseconds.

### Syntax

- `default spf-delay`
- `no spf-delay`
- `spf-delay <0-5000>`

### 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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## sshc authentication

Configure the SFTP authentication method Secure Shell (SSH) Client uses for transferring files.

### Syntax

- `default sshc authentication`
- `no sshc authentication`
- `sshc authentication {dsa|password|rsa}`

### Default

The default is DSA.

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>dsa</code>	Enables SFTP DSA authentication for SSH Client (default).
<code>password</code>	Enables SFTP password authentication for SSH Client.
<code>rsa</code>	Enables SFTP RSA authentication for SSH Client.



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## sshc close-session

Close a specific Secure Shell (SSH) Client session.

### Syntax

- `sshc close-session <0-8>`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<0-8>	Specifies the SSH Client session ID.



# Command: sshc dsa-host-key

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## sshc dsa-host-key

Generate public and private DSA Secure Shell (SSH) client host keys for user access authentication.

### Syntax

- no sshc dsa-host-key
- sshc dsa-host-key [force]

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
force	Create a new DSA key, even in the presence of an existing DSA key.

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## sshc dsa-key

Configures the Secure Shell Client (SSH) DSA host key size and generates the new key at system reboot.

### Syntax

- `default sshc dsa-key`
- `default sshc dsa-keysize`
- `sshc dsa-key <512-1024>`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>&lt;512-1024&gt;</code>	Specifies the key size. Use the command <code>default sshc dsa-key</code> to clear the SSHC DSA key and then use the command <code>default sshc dsa-keysize</code> to configure the keysize to the default.

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## sshc port

Configures the Secure Shell Client (SSHC) port to accept new connections.

### Syntax

- default sshc port
- sshc port <1-65535>

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<1-65535>	Specifies the TCP port.

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## sshc rsa-host-key

Generate public and private Secure Shell Client (SSH) RSA host keys for user access authentication.

### Syntax

- `no sshc rsa-host-key`
- `sshc rsa-host-key [force]`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>force</code>	Create a new RSA key, even in the presence of an existing RSA key.

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## sshc rsa-key

Configure Secure Shell Client (SSHC) RSA host key size and generate a new key at the next system reboot.

### Syntax

- `default sshc rsa-key`
- `default sshc rsa-keysize`
- `sshc rsa-key <1024-2048>`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>&lt;1024-2048&gt;</code>	Specifies the key size. Use the command <code>default sshc rsa-key</code> to clear the SSHC RSA key and then use the command <code>default sshc rsa-keysize</code> to configure the keysize to the default.

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## sshc upload-host-key

Upload the Secure Shell Client (SSHC) host key.

### Syntax

- sshc upload-host-key [address {<A.B.C.D>|<WORD>}] [dsa] [key-name <WORD>] [rsa] [usb unit <1-8>]

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
key-name <WORD>	Specifies the TFTP filename.
address {<A.B.C.D> <WORD>}	Specifies the TFTP server address.
usb unit <1-8>	Uploads the Secure Shell Client (SSHC) authentication key to USB.
dsa	Uploads the Secure Shell Client (SSHC) DSA host key.
rsa	Uploads the Secure Shell Client (SSHC) RSA host key.

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## ssh (Global Configuration)

Configure SSH setting

### Syntax

- default ssh dsa-auth
- default ssh pass-auth
- default ssh rsa-auth
- no ssh dsa-auth
- no ssh dsa-auth-key
- no ssh dsa-host-key
- no ssh pass-auth
- no ssh rsa-auth
- no ssh rsa-auth-key
- no ssh rsa-host-key
- ssh download-auth-key { [address <A.B.C.D > | <WORD>] usb [unit <1-8>] } [key-name <WORD>] [dsa | rsa ]
- ssh dsa-auth
- ssh dsa-host-key
- ssh pass-auth
- ssh rsa-auth
- ssh rsa-host-key
- ssh secure [force]

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
-----------	-------------



---

retries <1-100>	Configure number of SSH password authentication retries
certificate	Creates digital certificate
download-auth-key	Download SSH auth key
download-banner	Download SSH Banner
usb	Downloads SSH auth key via USB
dsa-auth	Enable SSH DSA authentication
pass-auth	Enable SSH password authentication
rsa-auth	Enable SSH RSA Authentication
secure	Enable SSH secure mode
dsa-host-key	Generate new SSH DSA host key
rsa-host-key	Generate new SSH RSA host key
reset	Resets the SSL server
timeout <1-120>	Set SSH authentication timeout
port <1-65535>	Set SSH port for accepting new connections
force	Skips the confirmation step
dsa	Specifies DSA authentication key to be downloaded.
rsa	Specifies RSA authentication key to be downloaded.
address	Specifies the address of the TFTP server
[ A.B.C.D ]	Specifies the IP address
[ WORD ]	Specifies the IPv6 address
key-name WORD	Specifies the TFTP or USB filename



# Command: ssh (User Executive)

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## ssh (User Executive)

SSH to another host

### Syntax

- `ssh {<Hostname> | <ipv6_address> | <A.B.C.D>} username <username> port <0-65535>`

### Default

None

### Command mode

User Executive

### Command parameters

Parameter	Description
<A.B.C.D>	Specifies host IP address
port <0-65535>	Specifies the port number
<ipv6_address>	Specifies the remote host IPv6 address
<Hostname>	Specifies the remote host name

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# Command: ssl

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## ssl

Configure SSL

### Syntax

- ssl

### Default

None

### Command mode

Global Configuration

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## stack auto-unit-replacement

Sets auto unit replacement settings.

### Syntax

- `default stack auto-unit-replacement enable`
- `no stack auto-unit-replacement enable`
- `stack auto-unit-replacement config {restore unit <1-8> | save [disable] [enable] [unit <1-8>]}`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>disable</code>	Disable AUR auto-save
<code>enable</code>	Enable AUR auto-save
<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
<code>config</code>	Modify AUR operational settings
<code>restore</code>	Restore configuration of a unit from the saved configuration on the base unit



# Command: stack auto-unit-replacement config

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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>save</code>	Enable/disable auto-save of unit configuration to base unit
<code>unit</code>	Force immediate save of NBU config to BU
<code>restore</code>	Restore configuration of a unit from the saved configuration on the base unit
<code>unit &lt;1-8&gt;</code>	select unit

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# Command: stack auto-unit-replacement-image

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## stack auto-unit-replacement-image

Sets auto unit image replacement settings.

### Syntax

- `default stack auto-unit-replacement-image enable`
- `no stack auto-unit-replacement-image enable`
- `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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# Command: stack auto-unit-replacement remove-mac-address

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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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# Command: stack forced-mode

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## stack forced-mode

Enables the forced stack mode.

### Syntax

- `default stack forced-mode`
- `no stack forced-mode`
- `stack forced-mode`

### Default

None

### Command mode

Global Configuration

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# Command: stack loopback-test

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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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# Command: stack-monitor

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## stack-monitor

Configures stack monitoring.

### Syntax

- `default stack-monitor [enable] [stack-size] [trap-interval]`
- `no stack-monitor enable`
- `stack-monitor [enable] [stack-size <2-8>] [trap-interval <30-300>]`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>enable</code>	Enable stack monitoring
<code>trap-interval &lt;30-300&gt;</code>	Set interval between traps (seconds) <30-300>
<code>stack-size &lt;2-8&gt;</code>	Set stack size to be monitored <2-8>

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# Command: stack reboot-on-failure

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## stack reboot-on-failure

Reboots stack units when their stacking ports fail to come up.

### Syntax

- `default stack reboot-on-failure`
- `no stack reboot-on-failure`
- `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

- default stack retry-count
- stack retry-count <0-4294967295>

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<0-4294967295>	retry count

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## storm-control

Configures storm control.

### Syntax

- `default storm-control [broadcast | multicast | unicast | all] [action] [high-watermark] [low-watermark] [poll interval] [trap-interval] [enable]`
- `no storm-control [broadcast | multicast | unicast |all] [enable]`
- `storm-control [broadcast | multicast | unicast |all] [action [none | drop | shutdown ]] [enable] [high-watermark <10-100000000>] [low-watermark <10-100000000>] [poll interval <5-300>] [trap-interval <0-1000>]`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>all</code>	Configures storm-control settings for all types of traffic.
<code>broadcast</code>	Configures storm-control settings for broadcast traffic.
<code>multicast</code>	Configures storm-control settings for multicast traffic.
<code>unicast</code>	Configures storm-control settings for unicast traffic.
<code>high-watermark &lt;10-100000000&gt;</code>	Configures the high-watermark in pps.
<code>poll-interval &lt;5-300&gt;</code>	Configures the interval for watermark checking in seconds.
<code>low-watermark &lt;10-100000000&gt;</code>	Configures the low-watermark in pps.
<code>action {drop non shutdown}</code>	Configures the storm control action.
<code>trap-interval &lt;0-1000&gt;</code>	Configures the trap sending interval in poll intervals when above the high-watermark. If the value is zero it does not send.
<code>enable</code>	Enables storm control.



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## storm-control (Ethernet Interface Configuration)

Configures storm control.

### Syntax

- default storm-control [broadcast | multicast | unicast | all] [action] [high-watermark] [low-watermark] [poll interval] [trap-interval] [enable]
- no storm-control [broadcast | multicast | unicast |all] [enable]
- storm-control [broadcast | multicast | unicast |all] [action [none | drop | shutdown ]] [enable] [high-watermark <10-100000000>] [low-watermark <10-100000000>] [poll interval <5-300>] [trap-interval <0-1000>]

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

Parameter	Description
all	Configures storm-control settings for all types of traffic.
broadcast	Configures storm-control settings for broadcast traffic.
multicast	Configures storm-control settings for multicast traffic.
unicast	Configures storm-control settings for unicast traffic.
high-watermark <10-100000000>	Configures the high-watermark in pps.
poll-interval <5-300>	Configures the interval for watermark checking in seconds.
low-watermark <10-100000000>	Configures the low-watermark in pps.
action {drop non shutdown}	Configures the storm control action.
trap-interval <0-1000>	Configures the trap sending interval in poll intervals when above the high-watermark. If the value is zero it does not send.
enable	Enables storm control.





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## sys-name

Configures the name for the system.

### Syntax

- `default sys-name`
- `no sys-name`
- `sys-name <WORD> <0-255>`

### Default

`host name`

### Command mode

ISIS Router Configuration

### Command parameters

Parameter	Description
<code>&lt;WORD&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).
<code>&lt;0-255&gt;</code>	

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## system-id

Configures the IS-IS system ID for the switch.

### Syntax

- `system-id <xxxx.xxxx.xxxx>`

### Default

node BMAC

### Command mode

ISIS Router Configuration

### Command parameters

Parameter	Description
<code>&lt;xxxx.xxxx.xxxx&gt;</code>	Specifies the IS-IS system ID for the switch. Use the <code>no</code> or <code>default</code> 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
<code>disable</code>	disable accounting
<code>enable</code>	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
level	authorization level
disable	disable authorization
enable	enable authorization
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

- `default tacacs server [host] [secondary-host] [port] [key] [retry]`
- `no tacacs server [host] [secondary-host] [port] [key]`
- `tacacs server [host {A.B.C.D}] [secondary-host {A.B.C.D}] [port <1-65535>] [retry <1-5>] [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
retry	Specifies the TACACS+ retry attempts
host {A.B.C.D}	TACACS+ primary host
secondary-host {A.B.C.D}	TACACS+ secondary host
key	TACACS+ shared secret
port <1-65535>	TACACS+ TCP port

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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
<code>back</code>	Back one level
<code>level</code>	New privilege level
<code>&lt;1-15&gt;</code>	privilege level

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## tdr

TDR test commands

### Syntax

- `tdr test <WORD>`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>&lt;WORD&gt;</code>	List of ports
<code>test</code>	Start TDR tests



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## telnet-access

Configures TELNET access settings.

### Syntax

- default telnet-access
- no telnet-access source-ip {<1-50> | <51-100>}
- 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>}]

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
disable	Disable TELNET access
none	Do not log telnet connections
enable	Enable TELNET access
inactive-timeout <0-60>	Inactivity timeout for TELNET and CONSOLE sessions
logging {none   access   failures   all}	Level of logging for TELNET and CONSOLE attempts
all	Log all telnet connections
failures	Log failed telnet connections
access	Log successful telnet connections
retry <1-100>	Number of allowed login attempts for TELNET and CONSOLE
<1-50>	Select which address/mask pair
<51-100>	Select which ipv6 address/prefix
source-ip	Set source IP address from which connections are allowed
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



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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
<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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## 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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# Command: terminal (Privileged Executive)

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## terminal (Privileged Executive)

Sets terminal line parameters.

### Syntax

- terminal {length <0-132> | speed {[19200 ] | [38400] | [9600]} 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> | speed {[19200 ] | [38400] | [9600]} width <1-132>}

### Default

None

### Command mode

User Executive

### Command parameters

Parameter	Description
length <0-132>	Set number of lines on a screen
speed <19200   38400   9600>	Set the transmit and receive speeds
width <1-132>	Set width of the display terminal

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## tftp-access

Configures TFTP access.

### Syntax

- `tftp-access {enable | disable}`
- `default tftp-access`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>disable</code>	Disables TFTP access.
<code>enable</code>	Enables TFTP access.

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## tftp-server

Configures the tftp server.

### Syntax

- `default tftp-server`
- `no tftp-server`
- `tftp-server {<A.B.C.D> | <WORD>}`

### 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

- `default timers basic [holddown] [timeout] [update]`
- `timers basic holddown <holddown-timer> timeout <global-timeout> update <update-timer>`

### Default

None

### Command mode

RIP Router Configuration

### Command parameters

Parameter	Description
<code>default</code>	Returns the parameters to the factory default timer values: holddown timer: 120 seconds; global timeout: 180 seconds; update timer: 30 seconds.
<code>&lt;update-timer&gt;</code>	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.
<code>&lt;holddown-timer&gt;</code>	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.
<code>&lt;global-timeout&gt;</code>	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.

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## timers basic holddown

Configures the OSPF hold own timer.

### Syntax

- `default timers basic holddown <timer_value>`
- `timers basic holddown <timer_value>`

### Default

None

### Command mode

OSPF Router Configuration

### Command parameters

Parameter	Description
<timer_value>	Specifies a hold down timer value between 3 and 60 seconds

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## toggle-next-boot-image

Toggles next boot image.

### Syntax

- `toggle-next-boot-image`

### Default

None

### Command mode

Privileged Executive

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## trace

Traces operations.

### Syntax

- `trace {screen <disable|enable>} | shutdown`
- `trace module {ospf | igmp | pim | rip | eap | ntp | ipmc} [submodule <submodule_ID>] level {critical | error | warning | info | debug | no-display} [unit <1-8>]`
- `trace module {ospf | igmp | pim | rip | eap | ntp | ipmc} submodule hint`
- `trace module hint`

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
<code>disable</code>	Disable screen trace
<code>enable</code>	Enable screen trace
<code>screen</code>	Enable/Disable screen trace
<code>level</code>	Set the trace module ID
<code>level {critical   error   warning   info   debug   no-display}</code>	Specifies the trace level
<code>{ospf   igmp   pim   rip   eap   ntp   ipmc}</code>	Specifies the trace module
<code>&lt;submodule_ID&gt;</code>	Specifies the trace submodule
<code>shutdown</code>	Trace OFF



# Command: traceroute (Privileged Executive)

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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
-p	base udp port number
-m	max ttl value
-q	number of probes per ttl
<1-1460>	probe packet data length
-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
-p <1-65535>	base udp port number
<WORD>	ipv6 address of remote host
-m <1-255>	max ttl value
-q <1-255>	number of probes per ttl
<1-1460>	probe packet data length
Hostname   {A.B.C.D}	remote host name or IP address
-v	verbose mode
-w <1-255>	wait time per probe



# Command: trap (RIP Router Configuration)

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## trap (RIP Router Configuration)

Enable RIP traps.

### Syntax

- default trap
- no trap
- trap

### Default

None

### Command mode

RIP Router Configuration

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## usb-host-port

Enables USB Host Port.

### Syntax

- `default usb-host-port {[unit <1-8>] [enable]}`
- `no usb-host-port {[unit <1-8>] [enable]}`
- `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

- `default username {ro | rw}`
- `username <WORD> <password> {ro | rw}`
- `username add <WORD> inactive-period <0-360>`
- `username lockout-retries <0-100>`
- `default username lockout-retries`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>&lt;password&gt;</code>	Cleartext password (when password security is disabled)
<code>lockout-retries</code> <code>&lt;0-100&gt;</code>	Configures the lockout retries.
<code>inactive-period</code> <code>&lt;0-360&gt;</code>	Disables the username after the specified number of days during which the user name has not been used.
<code>ro</code>	Read-only user name reset to default.
<code>rw</code>	Read-write user name reset to default.
<code>&lt;WORD&gt;</code>	Username



# Command: username add (Enhanced Secure Mode)

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## username add (Enhanced Secure Mode)

Creates a user.

### Syntax

- `username add <user_name> password <user_password>`
- `username add <user_name> {daily-access-interval access-start-hour <0-24> access-stop-hour <0-24> | inactive-period <1-360> | max-number-of-sessions <1-12> | role-name <role_name>} password <user_password>`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>&lt;user_name&gt;</code>	Specifies the user name.
<code>daily-access-interval</code>	Specifies the day interval during which the user can access the switch. The default interval is 0-24.
<code>max-number-of-sessions</code>	Specifies the number of concurrent sessions allowed for a user. The default value is 12.
<code>inactive-period</code>	Specifies the period during which the user must access the switch in order to not be locked out. The default value is 360 days.
<code>role-name</code> <code>&lt;role_name&gt;</code>	Specifies the role for the new user.
<code>&lt;user_password&gt;</code>	Specifies the user password.



# Command: username (Enhanced Secure Mode)

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## username (Enhanced Secure Mode)

Configures user options.

### Syntax

- `username <user-name> {daily-access-interval daily-access-interval access-start-hour <0-24> access-end-hour <0-24> | enable | inactive-period <1-360> | max-number-of-sessions <1-12> | password | role-name | ssh-access | telnet-access}`
- `username emergency_account_timeout <1-360>`
- `username lockout-time <0-60>`
- `no username <user-name> [ daily-access-interval | enable | ssh-access | telnet-access ]`
- `default username { emergency_account_timeout |<user-name> [daily-access-interval |enable| inactive-period |max-number-of-sessions |role-name |ssh-access | telnet-access] | lockout-time}`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>&lt;user-name&gt;</code>	Specifies the user name.
<code>ssh-access</code>	Enables or disables SSH access for the user.
<code>telnet-access</code>	Enables or disables telnet access for the user.
<code>daily-access-interval daily-access-interval access-start-hour &lt;0-24&gt;</code>	Specifies the day interval during which the user can access the switch. The default interval is 0-24.
<code>max-number-of-sessions &lt;1-12&gt;</code>	Specifies the number of concurrent sessions allowed for a user. The default value is 12.
<code>inactive-period &lt;1-360&gt;</code>	Specifies the period during which the user must access the switch in order to not be locked out. The default value is 360 days.
<code>role-name &lt;role_name&gt;</code>	Specifies the user role.





# Command: vlacp (Ethernet Interface Configuration)

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## vlacp (Ethernet Interface Configuration)

Configures VLACP parameters per port.

### Syntax

- default vlacp [port <LINE>] [enable] [ethertype] [fast-periodic-time] [funcmac-addr] [port LINE] [slow-periodic-time] [timeout] [timeout-scale]
- no vlacp enable
- 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>}]

### Default

None

### Command mode

Ethernet Interface Configuration

### Command parameters

Parameter	Description
enable	Enables VLACP.
timeout-scale <integer>	Sets a timeout scale for the port, where timeout = (periodic time) × (timeout-scale). The range is 1-10. Default is 3. Note: When you use fast-timers, you do not use a timeout-scale of 1, because this breaks the link continuity from service due to the time taken to transmit VLACPDU and for the partner to provide a corresponding response. You should set the minimum timeout-scale to 3. It is recommended that you use the minimum setting of 5 for the timeout-scale when using the fast-periodic-timer of 500 ms.
ethertype {<0x8101-0x81ff> <33025-33279>}	Sets the VLACP protocol identification for this port. Defines the ethertype value of the VLACP frame. The range is 8101-81FF. Default is 8103.
funcmac-addr <mac>	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.
slow-periodic-time <integer>	Specifies the number of milliseconds between periodic VLACPDU transmissions using long timeouts. The range is 10000-30000 milliseconds. Default is 30000.

fast- periodic- time <integer> <slot/port>	Specifies the number of milliseconds between periodic VLACPDU transmissions using short timeouts. The range is 400-20000 milliseconds. Default is 500.
timeout {long  short}	Specifies whether the timeout control value for the port is a long or short timeout. long — sets the port timeout value to: (timeoutscale value) × (slow-periodic-time value). short— sets the port's timeout value to: (timeout-scale value) × (fast-periodic-time value). For example, if the timeout is set to short while the timeout-scale value is 5 and the fast-periodic-time value is 500 ms, the timer expires after 2500 ms. Default is long.

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## vlacp (Global Configuration)

Modifies VLACP configuration.

### Syntax

- `default vlacp {enable | hold_time <0-60> | macaddress <H.H.H>}`
- `no vlacp {enable | hold_time <0-60> | macaddress <H.H.H>}`
- `vlacp {enable | hold_time <0-60> | macaddress <H.H.H>}`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>enable</code>	Enable VLACP for the system
<code>macaddress</code>	Set the multicast address used for VLACPDU
<code>&lt;H.H.H&gt;</code>	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)

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## vlan configcontrol

Configures the VLAN control mode.

### Syntax

- default vlan configcontrol
- vlan configcontrol {automatic | autopvid | flexible | strict}

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
autopvid	Automatic change to PVID
automatic	AutoPVID and automatic change to membership of port-based VLANs
strict	AutoPVID and restrictions imposed on adding port to VLAN and changing tagging
flexible	No restricts or automatic changes



## vlan create

Creates new VLAN.

### Syntax

- `vlan create [<2-4094>] [<LINE>] [name <LINE>] [type] [private-vlan secondary <2-4094> {<1-8> | cist | msti <1-7>}] [port] [protocol-decEther2] [protocol-decOtherEther2] [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
<code>cist</code>	Adds VLAN to CIST.
<code>msti</code>	Adds vlan to MSTI.
<code>ether &lt;4096-65534&gt;</code>	Create Ethernet II Userdef VLAN
<code>llc &lt;1-65534&gt;</code>	Create LLC Userdef VLAN
<code>private-vlan</code>	Creates a private VLAN.
<code>protocol-decEther2</code>	Creates the decEther2 VLAN.
<code>&lt;4094-65534&gt;</code>	Creates the Ethernet II Userdef VLAN with this Protocol ID.
<code>protocol-ipEther2</code>	Creates the ipEther2 VLAN.
<code>protocol-ipv6Ether2</code>	Creates the ipv6Ether2 VLAN.
<code>protocol-ipx802.2</code>	Creates the ipx802.2 VLAN.
<code>protocol-ipx802.3</code>	Creates the ipx802.3 VLAN.
<code>protocol-ipxEther2</code>	Creates the ipxEther2 VLAN.
<code>protocol-ipxSnap</code>	Creates the ipxSnap VLAN.
<code>protocol-Netbios</code>	Creates the Netbios VLAN.
<code>port</code>	Creates the port-based VLAN.
<code>protocol-RarpEther2</code>	Creates the RarpEther2 VLAN.
<code>remote-span</code>	Creates the RSPAN VLAN.

protocol-sna802.2	Creates the sna802.2 VLAN.
protocol-snaEther2	Creates the snaEther2 VLAN.
snap <1-65534>	Creates the SNAP Userdef VLAN.
spbm-bvlan	Creates the SPBM B-VLAN.
spbm-switchedUni	Creates the SPBM switched UNI.
protocol-Userdef	Creates the Userdef VLAN.
protocol-vinesEther2	Creates the vinesEther2 VLAN.
voice-vlan	Creates the Voice VLAN.
protocol-xnsEther2	Creates the xnsEther2 VLAN.
protocol-decOtherEther2	Display decOtherEther2 VLANs.
<1-8>	Spanning Tree Group ID
<1-7>	Specifies the MSTI ID.
secondary	Specifies the secondary VLAN ID.
<1-8>	Specifies the Spanning Tree Group ID.
<2-4094>	Specifies the VLAN ID.
<LINE>	Specifies the VLAN List.
name <LINE>	Specify name of new VLAN
type	Specify type of new VLAN.



# Command: vlan delete

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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

- default vlan igmp <1-4094>
- 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>}]

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
add	Add port members
snooping {disable   enable}	Enable/disable IGMP snooping
proxy {disable   enable}	Enable/disable VLAN proxy
LINE	Port list
remove	Remove port members
query-interval <1-65535>	Set the IGMP query interval
robust-value <2-255>	Set the IGMP robust value
v1-members	Specify IGMPv1 static port membership
v2-members	Specify IGMPv2 static port membership
<1-4094>	VLAN ID

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## vlan i-sid

Creates a C-VLAN.

### Syntax

- `default vlan i-sid <1-4094>`
- `no vlan i-sid <1-4094>`
- `vlan i-sid <1-4094> <0-16777214>`

### 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
add	Add ports to a VLAN
<LINE>	Port list
remove	Remove ports from a VLAN
<VLANlist>	VLAN list

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## vlan mgmt

Sets management VLAN.

### Syntax

- default vlan mgmt
- vlan mgmt <1-4094>

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<1-4094>	VLAN ID



# Command: vlan name

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## vlan name

Changes the name of a VLAN.

### Syntax

- default vlan name <LINE>
- no vlan name <LINE>
- vlan name <1-4094> <LINE>

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<LINE>	New name for VLAN
<1-4094>	VLAN ID

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## vlan ports

Modifies VLAN port settings.

### Syntax

- `default vlan ports {name <LINE> | private-vlan <LINE>}`
- `no vlan ports {private-vlan | name <LINE>}`
- `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>] [private-vlan {isolated | promiscuous | trunk}]`

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
<code>promiscuous</code>	A Promiscuous port can belong to many private VLANs
<code>trunk</code>	A Trunk port can belong to many private VLANs, is tagged, and can also belong to non-private VLANs Change PVID
<code>pvid &lt;1-4094&gt;</code>	Change PVID
<code>untagPvidOnly</code>	Disable tagging of packets matching the PVID
<code>disable</code>	Disable tagging on this port
<code>untagAll</code>	Disable tagging on this port
<code>tagPvidOnly</code>	Enable tagging of packets matching the PVID
<code>enable</code>	Enable tagging on this port
<code>tagAll</code>	Enable tagging on this port
<code>filter-unregistered-frames {disable   enable}</code>	Enable/disable filtering of unregistered frames
<code>filter-untagged-frame {disable   enable}</code>	Enable/disable filtering of untagged frames
<code>tagging {disable   enable   tagAll   tagPvidOnly   untagAll   untagPvidOnly}</code>	Enable/disable tagging

<LINE>	Port list
name <LINE>	Set VLAN port name
priority <0-7>	Set VLAN port priority
isolated	Specifies the port type. An Isolated port can belong only to one private VLAN.

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# Command: vlan remote-span

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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

- `no vlan <LINE> {remote-span | voice-vlan}`
- `vlan voice-vlan <LINE>`

### 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

- no web-server
- web-server {disable | enable}

### Default

None

### Command mode

Global Configuration

### Command parameters

Parameter	Description
disable	Disable HTTP access
enable	Enable HTTP access



# Command: write

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## write

Writes configuration in nvram.

### Syntax

- write memory

### Default

None

### Command mode

Privileged Executive

### Command parameters

Parameter	Description
memory	Write configuration to local NV storage

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