



# Avaya Command Line Interface Commands Reference

## Avaya Command Line Interface Commands Reference

### Introduction

This guide describes the Avaya Command Line Interface (ACLI) commands for the configuration of various features in Avaya ERS3500 for the 5.1 release.

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

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

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

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**Avaya Ethernet Routing Switch 3500 Series Release 5.1  
NN47203-103 Avaya Command Line Interface Commands Reference  
Version 01.01 February 2013  
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## adac call-server-port

**Set call server port(s) range**

### Syntax

- `<port-number>`

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
<code>&lt;callserver-port-number&gt;</code>	<b>Set call server port(s) range</b>

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## adac enable

### Enable adac

### Syntax

- `<call-server-port > < op-mode> <uplink-port> <voice-vlan >`

### Default

The default value is disabled.

### Command mode

#### Global configuration mode

### Command parameters

Parameter	Description
enable	<b>Enable ADAC</b>

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## adac mac-range-table low-end

**Add the low end of the MAC address range to adac settings**

### Syntax

- <H.H.H>

### Default

None

### Command mode

**Global configuration mode**

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## adac op-mode tagged-frames

**ADAC operation mode is set and the IP phones send tagged frames**

### Syntax

- `<call-server-port > < op-mode> <uplink-port> <voice-vlan >`

### Default

None

### Command mode

**Global configuration mode**

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## adac port

**Port number(s) for which to change settings**

### Syntax

- `adac port [LINE] enable`

### Default

None

### Command mode

**FastEthernet Interface configuration mode**

### Command parameters

Parameter	Description
<port-list>	<b>List of ports for changing adac settings</b>

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## adac tagged-frames-pvid

**Set the PVID to be configured for telephony ports in Tagged Frames operating mode**

### Syntax

### Default

None

### Command mode

**FastEthernet Interface configuration mode**

### Command parameters

Parameter	Description
enable	<b>Enable auto-detection on ports</b>

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## adac tagged-frames-tagging

**Set the tagging to be configured for telephony ports in Tagged Frames operating mode**

### Syntax

### Default

None

### Command mode

**FastEthernet Interface configuration mode**

### Command parameters

Parameter	Description
enable	<b>Enable tagging of frames</b>

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## adac traps enable

### Syntax

- 

### Default

None

### Command mode

**FastEthernet** Interface configuration mode

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## adac uplink-port

**Set uplink port(s) range**

### Syntax

- `adac uplink-port <port-list> [call-server-port] <port-list>`

### Default

None

### Command mode

**Interface configuration mode**

### Command parameters

Parameter	Description
<code>&lt;port-number&gt;</code>	<b>Uplink port(s) range</b>
<code>&lt;port-number&gt; call-server-port &lt;callserver-port-number&gt;</code>	<b>Sets call server port(s) range</b>



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## adac voice-vlan

### Set Voice-VLAN

### Syntax

- `adac voice-vlan <1-4094>`

### Default

None

### Command mode

Interface configuration mode

### Command parameters

Parameter	Description
<code>&lt;vlan-id&gt;</code>	<b>Voice-VLAN ID</b>
<code>&lt;vlan-id&gt; call-server-port &lt;callserver-port-number&gt;</code>	<b>Sets the call server port range for the specified vlan id</b>
<code>&lt;vlan-id&gt; uplink-port &lt;port-number&gt;</code>	<b>Sets the uplink port range for the specified vlan id</b>

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## arp

**Configure a static ARP entry**

### Syntax

- arp [<A.B.C.D> <H.H.H> <WORD> <id> <1-4094> | timeout <5-360>]

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
<ip-address > H.H.H (or xx:xx:xx:xx:xx:xx or xx-xx-xx-xx-xx-xx)	<b>IP addr of ARP entry</b>
timeout <5-360>	<b>time limit for the ARP entry to exist</b>

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## asset-id

### Configure the Asset-ID

### Syntax

- asset-id [stack <WORD> | unit <1-8> <WORD> | <WORD>]

### Default

None

### Command mode

#### Global configuration mode

### Command parameters

Parameter	Description
stack WORD	<b>Specifies the Asset-ID for the Stack</b>
unit <1-8> WORD	<b>Asset-ID of this unit</b>

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## auto-negotiation-advertisements

**Configure auto-negotiation advertisement settings**

### Syntax

- auto-negotiation-advertisements [<10-full> <10-half> < 100-full> <100-half> <1000-full> <asym-pause-frame> < pause-frame>]

### Default

None

### Command mode

**Interface Configuration Mode**

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## auto-pvid

**Enable Auto-PVID (for all ports).**

### Syntax

- auto-pvid

### Default

None

### Command mode

**Global configuration mode**

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## autosave enable

### Enable autosave

### Syntax

- `autosave enable`

### Default

The default value is disabled.

### Command mode

### Global configuration mode

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## autotopology

**Enable the autotopology protocol**

### Syntax

- autotopology

### Default

None

### Command mode

**Global configuration mode**

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## banner

### Set custom banner info

### Syntax

- banner [<1-19> <LINE> | custom | disabled | static]

### Default

None

### Command mode

### Global configuration mode

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## blink-leds

**Blink the LEDs on the display panel to identify the unit**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

### Command parameters

Parameter	Description
off	<b>Stop blinking the LEDs</b>
time <1-10>	<b>Time duration (in minutes) for the LEDs to blink</b>
unit <1-8>	

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## boot

**Reset the switch/stack**

### Syntax

- `boot [default unit <1-8> | unit <1-8>]`

### Default

None

### Command mode

**Privileged EXEC Mode**

### Command parameters

Parameter	Description
default	<b>Reboot the stack/switch and use the factory default configurations</b>
unit <1-8>	<b>Specifies the unit number to be rebooted on the switch/stack</b>

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## clear arp-cache

**Clear the Layer 3 ARP cache**

### Syntax

- clear arp-cache

### Default

None

### Command mode

**Privileged EXEC Mode**

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## clear ip-blocking

**Clear the Layer 3 IP blocking state**

### Syntax

- `clear ip-blocking`

### Default

None

### Command mode

**Privileged EXEC Mode**

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## clear ip forward-protocol

**Clear broadcast protocols counters**

### Syntax

- `clear ip forward-protocol udp counters <LINE>`

### Default

None

### Command mode

**Privileged EXEC Mode**

### Command parameters

Parameter	Description
<code>udp counters &lt;vlan-id&gt;</code>	<b>Clear counters for specific VLAN</b>

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# Command: clear license

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## clear license

### Clear licenses

### Syntax

- 

### Default

None

### Command mode

### Privileged EXEC Mode

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## clear logging

**Clear log messages (with no parameters, from DRAM only)**

### Syntax

- clear logging [non-volatile <critical> <serious>|nv|volatile <critical> <informational> <serious>]

### Default

None

### Command mode

**Privileged EXEC Mode**

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## clear mac-address-table

**Flush addresses from Mac Address Table**

### Syntax

- clear mac-address-table [address <H.H.H>| interface <FastEthernet LINE>|mlt <1-6>|vlan <1-4094>]

### Default

None

### Command mode

**Privileged EXEC Mode**

### Command parameters

Parameter	Description
address H.H.H (or xx:xx:xx:xx:xx:xx, or xx- xx-xx-xx-xx-xx)	<b>Address to be flushed out (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) from the mac-address-table</b>
interface FastEthernet LINE	<b>List of ports to be flushed out from the MAC address table</b>
interface mlt <1-6>	<b>Specific trunk for the MAC address to be flushed out</b>
interface vlan <vlan-id>	<b>Vlan to be flushed out from the MAC address table</b>



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## clear stack port-statistics

**Clear stack port counters**

### Syntax

- clear stack port-statistics

### Default

None

### Command mode

**Privileged EXEC Mode**

### Command parameters

Parameter	Description
unit <1-8>	<b>Clears the stack port counters</b>

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## clear-stats

**Clears the port counter**

### Syntax

- `clear-stats port <LINE>`

### Default

None

### Command mode

**Interface Configuration Mode**

### Command parameters

Parameter	Description
<code>port &lt;port-list&gt;</code>	<b>Selects a port to clear the port counter</b>

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## clear system last-exception

**Clear last software exception information.**

### Syntax

- `clear system last-exception`

### Default

None

### Command mode

**Privileged EXEC Mode**

### Command parameters

Parameter	Description
<code>unit &lt;1-8&gt;</code>	<b>Clears the last software exception information</b>

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## cli password

### Modify cli passwords

#### Syntax

- cli password [<read-only> <read-write>]

#### Default

None

#### Command mode

#### Global configuration mode

#### Command parameters

Parameter	Description
read-only <password-name> password	<b>Modify read-only password</b>
read-write <password-name> password	<b>Modify read-write password</b>

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## cli password serial

**Enable/disable serial port password.**

### Syntax

- cli password serial [local|none|radius|tacacs]

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
local	<b>Use local password.</b>
none	<b>Disable password.</b>
radius	<b>Use RADIUS password authentication.</b>
tacacs	<b>Use TACACS+ AAA services</b>

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## cli password stack

### Modify stack passwords

### Syntax

- cli password stack [local|none|radius|tacacs]

### Default

None

### Command mode

#### Global configuration mode

### Command parameters

Parameter	Description
read-only <password-name> password	<b>Modify read-only password</b>
read-write <password-name> password	<b>Modify read-write password</b>

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## cli password switch serial

**Enable/disable serial port password.**

### Syntax

- cli password switch [local|none|radius|tacacs]

### Default

None

### Command mode

**Global configuration mode**

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## cli password telnet

**Enable/disable telnet and web password.**

### Syntax

- cli password telnet [local|none|radius|tacacs]

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
local	<b>Use local password.</b>
none	<b>Disable password.</b>
radius	<b>Use RADIUS password authentication.</b>
tacacs	<b>Use TACACS+ AAA services</b>



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## clock summer-time

**Configure the system to automatically switch to summer time (daylight saving time)**

### Syntax

- clock summer-time [recurring <1-5> <DAY> <MONTH> <hh:mm> | <WORD> date <1-31> <MONTH> <1990-2099> <hh:mm> <1-31> <MONTH> .....]

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
<timezone acronym> date <1-31> <month-name> <1999-2099> hh:mm <1-31> <month-name> <1999-2099> hh:mm	<b>Indicates the start of summer time on the first specific date, month and time listed in the command and end the second specific date in the command</b>

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## clock time-zone

### Set local time zone

### Syntax

- clock time-zone [WORD <-12 - 13> <0-59>]

### Default

None

### Command mode

### Global configuration mode

### Command parameters

Parameter	Description
<timezone acronym> <-12 - 13> <0-59>	<b>Sets the time zone acronym containing at most 4 chars; Setting the hour and minute difference from the UTC</b>

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## configure network

**Configure from a TFTP network host**

### Syntax

- configure network [address <A.B.C.D> filename <WORD> | <WORD> filename <WORD>] [filename <WORD> address <A.B.C.D> | <WORD>]

### Default

None

### Command mode

**Privileged EXEC Mode**

### Command parameters

Parameter	Description
address <ipv4 or ipv6> filename <filename>	<b>Specifies the IPv4 or IPv6 address of TFTP server</b>
load-on-boot disable	<b>Disable loading of config file at boot time</b>
load-on-boot use-bootp	<b>Load config file at boot time using BOOTP</b>
load-on-boot use-config address <ipv4 or ipv6> filename <filename>	<b>Load config file at boot time using configured parameters</b>

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## configure terminal

**Configure from the terminal**

### Syntax

- `configure terminal`

### Default

None

### Command mode

**Privileged EXEC Mode**

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## copy config

**Copy from current configuration**

### Syntax

- `copy config [nvram|sftp|tftp]`

### Default

None

### Command mode

**Privileged EXEC Mode**

### Command parameters

Parameter	Description
<code>nvram</code>	<b>Copy to local NV storage</b>
<code>tftp address &lt;ipv4 or ipv6&gt;</code>	<b>Specify the IP or IPv6 address to be copied on</b>
<code>filename &lt;filename&gt;</code>	<b>the TFTP server</b>

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## copy running-config

**Copy from current configuration as a series of CLI commands**

### Syntax

- copy running-config [sftp <address>|<filename>|<module>|<verbose>] [tftp <address>|<filename>|<module>|<verbose>]

### Default

None

### Command mode

**Privileged EXEC Mode**

### Command parameters

Parameter	Description
tftp address <ipv4 or ipv6> filename <filename>	<b>Specify address of the TFTP server to copy from current configuration as a series of CLI commands</b>
tftp module <config module name>	<b>Copy configuration of an application</b>
tftp verbose address <ipv4 or ipv6> filename <filename>	<b>Specify address of the TFTP server to copy entire configuration (defaults and non-defaults)</b>
tftp verbose module <config module name>	<b>Copy configuration of an application</b>

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## copy tftp

Copy configuration from TFTP server

### Syntax

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

### Default

None

### Command mode

Privileged EXEC Mode

### Command parameters

Parameter	Description
<code>config &lt;ipv4 or ipv6&gt; filename &lt;filename&gt;</code>	<b>Specify address of the TFTP server to copy to local configuration</b>
<code>license &lt;ipv4 or ipv6&gt; filename &lt;filename&gt;</code>	



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## default

**Set a command to its defaults**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

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## default http-port

Restore to default the TCP port on which web server will listen

### Syntax

- default http-port

### Default

None

### Command mode

Global configuration mode

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## disable

**Turn off privileged commands**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## download address

**Specify IP address of TFTP server**

### Syntax

- download address [<A.B.C.D>|<WORD>]

### Default

None

### Command mode

**Privileged EXEC Mode**

### Command parameters

Parameter	Description
<ipv4 or ipv6>	<b>Specify IP address of TFTP server</b>
<ipv4 or ipv6> diag <filename>	<b>Specifies the diagnostics image file name to be downloaded</b>
<ipv4 or ipv6> image <filename>	<b>Specifies the software image to be downloaded</b>
<ipv4 or ipv6> image-if-newer <filename>	<b>The image name to be donloaded if it is newer version of the software image</b>

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## download diag

**Specify diagnostics image file name**

### Syntax

- download diag [<WORD> no-reset]

### Default

None

### Command mode

**Privileged EXEC Mode**

### Command parameters

Parameter	Description
<filename>	<b>Specifies the diagnostics image file name to be downloaded</b>
<filename> no-reset	<b>Does not reset the switch after downloading the specified image file</b>

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## download image

**Specify software image**

### Syntax

- `download image [<WORD> no-reset]`

### Default

None

### Command mode

**Privileged EXEC Mode**

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## download no-reset

**Do not reset the switch after downloading**

### Syntax

- `download no-reset`

### Default

None

### Command mode

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## duplex

**Configure duplex mode of a port**

### Syntax

- `duplex[auto|full|half|port <port-list>]`

### Default

None

### Command mode

**Interface Configuration Mode**

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## eapol

**Enable/disable EAPOL protocol.**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**



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## eapol guest-vlan

### Set guest-vlan

### Syntax

- eapol guest-vlan [enable <vid> <1-4094>|global ]

### Default

None

### Command mode

### Privileged EXEC Mode

### Command parameters

Parameter	Description
<enable   disable>	<b>Enable/Disable the guest-vlan</b>
vid <1-4094>	<b>Specifies the guest VLAN ID</b>

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## eapol-multihost

**Set EAPOL multihost settings of port**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
allow-non-eap-enable	<b>Control of non-EAP clients (MAC addresses)</b>
auto-non-eap-mhsa-enable	<b>Allow auto-auth of non-EAP clients</b>
eap-packet-mode multicast	<b>Send initial EAP requests multicast</b>
eap-packet-mode unicast	<b>Send initial EAP requests unicast</b>
non-eap-phone-enable	<b>Allow non-eap phone clients</b>
non-eap-reauthentication-enable	
non-eap-use-radius-assigned-vlan	<b>Allow the use of VLAN IDs assigned by RADIUS for non-EAP clients</b>
radius-non-eap-enable	<b>Enable RADIUS authentication of non-eap clients</b>
use-most-recent-radius-vlan	<b>Allow the use of most recent RADIUS vlan</b>
use-radius-assigned-vlan	<b>Allow the use of VLAN IDs assigned by RADIUS</b>

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## edm help-file-path

**Set the EDM help file path**

### Syntax

- edm help-file-path

### Default

None

### Command mode

**User EXEC mode**

### Command parameters

Parameter	Description
WORD	<b>Specifies the EDM help file path</b>

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## enable

**Turn on privileged commands**

### Syntax

- enable

### Default

None

### Command mode

**Global configuration mode**

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## end

**Exit from configure mode**

### Syntax

- end

### Default

None

### Command mode

**Global configuration mode**

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## exit

**Exit from configure mode**

### Syntax

- exit

### Default

None

### Command mode

**User EXEC mode**

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## flowcontrol

**Configure flow control mode of a port**

### Syntax

- `flowcontrol [asymmetric|auto|disable|port<port-list>|symmetric]`

### Default

None

### Command mode

#### Interface Configuration Mode

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## help commands

**Show commands available**

### Syntax

- `help commands mode [application|config | current | exec | ifconfig | interface | privExec]`

### Default

None

### Command mode

**User EXEC mode**

### Command parameters

Parameter	Description
mode config	<b>Show commands available in Global Configuration Mode current</b>
mode current	<b>Show commands available in current configuration mode</b>
mode exec	<b>Show commands available in executive mode</b>
mode ifconfig	<b>Show commands available in Interface Configuration Mode</b>
mode interface	<b>Show commands available in Interface Configuration Modes</b>
mode privExec	<b>Show commands available in Privileged Executive Mode</b>

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## http-port

**Set the TCP port on which web server will listen**

### Syntax

- `http-port <1024-65535>`

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
<1024-65535>	<b>Specifies the http port number</b>



# Command: install

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## install

### Quick Install & Setup Script

### Syntax

- `install`

### Default

None

### Command mode

### Privileged EXEC Mode

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## interface FastEthernet

### FastEthernet IEEE 802.3

### Syntax

- `interface FastEthernet <LINE>`

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
<code>&lt;port-number&gt;</code>	<b>Specifies a port number for interface configuration</b>

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## interface vlan

### Layer 3 IP VLAN

### Syntax

- interface vlan <vid>

### Default

None

### Command mode

#### Global configuration mode

### Command parameters

Parameter	Description
<vlan-id> default	
<vlan-id> ip	
<vlan-id> ipv6	

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## ip address

**Set switch/stack IP address**

### Syntax

- ip address <A.B.C.D> | netmask <A.B.C.D> | source | stack <A.B.C.D> | switch <A.B.C.D> | unit <1-8>]

### Default

None

### Command mode

**Global configuration mode**

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## ip arp

### Syntax

- `ip arp <A.B.C.D> | timeout <5-360>`

### Default

None

### Command mode

#### Global configuration mode

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## ip arp-inspection

### Enable ARP inspection

### Syntax

- ip arp-inspection vlan <1-4094>
- ip arp-inspection vlan <1-4094>

### Default

None

### Command mode

### Global configuration mode

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## ip blocking mode

**Configure the Layer 3 IP blocking mode**

### Syntax

- `ip blocking mode [full|none]`

### Default

None

### Command mode

**Global configuration mode**



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## ip bootp

### Config BOOTP services

### Syntax

- `ip bootp server [always|default-ip|disable|last]`

### Default

None

### Command mode

### Global configuration mode

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## ip default-gateway

**Specify default gateway (if not routing IP)**

### Syntax

- `ip default-gateway <A.B.C.D>`

### Default

None

### Command mode

**Global configuration mode**

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## ip dhcp client lease

**Configure DHCP lease time**

### Syntax

- ip dhcp client lease <10-4294967295>[days <1-49710> | hours <1-1193046> | minutes <1-71582788> | weeks <1-7101>]

### Default

None

### Command mode

**Global configuration mode**

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## ip dhcp-relay

**Enable DHCP relay**

### Syntax

- ip dhcp-relay [fwd-path | max-frame | option82]

### Default

None

### Command mode

**Global configuration mode**

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## ip dhcp-relay fwd-path

**Configure DHCP relay forward path**

### Syntax

- ip dhcp-relay fwd-path <A.B.C.D>

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
<agent-IP-addr> <dhcp-server-IP-addr> disable	
<agent-IP-addr> <dhcp-server-IP-addr> enable	

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## ip dhcp-relay max-frame

**Set the maximum length of DHCP packets for relay**

### Syntax

- ip dhcp-relay max-frame <576-1536>

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
<576-1536>	<b>starting with this value option82 is not added anymore</b>

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## ip dhcp-relay option82

**Enable option 82 for DHCP Relay**

### Syntax

- ip dhcp-relay option82

### Default

None

### Command mode

**Global configuration mode**

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## ip dhcp-server

**Configure the DHCP server settings**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

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## ip dhcp-server lease

**Configure global lease time**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

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## ip dhcp-server option-3

**Configure global list of routers**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

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## ip dhcp-server option-6

**Configure global list of DNS servers**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

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## ip dhcp-server pool

Create/modify a DHCP server pool

### Syntax

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
<pool-name> option-6 <dns-server-ip-addresses>	<b>Configure DNS servers</b>

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## ip dhcp-snooping

**Configure DHCP snooping settings**

### Syntax

- `ip dhcp-snooping binding <1-4094>`

### Default

None

### Command mode

**Global configuration mode**

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## ip dhcp-snooping vlan

**Configure DHCP snooping VLANs**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
<1-4094>	<b>Configure DHCP snooping VLANs</b>
<1-4094> option82	<b>Enable option 82 for DHCP snooping</b>

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## ip directed-broadcast

**Enabled directed broadcast forwarding**

### Syntax

### Default

None

### Command mode

**Global configuration mode**



# Command: ip domain-name

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## ip domain-name

**Configure DNS domain name**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

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## ip forward-protocol

**Configure broadcast forwarding**

### Syntax

- `ip forward-protocol udp <1-65535>`

### Default

None

### Command mode

**Global configuration mode**

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## ip igmp flush vlan

**Flush on vlan interfaces**

### Syntax

- ip igmp flush vlan <1-4094>

### Default

None

### Command mode

**Privileged EXEC Mode**

### Command parameters

Parameter	Description
<1-4094> grp-member	<b>Specifies the group member to flush the VLAN interfaces</b>
<1-4094> mrouter	<b>Specifies the mrouter address to flush the VLAN interfaces</b>

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## ip mgmt

**Configure management information**

### Syntax

- `ip mgmt route <A.B.C.D>`

### Default

None

### Command mode

**Global configuration mode**

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## ipmgr snmp

**Enable IP Manager control over SNMP traffic.**

### Syntax

- `ipmgr snmp`

### Default

None

### Command mode

**Global configuration mode**

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## ipmgr source-ip

**Set source IP address from which connections are allowed**

### Syntax

- ipmgr source-ip <1-50> <51-100>

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
<1-50> <ipv4 addr/mask>	<b>Select which address/mask pair</b>

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## ipmgr telnet

**Enable IP Manager control over TELNET sessions.**

### Syntax

- ipmgr telnet

### Default

None

### Command mode

**Global configuration mode**

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## ipmgr web

**Enable IP Manager control over WEB connections.**

### Syntax

- ipmgr web

### Default

None

### Command mode

**Global configuration mode**

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## ip name-server

**Configure DNS server IP addresses**

### Syntax

- `ip name-server <A.B.C.D> [<WORD>]`

### Default

None

### Command mode

**Global configuration mode**

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## ip route

**Create a static IP route**

### Syntax

- `ip route <A.B.C.D>`

### Default

None

### Command mode

**Global configuration mode**

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## ip routing

**Enable global routing**

### Syntax

- ip routing force

### Default

None

### Command mode

**Global configuration mode**

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## ipv6 address

**Configure stack/switch/unit IPV6 address/prefix\_length**

### Syntax

- `ipv6 address [stack <WORD> | switch <WORD> | unit <1-8> | <WORD>]`

### Default

None

### Command mode

**Global configuration mode**

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## ipv6 default-gateway

**Configure IPv6 default gateway**

### Syntax

- `ipv6 default-gateway <WORD>`

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
<code>&lt;ipv6 addr&gt;</code>	<b>Configure IPv6 default gateway</b>

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## ipv6 enable

**Enable IPv6 global admin status**

### Syntax

- `ipv6 enable icmp [ block-multicast-replies|error-interval | error-quota | unreachable-msg]`

### Default

None

### Command mode

**Global configuration mode**

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## ipv6 neighbor

**Configure neighbor cache**

### Syntax

- `ipv6 neighbor <WORD>`

### Default

None

### Command mode

**Global configuration mode**

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## ip verfiy

**Enables the IP Source Guard**

### Syntax

- ip verify source interface FastEthernet WORD

### Default

None

### Command mode

**Global configuration mode**

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## lacp aggregation

**Enable port aggregation mode**

### Syntax

- lacp aggregation port <port-list>

### Default

None

### Command mode

**Interface Configuration Mode**

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## lacp clear-stats

**Clear LACP statistics**

### Syntax

- lacp clear-stats port <port-list>

### Default

None

### Command mode

**Interface Configuration Mode**

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## lacp key

**Set key value for ports**

### Syntax

- lacp key <1-4095>

### Default

None

### Command mode

**Interface Configuration Mode**

### Command parameters

Parameter	Description
<1-4095>	<b>Set key value for ports</b>

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## lacp mode

### Set LACP port mode

### Syntax

- lacp mode [active|off|passive|port <port-list>]

### Default

None

### Command mode

#### Interface Configuration Mode

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## lacp priority

**Set port priority**

### Syntax

- lacp priority <0-65535> | port <port-list>

### Default

None

### Command mode

**Interface Configuration Mode**

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## lacp system-priority

**Set LACP system priority**

### Syntax

- lacp system-priority <0-65535>

### Default

None

### Command mode

**Global configuration mode**

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## lacp timeout-time

**Set port timeout**

### Syntax

- lacp timeout-time [long | port <port-list> | Short]

### Default

None

### Command mode

**Interface Configuration Mode**

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## lldp config-notification

**Enable notification on configuration change**

### Syntax

### Default

None

### Command mode

**FastEthernet or GigabitEthernet Interface configuration mode**

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## Ildp location-identification civic-address

**Location Configuration Information (LCI) of thr Civic Address**

### Syntax

### Default

None

### Command mode

**FastEthernet or GigabitEthernet Interface configuration mode**

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## Ildp location-identification coordinate-base

**Coordinate-Based Location Configuration Information (LCI)**

### Syntax

### Default

None

### Command mode

**FastEthernet or GigabitEthernet Interface configuration mode**

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## Ildp location-identification ecs-elin

**Location Configuration Information (LCI) on Emergency Call Service ELIN**

### Syntax

### Default

None

### Command mode

**FastEthernet or GigabitEthernet Interface configuration mode**

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# Command: Ildp location-identification port

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## Ildp location-identification port

**Location Configuration Information (LCI) on port list**

### Syntax

### Default

None

### Command mode

**FastEthernet or GigabitEthernet Interface configuration mode**

### Command parameters

Parameter	Description
<port-list> civic-address	<b>Location Configuration Information (LCI) for civic address</b>

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## lldp med-fast-start (Global)

**MED Fast Start repeat count value**

### Syntax

- `lldp med-fast-start <1-10>`

### Default

None

### Command mode

**Global configuration mode**

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## lldp med-fast-start (port)

**MED Fast Start repeat count value**

### Syntax

- `lldp med-fast-start <1-10>`

### Default

None

### Command mode

#### Interface Configuration Mode

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## lldp notification-interval (Global)

**Set notification interval value**

### Syntax

- `lldp notification-interval <5-3600>`

### Default

None

### Command mode

**Global configuration mode**

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## lldp notification-interval (port)

**Set notification interval value**

### Syntax

- `lldp notification-interval <5-3600>`

### Default

None

### Command mode

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## lldp port

**Displays the port list**

### Syntax

- `lldp port`

### Default

None

### Command mode

**FastEthernet or GigabitEthernet Interface configuration mode**

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## lldp reinit-delay (Global)

**Set reinitialize delay value**

### Syntax

- `lldp reinit-delay <1-10>`

### Default

None

### Command mode

**Global configuration mode**

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## lldp reinit-delay (port)

**Set reinitialize delay value**

### Syntax

- `lldp reinit-delay <1-10>`

### Default

None

### Command mode

#### Interface Configuration Mode

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## lldp status

**Set 802.1ab port(s) admin status**

### Syntax

- `lldp status`

### Default

None

### Command mode

**FastEthernet or GigabitEthernet Interface configuration mode**

### Command parameters

Parameter	Description
txOnly	<b>Set 802.1ab port(s) admin status to transmit only</b>

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## lldp tx-delay (Global)

**Set transmission delay value**

### Syntax

- `lldp tx-delay <1-8192>`

### Default

None

### Command mode

**Global configuration mode**

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## lldp tx-delay (port)

**Set transmission delay value**

### Syntax

- `lldp tx-delay <1-8192>`

### Default

None

### Command mode

**Interface Configuration Mode**

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## lldp tx-hold-multiplier (Global)

**Set transmission multiplier value**

### Syntax

- `lldp tx-hold-multiplier <2-10>`

### Default

None

### Command mode

**Global configuration mode**

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## lldp tx-hold-multiplier (port)

**Set transmission multiplier value**

### Syntax

- `lldp tx-hold-multiplier <2-10>`

### Default

None

### Command mode

**Interface Configuration Mode**

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## lldp tx-interval (Global)

**Set retransmission interval value**

### Syntax

- `lldp tx-interval <5-32768>`

### Default

None

### Command mode

**Global configuration mode**



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## lldp tx-interval (port)

**Set retransmission interval value**

### Syntax

- `lldp tx-interval <5-32768>`

### Default

None

### Command mode

**Interface Configuration Mode**

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## lldp-tx-tlv

**Enable TLVs for transmission**

### Syntax

### Default

None

### Command mode

**FastEthernet or GigabitEthernet Interface configuration mode**

### Command parameters

Parameter	Description
sys-desc	<b>System description TLV</b>

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## lldp vendor-specific avaya

Configure 802.1ab Avaya vendor-specific settings

### Syntax

- lldp vendor-specific avaya [dot1q-framing | poe-conservation-request-level]

### Default

None

### Command mode

FastEthernet or GigabitEthernet Interface configuration mode

### Command parameters

Parameter	Description
dot1q-framing auto	auto tagging-mode
dot1q-framing non-tagged	non-tagged tagging-mode
dot1q-framing tagged	tagged tagging-mode
poe-conservation-request-level <0-255>	PoE conservation request level



# Command: lldp vendor-specific avaya call-server

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## lldp vendor-specific avaya call-server

**Configure call-server address(es)**

### Syntax

### Default

None

### Command mode

**FastEthernet or GigabitEthernet Interface configuration mode**

### Command parameters

Parameter	Description
<ip-address>	<b>Call-server address number</b>

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## lldp vendor-specific avaya file-server

**Configure file-server address(es)**

### Syntax

### Default

None

### Command mode

**FastEthernet or GigabitEthernet Interface configuration mode**

### Command parameters

Parameter	Description
< ip-address>	<b>File-server address number</b>
<1-4> <ip-address>	<b>File-server IP address</b>

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# Command: lldp vendor-specific avaya poe-conservation-request-level

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## lldp vendor-specific avaya poe-conservation-request-level

**PoE conservation request level**

### Syntax

### Default

None

### Command mode

**FastEthernet or GigabitEthernet Interface configuration mode**

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## logging

**Change system event log settings**

**Syntax**

**Default**

None

**Command mode**

**Privileged EXEC Mode**

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## logging level

**The severity level of events that will be logged in DRAM**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**



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## logging nv-level

The severity level of events that will be saved in NV storage

### Syntax

### Default

None

### Command mode

Privileged EXEC Mode

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## logging remote address

**Configure remote syslog address**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## logging remote facility

**Configure remote logging facility**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

### Command parameters

Parameter	Description
local0	<b>Set local0 facility</b>

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## logging remote level

**Configure remote logging level**

**Syntax**

**Default**

None

**Command mode**

**Privileged EXEC Mode**

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## logging remote secondary-address

**Configure remote syslog address**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## logging volatile

**Configure options for logging to DRAM**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## logout

**Exit from the EXEC and end the current session**

### Syntax

- `logout`

### Default

None

### Command mode

#### User EXEC mode

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## mac-address-table aging-time

**Configure MAC address table aging time**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
<10-1000000>	<b>Configure MAC address table aging time in seconds</b>

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## mac-security

**Configure MAC Address security options.**

### Syntax

- mac-security

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
disable   enable	<b>Disable/Enable MAC address security</b>

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## mac-security auto-learning

### Configure MAC Auto-Learning

#### Syntax

#### Default

None

#### Command mode

FastEthernet or GigabitEthernet Interface configuration mode

#### Command parameters

Parameter	Description
disable   enable	<b>Disable/enable Auto-learning on port(s)</b>
ports <port-number>	<b>Configure MAC Auto-Learning Port(s)</b>

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## mac-security auto-learning sticky

**Set mac-security sticky mode**

### Syntax

- `mac-security auto-learning sticky`

### Default

None

### Command mode

**Global configuration mode**

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## mac-security filtering

### Enable/disable DA filtering

### Syntax

- `mac-security filtering [enable|disable]`

### Default

None

### Command mode

### Global configuration mode

### Command parameters

Parameter	Description
<code>disable</code>   <code>enable</code>	<b>Disable/Enable DA Filtering</b>

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## mac-security intrusion-detect

**Enable/disable partitioning on intrusion detection**

### Syntax

- `mac-security intrusion-detect [enable|disable|forever]`

### Default

None

### Command mode

**Global configuration mode**

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## mac-security intrusion-timer

**Set temporary partition time for intrusion detection.**

### Syntax

- `mac-security intrusion-timer <0-65535>`

### Default

None

### Command mode

**Global configuration mode**

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## mac-security learning

**Enable/disable MAC address learning**

### Syntax

- `mac-security learning [enable|disable]`

### Default

None

### Command mode

**Global configuration mode**

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## mac-security learning-ports

**Modify ports participation in MAC address learning.**

### Syntax

- `mac-security learning-ports [add | <LINE> | remove]`

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
<code>&lt;port-list&gt;</code>	<b>Modify ports participation in MAC address learning for specified ports</b>
<code>remove &lt;port-list&gt;</code>	<b>Remove ports</b>

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## mac-security mac-address-table

**Add addresses to MAC security address table**

### Syntax

- `mac-security mac-address-table [address | sticky address]`

### Default

None

### Command mode

**Global configuration mode**

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## mac-security mac-da-filter add

**Add MAC DA filtering address**

### Syntax

- `mac-security mac-da-filter add <H.H.H>`

### Default

None

### Command mode

**Global configuration mode**

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## mac-security security-list

**Modify security list port membership.**

### Syntax

- `mac-security security-list <1-32>`

### Default

None

### Command mode

**Global configuration mode**

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## mac-security snmp-lock

Enable/disable SNMP lock on MAC address security parameters.

### Syntax

- `mac-security snmp-lock [enable | disable]`

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
<code>disable</code>   <code>enable</code>	<b>Disable/enable SNMP lock on MAC address security parameters</b>

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## mac-security snmp-trap

### Syntax

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
disable   enable	

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## mlt

**Modify Multi-Link Trunking (MLT) configuration**

### Syntax

- mlt <1-6>

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
<1-6> enable   disable	<b>Disable/ Enable MLT</b>

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## mlt spanning-tree

**Set MLT spanning-tree settings**

### Syntax

- 

### Default

None

### Command mode

**Global configuration mode**

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## name

**Set the names of ports**

### Syntax

- name [<LINE>]

### Default

None

### Command mode

**Interface Configuration Mode**

### Command parameters

Parameter	Description
<port-name>	<b>Set the names of ports</b>



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## name port

**Port number(s) whose names are to be changed**

### Syntax

- name port <port-list>

### Default

None

### Command mode

**Interface Configuration Mode**

### Command parameters

Parameter	Description
<port-list>	<b>Port number(s) whose names are to be changed</b>

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## no adac (for a port)

**Disable/Clear ADAC port settings**

### Syntax

### Default

None

### Command mode

**Interface Configuration Mode**

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## no adac (Global)

**Disable/Clear ADAC settings**

**Syntax**

**Default**

None

**Command mode**

**Global configuration mode**

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# Command: no auto-negotiation-advertisements

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## no auto-negotiation-advertisements

**Disable auto-negotiation advertisement**

### Syntax

### Default

None

### Command mode

**Interface Configuration Mode**

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## no auto-pvid

**Disable Auto-PVID (for all ports).**

### Syntax

- no auto-pvid

### Default

None

### Command mode

**Global configuration mode**

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## no autosave

**Clear/delete autosave settings**

### Syntax

- no autosave

### Default

None

### Command mode

**Global configuration mode**

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## no autotopology

**Disable the autotopology protocol**

### Syntax

- no autotopology

### Default

None

### Command mode

**Global configuration mode**



# Command: no banner

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## no banner

**Clear the custom banner**

### Syntax

- no banner

### Default

None

### Command mode

**Global configuration mode**

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## no clock

**Disable RTC related configuration**

### Syntax

- no clock

### Default

None

### Command mode

**Global configuration mode**



# Command: no eapol (for a port)

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## no eapol (for a port)

**Disable EAPOL protocol on port**

### Syntax

### Default

None

### Command mode

**Interface Configuration Mode**

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## no eapol (Global)

**Disable EAPOL protocol.**

### Syntax

- no eapol [guest-vlan | multihost]

### Default

None

### Command mode

**Global configuration mode**

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## no flowcontrol

**Disable flow control of a port**

### Syntax

### Default

None

### Command mode

**Interface Configuration Mode**

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# Command: no ip (for a port)

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## no ip (for a port)

**Clear IP settings**

**Syntax**

**Default**

None

**Command mode**

**Interface Configuration Mode**

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## no ip (Global)

**Clear IP settings**

**Syntax**

**Default**

None

**Command mode**

**Global configuration mode**

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## no ipmgr

**Disable IP Manager settings.**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

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## no ipv6

**Global IPv6 configuration subcommands**

**Syntax**

**Default**

None

**Command mode**

**Global configuration mode**

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## no lacp

**Remove LACP port configuration .**

### Syntax

### Default

None

### Command mode

### Interface Configuration Mode

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## no lldp

**Disable 802.1ab settings**

**Syntax**

**Default**

None

**Command mode**

**Interface Configuration Mode**

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## no logging

**Disable system logging**

### Syntax

- no logging remote [address|enable|facility|level|secondary-address]

### Default

None

### Command mode

**Global configuration mode**

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## no mac-security (for a port)

**Disable MAC-based security**

### Syntax

### Default

None

### Command mode

**Interface Configuration Mode**

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## no mac-security (Global)

**Disable/clear MAC Address Security parameters.**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

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## no mlt

**Clear Multi-Link Trunking (MLT) configuration**

### Syntax

### Default

None

### Command mode

**Global configuration mode**



# Command: no name

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## no name

**Clear the names of ports**

**Syntax**

**Default**

None

**Command mode**

**Interface Configuration Mode**

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# Command: no password

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## no password

**Configure password security restrictions**

**Syntax**

**Default**

None

**Command mode**

**Global configuration mode**

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# Command: no poe-shutdown

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## no poe-shutdown

**Enable power on the port**

### Syntax

### Default

None

### Command mode

### Interface Configuration Mode

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# Command: no poe-trap

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## no poe-trap

### Syntax

### Default

None

### Command mode

### Global configuration mode

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## no port-mirroring

**Change port mirroring configuration**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

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## no qos (for a port)

**Modify QoS settings**

**Syntax**

**Default**

None

**Command mode**

**Interface Configuration Mode**

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# Command: no qos (Global)

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## no qos (Global)

**Modify QoS settings**

**Syntax**

**Default**

None

**Command mode**

**Global configuration mode**

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## no radius

**Disable RADIUS accounting**

**Syntax**

**Default**

None

**Command mode**

**Global configuration mode**

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## no radius-server

**Clear RADIUS server/port/key configuration**

### Syntax

- no radius-server password

### Default

None

### Command mode

**Global configuration mode**

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## no rate-limit

**Disables rate-limiting**

### Syntax

- `no rate-limit unit <1-8>`

### Default

None

### Command mode

**Global configuration mode**



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## no rmon

**Remove RMON table entries**

### Syntax

- `no rmon [alarm | event | history | stats]`

### Default

None

### Command mode

**Global configuration mode**



# Command: no shutdown

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## no shutdown

**Disable the selected interface**

### Syntax

### Default

None

### Command mode

**Interface Configuration Mode**

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## no slamon

**Modify SLAMon settings**

### Syntax

- no slamon [cli | cli-timeout mode | oper-mode]

### Default

None

### Command mode

**Interface Configuration Mode**

### Command parameters

Parameter	Description
oper-mode	<b>Disable the SLAMon agent</b>

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## no snmp

**Clear/delete SNMP interface parameters spanning-tree**

### Syntax

### Default

None

### Command mode

**Interface Configuration Mode**

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## no snmp-server

**Disable SNMP parameters**

### Syntax

- `no snmp-server`

### Default

None

### Command mode

**Global configuration mode**

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## no sntp

**Disable/clear SNTP parameters**

### Syntax

- no sntp

### Default

None

### Command mode

**Global configuration mode**



# Command: no spanning-tree (for a port)

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## no spanning-tree (for a port)

**Change Spanning Tree configuration for specific port(s)**

### Syntax

### Default

None

### Command mode

### Interface Configuration Mode

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## no spanning-tree (Global)

**Clear/delete spanning tree configuration values**

### Syntax

- no spanning-tree [802dot1d-port-compliance | bpdu-filtering]

### Default

None

### Command mode

**Global configuration mode**



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## no stack

### Clear stack settings

### Syntax

- no stack [auto-unit-replacement | auto-unit-replacement-image | forced-mode | reboot-on-failure]

### Default

None

### Command mode

### Global configuration mode

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## no stack-monitor

### Disable stack monitoring

### Syntax

- `no stack-monitor enable`

### Default

None

### Command mode

### Global configuration mode

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## no storm-control

**Clear packet Storm Control settings**

### Syntax

- no storm-control [all | broadcast | multicast | unicast]

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
all	<b>Clear packet Storm Control settings for all traffic types</b>
broadcast	<b>Clear packet Storm Control settings for broadcast</b>
multicast	<b>Clear packet Storm Control settings for multicast</b>
unicast	<b>Clear packet Storm Control settings for unicast</b>

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## no tacacs

**Clear TACACS+ server/port/key configuration**

### Syntax

- `no tacacs server [host|key|port <port-list> |secondary-host]`

### Default

None

### Command mode

**Global configuration mode**

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## no telnet-access

**Disable TELNET access**

### Syntax

- `no telnet-access source-ip`

### Default

None

### Command mode

**Global configuration mode**

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## no tftp-server

**Provide TFTP service for netload requests**

### Syntax

### Default

None

### Command mode

**Global configuration mode**



# Command: no vlacp (for a port)

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## no vlacp (for a port)

**Disable VLACP for a port**

### Syntax

### Default

None

### Command mode

**Interface Configuration Mode**

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## no vlacp (Global)

**Clear VLACP configuration**

**Syntax**

**Default**

None

**Command mode**

**Global configuration mode**

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## no vlan

**Delete a VLAN or VLAN parameters**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

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## no web-server

**Modify WEB server parameters**

**Syntax**

**Default**

None

**Command mode**

**Global configuration mode**

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## password security

**Enable password security restrictions**

**Syntax**

**Default**

None

**Command mode**

**Global configuration mode**

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## ping

**Sends echo messages**

### Syntax

### Default

None

### Command mode

**User EXEC mode**

### Command parameters

Parameter	Description
-----------	-------------

<ipv6 addr>	
-------------	--

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## port-mirroring mode

**Set port mirroring mode**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
disable	<b>Disable port mirroring</b>
XrxOrXtx monitor-port <port-number> mirror-port-X <port-number>	<b>Mirror packets received or transmitted on port X</b>
Xtx monitor-port <port-number> mirror-port-X <port-number>	<b>Mirror packets transmitted on port X</b>

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## qos acl-assign

**Create access-list assignment**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

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## qos acl-assign port

Specify the port(s) to apply access-list on

### Syntax

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
<port-list> acl-type ip name <acl-name>	<b>Reference an IP access-list</b>
<port-list> acl-type l2 name <acl-name>	<b>Reference a L2 access-list</b>

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## qos action

Create base actions entry

### Syntax

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
<10-55000>	<b>Specify the Action ID</b>
<10-55000> action-ext	<b>Specify the action extension id</b>
<10-55000> action-ext-name <action-extension-name>	<b>Specify the action extension name</b>
<10-55000> drop-action deferred-pass	<b>Allow actions associated with lower precedence policies to determine whether a packet should be dropped or not</b>
<10-55000> name <action-name>	<b>Specify the action label</b>
<10-55000> session-id <1-4294967295>	<b>Specify the session ID</b>
<10-55000> set-drop-prec high-drop	<b>Higher probability of being dropped when congestion is encountered</b>
<10-55000> set-drop-prec low-drop	<b>Lower probability of being dropped when congestion is encountered</b>
<10-55000> update-1p <0-7>	<b>Range of 802.1p user priority</b>
<10-55000> update-1p copy-priority	
<10-55000> update-1p use-egress	<b>Assign value based on DSCP-to-user priority map</b>
<10-55000> update-1p use-tos-prec	<b>Assign value based on the value of the precedence bits in the TOS field</b>



<10-55000> update-dscp  
<0-63>

## **Specify the update DSCP**

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## qos agent

**Configure global QoS parameters**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

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## qos agent aq-mode

Modify the Auto QOS application traffic processing mode

### Syntax

### Default

None

### Command mode

Global configuration mode

### Command parameters

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

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## qos agent nvram-delay

**Modify the maximum time in seconds to write config data to non-volatile storage**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

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## qos agent reset-default

**Reset the QoS to its configuration default**

### Syntax

### Default

None

### Command mode

### Global Configuration Mode

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## qos agent statistics-tracking

**Modify the QoS default statistics tracking**

### Syntax

### Default

None

### Command mode

**Global Configuration Mode**



# Command: qos classifier

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## qos classifier

**Create classifier set entry**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
<1-55000> set-id <1-55000> name <classifier-id-name>	

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## qos classifier-block

**Create classifier block entry**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
<1-55000>	<b>Specify the classifier block ID</b>



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## qos clear-stats

**Clear all QoS statistic counters**

### Syntax

### Default

None

### Command mode

**Global Configuration Mode**

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## qos egressmap

**Configure the DSCP to 802.1p priority and drop precedence associations**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
-----------	-------------

enable	
--------	--

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## qos if-action-extension

Create interface actions extension entry

### Syntax

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
<1-55000>	Create interface actions extension entry

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## qos if-assign name

**Specify name of interface group**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

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## qos if-assign port

**Specify list of ports**

**Syntax**

**Default**

None

**Command mode**

**Global configuration mode**

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## qos if-group name

**Specify name of interface group**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

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## qos if-shaper

**Configure interface shaping for port(s)**

### Syntax

### Default

None

### Command mode

**Interface Configuration Mode**

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## qos ingressmap

**Configure the 802.1p to DSCP associations**

### Syntax

### Default

None

### Command mode

**Global configuration mode**



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## qos ip-acl

**Create IP access-list element**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

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## qos ip-element

Create IP classifier element entry

### Syntax

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
<1-55000> addr-type	<b>Specify the address type (IPv4, IPv6) classifier criteria</b>
<1-55000> ds-field	<b>Specify the DSCP classifier criteria</b>
<1-55000> dst-ip	<b>Specify the destination IP classifier criteria</b>
<1-55000> dst-port-min	<b>Specify the L4 destination port minimum value classifier criteria</b>
<1-55000> flow-id	
<1-55000> name <element-name>	<b>Specify name of ip-element</b>
<1-55000> next-header	
<1-55000> session-id	<b>Specify the session ID</b>
<1-55000> src-port-min	<b>Specify the L4 source port minimum value classifier criteria</b>

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## qos l2-acl

**Create L2 access-list element**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

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## qos l2-element

Create L2 classifier element entry

### Syntax

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
<1-55000> priority <0-7>	Range of 802.1p user priority

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## qos meter

Create meter entry

### Syntax

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
<code>&lt;1-5000&gt; comitted-rate &lt;64-10230000 Kbps&gt; max-burst-rate &lt;64-4294967295 Kbps&gt; max-burst-duration &lt;1-4294967295 msec&gt; in-profile-action &lt;1-55000&gt; out-profile-action &lt;1-1&gt; session-id &lt;1-4294967295&gt;</code>	<b>Specify the session id for out profile action with maximum burst duration</b>

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## qos policy

Create policy entry

### Syntax

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
<code>&lt;1-55000&gt; enable</code>	<b>Specify the policy ID</b>
<code>&lt;1-55000&gt; if-group &lt;group-name&gt; clfr-type block clfr-id &lt;1-55000&gt; in-profile-action &lt;1-55000&gt; precedence &lt;1-15&gt; session-id &lt;1-4294967295&gt;</code>	<b>Specify the session id for in profile action to associate a classifier block to the policy</b>
<code>&lt;1-55000&gt; if-group &lt;group-name&gt; clfr-type block clfr-id &lt;1-55000&gt; in-profile-action &lt;1-55000&gt; precedence &lt;1-15&gt; track-statistics</code>	<b>Specify to track statistics on policy</b>
<code>&lt;1-55000&gt; if-group &lt;group-name&gt; clfr-type block clfr-id &lt;1-55000&gt; in-profile-action &lt;1-55000&gt; precedence &lt;1-15&gt; track-statistics aggregate</code>	<b>All classifiers associated with the policy will share the statistics resource</b>
<code>&lt;1-55000&gt; if-group &lt;group-name&gt; clfr-type block clfr-id &lt;1-55000&gt; in-profile-action &lt;1-55000&gt; precedence &lt;1-15&gt; track-statistics aggregate session-id &lt;1-4294967295&gt;</code>	<b>Specify the session ID</b>
<code>&lt;1-55000&gt; if-group &lt;group-name&gt; clfr-type block clfr-id &lt;1-55000&gt; in-profile-action &lt;1-55000&gt; precedence &lt;1-15&gt; track-statistics individual</code>	<b>Each classifier associated with the policy will have its own statistics resource</b>
<code>&lt;1-55000&gt; if-group &lt;group-name&gt; clfr-type block clfr-id &lt;1-55000&gt; in-profile-action &lt;1-55000&gt; precedence &lt;1-15&gt; track-statistics individual session-id &lt;1-4294967295&gt;</code>	<b>Specify the session ID</b>
<code>&lt;1-55000&gt; if-group &lt;group-name&gt; clfr-type block</code>	<b>Specify the classifier set</b>

```

clfr-name <classifier-name> in-profile-action <1-
55000> precedence <1-15>
<1-55000> if-group <group-name> clfr-type block
clfr-name <classifier-name> in-profile-action <1-
55000> precedence <1-15> session-id <1-4294967295>
<1-55000> if-group <group-name> clfr-type block
clfr-name <classifier-name> in-profile-action-name
<action-name> precedence <1-15> track-statistics
<1-55000> if-group <group-name> clfr-type block
clfr-name <classifier-name> in-profile-action-name
<action-name> precedence <1-15> track-statistics
individual
<1-55000> if-group <group-name> clfr-type block
clfr-name <classifier-name> meter <1-55000>
precedence <1-15>
<1-55000> if-group <group-name> clfr-type block
clfr-name <classifier-name> meter <1-55000>
precedence <1-15> session-id <1-4294967295>
<1-55000> if-group <group-name> clfr-type block
clfr-name <classifier-name> meter <1-55000>
precedence <1-15> track-statistics
<1-55000> if-group <group-name> clfr-type block
clfr-name <classifier-name> meter <1-55000>
precedence <1-15> track-statistics aggregate
<1-55000> if-group <group-name> clfr-type block
clfr-name <classifier-name> meter-name <meter-name>
precedence <1-15>
<1-55000> if-group <group-name> clfr-type block
clfr-name <classifier-name> meter-name <meter-name>
precedence <1-15> session-id <1-4294967295>
<1-55000> if-group <group-name> clfr-type block
clfr-name <classifier-name> meter-name <meter-name>
precedence <1-15> track-statistics
<1-55000> if-group <group-name> clfr-type block
clfr-name <classifier-name> meter-name <meter-name>
precedence <1-15> track-statistics aggregate
<1-55000> if-group <group-name> clfr-type block
clfr-name <classifier-name> precedence <1-15>
session-id <1-4294967295>
<1-55000> if-group <group-name> clfr-type block
clfr-name <classifier-name> session-id <1-
4294967295>
<1-55000> name <policy-name> if-group <group-name>
clfr-type block clfr-id <1-55000> meter <1-55000>
precedence <1-15>

```

**name or classifier block  
name for in profile action**

**Specify the session ID**

**Specify to track statistics  
on policy**

**Each classifier associated  
with the policy will have  
its own statistics resource**

**Specify the classifier set  
name or classifier block  
name for in profile action**

**Specify the session ID**

**Specify to track statistics  
on policy**

**All classifiers associated  
with the policy will share  
the statistics resource**

**Specify the classifier set  
name or classifier block  
name for in profile action**

**Specify the session ID**

**Specify to track statistics  
on policy**

**All classifiers associated  
with the policy will share  
the statistics resource**

**Specify the session ID**

**Specify the session ID**

**Specify the meter ID for  
classifier set name or  
classifier block name**

```
<1-55000> name <policy-name> if-group <group-name>  
clfr-type block clfr-id <1-55000> meter-name <meter-  
name> precedence <1-15>
```

**Specify the meter name**

```
<1-55000> name <policy-name> if-group <group-name>  
clfr-type block clfr-id <1-55000> precedence <1-15>
```

**Specify the classifier set  
ID or classifier block  
number with the policy  
precedence**

```
<1-55000> name <policy-name> if-group <group-name>  
clfr-type block clfr-id <1-55000> session-id <1-  
4294967295>
```

**Specify the session id for  
classifier set ID or  
classifier block number**

```
<1-55000> name <policy-name> if-group <group-name>  
clfr-type block clfr-name <classifier-name> in-  
profile-action <1-55000> precedence <1-15>
```

**Specify the classifier  
name with the policy  
precedence**

```
<1-55000> name <policy-name> if-group <group-name>  
clfr-type block clfr-name <classifier-name> in-  
profile-action-name <action-name> precedence <1-15>
```

**Specify the classifier  
name with the policy  
precedence**

```
<1-55000> name <policy-name> if-group <group-name>  
clfr-type block clfr-name <classifier-name> meter  
<1-55000> precedence <1-15>
```

**Specify the classifier  
name and meter id with  
policy precedence**

```
<1-55000> name <policy-name> if-group <group-name>  
clfr-type classifier clfr-id <1-55000> meter <1-  
55000> precedence <1-15>
```

**Specify the classifier id  
and meter id with policy  
precedence**

```
<1-55000> name <policy-name> if-group <group-name>  
clfr-type classifier clfr-id <1-55000> session-id  
<1-4294967295>
```

**Specify the session id**



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## qos queue-set-assignment

**Configure the 802.1p priority to queue**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

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## qos system-element

Create system classifier element entry

### Syntax

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
<1-55000>	<b>Create system classifier element entry</b>
<1-55000> known-mcast	<b>Match frames containing a known multicast destination address</b>
<1-55000> known-mcast pattern-data <byte-separated-by-colon> pattern-mask <byte-separated-by-colon>	<b>Specifies the specific data pattern bit positions of interest</b>
<1-55000> known-mcast pattern-format tagged pattern-data <byte-separated-by-colon> pattern-mask <byte-separated-by-colon>	<b>Tagged pattern data/mask format</b>
<1-55000> known-mcast pattern-format untagged pattern-data <byte-separated-by-colon> pattern-mask <byte-separated-by-colon>	<b>Untagged pattern data/mask format</b>
<1-55000> known-mcast session-id <1-4294967295>	<b>Specify the session ID</b>
<1-55000> pattern-data <byte-separated-by-colon> pattern-mask <byte-separated-by-colon>	<b>Match frames with a specific data pattern</b>
<1-55000> pattern-format tagged pattern-data <byte-separated-by-colon> pattern-mask <byte-separated-by-colon>	<b>Tagged pattern data/mask format</b>
<1-55000> pattern-format untagged pattern-data <byte-separated-by-colon> pattern-mask <byte-separated-by-colon>	<b>Untagged pattern data/mask format</b>

<1-55000> session-id <1-4294967295>

<1-55000> unknown-mcast

<1-55000> unknown-mcast pattern-data <byte-separated-by-colon> pattern-mask <byte-separated-by-colon>

<1-55000> unknown-mcast pattern-format tagged  
pattern-data <byte-separated-by-colon> pattern-mask  
<byte-separated-by-colon>

<1-55000> unknown-mcast pattern-format untagged  
pattern-data <byte-separated-by-colon> pattern-mask  
<byte-separated-by-colon>

<1-55000> unknown-mcast session-id <1-4294967295>

<1-55000> unknown-ucast

<1-55000> unknown-ucast pattern-format tagged  
pattern-data <byte-separated-by-colon> pattern-mask  
<byte-separated-by-colon>

<1-55000> unknown-ucast pattern-format untagged  
pattern-data <byte-separated-by-colon> pattern-mask  
<byte-separated-by-colon>

<1-55000> unknown-ucast session-id <1-4294967295>

**Specify the session ID**  
**Match frames containing**  
**an unknown multicast**  
**destination address**  
**Specifies the specific data**  
**pattern bit positions of**  
**interest**

**Tagged pattern data/mask**  
**format**

**Untagged pattern**  
**data/mask format**

**Specify the session ID**  
**Match frames containing**  
**an unknown unicast**  
**destination address**

**Tagged pattern data/mask**  
**format**

**Untagged pattern**  
**data/mask format**

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## radius accounting interim-updates

**Modify interim-updates settings**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
enable	<b>Enable RADIUS Accounting Interim-Updates</b>
interval <60-3600>	<b>Modify the timeout interval for RADIUS Accounting Interim-Updates</b>
use-server-interval	<b>Use the value given by server for the timeout interval</b>

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## radius dynamic-server client

### RADIUS Dynamic Authorization Client settings

#### Syntax

#### Default

None

#### Command mode

#### Global configuration mode

#### Command parameters

Parameter	Description
<client-ip-addr>	<b>Add new RADIUS Dynamic Authorization Client or change RADIUS Dynamic Authorization Client settings</b>
<client-ip-addr> enable	<b>Enable packet receive from this RADIUS Dynamic Authorization Client</b>
<client-ip-addr> port <1024-65535>	<b>Set server/NAS UDP port to listen for requests from this RADIUS</b>
<client-ip-addr> process- change-of-auth-requests	<b>Enable change-of-authorization requests processing</b>
<client-ip-addr> process- disconnect -requests	<b>Enable disconnect requests processing</b>
<client-ip-addr> secret	<b>Set RADIUS Dynamic Authorization Client secret</b>
<client-ip-addr> secret <secret-name>	<b>Specify the secret name</b>

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## radius reachability

**Configure RADIUS server reachability settings**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
<code>use-icmp</code>	<b>Enable RADIUS server reachability using ICMP</b>
<code>use-radius</code>	<b>Enable RADIUS server reachability using RADIUS requests</b>
<code>use-radius username &lt;radius-request-username&gt;</code>	<b>Set RADIUS request username</b>

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## radius server host

### RADIUS host settings

### Syntax

### Default

None

### Command mode

### Global configuration mode

### Command parameters

Parameter	Description
A.B.C.D	<b>IP address of RADIUS server</b>
retry <1-5>	<b>RADIUS retry attempts</b>
timeout <1-60>	<b>RADIUS time-out period</b>
used-by non-eapol	<b>Non-EAP application</b>



# Command: radius-server host

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## radius-server host

### Syntax

### Default

None

### Command mode

### Global configuration mode

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## radius-server key

### Syntax

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
password fallback	<b>RADIUS password fallback</b>

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## radius-server password

**RADIUS password fallback**

**Syntax**

**Default**

None

**Command mode**

**Global configuration mode**

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## radius-server port

### Syntax

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
<1-65535>	<b>RADIUS UDP port</b>
<1-65535> key <shared-secret>	
<1-65535> password fallback	<b>RADIUS password fallback</b>

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# Command: radius-server secondary-host

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## radius-server secondary-host

### Syntax

### Default

None

### Command mode

### Global configuration mode

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## radius-server timeout

### Syntax

### Default

None

### Command mode

### Global configuration mode

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## radius use-management-ip

**Enable Radius use-management-ip flag.**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

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## rate-limit both

**Set rate limiting for both multicast and broadcast packets**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

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## rate-limit broadcast

**Set rate limiting for broadcast packets**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

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## rate-limit multicast

**Set rate limiting for multicast packets**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

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## rate-limit unit

**Set rate limiting for a specified unit on port**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

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## rear-ports mode

**Sets the stacking mode**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

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## reload

**Reload the switch/stack.**

### Syntax

- reload [cancel | forced | minutes-to-wait]

### Default

None

### Command mode

### Privileged EXEC Mode

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## renew

**Renew DHCP lease**

### Syntax

- `renew dhcp`

### Default

None

### Command mode

**Privileged EXEC Mode**

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## renumber unit

**Renumbers the unit numbers in a stack**

### Syntax

- `renumber unit`

### Default

None

### Command mode

**Global configuration mode**

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## restore

**Reset the switch/stack to factory default**

### Syntax

- `restore factory-default <-y>`

### Default

None

### Command mode

**Privileged EXEC Mode**

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## rmon alarm

Create RMON Alarm entries

### Syntax

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
<1-65535> <variable-name-OID> <1-2147483674> absolute rising-threshold <-2147483674 - 2147483674> <1-65535> falling-threshold <-2147483674 - 2147483674> <1-65535>	<b>Specify the alarm variable with absolute sampling interval (in seconds) and specify the rising and the falling threshold values</b>
<1-65535> <variable-name-OID> <1-2147483674> absolute rising-threshold <-2147483674 - 2147483674> <1-65535> falling-threshold <-2147483674 - 2147483674> <1-65535> owner <owner-string>	<b>Specify the alarm variable with absolute sampling interval (in seconds) and specify the rising and the falling threshold values and specify the owner string</b>
<1-65535> <variable-name-OID> <1-2147483674> delta rising-threshold <-2147483674 - 2147483674> <1-65535> falling-threshold <-2147483674 - 2147483674> <1-65535> owner <owner-string>	<b>Specify the alarm variable with delta sampling interval (in seconds) and specify the rising and the falling threshold values</b>



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## rmon event

Create RMON Event entries

### Syntax

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
<1-65535>	<b>Create RMON Event entries</b>
<1-65535> description <description>	<b>Specify description of event</b>
<1-65535> log	<b>Specify events should be logged</b>
<1-65535> owner <owner-string>	<b>Specify owner string</b>

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## rmon history

Create RMON History entries

### Syntax

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
<1-65535> <data-source> <1-65535> <1-3600>	Create RMON History entries with the specified port number and the requested bucket
<1-65535> <data-source> <1-65535> <1-3600> owner <owner-string>	Create RMON History entries with the specified port number and the owner string

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## rmon stats

**Create RMON Stats entries**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
<1-65535> <data-source>	<b>Create RMON Stats entries for the specified port number</b>
<1-65535> <data-source> owner <owner-string>	<b>Create RMON Stats entries for the specified port number and specify the owner string</b>

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## run ipoffice

Scripted CLI commands for setup with IP Office solutions

### Syntax

### Default

None

### Command mode

Global configuration mode

### Command parameters

Parameter	Description
verbose	User input prompted CLI command script for IP Office solution setup



# Command: save config

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## save config

**Save configuration to local NV storage**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## show adac detection

**Display ADAC detection mechanisms**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## show adac interface

**Display configuration for specified interfaces**

### Syntax

### Default

None

### Command mode

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## show adac mac-range-table

**Display the supported MAC address ranges**

### Syntax

### Default

None

### Command mode

### Privileged EXEC Mode

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## show arp

**Display ARP entries**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

### Command parameters

Parameter	Description
summary	<b>Display summary of ARP entries</b>

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## show arp-table

**Display system ARP table**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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# Command: show auto-negotiation-advertisements

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## show auto-negotiation-advertisements

**Display current auto-negotiation advertisement settings**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## show auto-negotiation-capabilities

**Display auto-negotiation advertisement capabilities**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## show auto-pvid

**Show Auto-PVID mode**

**Syntax**

**Default**

None

**Command mode**

**Privileged EXEC Mode**

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## show autosave

**Display current autosave setting**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## show autotopology

**Display autotopology information**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## show banner

**Display banner information**

### Syntax

- `show banner [custom | static]`

### Default

None

### Command mode

**Privileged EXEC Mode**

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## Command: show cli

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### show cli

**Display password settings**

**Syntax**

**Default**

None

**Command mode**

**Privileged EXEC Mode**

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# Command: show clock

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## show clock

**Display current time**

**Syntax**

**Default**

None

**Command mode**

**Privileged EXEC Mode**

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## show config-network

**Displays the settings for downloading config files**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## show cpu-utilization

**Displays the CPU utilization information**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## show eapol

**Displays the current settings of the EAPOL protocol**

### Syntax

### Default

None

### Command mode

### Privileged EXEC Mode

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## show eapol auth-diags

**Displays the EAPOL diags**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## show eapol auth-stats

**Displays EAPOL statistics**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

### Command parameters

Parameter	Description
<code>interface &lt;port-list&gt;</code>	<b>Select interfaces to display EAPOL statistics for specified port</b>

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## show eapol guest-vlan

**Displays EAPOL guest-vlan settings**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**



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## show eapol multihost

**Displays EAPOL multi-host information**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

### Command parameters

Parameter	Description
interface <port-list>	<b>Display EAPOL multihost port configuration</b>
voip-vlan	<b>Display EAPoL multihost voip-vlan settings</b>

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## show eapol port

**Displays EAPOL configuration for specified ports**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## show edm help-file-path

**Displays the EDM help file path**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## show environmental

**Displays environmental information of the switch**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## show http-port

**Displays the TCP port on which web server will listen**

### Syntax

### Default

None

### Command mode

### Privileged EXEC Mode

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## show interfaces

**Displays the interface status and configuration**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

### Command parameters

Parameter	Description
gbic-info <port-list>	<b>Display gbic details for specified port</b>
verbose	<b>Display port status information for several applications</b>

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## show ip

**Displays IP-related information**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## show ip address

**Displays the IP address of switch/stack**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

### Command parameters

Parameter	Description
source	<b>display BOOTP/DHCP settings stack unit</b>
stack	<b>Displays stack ip address switch</b>

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## show ip-blocking

### Syntax

### Default

None

### Command mode

### Privileged EXEC Mode

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## show ip bootp

**Displays bootp settings**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## show ip default-gateway

**Displays IP address of default gateway**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## show ip igmp cache

**Displays IGMP cache details**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## show ip igmp group

**Displays IGMP group details**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## show ip igmp group-ext

**Displays IGMP extended group details**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## show ip igmp interface

**Displays IGMP interface information**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

### Command parameters

Parameter	Description
vlan <1-4094>	<b>Display VLAN interfaces</b>

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## show ip igmp router-alert

**Displays router-alert settings**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## show ip igmp snooping

**Displays IGMP snooping information**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## show ip mgmt route

**Displays management VLAN information**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## show ipmgr

**Displays IP Manager settings**

### Syntax

### Default

None

### Command mode

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## show ipv6

**Displays IPv6-related information**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

### Command parameters

Parameter	Description
neighbor <ipv6-addr>	<b>Display IPv6 neighbor information for specified IPv6 address</b>
tcp connections	<b>Display IPv6 tcp connections</b>

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## show ipv6 address

**Displays the configured ipv6 addresses**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

### Command parameters

Parameter	Description
stack	<b>Display configured stack ipv6 address/prefix</b>
unit <1-8>	<b>Display configured IPv6 address/prefix of local unit</b>

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## show lacp aggr

**Display LACP aggregator information**

### Syntax

### Default

None

### Command mode

### Privileged EXEC Mode

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## show lacp debug

**Displays LACP port debug information**

### Syntax

### Default

None

### Command mode

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## show lacp port

**Displays LACP port information**

### Syntax

### Default

None

### Command mode

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## show lacp system

**Displays LACP system settings**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## show license

### Syntax

### Default

None

### Command mode

### Privileged EXEC Mode

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## show lldp

**Displays 802.1ab settings**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

### Command parameters

Parameter	Description
local-sys-data med	<b>Display Media Endpoint Devices (MED) specific TLVs</b>
pdu-tlv-size	<b>Display 802.1ab tlv's in pdu port for specified ports</b>
rx-stats	<b>Display 802.1ab RX statistics</b>
stats	<b>Display 802.1ab statistics</b>

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## show logging

**Displays the contents of logging buffers**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

### Command parameters

Parameter	Description
unit <1-8>	<b>Unit number</b>

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## show mac-address-table

**Displays forwarding database tables**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

### Command parameters

Parameter	Description
vid <1-4094>	<b>Display mac-address-table for specified VLAN ID</b>

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## show mac-security config

**Displays the stack/switch MAC security configuration**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

### Command parameters

Parameter	Description
port	<b>Display ports' MAC security</b>

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## show memory-utilization

**Displays the memory utilization information**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

### Command parameters

Parameter	Description
unit <1-8>	<b>Display memory utilization information</b>

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## show mlt

**Displays Multi-Link Trunking (MLT) configuration**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**



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## show password security

**Displays the status of password security restrictions**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## show poe-main-status

**Displays the PoE main configuration**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

### Command parameters

Parameter	Description
unit <1-8>	<b>Display main configuraton of an unit in stack</b>

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## show poe-port-status

**Displays the PoE port configuration**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## show poe-power-measurement

**Displays the port power measurement**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## show port-mirroring

**Displays port mirroring configuration**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## show port-statistics

**Displays the port counter for a port**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## show qos

**Displays QoS configuration.**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## show qos acl-assign

**Display access-list assignments**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## show qos action

**Display the base action entries**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

### Command parameters

Parameter	Description
<1-65535>	<b>Display the specified base action entry</b>

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## show qos agent

**Display the global QoS parameters**

### Syntax

### Default

None

### Command mode

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## show qos capability

**Display QoS port capabilities**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

### Command parameters

Parameter	Description
meter	<b>Display QoS port meter capabilities</b>
shaper	<b>Display QoS port shaper capabilities</b>
shaper port <port-list>	<b>Display QoS port shaper capabilities for specified port</b>

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## show qos classifier

**Display the classifier entries**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

### Command parameters

Parameter	Description
<1-65535>	<b>Display the specified classifier entry</b>

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## show qos classifier-block

**Display the classifier block entries**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

### Command parameters

Parameter	Description
all	<b>Display all user-created, default, and system entries</b>

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## show qos diag

**Display the diagnostics entries**

**Syntax**

**Default**

None

**Command mode**

**Privileged EXEC Mode**

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## show qos egressmap

**Display the association between the DSCP and the 802.1p priority and drop precedence**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

### Command parameters

Parameter	Description
-----------	-------------

status	
--------	--

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## show qos if-action-extension

**Display the interface action extension entries**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**



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## show qos if-assign

**Display the list of interface assignments**

### Syntax

### Default

None

### Command mode

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## show qos if-group

**Display the interface groups**

### Syntax

### Default

None

### Command mode

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## show qos if-shaper

**Display the interface shaping parameters**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## show qos ingressmap

**Display the 802.1p priority to DSCP mapping**

### Syntax

### Default

None

### Command mode

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## show qos ip-acl

**Display IP access-lists**

**Syntax**

**Default**

None

**Command mode**

**Privileged EXEC Mode**

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## show qos ip-element

**Display the IP classifier element entries**

### Syntax

### Default

None

### Command mode

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## show qos l2-acl

**Display L2 access-lists**

**Syntax**

**Default**

None

**Command mode**

**Privileged EXEC Mode**

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## show qos l2-element

**Display the Layer2 classifier element entries**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## show qos meter

**Display the meter entries**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## show qos policy

**Display the policy entries**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## show qos port

**Display QoS port configuration**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## show qos queue-set

**Display the queue set configuration**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## show qos queue-set-assignment

**Display the association between the 802.1p priority to that of a specific queue**

### Syntax

### Default

None

### Command mode

### Privileged EXEC Mode

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## show qos statistics

**Display the statistics values**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## show qos system-element

**Display the system classifier element entries**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

### Command parameters

Parameter	Description
system	<b>Display only system entries</b>

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## show radius accounting

**Display the configuration of RADIUS Accounting Interim-Updates**

### Syntax

### Default

None

### Command mode

### Privileged EXEC Mode

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## show radius dynamic-server

**Display the configuration of RADIUS Dynamic Authorization Clients**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## show radius reachability

**Display RADIUS reachability settings**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## show radius-server

**Display current RADIUS server/port/key configuration.**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## show radius use-management-ip

**Display RADIUS use-management-ip setting**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## show rate-limit

**Display rate-limiting settings and statistics**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**



# Command: show rear-ports

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## show rear-ports

### Syntax

### Default

None

### Command mode

### Privileged EXEC Mode

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## show rmon alarm

**Display RMON Alarm entries**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## show rmon ethernet history

**Display RMON ethernet history data**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

### Command parameters

Parameter	Description
port <port-list>	<b>display history data for specific ports</b>

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## show rmon ethernet packets

**Display rmon ethernet packets according to their size**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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# Command: show rmon ethernet statistics

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## show rmon ethernet statistics

**Display rmon ethernet statistics**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## show rmon event

**Display RMON Event entries**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## show rmon history

**Display RMON History entries**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

### Command parameters

Parameter	Description
port <port-list>	<b>Display rmon history for specific ports</b>

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## show rmon stats

**Display RMON Stats entries**

**Syntax**

**Default**

None

**Command mode**

**Privileged EXEC Mode**

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## show running-config

Display current configuration of system as a series of CLI commands

### Syntax

### Default

None

### Command mode

Privileged EXEC Mode

### Command parameters

Parameter	Description
module	Display configuration of an application
module aur	Display AUR configuration
module core	Display Core configuration
module l3	Display L3 configuration
module qos	Display QoS configuration
module rtc	Display RTC configuration
verbose	Display entire configuration (defaults and non-defaults)
verbose module dhcp-relay	Display DHCP Relay
verbose module eap	Display EAP configuration
verbose module lacp	Display LACP configuration
verbose module logging	Display System Logging configuration
verbose module qos	Display QoS configuration

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## show snmp-server

**Display SNMP configuration**

**Syntax**

**Default**

None

**Command mode**

**Privileged EXEC Mode**

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## show sntp

**Display Simple Network Time Protocol (SNTP) configuration**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## show spanning-tree

**Display Spanning Tree information**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

### Command parameters

Parameter	Description
port	<b>Display spanning tree status of each port</b>

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## show ssh

**Display SSH Information**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

### Command parameters

Parameter	Description
download-auth-key	<b>Display auth key TFTP download info</b>
global	<b>Display general SSH settings</b>
session	<b>Display SSH session info</b>

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## show sshc

**Displays the sshc status**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## show stack

**Displays the stacking information**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

### Command parameters

Parameter	Description
auto-unit-replacement	<b>Display auto unit replacement configuration</b>
auto-unit-replacement-image	<b>Display auto unit image replacement configuration</b>
health	<b>Display the status of each stacking link</b>
port-statistics	<b>Display stack port counters</b>

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## show stack-info

**Display stack information**

**Syntax**

**Default**

None

**Command mode**

**Privileged EXEC Mode**

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## show stack-monitor

**Display stack-monitor configuration**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## show storm-control

**Display packet storm control settings**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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# Command: show sys-info

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## show sys-info

**Display system information**

**Syntax**

**Default**

None

**Command mode**

**Privileged EXEC Mode**

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## show system

**Display consolidated system information**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## show tacacs

**Display current TACACS+ server/port/key configuration.**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## show tech

**Show telnet active sessions**

**Syntax**

**Default**

None

**Command mode**

**Privileged EXEC Mode**

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## show telnet

**Display configuration of telnet access**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

### Command parameters

Parameter	Description
sessions	<b>Show telnet active sessions</b>

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## show telnet-access

**Display terminal configuration parameters**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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# Command: show terminal

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## show terminal

**Shows the TFTP Server IP address**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## show tftp-server

**Display trace information**

**Syntax**

**Default**

None

**Command mode**

**Privileged EXEC Mode**

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# Command: show vlacp

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## show vlacp

**Display VLACP configuration**

**Syntax**

**Default**

None

**Command mode**

**Privileged EXEC Mode**

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## show vlan

**Display VLAN configuration**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

### Command parameters

Parameter	Description
configcontrol	<b>Display VLAN control mode</b>
igmp <vlan-id>	<b>Display IGMP snoop settings</b>
igmp unknown-mcast-allow-flood	<b>Display list of multicast MAC addresses for which flooding is allowed</b>
igmp unknown-mcast-no-flood	<b>Display setting for flooding packets with unknown multicast addresses</b>
interface info <port-list>	<b>Display VLAN-related settings of ports for a specified port</b>
interface vids <port-list>	<b>Display VLAN membership of ports for a specified port</b>

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## show web-server

**Display web server status**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## shutdown (Global)

**Saves configuration and shutdown the switch/stack**

### Syntax

- shutdown [cancel | force | minutes-to-wait]

### Default

None

### Command mode

**Privileged EXEC Mode**

### Command parameters

Parameter	Description
cancel	<b>Cancel a previous scheduled shutdown</b>
force	<b>Do not ask for confirmation</b>
force minutes-to-wait <1-60>	<b>Number of minutes to wait before reset</b>
minutes-to-wait <1-60>	<b>Number of minutes to wait before reset</b>

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## shutdown (port)

**Shutdown the selected interface**

### Syntax

- shutdown [cancel | force | minutes-to-wait]

### Default

None

### Command mode

**Interface Configuration Mode**

### Command parameters

Parameter	Description
port <port-list>	<b>Shutdown the selected interface</b>

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## slamon agent

Sets the SLAMon agent configuration

### Syntax

- slamon agent [ip address <A.B.C.D> | port <0-65535> ]

### Default

None

### Command mode

Interface Configuration Mode

### Command parameters

Parameter	Description
comm port <0-65535>	
ip address<ip address>	<b>Set the SLAMon agent IP address</b>
port <0-65535>	<b>Set the SLAMon agent UDP port</b>

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## slamon cli

Enables the SLAMon agent CLI interface

### Syntax

- `slamon cli enable`

### Default

None

### Command mode

Interface Configuration Mode

### Command parameters

Parameter	Description
enable	Enable the SLAMon agent CLI interface

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## slamon cli-timeout-mode

**Sets the SLAMon agent CLI session timeout mode**

### Syntax

- `slamon cli-timeout-mode enable`

### Default

None

### Command mode

**Interface Configuration Mode**

### Command parameters

Parameter	Description
enable	<b>Enable the SLAMon agent CLI session timeout mode</b>

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## slamon oper-mode

**Enable the SLAMon agent**

### Syntax

- `slamon oper-mode enable`

### Default

None

### Command mode

**Interface Configuration Mode**

### Command parameters

Parameter	Description
<code>enable</code>	<b>Enable the SLAMon agent</b>



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## slamon server ip address

**Sets the SLAMon server IP address**

### Syntax

- `slamon server ip address <A.B.C.D>`

### Default

None

### Command mode

**Interface Configuration Mode**

### Command parameters

Parameter	Description
<code>&lt;ip address&gt;</code> <code>&lt;secondary ip address&gt;</code>	<b>Set the SLAMon server IP address</b>

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## snmp

**Modify SNMP settings**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
disable	<b>Disable SNMP access</b>
enable	<b>Enable SNMP access</b>

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## snmp authentication-trap

### Syntax

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
-----------	-------------

disable	
---------	--

enable	
--------	--

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## snmp bootstrap

**Generate SNMP bootstrap parameters**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
minimum-secure	<b>Use minimum security configuration</b>
very-secure	<b>Use maximum security configuration</b>

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## snmp community

**Enable SNMP; set community string and access privileges**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
<code>&lt;community-string&gt; notify-view &lt;view-name&gt;</code>	<b>Enter notify (trap) access view name</b>
<code>&lt;community-string&gt; ro</code>	<b>Read-only access with this community string</b>

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## snmp contact

**Text for mib object sysContact**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
<code>&lt;text-information&gt;</code>	<b>identification of the contact person for this managed node</b>

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## snmp host

**Specify hosts to receive SNMP notifications**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
<code>&lt;ipv4 or ipv6 address&gt; port &lt;trap-port&gt; v1 &lt;v1-community-string&gt;</code>	<b>Select a non-standard SNMP trap port</b>
<code>&lt;ipv4 or ipv6 address&gt; port &lt;trap-port&gt; v2c &lt;v2c-community-string&gt;</code>	<b>Create SNMPv1 trap receiver</b>
<code>&lt;ipv4 or ipv6 address&gt; port &lt;trap-port&gt; v2c &lt;v2c-community-string&gt; inform</code>	<b>Create SNMPv2c trap receiver</b>
<code>&lt;ipv4 or ipv6 address&gt; port &lt;trap-port&gt; v2c &lt;v2c-community-string&gt; inform retries &lt;0-255&gt;</code>	<b>Specify the SNMPv2c community string and Generate acknowledge Inform requests</b>
<code>&lt;ipv4 or ipv6 address&gt; port &lt;trap-port&gt; v2c &lt;v2c-community-string&gt; inform timeout &lt;1-2147483647&gt;</code>	<b>Timeout for inform requests (centi-seconds)</b>
<code>&lt;ipv4 or ipv6 address&gt; port &lt;trap-port&gt; v3 auth &lt;v3-user-name&gt;</code>	<b>Create SNMPv3 trap receiver</b>
<code>&lt;ipv4 or ipv6 address&gt; port &lt;trap-port&gt; v3 auth &lt;v3-user-name&gt; inform</code>	<b>Generate unauthenticated traps</b>
<code>&lt;ipv4 or ipv6 address&gt; port &lt;trap-port&gt; v3 auth &lt;v3-user-name&gt; inform retries &lt;0-255&gt;</code>	<b>Retries for inform requests</b>
<code>&lt;ipv4 or ipv6 address&gt; port &lt;trap-port&gt; v3 auth &lt;v3-user-name&gt; inform timeout &lt;1-2147483647&gt;</code>	<b>Timeout for inform requests (centi-seconds)</b>
<code>&lt;ipv4 or ipv6 address&gt; port &lt;trap-port&gt; v3 no-auth &lt;v3-user-name&gt;</code>	<b>SNMPv3 User name</b>

```

<ipv4 or ipv6 address> port <trap-port> v3
no-auth <v3-user-name> inform
<ipv4 or ipv6 address> port <trap-port> v3
no-auth <v3-user-name> inform retries <0-
255>
<ipv4 or ipv6 address> port <trap-port> v3
no-auth <v3-user-name> inform timeout <1-
2147483647>
<ipv4 or ipv6 address> v1 <v1-community-
string>
<ipv4 or ipv6 address> v2c <v2c-community-
string>
<ipv4 or ipv6 address> v2c <v2c-community-
string> inform
<ipv4 or ipv6 address> v2c <v2c-community-
string> inform retries <0-255>
<ipv4 or ipv6 address> v3 auth <v3-user-
name>
<ipv4 or ipv6 address> v3 auth <v3-user-
name> inform
<ipv4 or ipv6 address> v3 auth <v3-user-
name> inform timeout <1-2147483647>
<ipv4 or ipv6 address> v3 no-auth <v3-
user-name>
<ipv4 or ipv6 address> v3 no-auth <v3-
user-name> inform
<ipv4 or ipv6 address> v3 no-auth <v3-
user-name> inform retries <0-255>
<ipv4 or ipv6 address> v3 no-auth <v3-
user-name> inform timeout <1-2147483647>

```

**Generate unauthenticated traps**

**Retries for inform requests**

**Timeout for inform requests (centi-seconds)**

**SNMPv1 community string**

**SNMPv2c community string**

**Create SNMPv2c trap receiver**

**Retries for inform requests**

**SNMPv3 User name**

**Generate unauthenticated traps**

**Timeout for inform requests (centi-seconds)**

**Generate authenticated and encrypted traps**

**Create SNMPv2c trap receiver**

**Retries for inform requests**

**Timeout for inform requests (centi-seconds)**



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## snmp location

**Text for mib object sysLocation**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
<text-information>	<b>Text for mib object sysLocation</b>

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## snmp name

**Text for mib object sysName**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
<text-information>	<b>Text for mib object sysName</b>  <b>Avaya Ethernet Routing Switch 3500 Series Release 5.1</b> <b>NN47203-103 Avaya Command Line Interface Commands Reference</b> <b>Version 01.01 February 2013</b> <b>©Avaya Inc. 2013 All Rights Reserved.</b> <a href="http://Avaya.com/support">Avaya.com/support</a>

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## snmp trap

**Allow/disallow a specific SNMP trap**

### Syntax

### Default

None

### Command mode

**Interface Configuration Mode**

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## snmp view

**Create/modify an SNMP access view**

### Syntax

### Default

None

### Command mode

**Global configuration mode**



# Command: sntp enable

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## sntp enable

**Enable SNTP**

**Syntax**

**Default**

None

**Command mode**

**Global configuration mode**

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## sntp server

**Configure SNTP server addresses**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
primary address	<b>Configure primary SNTP server</b>
secondary address <ip-addr>	<b>Configure secondary SNTP server</b>

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## sntp sync-interval

**Set SNTP re-synchronization interval**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
<0-168>	<b>Set SNTP re-synchronization interval</b>

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## sntp sync-now

**Force immediate SNTP synchronization**

### Syntax

### Default

None

### Command mode

**Global configuration mode**



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## spanning-tree 802dot1d-port-compliance

**Sets the 802dot1d port compliance mode**

### Syntax

- 

### Default

None

### Command mode

**Global configuration mode**

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## spanning-tree bpdu-filtering

**Configure spanning-tree bpdu-filtering**

### Syntax

- 

### Default

None

### Command mode

**Interface Configuration Mode**

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## spanning-tree cost

**Set spanning-tree cost for a port**

### Syntax

- 

### Default

None

### Command mode

**Interface Configuration Mode**

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## spanning-tree cost-calc-mode

**Sets pathcost type IEEE 802.1d or IEEE 802.1t**

### Syntax

- 

### Default

None

### Command mode

**Global configuration mode**

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## spanning-tree forward-time

**Sets the spanning tree forwarding time**

### Syntax

- 

### Default

None

### Command mode

**Global configuration mode**

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## spanning-tree hello-time

**Sets the spanning tree hello time**

### Syntax

- 

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
<1-10>	<b>Set spanning tree hello time</b>

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## spanning-tree learning

**Sets the learning type for port(s)**

### Syntax

- 

### Default

None

### Command mode

**Interface Configuration Mode**

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## spanning-tree max-age

**Sets the spanning tree maximum age**

### Syntax

- 

### Default

None

### Command mode

**Global configuration mode**



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## spanning-tree mode

**Sets the spanning tree operation mode**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

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## spanning-tree port

**Specifies the port number to enable or disable spanning-tree**

### Syntax

- 

### Default

None

### Command mode

#### Interface Configuration Mode

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## spanning-tree port-mode

**Sets the spanning-tree port membership mode**

### Syntax

- 

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
auto	<b>spanning-tree auto port membership mode</b>

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## spanning-tree priority (Global)

**Sets the spanning tree priority (in Hex); if 802.1T compliance, should be multiple of 0x1000**

### Syntax

- 

### Default

None

### Command mode

**Global configuration mode**

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## spanning-tree priority (port)

**Sets the spanning tree priority for a port (in Hex); if 802.1T compliance, should be multiple of 0x10**

### Syntax

- 

### Default

None

### Command mode

#### Interface Configuration Mode

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## speed

**Configure speed of a port**

### Syntax

- 

### Default

None

### Command mode

**Interface Configuration Mode**

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## speed port

Select port for operation

### Syntax

.

### Default

None

### Command mode

Interface Configuration Mode

### Command parameters

Parameter	Description
<port-list> 10	<b>Configure speed of the specified port to 10 Mbps</b>
<port-list> 100	<b>Configure speed of the specified port to 100 Mbps</b>
<port-list> 1000	<b>Configure speed of the specified port to 1000 Mbps (1 Gig)</b>
<port-list> auto	<b>Autonegotiates the speed for the specified port</b>

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## sshc

**Configures the SSHC settings**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

### Command parameters

Parameter	Description
-----------	-------------

pass-auth	
-----------	--



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## stack auto-unit-replacement

**Sets auto unit replacement settings**

### Syntax

- stack auto-unit-replacement [config | enable]

### Default

None

### Command mode

**Global configuration mode**

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## stack auto-unit-replacement-image

**Sets the auto unit image replacement settings**

### Syntax

- stack auto-unit-replacement-image enable

### Default

None

### Command mode

**Global configuration mode**

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## stack forced-mode

**Enables the forced stack mode**

### Syntax

- `stack forced-mode`

### Default

None

### Command mode

**Global configuration mode**

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## stack-monitor

**Configures stack monitoring**

### Syntax

- `stack-monitor[enable | stack-size | trap-interval]`

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
enable	<b>Enables stack monitoring</b>

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## storm-control all

**Configure Storm Control settings for all types of traffic**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
action none	<b>Globally sets the Storm Control action to none</b>
poll-interval <5-300>	<b>Sets the interval for watermark checking (seconds)</b>

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## storm-control broadcast

**Configure broadcast Storm Control settings**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
action drop	<b>Sets the Storm Control action to drop for the broadcast interface</b>
action none	<b>Sets the Storm Control action to none for the broadcast interface</b>
action shutdown	<b>Sets the Storm Control action to shutdown for the broadcast interface</b>
enable	<b>Enables storm control on the broadcast interface</b>
high-watermark <10-100000000>	<b>Set high-watermark in pps for the broadcast interface</b>
low-watermark <10-100000000>	<b>Set low-watermark in pps for the broadcast interface</b>
poll-interval <5-300>	<b>Sets the interval for watermark checking (seconds) for the broadcast interface</b>
trap-interval <0-1000>	<b>Sets the trap sending interval for the broadcast interface in poll-intervals when above high-watermark (0= do not send)</b>

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## storm-control multicast

**Configure multicast Storm Control settings**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
action drop	<b>Sets the Storm Control action to drop for the multicast interface</b>
action none	<b>Sets the Storm Control action to none for the multicast interface</b>
action shutdown	<b>Sets the Storm Control action to shutdown for the multicast interface</b>
enable	<b>Enables storm control on the multicast interface</b>
high-watermark <10-1000000000>	<b>Set high-watermark in pps for the multicast interface</b>
low-watermark <10-1000000000>	<b>Set low-watermark in pps for the multicast interface</b>
poll-interval <5-300>	<b>Sets the interval for watermark checking (seconds) for the multicast interface</b>
trap-interval <0-1000>	<b>Sets the trap sending interval for the multicast interface in poll-intervals when above high-watermark (0= do not send)</b>

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## storm-control unicast

**Configure unicast storm control settings**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
action drop	<b>Sets the Storm Control action to drop for the unicast interface</b>
action none	<b>Sets the Storm Control action to none for the unicast interface</b>
action shutdown	<b>Sets the Storm Control action to shutdown for the unicast interface</b>
enable	<b>Enables storm control on the unicast interface</b>
high-watermark <10-100000000>	<b>Set high-watermark in pps for the unicast interface</b>
low-watermark <10-100000000>	<b>Set low-watermark in pps for the unicast interface</b>
poll-interval <5-300>	<b>Sets the interval for watermark checking (seconds) for the unicast interface</b>
trap-interval <0-1000>	<b>Sets the trap sending interval for the unicast interface in poll-intervals when above high-watermark (0= do not send)</b>



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## tacacs accounting

**TACACS+ accounting tracks the user actions**

### Syntax

- tacacs accounting [enable | disable]

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
disable	<b>Disable TACACS+ accounting</b>
enable	<b>Enable TACACS+ accounting</b>

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## tacacs authorization

**TACACS+ authorization determines the user privileges**

### Syntax

- tacacs authorization [enable | disable |level]

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
enable	<b>Enable TACACS+ authorization</b>
level none	<b>Disable TACACS+ authorization on all privilege levels</b>

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## tacacs server

**TACACS+ server's primary/secondary host, shared secret key and TCP port**

### Syntax

- `tacacs server [host | key | port <port-list> | secondary-host]`

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
<code>port &lt;tcp-port&gt;</code>	<b>Specifies the TACACS+ TCP port</b>

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## tacacs server secondary-host

### TACACS+ secondary host

#### Syntax

- `tacacs server secondary-host <A.B.C.D>`

#### Default

None

#### Command mode

#### Global configuration mode

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## tacacs switch

**Switch between TACACS+ privilege levels**

### Syntax

- tacacs switch [back | level ]

### Default

None

### Command mode

**Global configuration mode**

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## telnet

**Telnet to another host**

### Syntax

### Default

None

### Command mode

**Privileged EXEC Mode**

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## telnet-access

**Configure TELNET access settings**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
enable	<b>Enable TELNET access</b>
logging	<b>Level of logging for TELNET and CONSOLE attempts</b>

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# Command: terminal

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## terminal

**Set terminal line parameters**

### Syntax

- terminal <length | speed | width>

### Default

None

### Command mode

**Privileged EXEC Mode**

### Command parameters

Parameter	Description
length <0-132>	<b>Sets the number of lines on a screen</b>
speed <2400, 4800, 9600, 19200 or 38400>	<b>Sets the transmit and receive speeds</b>
width <1-132>	<b>Sets the width of the display terminal</b>

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## tftp-server

**Configure the tftp server**

### Syntax

- `tftp-server <A.B.C.D | WORD>`

### Default

None

### Command mode

**Global configuration mode**

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## traceroute

**Traces the route to a remote host**

### Syntax

- `traceroute <Hostname | WORD>`

### Default

None

### Command mode

### Privileged EXEC Mode

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# Command: username

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## username

**Sets the RO/RW credentials**

### Syntax

- username <WORD>

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
<username> <password> ro	<b>Read-only password (default)</b>

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## vlacp (Global)

**Modify VLACP configuration**

### Syntax

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
enable	<b>Enables VLACP for the system</b>
macaddress <multicast-mac-addr>	<b>Sets the multicast address used for VLACPDU</b>

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## vlacp (port)

Change VLACP configuration for specific port

### Syntax

### Default

None

### Command mode

Interface Configuration Mode

### Command parameters

Parameter	Description
enable	<b>Enable VLACP for the port(s)</b>
ethertype <0x8101-0x81ff> or <33025-33279>	<b>Set the ethertype value of VLACP</b>
fast-periodic-time <400-20000>	<b>Set the fast-periodic time interval</b>
funcmac-addr <mac-addr>	<b>Set the mac-addr to exchange VLACPDU from end-to-end perspective</b>
port <port-list>	<b>Port number on which to enable or disable VLACP</b>
slow-periodic-time <10000-30000>	<b>Sets the slow periodic time interval</b>

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## vlan configcontrol

**Configure the VLAN control mode**

### Syntax

- `vlan configcontrol`

### Default

None

### Command mode

**Global configuration mode**

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## vlan create

**Create new VLAN**

### Syntax

- `vlan create <port number>`

### Default

None

### Command mode

**Global configuration mode**

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## vlan delete

**Delete a VLAN**

### Syntax

- `vlan delete <port number>`

### Default

None

### Command mode

**Global configuration mode**

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## vlan igmp

**Modify IGMP snoop settings**

### Syntax

- `vlan igmp <1-4094>`

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
<code>&lt;vlan-id&gt; proxy disable</code>	<b>Disable VLAN Proxy</b>
<code>&lt;vlan-id&gt; proxy enable</code>	<b>Enable VLAN Proxy</b>
<code>&lt;vlan-id&gt; query-interval &lt;1-65535&gt;</code>	<b>Set the IGMP query interval robust-value</b>
<code>&lt;vlan-id&gt; robust-value &lt;0- 255&gt;</code>	<b>Set the IGMP robust value</b>
<code>&lt;vlan-id&gt; snooping disable</code>	<b>Disable IGMP Snooping</b>
<code>&lt;vlan-id&gt; snooping enable</code>	<b>Enable IGMP Snooping</b>
<code>&lt;vlan-id&gt; v1-members add &lt;port-list&gt;</code>	<b>Specify IGMPv1 static port membership.</b>
<code>&lt;vlan-id&gt; v1-members &lt;port- list&gt;</code>	<b>Specifies the port list</b>
<code>&lt;vlan-id&gt; v1-members remove</code>	<b>Remove port members</b>
<code>&lt;vlan-id&gt; v2-members add &lt;port-list&gt;</code>	<b>Specify IGMPv2 static port membership.</b>
<code>&lt;vlan-id&gt; v2-members &lt;port- list&gt;</code>	<b>Specifies the port list</b>
<code>&lt;vlan-id&gt; v2-members remove</code>	<b>Remove port members</b>
<code>unknown-mcast-allow-flood &lt;multicast-ip-addr&gt;</code>	<b>Add multicast ip address to the list of multicast addresses for which flooding is allowed</b>
<code>unknown-mcast-allow-flood</code>	<b>Add multicast mac address to the list of multicast</b>

<multicast-mac-addr>  
unknown-mcast-no-flood  
disable  
unknown-mcast-no-flood  
enable

**addresses for which flooding is allowed**

**Permit flooding of packets with an unknown multicast address**

**Stop flooding of packets with an unknown multicast address**

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**NN47203-103 Avaya Command Line Interface Commands Reference**  
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## vlan igmp unknown-mcast-allow-flood

**Add address to the list of multicast addresses for which flooding is allowed**

### Syntax

- `vlan igmp unknown-mcast-allow-flood <1-4094>`

### Default

None

### Command mode

**Global configuration mode**

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## vlan igmp unknown-mcast-no-flood

**Enable/disable flooding of packets with an unknown multicast address**

### Syntax

- `vlan igmp unknown-mcast-no-flood <1-4094>`

### Default

None

### Command mode

**Global configuration mode**

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## vlan members

**Modify VLAN port membership**

### Syntax

- `vlan members <add | port number | remove>`

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
<code>remove &lt;vlan-list&gt; &lt;port-list&gt;</code>	<b>Remove ports from a VLAN</b>

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## vlan mgmt

**Set management VLAN**

### Syntax

- `vlan mgmt <1-4094>`

### Default

None

### Command mode

**Global configuration mode**

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## vlan name

**Change the name of a VLAN**

### Syntax

- `vlan name <1-4094>`

### Default

None

### Command mode

**Global configuration mode**

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## vlan ports

**Modify VLAN port settings**

### Syntax

- `vlan ports <port number>`

### Default

None

### Command mode

**Global configuration mode**



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## web-server

**Modify WEB server parameters**

### Syntax

- web-server

### Default

None

### Command mode

**Global configuration mode**

### Command parameters

Parameter	Description
disable	<b>Disable HTTP access</b>

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## write memory

**Write configuration to local NV storage**

### Syntax

- write memory

### Default

None

### Command mode

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- [adac voice-vlan](#)

**Avaya Ethernet Routing Switch 3500 Series Release 5.1**  
**NN47203-103 Avaya Command Line Interface Commands Reference**  
**Version 01.01 February 2013**  
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