

Gigabit Ethernet Switch - Command Line Guide

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ABOUT THIS MANUAL

- Purpose** This manual gives specific information on how to configure and manage this switch via terminal console and telnet utilities.
- Audience** This manual is intended for use by network administrators who are responsible for operating and maintaining network equipment. Consequently, it assumes basic network knowledge of general switch functions, the Internet Protocol (IP), IEEE 802.3at/af Power over Ethernet Standard and Simple Network Management Protocol (SNMP).

Command Line Mode

The CLI groups all the commands in appropriate modes according to the nature of the command. A sample of the CLI command modes are described below. Each of the command modes supports specific software commands.

Mode-based Command Hierarchy

The Command Line Interface (CLI) groups all the commands in appropriate modes by the nature of the commands. Examples of the CLI command modes are described below. Each of the command modes supports specific switch's commands.

The CLI Command Modes table captures the command modes, the prompts visible in that mode and the exit method from that mode.

| Command Mode | Access Method | Exit or Access Previous Mode |
|--------------------|---|---|
| User Mode | This is the first level of access. Perform basic tasks and list system information. | Enter exit command |
| Privileged Mode | From the User Mode, enter the enable command. | To exit to the User Mode, enter exit . |
| Global Config Mode | From the Privileged Mode, enter the configuration command. | To exit to the Privileged Mode, enter the exit command. |

The CLI is divided into various modes. The commands in one mode are not available until the operator switches to that particular mode. The commands available to the operator at any point in time depend upon the mode. Entering a question mark (?) at the CLI prompt, and displays a list of the available commands and descriptions of the commands.

The CLI provides the following modes:

User Mode

When the operator logs into the CLI, the User Mode is the initial mode. The User Mode contains a limited set of commands. The command prompt shown at this level is defined by the name assigned to the switch. For the purposes of this Manual the command line prompt will be defined as:

Command Prompt: SWITCH_NAME>

Privileged Mode

To have access to the full suite of commands, the operator must enter the Privileged Mode. The Privileged Mode requires password authentication. From Privileged Mode, the operator can issue any Exec command to enter the Global Configuration mode. The command prompt shown at this level is defined by the name assigned to the switch. For the purposes of this Manual the command line prompt will be defined as:

Command Prompt: SWITCH_NAME #

Global Config Mode

This mode permits the operator to make modifications to the running configuration. General setup commands are grouped in this mode. From the Global Configuration mode, the operator can enter the Interface Configuration mode. The command prompt shown at this level is defined by the name assigned to the switch. For the purposes of this Manual the command line prompt will be defined as:

Command Prompt: SWITCH_NAME (Config)#

From the Global Config mode, the operator may enter the following configuration modes:

User Mode Commands

Enable Command

Description:

Turn on privileged mode command

Syntax:

enable

Example:

SWITCH_NAME> enable

Password:

SWITCH_NAME#

Exit Command

Description:

Exit current mode and down to previous mode

Syntax:

exit

Example:

```
SWITCH_NAME# exit  
SWITCH_NAME>
```

Ping command

Description:

Send ICMP ECHO_REQUEST to network hosts

Syntax:

ping HOSTNAME (Host name)

Example:

```
SWITCH_NAME> ping 192.168.0.100  
PING 192.168.0.100 (192.168.0.100): 56 data bytes  
64 bytes from 192.168.0.100: icmp_seq=0 ttl=64 time=0.0 ms  
64 bytes from 192.168.0.100: icmp_seq=1 ttl=64 time=0.0 ms  
64 bytes from 192.168.0.100: icmp_seq=2 ttl=64 time=0.0 ms  
64 bytes from 192.168.0.100: icmp_seq=3 ttl=64 time=0.0 ms  
--- 192.168.0.100 ping statistics ---  
4 packets transmitted, 4 packets received, 0% packet loss  
round-trip min/avg/max = 0.0/0.0/0.0 ms  
SWITCH_NAME>
```

Show Command**show arp****Description:**

Show the IP ARP translation table

Syntax:

show arp

Example:

SWITCH_NAME> show arp

| Address | HWtype | HWaddress | Flags Mask | Iface |
|---------------|--------|-------------------|------------|-------|
| 192.168.0.100 | ether | C8:9C:DC:EC:D6:DD | C | eth0 |

SWITCH_NAME>

show history

Description:

List the last several history commands

Syntax:

show history

Example:

SWITCH_NAME> show history

show info**Description:**

Show basic information

Syntax:

show info

Example:

SWITCH_NAME> show info

show ip**Description:**

Show the IP Address, Subnet Mask, Default Gateway

Syntax:

show ip

Example:

SWITCH_NAME> show ip

IP Address: 192.168.0.100

Subnet Netmask: 255.255.255.0

Default Gateway: 192.168.0.254

SWITCH_NAME>

show privilege

Description:

Show the local user privilege level

Syntax:

show privilege

Example:

SWITCH_NAME> show privilege

Current CLI Username: admin

Current CLI Privilege: 15

SWITCH_NAME>

show version

Description:

Show the system hardware and software status

Syntax:

show version

Example:

SWITCH_NAME> show version

Loader Version : 2011.12.41872

Loader Date : May 22 2014 - 19:28:43

Firmware Version : v1.0b140611

Firmware Date : Wed Jun 11 10:13:28 CST 2014

Magic Number : 83800000

SWITCH_NAME>

Traceroute command

Description:

Trace route to network hosts

Syntax:

traceroute HOSTNAME (The IP address or hostname address to trace)

Example:

```
SWITCH_NAME> traceroute 192.168.0.100
```

Privileged Mode Commands

Clear command

```
clear arp
```

Description:

Clear entries in the ARP cache

Syntax:

```
clear arp A.B.C.D (IP address to clear)  
clear arp (the entire ARP cache is cleared)
```

Example:

```
SWITCH_NAME# clear arp 192.168.0.100  
SWITCH_NAME#  
SWITCH_NAME# clear arp  
SWITCH_NAME#
```

clear gvrp**Description:**

Clear the GVRP configuration

Syntax:

```
clear GVRP error-statistics (GVRP Error Statistics information)  
clear GVRP statistics (GVRP Statistics information)
```

Example:

```
SWITCH_NAME# clear gvrp error-statistics  
SWITCH_NAME# clear gvrp statistics  
SWITCH_NAME#
```

clear interfaces**Description:**

Clear the Interface status and configuration

Syntax:

```
clear interface LAG <1-8> counters  
clear interfaces GigabitEthernet <1-26> counters
```


Example:

```
SWITCH_NAME# clear interfaces lag 1 counters  
SWITCH_NAME# clear interfaces GigabitEthernet 1 counters  
SWITCH_NAME#
```

clear ip arp

Description:

Clear the IP configuration

Syntax:

```
clear ip arp inspection interfaces LAG <1-8> statistics  
clear ip arp inspection interfaces GigabitEthernet <1-26> statistics
```

Example:

```
SWITCH_NAME# clear ip arp inspection interfaces lag 1 statistics  
SWITCH_NAME# clear ip arp inspection interfaces GigabitEthernet 1 statistics  
SWITCH_NAME#
```

clear ip dhcp

Description:

Clear the DHCP configuration

Syntax:

```
clear ip dhcp snooping database statistics  
clear ip dhcp snooping interfaces LAG <1-8> statistics  
clear ip dhcp snooping interfaces GigabitEthernet <1-26> statistics
```

Example:

```
SWITCH_NAME# clear ip dhcp snooping database statistics  
SWITCH_NAME# clear ip dhcp snooping interfaces lag 1 statistics  
SWITCH_NAME# clear ip dhcp snooping interface GigabitEthernet 1 statistics  
SWITCH_NAME#
```

clear ip igmp

Description:

Clear the IGMP configuration

Syntax:

```
clear ip igmp snooping groups dynamic/static  
clear ip igmp snooping statistics  
clear ip dhcp snooping vlan x static-mac xx:xx:xx:xx:xx:xx
```

Example:

```
SWITCH_NAME# clear ip igmp snooping groups dynamic
SWITCH_NAME# clear ip igmp snooping groups static
SWITCH_NAME# clear ip igmp snooping statistics
SWITCH_NAME# clear ip igmp snooping vlan 1 static-mac 00:30-4F:00:00:01
SWITCH_NAME#
```

clear ipv6**Description:**

Clear the ipv6 information

Syntax:

```
clear ipv6 mld snooping groups dynamic/static
clear ipv6 mld snooping statistics
clear ipv6 mld snooping vlan x static-mac xx:xx:xx:xx:xx:xx
```

Example:

```
SWITCH_NAME# clear ipv6 mld snooping groups dynamic
SWITCH_NAME# clear ipv6 mld snooping groups static
SWITCH_NAME# clear ipv6 mld snooping statistics
SWITCH_NAME# clear ipv6 mld snooping vlan 1 static-mac 00:30:4F:00:00:01
SWITCH_NAME#
```

clear line**Description:**

Clear identify a specific line for configuration

Syntax:

```
clear line ssh/telnet
```

Example:

```
SWITCH_NAME# clear line ssh
SWITCH_NAME# clear line telnet
SWITCH_NAME#
```

clear lldp

Description:

Clear lldp configuration

Syntax:

clear line lldp statistics

Example:

```
SWITCH_NAME# clear lldp statistics  
SWITCH_NAME#
```

clear logging**Description:**

Clear log configuration

Syntax:

clear logging buffered/flash

Example:

```
SWITCH_NAME# clear logging buffered  
SWITCH_NAME# clear logging flash  
SWITCH_NAME#
```

clear mac**Description:**

Clear MAC configuration

Syntax:

```
clear mac address-table dynamic interface lag x  
clear mac address-table dynamic interface GigabitEthernet x  
clear mac address-table dynamic vlan x
```

Example:

```
SWITCH_NAME# clear mac address-table dynamic interfaces lag 1  
SWITCH_NAME# clear mac address-table dynamic interfaces GigabitEthernet 1  
SWITCH_NAME# clear mac address-table dynamic vlan 1  
SWITCH_NAME#
```

clear rmon**Description:**

Clear RMON information

Syntax:

clear rmon interfaces lag x statistics

clear rmon interfaces GigabitEthernet x statistics

Example:

SWITCH_NAME# clear rmon interfaces lag 1 statistics

SWITCH_NAME# clear rmon interfaces GigabitEthernet 1 statistics

SWITCH_NAME#

Clock command**Description:**

Manage the system clock

Syntax:

clock set HH:MM:SS:Month: Date: Year

Example:

SWITCH_NAME# clock set 13:36:00 jul 3 2014

13:36:00 DFL(UTC+8) Jul 03 2022

SWITCH_NAME#

Configure command**Description:**

Enter Global Config mode

Syntax:

configure

Example:

SWITCH_NAME# configure

SWITCH_NAME(config)#

copy command**Description:**

Copy from one file to another

Syntax:

copy backup-config/flash:///running-config/startup-config/tftp:// running-config/startup-config/tftp://

Example:

SWITCH_NAME# copy running-config startup-config

Success

SWITCH_NAME#

Debug command

Description:

Debug Options

Syntax:

debug acl all/common/reserve/user-defined

Example:

SWITCH_NAME# debug acl all

SWITCH_NAME# debug acl common

SWITCH_NAME# debug acl reserve

SWITCH_NAME# debug acl user-defined

SWITCH_NAME#

delete command

Description:

Delete a file from the flash file system

Syntax:

delete backup-config/flash:///startup-config/system image x

Example:

SWITCH_NAME# delete backup-config

SWITCH_NAME# delete flash://

SWITCH_NAME# delete startup-config

SWITCH_NAME# delete system image 0

SWITCH_NAME#

disable command

Description:

Turn off privileged mode command

Syntax:

disable

Example:

```
SWITCH_NAME# disable  
SWITCH_NAME>
```

End command**Description:**

End current mode and change to enable mode

Syntax:

```
end
```

Example:

```
SWITCH_NAME(config)# end  
SWITCH_NAME#
```

exit command**Description:**

Exit current mode and down to previous mode

Syntax:

```
exit
```

Example:

```
SWITCH_NAME# exit  
SWITCH_NAME>  
6.2.10 no command
```

Description:

Negate command

Syntax:

```
no debug acl all/common/reserve/user-defined
```

Example:

```
SWITCH_NAME# no debug acl all  
SWITCH_NAME# no debug acl common  
SWITCH_NAME# no debug acl reserve  
SWITCH_NAME# no debug acl user-defined  
SWITCH_NAME#
```

ping command

Description:

Send ICMP ECHO_REQUEST to network hosts

Syntax:

ping HOSTNAME (Host name)

Example:

```
SWITCH_NAME> ping 192.168.0.100
PING 192.168.0.100 (192.168.0.100): 56 data bytes
64 bytes from 192.168.0.100: icmp_seq=0 ttl=64 time=0.0 ms
64 bytes from 192.168.0.100: icmp_seq=1 ttl=64 time=0.0 ms
64 bytes from 192.168.0.100: icmp_seq=2 ttl=64 time=0.0 ms
64 bytes from 192.168.0.100: icmp_seq=3 ttl=64 time=0.0 ms
--- 192.168.0.100 ping statistics ---
4 packets transmitted, 4 packets received, 0% packet loss
round-trip min/avg/max = 0.0/0.0/0.0 ms
SWITCH_NAME>
```

reboot command**Description:**

Halt and perform a cold restart

Syntax:

reboot

Example:

```
SWITCH_NAME# reboot
*Jul 03 14:22:09: %System-4: System reboot
```

renew command**Description:**

Renew IP configuration

Syntax:

renew ip dhcp snooping database

Example:

```
SWITCH_NAME# renew ip dhcp snooping database
SWITCH_NAME#
```

restore-defaults command

Description:

Restore to default

Syntax:

restore-defaults

Example:

```
SWITCH_NAME# restore-defaults
```

```
Restore Default Success. Do you want to reboot now? (y/n)y
```

```
Rebooting now...
```

```
*Jan 01 08:16:00: %System-4: System reboot
```

save command**Description:**

Save running configuration to flash

Syntax:

save

Example:

```
SWITCH_NAME# save
```

```
Success
```

```
SWITCH_NAME#
```

show command**Description:**

Show running system information

Syntax:

show specific item

Example:

```
SWITCH_NAME# show version
```

```
Loader Version : 2011.12.41872
```

```
Loader Date : May 22 2014 - 19:28:43
```

```
Firmware Version : v1.0b140611
```

```
Firmware Date : Wed Jun 11 10:13:28 CST 2014
```

```
Magic Number : 83800000
```

```
SWITCH_NAME#
```

ssl command

Description:

Setup SSL host keys

Syntax:

ssl

Example:

SWITCH_NAME# ssl

Generating a 1024 bit RSA private key

.....++++++

writing new private key to '/mnt/ssh/ssl_key.pem'

You are about to be asked to enter information that will be incorporated into your certificate request.

What you are about to enter is what is called a Distinguished Name or a DN.

There are quite a few fields but you can leave some blank

For some fields there will be a default value,

If you enter ", the field will be left blank.

Country Name (2 letter code) [AU]:2

string is too short, it needs to be at least 2 bytes long

Country Name (2 letter code) [AU]:TW

State or Province Name (full name) [Some-State]:TW

Locality Name (eg, city) []:Taipei

Organization Name (eg, company) [Internet Widgits Pty Ltd]:PLANET

Organizational Unit Name (eg, section) []:SWITCH_NAME

Common Name (e.g. server FQDN or YOUR name) []:Marc

Email Address []:marcl@planet.com.tw

SWITCH_NAME#

traceroute command**Description:**

Trace route to network hosts

Syntax:

traceroute HOSTNAME (The IP address or hostname address to trace)

Example:

SWITCH_NAME> traceroute 192.168.0.100

udld command**Description:**

Configure global UDLD setting

Syntax:

udld reset

Example:

SWITCH_NAME# udld reset

SWITCH_NAME# *Jan 01 08:16:26: %UDLD-5: No ports are disabled by UDLD

Global Config Mode Commands

aaa Command

Description:

AAA (Authentication, Authorization, Accounting)

Syntax:

aaa accounting commands/exec/system/update

aaa authentication enable/login

boot Command

Description:

Booting Operations

Syntax:

boot host auto-config

boot system image0/1

bridge Command

Description:

Global bridge table configuration

Syntax:

bridge multicast reserved-address xx:xx:xx:xx:xx:xx bridge/discard/peer

class-map Command

Description:

Create class map and enter class map configuration mode. Use no form in order to delete the class

Syntax:

class-map WORD<0-32> (specified the name of the class map).

clock Command

Description:

Manage the system clock

Syntax:

clock source local/sntp
clock summer-time
clock timezone

dos Command**Description:**

DoS information

Syntax:

dos
daeqsa-deny Destination MAC equals to source MAC
icmp-frag-pkts-deny Fragmented ICMP packets
icmp-ping-max-length DoS information
icmpv4-ping-max-check Check ICMPv4 ping maximum packets size
icmpv6-ping-max-check Check ICMPv6 ping maximum packets size
ipv6-min-frag-size-check Check minimum size of IPv6 fragments
ipv6-min-frag-size-length DoS information
land-deny Source IP equals to destination IP
nullscan-deny NULL Scan Attacks
pod-deny Ping of Death Attacks
smurf-deny Smurf Attacks
smurf-netmask DoS information
syn-sport1024-deny SYN packets with sport less than 1024
synfin-deny SYN and FIN bits set in the packet
synrst-deny SYNC and RST bits set in the packet
tcp-frag-off-min-check TCP fragment packet with offset equals to one
tcpblat-deny Source TCP port equals to destination TCP port
tcphdr-min-check Check minimum TCP header
tcphdr-min-length DoS information
udpblat-deny Source UDP port equals to destination UDP port
xma-deny Xmascan: sequence number is zero and the FIN, URG and PSH bits are set

6.3.7 dot1x Command**Description:**

802.1x configuration

Syntax:

dot1x guest-vlan<1-4094> VLAN ID (e.g. 100)

do Command

Description:

To run exec commands in current mode

Syntax:

do SEQUENCE (Exec Command)

enable Command

Description:

Local Enable Password

Syntax:

enable password/privilege/secret

end Command

Description:

End current mode and change to enable mode

Syntax:

end

errdisable Command

Description:

Error Disable

Syntax:

errdisable recovery cause/interval

exit Command

Description:

Exit current mode and down to previous mode

Syntax:

Exit

gvrp Command

Description:

GVRP configuration

Syntax:

gvrp time join/leave/leaveall

hostname Command

Description:

Set system's network name

Syntax:

hostname WORD (this system's network name)

interface Command

Description:

Select an interface to configure

Syntax:

Interface GigabitEthernet/LAG/range

ip Command

Description:

IP configuration

Syntax:

ip

acl This command creates an ACL, which perform classification on layer 3 fields and enters ip-access configuration mode.

| | |
|-----------------|--------------------------------|
| address | IPv4 Address |
| arp | ARP configuration |
| default-gateway | Set default gateway IP address |
| dhcp | DHCP configuration |
| dns | Domin Name Server |
| http | HTTP server configuration |
| https | HTTPS server configuration |

| | |
|--------|----------------------------------|
| igmp | IGMP Configuration |
| source | IP Source Guard Configuration |
| ssh | SSH (Secure Shell) configuration |
| telnet | Telnet daemon configuration |

ipv6 Command

Description:

IPV6 configuration

Syntax:

ipv6

acl This command creates an ACL, which perform classification on layer 3 fields and enters to ipv6-access configuration mode.

| | |
|-----------------|--------------------------------|
| address | Set IPv6 address and prefix |
| autoconfig | Enable Ipv6 auto-configuration |
| default-gateway | Set IPv6 gateway |
| dhcp | Set IPv6 DHCP Client |
| mld | MLD Configuration |

jumbo-frame Command

Description:

Jumbo Frame configuration

Syntax:

jumbo-frame <64-9216> (Maximum frame size)

Command

Description:

L2 information

Syntax:

l2 igmp snooping unknown-multicast action drop/flood

lACP Command

Description:

LACP Configuration

Syntax:

lACP system-priority <1-65535> (LACP system priority)

lag Command

Description:

Link Aggregation Group Configuration

Syntax:

lag load-balance src-dst-mac/src-dst-mac-ip

line Command**Description:**

To identify a specific line for configuration

Syntax:

line console/ssh/telnet

lldp Command**Description:**

LLDP Configuration

Syntax:

lldp

holdtime-multiplier Configure LLDP holdtime multiplier

lldpdu Configure LLDP PDU handling when LLDP is disabled

med LLDP MED configuration

reinit-delay Configure LLDP reinitialization delay

tx-delay Configure LLDP TX delay

tx-interval Configure LLDP transmission interval

logging Command**Description:**

Log Configuration

Syntax:

logging

buffered RAM

flash Flash

host Remote syslog host

mac Command**Description:**

MAC Configuration

Syntax:

mac

acl This command enters the extended MAC ACL configuration in order to create layer 2 extended ACL.
address-table MAC address table configuration

management-vlan Command**Description:**

Management VLAN configuration

Syntax:

management-vlan vlan <1-4094> VLAN ID (e.g. 100)

mirror Command**Description:**

Mirror configuration

Syntax:

mirror session <1-4> Session ID (e.g. 1-4)configuraton destination/source interface/GigabitEthernet <1-26> Giga-
bitEthernet
device number

no Command**Description:**

Negate command

Syntax:

no

policy-map Command**Description:**

This command create policy map and enter policy map configuration mode. Use no form to delete the policy
map

Syntax:

policy-map WORD<0-32> (Enter the policy-map name)

port-security Command

Description:

Port security Configuration

Syntax:

port-security

qos Command

Description:

Enable/Disable QoS on the device and enter the QoS mode (advance/basic)

Syntax:

| | |
|-------------------|---|
| qos | |
| advanced | Enable/Disable QoS on the device and enter the QoS mode (advance/basic). |
| advanced-mode | Set the trust mode when the default action is ports-trusted in advanced mode. |
| aggregate-policer | Configure a policer that can be applied to multiple classes within the same policy map. Use the no form of the command to remove policer. |
| basic | Set system QoS advance mode. |
| map | Configure the QoS maps. |
| queue | Queue configuration |
| trust | Configure the global trust mode . Use the no form to return untrusted state. |

radius Command

Description:

RADIUS server information

Syntax:

radius default-config/host

rate-limit Command

Description:

Rate limit configuration of the specified incoming traffic

Syntax:

rate-limit egress/ingress

rmon Command

Description:

RMON information

Syntax:

rmon alarm/event/history

Snmp Command

Description:

SNMP information

Syntax:

| | |
|-----------|---------------------------------------|
| snmp | |
| community | Set community or security name string |
| engineid | SNMP engine id setting |
| group | Set access group string |
| host | Trap or inform host |
| trap | Snmp class trap setting |
| user | Set user Settings |
| view | Set view string |

sntp Command

Description:

Simple Network Time Protocol

Syntax:

sntp host

spanning-tree Command

Description:

Spanning-tree configuration

Syntax:

| | |
|---------------|---|
| Spanning-tree | |
| bpdu | action for bpdu packet |
| forward-delay | Sets the forward-delay parameter |
| hello-time | Sets the hello-time parameter |
| max-hops | Sets the max-hops parameter |
| maximum-age | Changes the interval between messages the spanning tree receives from the root switch |
| mode | Spanning tree protocol type |
| mst | Multiple spanning tree configuration |
| pathcost | Spanning tree path-cost method |
| priority | Sets the priority for specified instance |
| tx-hold-count | Set spanning-tree tx hold count, in seconds |

storm-control Command**Description:**

Storm control configuration

Syntax:

| | |
|---------------|--------------------------|
| Storm-control | |
| ifg | Interframe configuration |
| unit | Unit configuration |

system Command**Description:**

System information

Syntax:

| | |
|----------|-------------------|
| contact | Set host contact |
| location | Set host location |
| name | Set host name |

tacacs Command**Description:**

TACACS+ server information

Syntax:

| | |
|----------------|-----------------------------------|
| tacacs | |
| default-config | TACACS+ server default parameters |
| host | TACACS+ server host |

udld Command

Description:

Configure global UDLD setting

Syntax:

| | |
|-------------|--|
| udld | |
| aggressive | Enable UDLD protocol in aggressive mode on fiber ports except where locally configured |
| enable | Enable UDLD protocol on fiber ports except where locally configured |
| message Set | UDLD message parameters |

username Command

Description:

Local User Configuration

Syntax:

| | |
|------------|----------------------------|
| username | USERNAME Local user name |
| nopassword | No password for this user |
| password | Use clear text password |
| privilege | Local user privilege level |
| secret | Use encrypted password |

vlan Command

Description:

VLAN Configuration

Syntax:

| | |
|---------------|---|
| vlan | |
| VLAN-LIST | VLAN List (e.g. 3,6-8): The range of VLAN ID is 1 to 4094 |
| protocol-vlan | 802.1v protocol VLAN configuration |

voice-vlan Command

Description:

Voice VLAN Configuration

Syntax:

voice vlan <1-4094> (Specifies the Voice VLAN Identifier)

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