

COMMAND-LINE INTERFACE (CLI) GUIDE

LGB1152A

GIGABIT MANAGED ENET SWITCH

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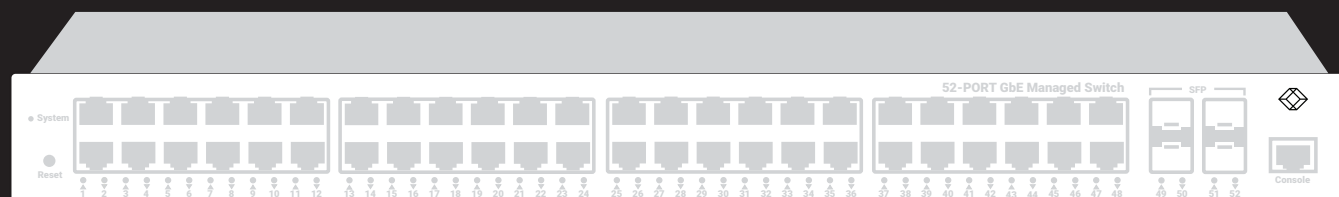


TABLE OF CONTENTS

ABOUT THIS GUIDE.....	7
REVISION HISTORY/ADDITIONAL DOCUMENTATION	8
1. CLI MANAGEMENT.....	9
1.1 Login	9
1.2 Commands of CLI.....	10
1.3 Global Commands of CLI.....	11
2. CABLEDIAG OF CLI.....	14
3. CLEAR OF CLI	15
3.1 Access	15
3.2 Access List	16
3.3 DOT1x.....	16
3.4 IP.....	17
3.5 IPV6	17
3.6 LACP.....	18
3.7 LLDP	18
3.8 Logging	19
3.9 Mac.....	19
3.10 MVR	20
3.11 Port Security	20
3.12 SFlow	21
3.13 Spanning Tree	21
3.14 Statistics	22
3.15 System.....	22
4. CONFIGURE COMMANDS OF CLI	24
4.1 Terminal.....	25
4.1.1 aaa.....	26
4.1.2 access.....	27
4.1.3 access-list	27
4.1.4 aggregation.....	31
4.1.5 banner	32
4.1.6 clock.....	32
4.1.7 default	33
4.1.8 dms.....	34
4.1.9 do	34
4.1.10 dot1x	36
4.1.11 enable	37
4.1.12 end	38
4.1.13 event	38



TABLE OF CONTENTS

4.1.14 green-ethernet.....	40
4.1.15 gvrp.....	40
4.1.16 help.....	41
4.1.17 hostname.....	41
4.1.18 interface.....	42
4.1.19 ip.....	43
4.1.20 ipmc.....	45
4.1.21 ipv6.....	46
4.1.22 lacp.....	47
4.1.23 line.....	47
4.1.24 lldp.....	48
4.1.25 logging.....	51
4.1.26 loop-protect.....	52
4.1.27 mac.....	52
4.1.28 monitor.....	53
4.1.29 mvr.....	54
4.1.30 mvrp.....	55
4.1.31 no.....	56
4.1.32 ntp.....	86
4.1.33 port-security.....	86
4.1.34 privilege.....	87
4.1.35 prompt.....	87
4.1.36 qos.....	88
4.1.37 radius-server.....	89
4.1.38 rmon.....	90
4.1.39 sflow.....	92
4.1.40 smtp.....	93
4.1.41 snmp-server.....	94
4.1.42 spanning-tree.....	97
4.1.43 svl.....	99
4.1.44 switch2go-management.....	99
4.1.45 system.....	100
4.1.46 tacacs-server.....	101
4.1.47 udld.....	102
4.1.48 upnp.....	103
4.1.49 username.....	104
4.1.50 vlan.....	105
4.1.51 voice.....	106
4.1.52 web.....	107

5. COPY COMMANDS OF CLI	108
--------------------------------------	------------

6. DELETE COMMANDS OF CLI.....	109
---------------------------------------	------------

TABLE OF CONTENTS

7. DIR COMMANDS OF CLI.....	110
8. DISABLE COMMANDS OF CLI	111
9. DO COMMANDS OF CLI	112
10. DOT1X COMMANDS OF CLI.....	113
11. ENABLE COMMANDS OF CLI.....	114
12. FIRMWARE COMMANDS OF CLI	115
13. IP COMMANDS OF CLI	116
14. IPV6 COMMANDS OF CLI	117
15. MORE OF CLI.....	118
16. NO COMMANDS OF CLI	119
17. PING OF CLI.....	120
18. PLATFORM COMMANDS OF CLI.....	121
19. RELOAD OF CLI	122
20. SEND OF CLI	123
21. SHOW OF CLI	124
21.1 AAA.....	125
21.2 Access.....	126
21.3 Access List	127
21.4 Aggregation.....	127
21.5 Board Data	128
21.6 Clock.....	128
21.7 DOT1x	129
21.8 Event.....	130
21.9 Green Ethernet.....	131
21.10 History	132
21.11 Interface	132



TABLE OF CONTENTS

21.12 IP	134
21.13 IPMC	136
21.14 IPV6.....	137
21.15 LACP	138
21.16 Line.....	139
21.17 LLDP.....	140
21.18 Logging.....	141
21.19 Loop Protect.....	142
21.20 Mac.....	143
21.21 Monitor.....	145
21.22 MRP	146
21.23 MVR.....	148
21.24 NTP.....	149
21.25 Platform	149
21.26 Port Security.....	150
21.27 Privilege	151
21.28 Process	152
21.29 PVLAN.....	153
21.30 QoS.....	154
21.31 Radius Server.....	155
21.32 RMON	155
21.33 Running Config.....	156
21.34 sFlow	158
21.35 SMTP.....	160
21.36 SNMP	160
21.37 Spanning Tree.....	162
21.38 SVL	163
21.39 Switch2Go Management.....	164
21.40 SwitchPort	164
21.41 System	165
21.42 TACACS Server.....	166
21.43 Terminal	166
21.44 UDLD	167
21.45 UPNP	168
21.46 User Privilege.....	169
21.47 Users	169
21.48 Version	170
21.49 VLAN	171
21.50 Voice.....	173
21.51 Web.....	175
22. TERMINAL OF CLI	177

TABLE OF CONTENTS

23. TRACEROUTE OF CLI	178
24. CLI COMAND REFERENCES	179
24.1 Privilege Level.....	179
24.2 Command Modes	179
APPENDIX. DISCLAIMER/TRADEMARKS.....	218
A.1 Disclaimer	218
A.2 Trademarks Used in this Manual.....	218



ABOUT THIS GUIDE

ABOUT THIS GUIDE

This guide gives specific information on how to operate and use the CLI management functions of the switch.

The guide is intended for use by network administrators who are responsible for operating and maintaining network equipment; consequently, it assumes a basic working knowledge of general switch functions, the Internet Protocol (IP), and Simple Network Management Protocol (SNMP).

REVISION HISTORY/ADDITIONAL DOCUMENTATION

REVISION HISTORY

Release Number: Initial release

Date: 9/5/2017

Revision: A1

ADDITIONAL DOCUMENTATION

This CLI Guide and related documents available on the Black Box web site apply to the LGB1152A Gigabit Managed Ethernet Switch.

To download documentation from the Web site:

1. Go to www.blackbox.com
2. Enter the part number (LGB1152A) in the search box.
3. Click on the product in the "Product Results" page.
4. Click on the "Support" tab on the product page, and select the document you wish to download.

If you have any trouble accessing the Black Box site to download the manual, you can contact our Technical Support at 877-877-2269 or info@blackbox.com.



CHAPTER 1: CLI MANAGEMENT

Follow these steps to connect to the network.

- Using a DB9 RS-232 to RJ-45 cable, connect a terminal or terminal emulator to the Gigabit Managed Ethernet Switch to access the command-line interface.
- Attach the RJ-45 serial port on the switch's front panel to connect to the switch for console configuration.
- Attach the other end of the DB9 cable to an ASCII terminal emulator or PC Com-1, 2 port. For example, a PC runs the Microsoft Windows HyperTerminal utility.
- At the "Com Port Properties" Menu, configure the parameters as below:

Baud rate: 115200

Stop bits: 1

Data bits: 8

Parity: N

Flow control: none

1.1 LOGIN

The command-line interface (CLI) is a text-based interface. Users can access the CLI through either a direct serial connection to the device or a Telnet session (Default IP address: 192.168.1.1). The default user name and password to log in to the Managed Switch are listed below:

Username: admin

Password: <none>

NOTE: <NONE> MEANS AN EMPTY STRING

See the screen below.

```
Username: admin
Password:
LGB1152A#
```

After you login successfully, the prompt will be: <sys_name># .

If you login as an administrator, you will have privileges for setting the Managed Switch.

If you login as a guest, the prompt will be: <sys_name>>. You will not be able to set the Managed Switch while logged in as a guest. Each CLI command has specific privileges.

CHAPTER 1: CLI MANAGEMENT

1.2 COMMANDS OF CLI

The CLI is divided into several modes. If a user has privileges to run a particular command, the user has to run the command in the correct mode. To see the commands of the mode, input “?” after the system prompt, then all commands will be listed in the screen. The command modes are listed next.

TABLE 1-1. COMMAND MODES

MODE	PROMPT	COMMAND FUNCTION IN THIS MODE
exec	<sys_name>#	Display current configuration, diagnostics, maintenance
config	<sys_name>(config)#	Configure features other than those below
Config-if	<sys_name>(config-interface)#	Configure ports
Config-if-vlan	<sys_name>(config-if-vlan)#	Configure static vlan
Config-line	<sys_name>(config-line)#	Line Configuration
Config-impcc-profile	<sys_name>(config-impcc-profile)#	IPMC Profile
Config-snmp-host	<sys_name>(config-snmp-host)#	SNMP Server Host
Config-stp-aggr	<sys_name>(config-stp-aggr)#	STP Aggregation
Config-dhcp-pool	<sys_name>(config-dhcp-pool)#	DHCP Pool Configuration
Config-rfc2544-profile	<sys_name>(config-rfc2544-profile)#	RFC2544 Profile

Commands reside in the corresponding mode and can run only in that mode. If a user wants to run a particular command, the user has to change to the appropriate mode. The command modes are organized as a tree, and users start in enable mode. The following table explains how to change from one mode to another.

TABLE 1-2. CHANGE BETWEEN COMMAND MODES

MODE	ENTER MODE	LEAVE MODE
exec	—	—
config	Configure terminal	exit
config-interface	Interface <port-type> <port-type-list>	exit
config-vlan	Interface vlan <vlan_list>	exit



CHAPTER 1: CLI MANAGEMENT

1.3 GLOBAL COMMANDS OF CLI

```
LGB1152A# ?  
  
CableDiag      Cable Diagnostic keyword  
  
clear          Reset functions  
  
configure      Enter configuration mode  
  
copy           Copy from source to destination  
  
delete         Delete one file in flash file system  
  
dir            Directory of all files in flash file system  
  
disable        Turn off privileged commands  
  
do             To run exec commands in config mode  
  
dot1x          IEEE Standard for port-based Network Access Control  
  
enable         Turn on privileged commands  
  
exit           Exit from the CLI  
  
firmware       Firmware  
  
help           Description of the interactive help system  
  
ip             IPv4 commands  
  
ipv6           IPv6 configuration commands  
  
logout         Exit from EXEC mode  
  
more           Display file  
  
no             Negate a command or set its defaults  
  
ping           Send ICMP echo messages  
  
platform       Platform configuration  
  
reload         Reload system  
  
send           Send a message to other tty lines  
  
show           Show running system information  
  
terminal       Set terminal line parameters  
  
traceroute     Trace the route to HOST
```



CHAPTER 1: CLI MANAGEMENT

EXIT

Exit from EXEC mode.

SYNTAX

Exit

PARAMETER

None

EXAMPLE

```
LGB1152A(config)# exit
LGB1152A#
```

HELP

Description of the interactive help system.

SYNTAX

help

PARAMETER

None

EXAMPLE

```
LGB1152A# help

Help may be requested at any point in a command by entering
a question mark '?'. If nothing matches, the help list will be empty
and you must backup until entering a '?' shows the available options.

Two styles of help are provided:

1. Full help is available when you are ready to enter a command
argument (e.g. 'show ?') and describes each possible argument.

2. Partial help is provided when an abbreviated argument is entered
and you want to know what arguments match the input (e.g. 'show pr?'.)

LGB1152A#-
```



CHAPTER 1: CLI MANAGEMENT

LOGOUT

Exit from EXEC mode.

SYNTAX

logout

PARAMETER

None

EXAMPLE

```
LGB1152A# logout  
Username:
```



CHAPTER 2: CABLEDIAG OF CLI

CABLE DIAGNOSTIC KEYWORD

SYNTAX

CableDiag interface GigabitEthernet <port_type_id>

PARAMETER

Interface	Interface keyword
GigabitEthernet	Gigabit Ethernet Port
<port_type_id>	Port ID in 1/1-48

EXAMPLE

```
LGB1152A# CableDiag interface GigabitEthernet 1/1
Starting Cable Diagnostic - Please wait
Interface          Link Status   Test Result   Length
-----
GigabitEthernet 1/1  Link Down    detect error or check cable length
                                     is between 7-120 meters

LGB1152A# CableDiag interface GigabitEthernet 1/48
Starting Cable Diagnostic - Please wait
Interface          Link Status   Test Result   Length
-----
GigabitEthernet 1/48  1G           detect error or check cable length
                                     is between 7-120 meters

LGB1152A#
```



CHAPTER 3: CLEAR OF CLI

TABLE 3-1. CLEAR COMMANDS

COMMAND	FUNCTION
access	Access management
access-list	Access list
dot1x	IEEE Standard for port-based Network Access Control
ip	Interface Internet Protocol config commands
ipv6	IPv6 configuration commands
lACP	Clear LACP statistics
lldp	Clear LLDP statistics
logging	Syslog
mac	MAC Address Table
mvr	Multicast VLAN Registration configuration
port-security	Port Security
sflow	Statistics flow
spanning-tree	Execute protocol migration check on interfaces
statistics	Clear statistics for one or more given interface(s)
system	system

3.1 ACCESS

Access management

SYNTAX

clear access management statistics

PARAMETER

management Access management configuration.

statistics Statistics data.

EXAMPLE

```
LGB1152A# clear access management statistics
LGB1152A#
```

CHAPTER 3: CLEAR OF CLI

3.2 ACCESS LIST

Access list

SYNTAX

clear access-list ace statistics

PARAMETER

ace Clear access-list ace statistics.
statistics Traffic statistics.

EXAMPLE

```
LGB1152A# clear access-list ace statistics  
LGB1152A#
```

3.3 DOT1X

IEEE Standard for port-based Network Access Control

SYNTAX

Clear dot1x statistics

Clear dot1x statistics interface GigabitEthernet < PORT_TYPE_LIST>

PARAMETER

statistics Clears the statistics counters
interface Interface
GigabitEthernet Gigabit Ethernet Port
PORT_TYPE_LIST Port list in 1/1-52 for Gigabitethernet

EXAMPLE

```
LGB1152A# clear dot1x statistics interface GigabitEthernet 1/1-52s  
LGB1152A#
```



CHAPTER 3: CLEAR OF CLI

3.4 IP

Clear DHCP Relay statistics

SYNTAX

```
clear ip dhcp relay statistics
```

PARAMETER

dhcp	Clear DHCP Relay statistics
relay	Clear DHCP Relay statistics
statistics	Clear DHCP Relay statistics

EXAMPLE

```
LGB1152A# clear ip dhcp relay statistics
LGB1152A#
```

3.5 IPV6

IPv6 configuration commands

SYNTAX

```
clear ipv6 mld snooping [vlan <v_vlan_list>] statistics
```

```
clear ipv6 neighbors
```

```
clear ipv6 statistics [system] [interface vlan <v_vlan_list>] [icmp] [icmp-msg <type>]
```

PARAMETER

mld	Multicast Listener Discovery
neighbors	IPv6 neighbors
statistics	Traffic statistics
snooping	Snooping MLD
statistics	Running MLD snooping counters
vlan	IPv6 interface traffic
<v_vlan_list>	VLAN identifier(s): VID
icmp	IPv6 ICMP traffic
icmp-msg	IPv6 ICMP traffic for designated message type
interface	Select an interface to configure
system	IPv6 system traffic
< 0-255 >	ICMP message type ranges from 0 to 255

CHAPTER 3: CLEAR OF CLI

EXAMPLE

```
LGB1152A# clear ipv6 mld snooping vlan 3 statistics
LGB1152A# clear ipv6 neighbors
LGB1152A# clear ipv6 statistics systmicmp icmp-msg 2
```

3.6 LACP

Clear LACP statistics

SYNTAX

clear LACP statistics

PARAMETER

statistics Clear all LACP statistics

EXAMPLE

```
LGB1152A# clear lacp statistics
LGB1152A#
```

3.7 LLDP

Clear LLDP statistics for one or more given interface(s)

SYNTAX

Clear lldp statistics { global | (interface [* | GigabitEthernet <port_list>]) }

PARAMETER

statistics	Clear LLDP statistics
global	Clear global counters
interface	Interface
GigabitEthernet	GigabitEthernet
*	All ports
<port_list>	Port List S/X-Y,Z (1/1-52)



CHAPTER 3: CLEAR OF CLI

EXAMPLE

```
LGB1152A# clear lldp statistics interface
LGB1152A#
```

3.8 LOGGING

Syslog

SYNTAX

```
clear logging [ info ] [ warning ] [ error ]
```

PARAMETER

error	Error
info	Information
warning	Warning

EXAMPLE

```
LGB1152A# clear logging info error warning
LGB1152A#
```

3.9 MAC

MAC Address Table

SYNTAX

```
Clear mac address-table
```

PARAMETER

address-table	Flush MAC Address table
---------------	-------------------------

EXAMPLE

```
LGB1152A# clear mac address-table
LGB1152A#
```

CHAPTER 3: CLEAR OF CLI

3.10 MVR

Multicast VLAN Registration configuration

SYNTAX

Clear mvr [vlan <v_vlan_list> | name <mvr_name>] statistics

PARAMETER

name	MVR multicast name
statistics	Running MVR protocol counters
vlan	MVR multicast vlan
< word16>	MVR multicast VLAN name
<vlan_list>	MVR multicast VLAN list

EXAMPLE

```
LGB1152A# clear mvr vlan 25 statistics
LGB1152A#
```

3.11 PORT SECURITY

Port security

SYNTAX

clear port-security dynamic address <mac_addr>

clear port-security dynamic interface [* (<port_type_list> | vlan) | GigabitEthernet]

PARAMETER

dynamic	Dynamic entries
address	Clear a specific <VLAN, MAC>-tuple
interface	Port interface
vlan	Delete all MAC addresses on a given VLAN
<mac_addr>	MAC address to clear
*	All switches or All ports
GigabitEthernet	Gigabit Ethernet Port
<port_type_list>	Port list for all port types
vlan	VLAN keyword
<vlan_id>	VLANs on interface to clear all MAC addresses for
<port_type_list>	Port list in 1/1-52



CHAPTER 3: CLEAR OF CLI

EXAMPLE

```
LGB1152A# clear port-security dynamic interface GigabitEthernet 1/1
LGB1152A#
```

3.12 SFLOW

Statistics flow

SYNTAX

```
clear sflow statistics { receiver [ <receiver_index_list> ] | samplers [ interface [ <samplers_list> ] ( <port_type>
[ <v_port_type_list> ] ) ] }
```

PARAMETER

interface	Interface
receiver	Clear statistics for receiver.
<port_type>	GigabitEthernet
<Samplers : option>	runtime
<port_type_list>	Port list in 1/1-52 for Gigabitethernet

EXAMPLE

```
LGB1152A# clear sflow statistics interface
GigabitEthernet 1/1-52
```

3.13 SPANNING TREE

Execute protocol migration check on interfaces

SYNTAX

```
clear spanning-tree detected-protocols interface ( * | GigabitEthernet <port_list> )
```

PARAMETER

detected-protocols	Clear spanning-tree detected protocols, i.e. mcheck.
interface	Interface
GigabitEthernet	GigabitEthernet
*	All ports
<port_type_list>	Port List S/X-Y,Z (1/1-52)

CHAPTER 3: CLEAR OF CLI

EXAMPLE

```
LGB1152A# clear spanning-tree detected-protocols interface *
LGB1152A#
```

3.14 SFLOW

Clear statistics for a given interface

SYNTAX

clear statistics interface (* | GigabitEthernet <port_list>)

PARAMETER

interface	Interface
GigabitEthernet	GigabitEthernet
*	All switches or All ports
<port__list>	Port List S/X-Y,Z (1/1-52)

EXAMPLE

```
LGB1152A# clear statistics GigabitEthernet 1/1-52
LGB1152A#
```

3.15 SYSTEM

system

SYNTAX

clear system led status (all | fatal | software) [| (begin | exclude | include) <line>]

PARAMETER

led	led
status	status
all	Clear all error status of the system LED and back to normal indication
fatal	Clear fatal error status of the system LED
software	Clear generic software error status of the system LED
	Output modifiers
begin	Begin with the line that matches



CHAPTER 3: CLEAR OF CLI

exclude Exclude lines that match
include Include lines that match
<line> String to match output lines

EXAMPLE

```
LGB1152A# clear system led status software  
LGB1152A#
```



CHAPTER 4: CONFIGURE COMMANDS OF CLI**TABLE 4-1. CONFIGURE COMMANDS**

COMMAND	FUNCTION
terminal	Configure from the terminal
aaa	Authentication, Authorization and Accounting
access	Access management
access-list	Access list
aggregation	Aggregation mode
banner	Define a login banner
clock	Configure time-of-day clock
default	Set a command to its defaults
dms	DMS mode
do	To run exec commands in config mode
dot1x	IEEE Standard for port-based Network Access Control
enable	Modify enable password parameters
end	Go back to EXEC mode
event	Trap event severity level
exit	Exit from Configuration mode
green ethernet	Green Ethernet (power reduction)
gvrp	Enable GVRP feature
help	Description of the interactive help system
hostname	Set system's network name
interface	Select an interface to configure
ip	Internet Protocol
ipmc	IPv4/IPv6 multicast configuration
ipv6	IPv6 configuration commands
lACP	LACP settings
line	Configure a terminal line
lldp	LLDP configurations
logging	Syslog
loop-protect	Loop protection configuration
mac	MAC table entries/configuration
monitor	Set monitor configuration
mvr	Multicast VLAN Registration configuration
no	Negate a command or set its defaults
ntp	Configure NTP
port-security	Enable/disable port security globally
prompt	Set prompt
Privilege	Command privilege parameters
qos	Quality of Service
radius-server	Configure RADIUS
rmon	Remote Monitoring
sflow	Statistics flow



CHAPTER 4: CONFIGURE COMMANDS OF CLI

TABLE 4-1 (CONTINUED). CONFIGURE COMMANDS

COMMAND	FUNCTION
smtp	Set email information
snmp-server	Set SNMP server's configurations
spanning-tree	Spanning Tree protocol
svl	Shared VLAN learning
switch2go management	Switch2go management configuration
system	Set the SNMP server's configurations
tacacs-server	Configure TACACS+
udld	Enable UDLD in the aggressive or normal mode and set the configurable message timer on all fiber optic ports
upnp	Set UPnP's configurations
username	Establish User Name Authentication
vlan	VLAN commands
voice	Voice appliance attributes
web	Web

4.1 TERMINAL

Configure from the terminal

SYNTAX

configure terminal

PARAMETER

terminal Configure from the terminal

EXAMPLE

```
LGB1152A# configure terminal
LGB1152A(config)#
```

CHAPTER 4: CONFIGURE COMMANDS OF CLI

4.1.1 AAA

Authentication, Authorization and Accounting

SYNTAX

```
aaa authentication login [ ssh | telnet | http ] [ local | radius | tacacs ]
aaa authentication service-port [ ssh | telnet | http | https ] <0-65535>
aaa authentication redirect
aaa authorization ( ssh | telnet ) tacacs commands <0-15> fallback
aaa authorization ( ssh | telnet ) tacacs commands <0-15> config-commands fallback
aaa accounting ( ssh | telnet ) tacacs
aaa accounting ( ssh | telnet ) tacacs commands <0-15> [exec]
```

PARAMETER

authentication	Authentication
authorization	Authorization
accounting	Accounting
login	Login
service-port	Service port
redirect	HTTP redirect HTTPS
ssh	Configure SSH
telnet	Configure Telnet
http	Configure HTTP
local	Use local database for authentication
radius	Use RADIUS for authentication
tacacs	Use TACACS+ for authentication
https	Configure HTTPS
<0-65535>	Service port (0..65535)
telnet	telnet
ssh	ssh
tacacs	Configure Telnet
commands	Cmd Lvl (0..15)
<0-15>	Cmd Lvl (0..15)
config-commands	config-commands
fallback	fallback
tacacs	Configure SSH
exec	config-commands



CHAPTER 4: CONFIGURE COMMANDS OF CLI

EXAMPLE

```
LGB1152A(config)# aaa authentication login http radius
LGB1152A(config)##
```

4.1.2 ACCESS

Access management

SYNTAX

access management <1..16> <1..4095> A.B.C.D[/mask] { [web] [snmp] [telnet] | all }

access management <1..16> <1..4095> A.B.C.D[/mask] { [web] | [snmp] | [telnet] | [all] }

PARAMETER

management	Access management configuration
<1-16>	ID of access management entry (1..16)
<1..4095>	VID of access management entry (1..4095)
A.B.C.D[/mask]	A valid IPv4 unicast address
all	All services
snmp	SNMP service
telnet	TELNET/SSH service
web	Web service

EXAMPLE

```
LGB1152A(config)# access management 10 3 192.168.1.1 all
LGB1152A(config)##
```

4.1.3 ACCESS LIST

Access list

TABLE 4-2. ACCESS LIST COMMANDS

COMMAND	FUNCTION
ace	Access list entry

CHAPTER 4: CONFIGURE COMMANDS OF CLI

ACE

Access list entry.

SYNTAX

```
access-list ace <1-384> action [ deny | permit | shutdown ]
access-list ace <1-384> action { ( deny | permit | shutdown ) [ ingress | mirror | metering | counter | frame-type ] }
access-list ace <1-384> action { ( deny | permit | shutdown ) ingress [ any | interface ] [ mirror | metering | counter | frame-type ] }
access-list ace <1-384> action { ( deny | permit | shutdown ) ingress any mirror [ disable | metering | counter | frame-type ] }
access-list ace <1-384> action { ( deny | permit | shutdown ) ingress any metering [ disable | <16-1000000> ] [ mirror | counter | frame-type ] }
access-list ace <1-384> action { ( deny | permit | shutdown ) ingress any counter [ disable | mirror | metering | frame-type ] }
access-list ace <1-384> action { ( deny | permit | shutdown ) ingress any frame-type any [ mirror | metering | counter ] }
access-list ace <1-384> action { ( deny | permit | shutdown ) ingress any frame-type any mirror [ disable | metering | counter ] }
access-list ace <1-384> action { ( deny | permit | shutdown ) ingress any frame-type any metering [ disable | <16-1000000> ] [ mirror | counter ] }
access-list ace <1-384> action { ( deny | permit | shutdown ) ingress any frame-type any counter [ disable | mirror | metering ] }
access-list ace <1-384> action { ( deny | permit | shutdown ) ingress any frame-type etype [ mirror | metering | counter | ctag | ctag-priority | ctag-vid | stag | stag-priority | stag-vid | dmac-type | dmac | smac | etype-value ] }
access-list ace <1-384> action { ( deny | permit | shutdown ) ingress any frame-type ipv4 [ mirror | metering | counter | dip | sip | ip-protocol | ip-flag | tos ] }
access-list ace <1-384> action { ( deny | permit | shutdown ) ingress any frame-type ipv4-icmp [ mirror | metering | counter | dip | sip | ip-flag | tos | icmp-code | icmp-type ] }
access-list ace <1-384> action { ( deny | permit | shutdown ) ingress any frame-type ipv4-tcp [ mirror | metering | counter | dip | sip | ip-flag | tos | dport | sport | tcp-flag ] }
access-list ace <1-384> action { ( deny | permit | shutdown ) ingress any frame-type ipv4-udp [ mirror | metering | counter | dip | sip | ip-flag | tos | dport | sport ] }
access-list ace <1-384> ingress { any | interface [ * | GigabitEthernet <port_list> ] }
access-list ace <1-384> ingress any [ action | mirror | metering | counter | frame-type ]
access-list ace <1-384> ingress interface { * [ <port_list> | action | mirror | metering | counter | frame-type ] | GigabitEthernet <port_list> }
access-list ace <1-384> mirror disable
access-list ace <1-384> mirror [ disable | action | ingress | metering | counter | frame-type ]
access-list ace <1-384> metering [ disable | <16-1000000000> ]
access-list ace <1-384> metering { ( disable | <16-1000000000> ) [ action | ingress | mirror | counter | frame-type ] }
access-list ace <1-384> counter disable
access-list ace <1-384> counter [ disable | action | ingress | mirror | metering | frame-type ]
access-list ace <1-384> frame-type any
access-list ace <1-384> frame-type any [ action | ingress | mirror | metering | counter ]
access-list ace <1-384> frame-type etype [ action | ingress | mirror | metering | counter | ctag | ctag-priority | ctag-vid | stag | stag-priority | stag-vid | dmac-type | dmac | smac | etype-value ]
access-list ace <1-384> frame-type etype [ ctag | stag ] [ any | tagged | untagged ]
```



CHAPTER 4: CONFIGURE COMMANDS OF CLI

```

access-list ace <1-384> frame-type etype [ ctag-priority | stag-priority ] [ any | 0-1 | 0-3 | 2-3 | 4-5 | 4-7 | 6-7 | <0-7> ]
access-list ace <1-384> frame-type etype [ ctag-vid | stag-vid ] [ any | <vlan_id> ]
access-list ace <1-384> frame-type etype dmac-type [ any | broadcast | multicast | unicast ]
access-list ace <1-384> frame-type etype [ dmac | smac ] [ any | <mac_addr> ]
access-list ace <1-384> frame-type etype etype-value [ any | <0x0000-0xFFFF> ]
access-list ace <1-384> frame-type ipv4 [ action | ingress | mirror | metering | counter | dip | sip | ip-protocol | ip-flag | tos ]
access-list ace <1-384> frame-type ipv4-icmp [ action | ingress | mirror | metering | counter | dip | sip | ip-flag | tos | icmp-code | icmp-
type ]
access-list ace <1-384> frame-type ipv4-tcp [ action | ingress | mirror | metering | counter | dip | sip | ip-flag | tos | dport | sport | tcp-
flag ]
access-list ace <1-384> frame-type ipv4-udp [ action | ingress | mirror | metering | counter | dip | sip | ip-flag | tos | dport | sport ]

```

PARAMETER

<1-384>	ACE ID (1..384)
action	Access list action
ingress	Ingress Port
mirror	Mirror frame to destination mirror port
metering	Bandwidth limitation on the traffic flow
counter	Count the packet if the ACE rule is matched
frame-type	Frame type
deny	Deny
permit	Permit
shutdown	Shutdown the interface
any	Don't-care the ingress interface
interface	Select an interface to configure
*	All switches or All ports
GigabitEthernet	GigabitEthernet
<port_list>	Port list in (1/1-52)
disable	Disable metering
disable	Disable mirror
disable	Disable counter
<16-1000000000>	Metering bandwidth in Kbps (16..1000000000)
any	Don't-care the frame type
etype	Frame type of etype
ipv4	Frame type of IPv4
ipv4-icmp	Frame type of IPv4 ICMP
ipv4-tcp	Frame type of IPv4 TCP
ipv4-udp	Frame type of IPv4 UDP
dip	Destination IP address field

CHAPTER 4: CONFIGURE COMMANDS OF CLI

sip	Source IP address field
ip-protocol	IP protocol
ip-flag	IP flag
tos	IPv4 traffic class field
icmp-code	ICMP code field
icmp-type	ICMP type field
ctag	C-VLAN Tag
ctag-priority	C-VLAN Tag-priority
ctag-vid	C-VLAN ID field
stag	S-VLAN Tag
stag-priority	S-VLAN Tag-priority
stag-vid	S-VLAN ID field
dmac-type	The type of destination MAC address
dmac	Destination MAC address field
smac	Source MAC address field
etype-value	Ether type value
dport	TCP/UDP destination port field
sport	TCP/UDP source port field
cp-flag	TCP flag
any	Don't-care tagged or untagged
tagged	Tagged
untagged	Untagged
any	Don't-care the value of tag priority field
0-1	The range of tag priority
0-3	The range of tag priority
2-3	The range of tag priority
4-5	The range of tag priority
4-7	The range of tag priority
6-7	The range of tag priority
<0-7>	The value of tag priority (0..7)
any	Don't-care the value of VID field
<vlan_id>	The value of VID field (1-4095)
any	Don't-care the type of destination MAC address
broadcast	Broadcast destination MAC address
multicast	Multicast destination MAC address
unicast	Unicast destination MAC address
any	Don't-care the value of destination MAC address field
<mac_addr>	The value of destination MAC address field



CHAPTER 4: CONFIGURE COMMANDS OF CLI

any	Don't-care the value of source MAC address field
<mac_addr>	The value of source MAC address field
any	Don't-care the value of etype field
<0x0000-0xFFFF>	The value of etype field

EXAMPLE

```
LGB1152A(config)# access-list ace 10 action deny
LGB1152A(config)##
```

4.1.4 AGGREGATION

Aggregation mode

SYNTAX

aggregation mode [dst-ip | dst-mac | src-dst-ip | src-dst-mac | src-ip | src-mac]

PARAMETER

mode	Traffic distribution mode
dst-ip	Destination IP address affects the distribution
dst-mac	Destination MAC affects the distribution
src-dst-ip	Source and Destination IP affect the distribution
src-dst-mac	Source and Destination MAC affect the distribution
src-ip	Source IP address affects the distribution
src-mac	Source MAC affects the distribution

EXAMPLE

```
LGB1152A(config)# aggregation mode dst-ip
LGB1152A(config)##
```

CHAPTER 4: CONFIGURE COMMANDS OF CLI

4.1.5 BANNER

Define a login banner

SYNTAX

banner [motd] <banner>

banner exec <banner>

banner login <banner>

PARAMETER

<LINE> c banner-text c, where 'c' is a delimiting character

exec Set EXEC process creation banner

login Set login banner

motd Set Message of the Day banner

EXAMPLE

```
LGB1152A(config)# banner exec LINE
Enter TEXT message. End with the character '^'.
L
LGB1152A(config)##
```

4.1.6 CLOCK

Configure time-of-day clock

SYNTAX

clock set date date

clock timezone { [acronym <word16>] | [clock_offset <-12:00-12:00>] }

clock summer-time mode_type <1-12> <1-5> <1-7> <0-23> <1-12> <1-5> <1-7> <0-23> <1-1440>

PARAMETER

set set clock

summer-time Configure summer (daylight savings) time

timezone Configure time zone

date yyyy/mm/dd

date hh:mm:ss

acronym name of time zone

clock_offset Offset from UTC



CHAPTER 4: CONFIGURE COMMANDS OF CLI

word16	name of time zone. (word16)
<-12 :00-12 :00>	Hours offset from UTC.
mode_type	Enable or Disable time zone in summer. (disable/enable)
<1-12>	Month to start. (1..12)
<1-5>	Week number to start. (1..5)
<1-7>	Weekday to start. (1..7)
<0-23>	Hour to start. (0..23)
<1-12>	Month to end. (1..12)
<1-5>	Week number to end. (1..5)
<1-7>	Weekday to end. (1..7)
<0-23>	Hour to end. (0..23)
<1-1440>	Offset to add in minutes. (1..1440)

EXAMPLE

```
LGB1152A(config)# clock set 2014/11/04 10:22:03
2014-11-04T10:22:03+00:00
LGB1152A(config)# do show clock
System Time: 2014-11-04T10:22:48+00:0
```

4.1.7 DEFAULT

Set a command to its defaults

SYNTAX

```
default access-list rate-limiter [ <rate_limiter_list> ]
```

PARAMETER

access-list	Access list
rate-limiter	Rate limiter
<RateLimiterId : 1-16>	Rate limiter ID

EXAMPLE

```
LGB1152A(config)# default access-list rate-limiter 3
LGB1152A(config)##
```

CHAPTER 4: CONFIGURE COMMANDS OF CLI

4.1.8 DMS

DMS mode

SYNTAX

dms mode

dms mode [high-priority | enabled | disabled]

PARAMETER

mode	DMS mode
high-priority	High Priority
enabled	Enabled
disabled	Disabled

EXAMPLE

```
LGB1152A(config)# dms mode disabled
LGB1152A(config)##
```

4.1.9 DO

To run exec commands in config mode

SYNTAX

do < LINE >{{< LINE >}}

do clear access-list ace statistics

do clear ip dhcp relay statistics

do clear lldp statistics { global | [interface (GigabitEthernet <port_list> | *)] }

do clear logging [error | info | warning]

do clear spanning-tree detected-protocols interface (GigabitEthernet <port_list> | *)

do clear statistics interface (GigabitEthernet <port_list> | * <port_list>)

PARAMETER

Clear	Reset functions
configure	Enter configuration mode
copy	Copy from source to destination
delete	Delete one file in flash file system
diagnostics	diagnostics



CHAPTER 4: CONFIGURE COMMANDS OF CLI

dir	Directory of all files in flash file system
find-switch	Turn on and off all LED light 3 times in 15 seconds
firmware	firmware
logout	Exit from EXEC mode
more	Display file
ping	Send ICMP echo messages
reload	Reload system
show	Show running system information
ssl	Setup SSL certificate
terminal	Set terminal line parameters
tracert	Trace the route to HOST
access-list	Access list
ip	Clear DHCP Relay statistics
lldp	Clear LLDP statistics for one or more given interface
logging	Syslog
mac	MAC Address Table
spanning-tree	Execute protocol migration check on interfaces
statistics	Clear statistics for one or more given interface
ace	Access list entry
statistics	Traffic statistics
dhcp	Clear DHCP Relay statistics
relay	Clear DHCP Relay statistics
statistics	Clear DHCP Relay statistics
statistics	Clear LLDP statistics
global	Clear global counters
interface	Interface
GigabitEthernet	GigabitEthernet
*	All ports
<port_list>	Port List S/X-Y,Z (1/1-52)
Error	Error
info	Information
warning	Warning
address-table	Flush MAC Address table
detected-protocols	Clear spanning-tree detected protocols, i.e. mcheck.
interface	Interface
*	All switches or All ports

CHAPTER 4: CONFIGURE COMMANDS OF CLI

EXAMPLE

```
LGB1152A(config)# do clear statistics interface GigabitEthernet 1/1-52
LGB1152A(config)##
```

4.1.10 DOTX

IEEE Standard for port-based Network Access Control

SYNTAX

dot1x authentication timer re-authenticate <1-3600>

dot1x feature guest-vlan

dot1x guest-vlan [<1-4095> | supplicant]

dot1x max-reauth-req <1-255>

dot1x re-authentication

dot1x system-auth-control

dot1x timeout tx-period <1-65535>

PARAMETER

authentication	Authentication
feature	Globally enables/disables a dot1x feature functionality
guest-vlan	Guest VLAN
max-reauth-req	The number of times a Request Identity EAPOL frame is sent without response before considering entering the Guest VLAN
re-authentication	Set Re-authentication state
system-auth-control	Set the global NAS state
timeout	timeout
timer	timer
re-authenticate	The period between re-authentication attempts in seconds
<1-3600>	seconds (1..3600)
guest-vlan	Globally enables/disables state of guest-vlan
<1-4095>	Guest VLAN ID used when entering the Guest VLAN (1..4095)
supplicant	The switch remembers if an EAPOL frame has been received on the port for the life-time of the port. Once the switch considers whether to enter the Guest VLAN, it will first check if this option is enabled or disabled. If disabled (unchecked; default), the switch will only enter the Guest
<1-255>	number of times (1..255)
tx-period	the time between EAPOL retransmissions.
<1-65535>	seconds (1..65535)



CHAPTER 4: CONFIGURE COMMANDS OF CLI

EXAMPLE

```
LGB1152A(config)# dot1x authentication timer re-authenticate 1000
LGB1152A(config)# dot1x feature guest-vlan
LGB1152A(config)# dot1x guest-vlan 33
LGB1152A(config)# dot1x max-reauth-req 3
LGB1152A(config)# dot1x re-authentication
LGB1152A(config)# dot1x system-auth-control
LGB1152A(config)# dot1x timeout tx-period 3000
```

4.1.11 ENABLE

Modify enable password parameters

SYNTAX

enable password [<level> <1-15>] <WORD>

enable secret { 0 | 5 } [< level> <1-15>] <WORD>

PARAMETER

password	Assign the privileged level clear password
secret	Assign the privileged level secret
WORD	The UNENCRYPTED (cleartext) password
level	Set exec level password
<1-15>	Level number
0	Specifies an UNENCRYPTED password will follow
5	Specifies an ENCRYPTED secret will follow

EXAMPLE

```
LGB1152A(config)# enable password level 10 999
LGB1152A(config)#
```

CHAPTER 4: CONFIGURE COMMANDS OF CLI

4.1.12 END

Go back to EXEC mode

SYNTAX

end

EXAMPLE

```
LGB1152A (config)# end
LGB1152A#
```

4.1.13 EVENT

Trap event level

SYNTAX

```
event group [ aclaccess-mgmt | arp-inspection | auth-failed | bsc-protection | cold-start | dhcp | dhcp-snooping | ip-source-guard |
lACP | link-updown | login | logout | loop-protection | mac-table | maintenance | mgmt-ip-change | nas | port | port-security | rmon | sfp |
spanning-tree | system | user | warm-start ] { [ level < 0-7 > ] | { syslog [ enable | disable ] } | { trap [ enable | disable ] } }
```

```
event group [ acl | aclaccess-mgmt | arp-inspection | auth-failed | bsc-protection | cold-start | dhcp | dhcp-snooping | ip-source-guard |
lACP | link-updown | login | logout | loop-protection | mac-table | maintenance | mgmt-ip-change | nas | port | port-security | rmon | sfp |
spanning-tree | system | user | warm-start ] [ level | syslog | trap ]
```

```
event group [ acl | aclaccess-mgmt | arp-inspection | auth-failed | bsc-protection | cold-start | dhcp | dhcp-snooping | ip-source-guard |
lACP | link-updown | login | logout | loop-protection | mac-table | maintenance | mgmt-ip-change | nas | port | port-security | rmon | sfp |
spanning-tree | system | user | warm-start ] [ level | syslog | trap ] < 0-7 > { syslog [ enable | disable ] [ trap ] } | { trap [ enable | disable ]
[ syslog ] }
```

PARAMETER

group	Trap Event group name
acl	Group ID ACL
access-mgmt	Group ID ACCESS-MGMT
arp-inspection	Group ID ARP-INSPECTION
auth-failed	Group ID AUTH-FAILED
bsc-protection	Group ID BCS-PROTECTION
cold-start	Group ID COLD-START
dhcp	Group ID DHCP
dhcp-snooping	Group ID DHCP-SNOOPING
ip-source-guard	Group ID IP-SOURCE-GUARD
lACP	Group ID LACP
link-updown	Group ID LINK-UPDOWN



CHAPTER 4: CONFIGURE COMMANDS OF CLI

login	Group ID LOGIN
logout	Group ID LOGOUT
loop-protection	Group ID LOOP-PROTECTION
mac-table	Group ID MAC-TABLE
maintenance	Group ID MAINTENANCE
mgmt-ip-change	Group ID MGMT-IP-CHANGE
nas	Group ID NAS
port	Group ID PORT
port-security	Group ID PORT-SECURITY
rmon	Group ID RMON
sfp	Group ID SFP
spanning-tree	Group ID SPANNING-TREE
system	Group ID SYSTEM
user	Group ID USER
warm-start	Group ID WARM-START
level	event group level
syslog	syslog mode
trap	trap mode
<0-7>	<0> Emergency ,<1> Alert ,<2> Critical ,<3> Error ,<4> Warning ,<5> Notice ,<6> Informationl ,<7> Debug (0..7)
enable	syslog mode enable
disable	syslog mode disable
enable	trap mode enable
disable	trap mode disable

EXAMPLE

```
LGB1152A(config)# event group lacp trap enable
LGB1152A(config)#
```

CHAPTER 4: CONFIGURE COMMANDS OF CLI

4.1.14 GREEN ETHERNET

Green ethernet (Power reduction)

SYNTAX

green-ethernet eee optimize-for-power

PARAMETER

eee Powering down of PHYs when there is no traffic.
optimize-for-power Set if EEE shall be optimized for least power consumption (else optimized for least traffic latency).

EXAMPLE

```
LGB1152A(config)# green-ethernet eee optimize-for-power
LGB1152A(config)#
```

4.1.15 GVRP

Enable GVRP feature

SYNTAX

gvrp
gvrp max-vlans <1-4095>
gvrp time { [join-time <1-20>] [leave-time <60-300>] [leave-all-time <1000-5000>] }*1

PARAMETER

time config gvrp timer value in units of centi seconds [cs]

EXAMPLE

```
LGB1152A(config)# gvrp max-vlans 333
LGB1152A(config)# gvrp time join-time 13 leave-all-time 3000 leave-time 200
LGB1152A(config)#
```



CHAPTER 4: CONFIGURE COMMANDS OF CLI

4.1.16 HELP

Description of the interactive help system

SYNTAX

help

PARAMETER

none

EXAMPLE

```
LGB1152A(config)# help

Help may be requested at any point in a command by entering a question mark '?'.
If nothing matches, the help list will be empty and you must backup until entering
a '?' shows the available options.

Two styles of help are provided:
1. Full help is available when you are ready to enter a command argument (e.g. 'show ?')
   and describes each possible argument.
2. Partial help is provided when an abbreviated argument is entered and you want to know
   what arguments match the input
   (e.g. 'show pr?'.)

LGB1152A(config)#
```

4.1.17 HOSTNAME

Set system's network name

SYNTAX

hostname < WORD >

PARAMETER

WORD This system's network name.

EXAMPLE

```
LGB1152A(config)# hostname abc
abc(config)#
```

CHAPTER 4: CONFIGURE COMMANDS OF CLI

4.1.18 INTERFACE

Select an interface to configure

SYNTAX

```
interface vlan <vlan_list>
interface vlan <vlan_list> end
interface vlan <vlan_list> exit
interface vlan <vlan_list> ip ( address | dhcp | igmp ) <ipv4_addr> <ipv4_netmask>
interface vlan <vlan_list> ip address dhcp
interface vlan <vlan_list> ip address dhcp fallback <ipv4_addr> <ipv4_netmask>
interface vlan <vlan_list> ip address dhcp fallback <ipv4_addr> <ipv4_netmask> timeout
interface vlan <vlan_list> ip address dhcp fallback <ipv4_addr> <ipv4_netmask> timeout <0-4294967295>
interface GigabitEthernet <port_list>
```

PARAMETER

vlan	VLAN interface configurations
GigabitEthernet	Gigabit Ethernet Port
<vlan_list>	List of VLAN interface numbers, 1~4094 (1-4095)
!	Comments
end	Go back to EXEC mode
exit	Exit from current mode
ip	Interface Internet Protocol config commands
ipv6	Interface IPv6 config commands
no	Negate a command or set its defaults
Address	Address configuraton
dhcp	Dynamic Host Configuration Protocol
igmp	ip mode
<ipv4_addr>	IP address (X.X.X.X)
dhcp	Enable DHCP client
<ipv4_netmask>	IP netmask (X.X.X.X)
fallback	DHCP fallback settings
timeout	DHCP fallback timeout
<0-4294967295>	DHCP fallback timeout in seconds (0..4294967295)
address	Address configuraton
mld	ipv6 mode
<port_list>	Port List S/X-Y,Z (1/1-52)



CHAPTER 4: CONFIGURE COMMANDS OF CLI

EXAMPLE

```
LGB1152A(config)# interface GigabitEthernet 1/1-52
LGB1152A(config-if)#
LGB1152A(config-if)# interface vlan 3
LGB1152A(config-if-vlan)#
```

4.1.19 IP

Internet Protocol

SYNTAX

ip arp inspection

ip arp inspection entry interface [* | GigabitEthernet <port_id>] <vlan_id> <mac_ucast> <ipv4_ucast>

ip arp inspection vlan <vlan_list>

ip arp inspection vlan <vlan_list> logging [deny | permit | all]

ip dhcp pool <vlan_id>

ip dhcp relay

ip dhcp relay information option

ip dhcp relay information policy { drop | keep | replace }

ip dhcp snooping

ip helper-address <ipv4_ucast>

ip igmp snooping

ip igmp host-proxy

ip igmp ssm-range <ipv4_mcast> <4-32>

ip igmp unknown-flooding

ip name-server { <ipv4_ucast> | [dhcp interface vlan <vlan_id>] }

ip route <ipv4_addr> <ipv4_netmask> <ipv4_ucast>

ip source binding interface [* | GigabitEthernet <port_id>] <ipv4_ucast> <mac_ucast>

ip verify source

PARAMETER

arp	Address Resolution Protocol
dhcp	Dynamic Host Configuration Protocol
helper-address	DHCP helper server address
igmp	Internet Group Management Protocol
name-server	Domain Name System
route	Add IP route
source	source command

CHAPTER 4: CONFIGURE COMMANDS OF CLI

verify	verify command
inspection	ARP inspection
entry	arp inspection entry
vlan	arp inspection vlan setting
interface	Select an interface to configure
*	All switches or All ports
GigabitEthernet	GigabitEthernet
<port_id>	Port ID in (1/1-52)
<vlan_id>	Select a VLAN id to configure (1-4095)
<mac_ucast>	Select a MAC address to configure
<ipv4_ucast>	Select an IP Address to configure (X.X.X.X)
<vlan_list>	arp inspection vlan list (1-4095)
logging	ARP inspection vlan logging mode config
all	log all entries
deny	log denied entries
permit	log permitted entries
pool	DHCP server pool
relay	DHCP relay
snooping	DHCP snooping
<vlan_id>	VLAN id of DHCP server pool (1-4095)
information	DHCP information option <Option 82>
option	DHCP option 82
policy	Policy for handling the receiving DHCP packet already include the information option
drop	Drop the package
keep	Keep the original relay information
replace	Replace the original relay information
<ipv4_ucast>	IP Address (X.X.X.X)
snooping	Snooping IGMP
host-proxy	IGMP proxy configuration
unknown-flooding	Flooding unregistered IPv4 multicast traffic
ssm-range	IPv4 address range of Source Specific Multicast
<ipv4_mcast>	Valid IPv4 multicast address (X.X.X.X)
<4-32>	Prefix length ranges from 4 to 32
<ipv4_ucast>	A valid IPv4 unicast address (X.X.X.X)
dhcp	Dynamic Host Configuration Protocol
interface	Select an interface to configure
vlan	VLAN Interface
<vlan_id>	VLAN identifier(s): VID (1-4095)



CHAPTER 4: CONFIGURE COMMANDS OF CLI

<ipv4_addr>	Network (X.X.X.X)
<ipv4_netmask>	Netmask (X.X.X.X)
<ipv4_ucast>	Gateway (X.X.X.X)
binding	ip source binding
interface	ip source binding entry interface config
<ipv4_ucast>	Select an unicast IP address to configure (X.X.X.X)
<mac_ucast>	Select an unicast MAC address to configure
source	verify source

EXAMPLE

```
LGB1152A(config)# ip arp inspection
LGB1152A(config)# ip dhcp relay
LGB1152A(config)# ip helper-address 192.168.1.1
LGB1152A(config)# ip name-server 192.168.1.6
LGB1152A(config)# ip route 192.168.1.1 255.255.255.0 192.168.1.100
LGB1152A(config)# ip verify source
IP Source Guard: Translate 0 dynamic entries into static entries.
```

4.1.20 IPMC

IPv4/IPv6 multicast configuration

SYNTAX

ipmc profile word16

ipmc range word16 [<ipv4_mcast> | <ipv6_mcast>]

ipmc mode

PARAMETER

profile	Ipmc profile provides the rules for specific group addresses.
range	A range of IPv4/IPv6 multicast addresses for the profile
mode	IPMC profile mode
word16	Profile name in 16 char's (word16)
word16	Range entry name in 16 char's (word16)
<ipv4_mcast>	Valid IPv4 multicast address
<ipv6_mcast>	Valid IPv6 multicast address

CHAPTER 4: CONFIGURE COMMANDS OF CLI

EXAMPLE

```
LGB1152A(config)# ipmc profile test
LGB1152A(config-ipmc-profile)#
```

4.1.21 IPV6

IPv6 configuration commands

SYNTAX

ipv6 mld host-proxy

ipv6 mld snooping

ipv6 mld ssm-range <ipv6_mcast> Unsigned integer

ipv6 mld unknown-flooding

PARAMETER

mld	Multicasat Listener Discovery
host-proxy	MLD proxy configuration
snooping	Snooping MLD
ssm-range	IPv6 address range of Source Specific Multicast
unknown-flooding	Flooding unregistered IPv6 multicast traffic
<ipv6_mcast>	Valid IPv6 multicast address (X:X:X:X:X:X)
Unsigned integer	Prefix length ranges from 4 to 32

EXAMPLE

```
LGB1152A(config)# ipv6 mld host-proxy
LGB1152A(config)# ipv6 mld snooping
LGB1152A(config)#
```



CHAPTER 4: CONFIGURE COMMANDS OF CLI

4.1.22 LACP

Lacp system configuration

SYNTAX

lacp system-priority <1-65535>

PARAMETER

system-priority	System priority
<1-65535>	Aggregation group number (1..65535)

EXAMPLE

```
LGB1152A(config)# lacp system-priority 333
LGB1152A(config)#
```

4.1.23 LINE

Configure a terminal line

SYNTAX

line { <0-16> | console 0 | vty <0-15> }

PARAMETER

<0-16>	List of line numbers
console	Console terminal line
0	Console Line number
vtty	Virtual terminal
<0-15>	List of vty numbers

EXAMPLE

```
LGB1152A(config)# line console 0
LGB1152A(config-line)#
```

CHAPTER 4: CONFIGURE COMMANDS OF CLI

4.1.24 LLDP

LLDP configurations

SYNTAX

lldp holdtime <2-10>

lldp med datum [wgs84 | nad83_navd88 | nad83_mllw]

lldp med fast <1-10>

lldp med location-tlv altitude [meters | floors] <-32767-32767>

lldp med location-tlv civic-addr [country | state | county | city | district | block | street | leading-street-direction | trailing-street-suffix | street-suffix | house-no | house-no-suffix | landmark | additional-info | name | zip-code | building | apartment | floor | room-number | place-type | postal-community-name | p-o-box | additional-code] [word50 | word2]

lldp med location-tlv elin-addr <phone_call_str>

lldp med location-tlv latitude [north | south] <0-90>

lldp med location-tlv longitude [west | east] <0-180>

lldp med media-vlan-policy <0-31> { voice | voice-signaling | guest-voice-signaling | guest-voice | softphone-voice | video-conferencing | streaming-video | video-signaling } { tagged <1-4095> | untagged } [l2-priority <0-7>] [dscp <0-63>]

lldp reinit <1-10>

lldp timer <5-32768>

lldp transmission-delay <1-8192>

PARAMETER

holdtime	Sets LLDP hold time
med	Media Endpoint Discovery.
reinit	Sets LLDP reinit time
timer	Sets LLDP TX interval
transmission-delay	Sets LLDP transmission-delay.
<2-10>	The neighbor switch will discarded the LLDP information after hold time multiplied with timer seconds (2..10)
datum	Datum type
fast	Number of times to repeat LLDP frame transmission at fast start
location-tlv	LLDP-MED Location Type Length Value parameter
media-vlan-policy	Use the media-vlan-policy to create a policy, which can be assigned to an interface
nad83_mllw	Mean lower low water datum 1983
nad83_navd88	North American vertical datum 1983
wgs84	World Geodetic System 1984
<1-10>	Fast start repeat count (1..10)
altitude	Altitude parameter
civic-addr	Civic address information and postal information
elin-addr	Emergency Location Identification Number



CHAPTER 4: CONFIGURE COMMANDS OF CLI

latitude	Latitude parameter
longitude	Longitude parameter
meter	Specify the altitude in meters
floors	Specify the altitude in floor
<-32767-32767>	Specify the altitude in floor (-32767..32767)
<-32767-32767>	Specify the altitude in meters (-32767..32767)
country	The two-letter ISO 3166 country code in capital ASCII letters
word2	Example: DK, DE or US (word2) (for country)
state	National subdivisions
word50	state, canton, region, province, prefecture (word50) (for state)
county	County, parish, gun (Japan), district
word50	County, parish, gun (Japan), district (word50) (for county)
city	City, township, shi (Japan) - Example: Copenhagen
word50	City, township, shi (Japan) - Example:Copenhagen (word50) (for city)
district	City division, borough, city district, ward, chou (Japan)
word50	City division, borough, city district, ward, chou (Japan) (word50) (for district)
block	Neighborhood, block
word50	Neighborhood, block (word50) (for block)
street	Street
word50	Example: Poppelvej (word50) (for street)
leading-street-direction	Leading street direction
word50	Example: N (word50) (for leading-street-direction)
trailing-street-suffix	Trailing street suffix
word50	Example: SW (word50) (for trailing-street-suffix)
street-suffix	Street suffix – Example
word50	Example: Ave, Platz (word50) (for street-suffix)
house-no	House number
word50	Example: 21 (word50) (for house-no)
house-no-suffix	House number suffix
word50	Example: A, 1/2 (word50) (for house-no-suffix)
landmark	Landmark or vanity address
word50	Example: Columbia University (word50) (for landmark)
additional-info	Additional location info
word50	Example: South Wing (word50) (for additional-info)
name	Name (residence and office occupant)
word50	Example: Flemming Jahn (word50) (for name)
zip-code	Postal/zip code
word50	Example: 2791 (word50) (for zip-code)

CHAPTER 4: CONFIGURE COMMANDS OF CLI

building	Building (structure)
word50	Example: Low Library (word50) (for building)
apartment	Unit (Apartment, suite)
word50	Example: Apt 42 (word50) (for apartment)
floor	Floor
word50	Example: 4 (word50) (for floor)
room-number	Room number
word50	Example: 450F (word50) (for room-number)
place-type	Place type
word50	Example: Office (word50) (for place-type)
postal-community-name	Postal community name
word50	Example: Leonia. (word50) (for postal-community-name)
p-o-box	Post office box (P.O. BOX)
word50	Example: 12345 (word50) (for p-o-box)
additional-code	Additional code
word50	Example: 1320300003 (word50) (for additional-code)
<phone_call_str>	ELIN value
north	Setting latitude direction to north
south	Setting latitude direction to south
<0-90>	Setting latitude direction to south (0..90)
east	Setting longitude direction to east
west	Setting longitude direction to west
<0-180>	Setting longitude direction to east (0..180)
<0-31>	Policy id for the policy which is created.
voice	Create a voice policy.
voice-signaling	Create a voice signaling policy.
guest-voice-signaling	Create a guest voice signaling policy.
guest-voice	Create a guest voice policy.
softphone-voice	Create a softphone voice policy.
video-conferencing	Create a video conferencing policy.
streaming-video	Create a streaming video policy.
video-signaling	Create a video signaling policy.
tagged	The policy uses tagged frames.
untagged	The policy uses un-tagged frames
<1-4095>	The VLAN the policy uses tagged frames (1..4095)
l2-priority	Layer 2 priority
<0-7>	Priority 0-7 (0..7)
dscp	Differentiated Services Code Point



CHAPTER 4: CONFIGURE COMMANDS OF CLI

<0-63>	DSCP value 0-63 (0..63)
<1-10>	LLDP tx reinitialization delay in seconds (1..10)
<5-32768>	The time between each LLDP frame transmitted in seconds (5..32768)
<1-8192>	LLDP transmission delay (1..8192)

EXAMPLE

```
LGB1152A(config)# lldp holdtime 5
LGB1152A(config)# lldp med fast 5
LGB1152A(config)# lldp reinit 3
LGB1152A(config)# lldp timer 555
LGB1152A(config)# lldp transmission-delay 333
```

Note: According to IEEE 802.1AB-clause 10.5.4.2 the transmission-delay must not be larger than LLDP timer * 0.25. LLDP timer changed to 13332

4.1.25 LOGGING

Syslog

SYNTAX

```
logging host <1-6> { <ipv4_ucast> | <hostname> }
```

```
logging on
```

PARAMETER

host	host
on	Enable syslog server
<1-6>	host number (1..6)
<hostname>	Domain name of the log server
<ipv4_ucast>	IP address of the log server (X.X.X.X)

EXAMPLE

```
LGB1152A(config)# logging host 3 192.155.3.2
LGB1152A(config)#
LGB1152A(config)# logging on
LGB1152A(config)#
```

CHAPTER 4: CONFIGURE COMMANDS OF CLI

4.1.26 LOOP PROTECT

Syslog

SYNTAX

loop-protect

loop-protect shutdown-time <10-604800>

loop-protect transmit-time <1-10>

PARAMETER

shutdown-time	Loop protection shutdown time interval
transmit-time	Loop protection transmit time interval
<10-604800>	Shutdown time in second (10..604800)
<1-10>	Transmit time in second (1..10)

EXAMPLE

```
LGB1152A(config)# loop-protect
LGB1152A(config)# loop-protect shutdown-time 333
LGB1152A(config)# loop-protect transmit-time 3
LGB1152A(config)#
```

4.1.27 MAC

MAC table entries/configuration

SYNTAX

mac address-table aging-time <10-1000000>

mac address-table static <mac_addr> vlan <vlan_id> { (interface [* | GigabitEthernet <port_id>]) | block }

PARAMETER

address-table	MAC table entries/configuration
aging-time	Mac address aging time
static	Static MAC address
<10-1000000>	Aging time in seconds (10..1000000)
<mac_addr>	48 bit MAC address: xx:xx:xx:xx:xx:xx
vlan	VLAN keyword
<vlan_id>	VLAN IDs 1-4095 (1-4095)
block	Drop the packet which MAC Address and VLAN ID is match
interface	Select an interface to configure



CHAPTER 4: CONFIGURE COMMANDS OF CLI

*	All switches or All ports
GigabitEthernet	Gigabit Ethernet port
<port_id>	Port ID in (1/1-52)

EXAMPLE

```
LGB1152A(config)# mac address-table aging-time 3333
LGB1152A(config)#
```

4.1.28 MONITOR

Monitoring different system events

SYNTAX

monitor session 1

monitor session 1 destination interface [* | GigabitEthernet] <port_id>

monitor session 1 source interface [* | GigabitEthernet] <port_list> [both | rx | tx]

monitor session 1 source interface [* | GigabitEthernet] [both | rx | tx]

PARAMETER

session	Configure a MIRROR session
<1>	MIRROR session number (1..1)
destination	MIRROR destination interface
source	MIRROR source interface
interface	MIRROR destination interface
*	All switches or All ports
GigabitEthernet	GigabitEthernet
<port_id>	Port ID in (1/1-52)
Interface	MIRROR source interface
<port_list>	Port List S/X-Y,Z (1/1-52)
both	Mirror both ingress and egress traffic.
rx	Mirror ingress traffic.
tx	Mirror egress traffic

EXAMPLE

```
LGB1152A(config)# monitor session 1 destination interface GigabitEthernet 1/9
LGB1152A(config)# monitor session 1 source interface GigabitEthernet 1/5 both
LGB1152A(config)#
```

CHAPTER 4: CONFIGURE COMMANDS OF CLI

4.1.29 MVR

MVR multicast VLAN list

SYNTAX

mvr

mvr vlan <vlan_list> name word16

mvr vlan <vlan_list> channel word16

mvr vlan <vlan_list> frame priority <Priority : 0-7>

mvr vlan <vlan_list> frame tagged untagged/tagged

mvr vlan <vlan_list> igmp-address <ipv4_addr>

mvr vlan <vlan_list> last-member-query-interval <Range : 0-31744 tenths of seconds>

mvr vlan <vlan_list> mode [dynamic | compatible]

PARAMETER

vlan	MVR multicast vlan list
<vlan_list>	MVR multicast VLAN list (1-4095)
name	MVR multicast name
frame	MVR control frame in TX
mode	MVR mode of operation
last-member-query-interval	Last Member Query Interval in tenths of seconds
channel	MVR channel configuration
igmp-address	MVR address configuration used in IGMP
word16	Range entry name in 16 char's (word16)
word16	Profile name in 16 char's (word16)
priority	Interface CoS priority
tagged	Tagged IGMP/MLD frames will be sent
<Priority : 0-7>	Range : 0-7 (0..7)
untagged/tagged	tagged mode
<ipv4_addr>	A valid IPv4 unicast address (X.X.X.X)
<Range : 0-31744 tenths of seconds>	Last Member Query Interval in tenths of seconds (0..31744)
compatible	Compatible MVR operation mode
dynamic	Dynamic MVR operation mode MVR mode of operation

EXAMPLE

```
LGB1152A(config)# mvr vlan 10 mode dynamic
LGB1152A(config)#
```



CHAPTER 4: CONFIGURE COMMANDS OF CLI

4.1.30 MVRP

Enable MVRP feature globally

SYNTAX

mvrp managed

mvrp managed vlan <vlan_list>

mvrp managed vlan (add | except | remove) <vlan_list>

mvrp managed vlan (all | none)

PARAMETER

managed	Set list of MVRP-managed VLANs
vlan	Set managed VLANs of MVRP
<vlan_list>	VLAN IDs of the managed VLANs of MVRP
add	Add VLANs to the current list
all	All VLANs
except	All VLANs except the following
none	No VLANs
remove	Remove VLANs from the current list

EXAMPLE

```
LGB1152A(config)# mvrp managed vlan all
LGB1152A(config)#
```

CHAPTER 4: CONFIGURE COMMANDS OF CLI

4.1.31 NO

Negate a command or set its defaults

TABLE 4-2. CONFIGURE – NO COMMANDS

COMMAND	FUNCTION
aaa	Authentication, Authorization and Accounting
access	Access management
access-list	Access list
aggregation	Aggregation mode
banner	Define a login banner
clock	Configure time-of-day clock
default	Set a command to its defaults
dms	DMS mode
do	To run exec commands in config mode
dot1x	IEEE Standard for port-based Network Access Control
enable	Modify enable password parameters
green ethernet	Green Ethernet (power reduction)
gvrp	Enable GVRP feature
hostname	Set system's network name
interface	Select an interface to configure
ip	Internet Protocol
ipmc	IPv4/IPv6 multicast configuration
ipv6	IPv6 configuration commands
lACP	LACP settings
lldp	LLDP configurations
logging	Syslog
loop-protect	Loop protection configuration
mac	MAC table entries/configuration
monitor	Set monitor configuration
mvr	Multicast VLAN Registration configuration
ntp	Configure NTP
port-security	Enable/disable port security globally
Privilege	Command privilege parameters
prompt	Set prompt
qos	Quality of Service
radius-server	Configure RADIUS
rmon	Remote Monitoring
sflow	Statistics flow
snmp-server	Enable SNMP server
spanning-tree	Spanning Tree protocol
svi	Unmap Shared VLAN Learning for a range or all FID



CHAPTER 4: CONFIGURE COMMANDS OF CLI

TABLE 4-2 (CONTINUED). CONFIGURE – NO COMMANDS

COMMAND	FUNCTION
switch2go-management	SwitchAlert Management configuration
system	Set the SNMP server's configurations
tacacs-server	Configure TACACS+
udld	Disable UDLD configurations on all fiber-optic ports
upnp	Set UPnP's configurations
username	Establish User Name Authentication
vlan	Vlan commands
voice	Voice appliance attributes

AAA

Authentication, Authorization and Accounting

SYNTAX

no aaa authentication login [telnet | ssh | http]

no aaa authentication service-port [ssh | telnet | http | https]

no aaa authentication redirect

no aaa authorization [ssh | telnet]

no aaa accounting [ssh | telnet]

PARAMETER

authentication	Authentication
authorization	Authorization
accounting	Accounting
login	Login
service-port	Service port
redirect	HTTP redirect HTTPS
http	Configure HTTP
ssh	Configure SSH
telnet	Configure Telnet
https	Configure HTTPS
telnet	telnet
ssh	ssh

EXAMPLE

```
LGB1152A(config)# no aaa authentication login ssh
LGB1152A(config)#
```

CHAPTER 4: CONFIGURE COMMANDS OF CLI

ACCESS

Access management

SYNTAX

no access management <1-16>]

no access management

PARAMETER

management	Access management configuration
<1-16>	ID of access management entry (1..16)

EXAMPLE

```
LGB1152A(config)# no access management
LGB1152A(config)#
```

ACCESS LIST

Access list

SYNTAX

no access-list ace <1-384>

PARAMETER

ace	Access list entry
<1-384>	ACE ID (1-384)

EXAMPLE

```
LGB1152A(config)# no access-list ace 1
LGB1152A(config)#
```



CHAPTER 4: CONFIGURE COMMANDS OF CLI

AGGREGATION

Aggregation mode

SYNTAX

no aggregation mode

PARAMETER

mode Traffic distribution mode

EXAMPLE

```
LGB1152A(config)# no aggregation mode
LGB1152A(config)#
```

BANNER

Define a banner

SYNTAX

no banner [motd]

no banner exec

no banner login

PARAMETER

exec Set EXEC process creation banner

login Set login banner

motd Set Message of the Day banner

EXAMPLE

```
LGB1152A(config)# no banner login
LGB1152A(config)#
```

CHAPTER 4: CONFIGURE COMMANDS OF CLI

CLOCK

Configure time-of-day clock

SYNTAX

no clock summer-time

no clock timezone

PARAMETER

summer-time Configure summer (daylight savings) time

timezone Configure time zone

EXAMPLE

```
LGB1152A(config)# no clock summer-time
LGB1152A(config)# no clock timezone
LGB1152A(config)#
```

DOT1X

IEEE Standard for port-based Network Access Control

SYNTAX

no dot1x authentication timer re-authenticate

no dot1x feature guest-vlan

no dot1x guest-vlan

no dot1x guest-vlan supplicant

no dot1x max-reauth-req

no dot1x re-authentication

no dot1x system-auth-control

no dot1x timeout tx-period

PARAMETER

authentication Authentication

feature Globally enables/disables a dot1x feature functionality

guest-vlan Guest VLAN

max-reauth-req The number of time a Request Identity EAPOL frame is sent without response before considering entering the Guest VLAN

re-authentication Set Re-authentication state

system-auth-control Set the global NAS state



CHAPTER 4: CONFIGURE COMMANDS OF CLI

timeout	timeout
timer	timer
re-authenticate	The period between re-authentication attempts in seconds
guest-vlan	Globally enables/disables state of guest-vlan
supplicant	The switch remembers if an EAPOL frame has been received on the port for the life-time of the port. Once the switch considers whether to enter the Guest VLAN, it will first check if this option is enabled or disabled. If disabled (unchecked; default), the switch will only enter the Guest
tx-period	The time between EAPOL retransmissions

EXAMPLE

```
LGB1152A(config)# no dot1x authentication timer re-authenticate
LGB1152A(config)# no dot1x guest-vlan supplicant
LGB1152A(config)# no dot1x max-reauth-req
LGB1152A(config)# no dot1x re-authentication
LGB1152A(config)# no dot1x system-auth-control
LGB1152A(config)# no dot1x timeout tx-period
LGB1152A(config)#
```

ENABLE

Modify enable password parameters

SYNTAX

no enable password [level <1-15>]

no enable secret [0|5 { level <1-15> }]

PARAMETER

password	Assign the privileged level clear password
secret	Assign the privileged level secret
0	Specifies an UNENCRYPTED password will follow
5	Specifies an ENCRYPTED password will follow
level	Set exec level password
<1-15>	Level number

EXAMPLE

```
LGB1152A(config)# no enable secret level 15
LGB1152A(config)# no enable password level 15
LGB1152A(config)#
```

CHAPTER 4: CONFIGURE COMMANDS OF CLI

GREEN ETHERNET

Green ethernet (Power reduction)

SYNTAX

no green-ethernet eee optimize-for-power

PARAMETER

eee Powering down of PHYs when there is no traffic.
optimize-for-power Set if EEE shall be optimized for least power consumption (else optimized for least traffic latency).

EXAMPLE

```
LGB1152A(config)# no green-ethernet eee optimize-for-power
LGB1152A(config)#
```

GVRP

Enable GVRP feature

SYNTAX

gvrp
gvrp max-vlans <maxvlans>
gvrp time { [join-time <jointime>] [leave-time <leavetime>] [leave-all-time <leavealltime>] }*1

PARAMETER

max-vlans Number of simultaneously VLANs that GVRP can control
time Config GARP protocol timer parameters. IEEE 802.1D-2004, clause 12.11.
join-time Set GARP protocol parameter JoinTime. See IEEE 802.1D-2004, clause 12.11
leave-all-time Set GARP protocol parameter LeaveAllTime. See IEEE 802.1D-2004, clause 12.11
leave-time Set GARP protocol parameter LeaveTime. See IEEE 802.1D-2004, clause 12.11

EXAMPLE

```
LGB1152A(config)# no gvrp max-vlans 1
LGB1152A(config)#no gvrp time join-time 10
LGB1152A(config)#no gvrp time leave-all-time 2000
LGB1152A(config)#no gvrp time leave-time 70
LGB1152A(config)#
```



CHAPTER 4: CONFIGURE COMMANDS OF CLI

HOSTNAME

Set system's network name

SYNTAX

no hostname

EXAMPLE

```
LGB1152A(config)# no hostname
LGB1152A(config)#
```

INTERFACE

Select an interface to configure

SYNTAX

no interface vlan <vlan_list>

PARAMETER

vlan	Vlan interface configurations
<vlan_list>	List of VLAN interface numbers, 1~4094 (1-4095)

EXAMPLE

```
LGB1152A(config)# no interface vlan 10
LGB1152A(config)#
```

INTERNET PROTOCOL

Internet Protocol

SYNTAX

no ip arp inspection
no ip arp inspection entry interface { * | [Gigabitethernet <port_id>] } <vlan_id> <mac_ucast> <ipv4_ucast>
no ip arp inspection vlan <vlan_list> logging
no dhcp pool <vlan_id>
no ip dhcp relay information [option | policy]
no ip dhcp relay
no ip dhcp snooping

CHAPTER 4: CONFIGURE COMMANDS OF CLI

```
no ip helper-address
no ip igmp host-proxy
no ip igmp snooping
no ip igmp unknown-flooding
no ip name-server
no ip route <ipv4_addr> <ipv4_netmask> <ipv4_ucast>
no ip source binding interface { [ * | GigabitEthernet ] <port_id> <ipv4_ucast> <mac_ucast> }
no ip verify source
```

PARAMETER

arp	Address Resolution Protocol
dhcp	Dynamic Host Configuration Protocol
helper-address	DHCP helper server address
igmp	set igmp
name-server	Domain Name System
route	Add IP route
source	source command
verify	verify command
inspection	ARP inspection
entry	arp inspection entry
vlan	arp inspection vlan setting
interface	Select an interface to configure
GigabitEthernet	GigabitEthernetPort
*	All switches or All ports
<port_id>	Port ID in (1/1-52)
<vlan_id>	Select a VLAN id to configure (1-4095)
<mac_ucast>	Select a MAC address to configure
<ipv4_ucast>	Select an IP Address to configure (X.X.X.X)
<vlan_list>	arp inspection vlan list (1-4095)
logging	ARP inspection vlan logging mode config
pool	DHCP server pool
relay	DHCP relay
snooping	DHCP snooping
<vlan_id>	VLAN id of DHCP server pool (1-4095)
information	DHCP information option(Option 82)
option	DHCP option 82
policy	Policy for handling the receiving DHCP packet already include the information option
host-proxy	IGMP proxy configuration



CHAPTER 4: CONFIGURE COMMANDS OF CLI

snooping	Snooping IGMP
unknown-flooding	Flooding unregistered IPv4 multicast traffic
<ipv4_addr>	Network (X.X.X.X)
<ipv4_netmask>	Netmask (X.X.X.X)
<ipv4_ucast>	Gateway (X.X.X.X)
binding	ip source binding
interface	ip source binding entry interface config
<ipv4_ucast>	Select an unicast IP address to configure (X.X.X.X)
<mac_ucast>	Select an unicast MAC address to configure
source	verify source

EXAMPLE

```
LGB1152A(config)# no ip arp inspection vlan 3 logging
LGB1152A(config)# no ip helper-address
LGB1152A(config)# no ip igmp snooping
LGB1152A(config)# no ip name-server
LGB1152A(config)# no ip verify source
LGB1152A(config)#
```

IPMC

IPv4/IPv6 multicast configuration

SYNTAX

no mode

no ipmc profile word16

no ipmc range word16

PARAMETER

profile	IPMC profile configuration
range	A range of IPv4/IPv6 multicast addresses for the profile
mode	IPMC profile mode
word16	Range entry name in 16 char's (word16)
word16	Profile name in 16 char's (word16)



CHAPTER 4: CONFIGURE COMMANDS OF CLI

EXAMPLE

```
LGB1152A(config)# no ipmc profile aa
LGB1152A(config)#
```

IPV6

IPv6 configuration commands

SYNTAX

no ipv6 mld host-proxy

no ipv6 mld snooping

no ipv6 mld unknown-flooding

PARAMETER

mld	Multicasat Listener Discovery
host-proxy	MLD proxy configuration
snooping	Snooping MLD
unknown-flooding	Flooding unregistered IPv6 multicast traffic

EXAMPLE

```
LGB1152A(config)# no ipv6 mld snooping
LGB1152A(config)#
```

LACP

Lacp system configuration

SYNTAX

no lacp system-priority

PARAMETER

system-priority	System priority
-----------------	-----------------

EXAMPLE

```
LGB1152A(config)# no lacp system-priority
LGB1152A(config)#
```



CHAPTER 4: CONFIGURE COMMANDS OF CLI

LLDP

LLDP configuration

SYNTAX

no lldp holdtime

no lldp med datum

no lldp med fast

no lldp med location-tlv altitude

no lldp med location-tlv civic-addr [country | state | county | city | district | block | street | leading-street-direction | trailing-street-suffix | street-suffix | house-no | house-no-suffix | landmark | additional-info | name | zip-code | building | apartment | floor | room-number | place-type | postal-community-name | p-o-box | additional-code]

no lldp med location-tlv elin-addr

no lldp med location-tlv latitude

no lldp med location-tlv longitude

no lldp med media-vlan-policy <0~31>

no lldp reinit

no lldp timer

no lldp transmission-delay

PARAMETER

holdtime	LLDP hold time
med	Media Endpoint Discovery
reinit	LLDP reinit time
timer	LLDP TX interval
transmission-delay	LLDP transmission-delay
datum	datum typa
fast	Number of times to repeat LLDP frame transmission at fast start
location-tlv	LLDP-MED Location Type Length Value parameter
media-vlan-policy	Use the media-vlan-policy to create a policy, which can be assigned to an interface
altitude	Altitude parameter
latitude	Latitude parameter
longitude	Longitude parameter
elin-addr	Emergency Location Identification Number
civic-addr	Civic address information and postal information
country	The two-letter ISO 3166 country code in capital ASCII letters
state	National subdivisions
county	County, parish, gun (Japan), district
city	City, township, shi (Japan) - Example: Copenhagen
district	City division, borough, city district, ward, chou (Japan)

CHAPTER 4: CONFIGURE COMMANDS OF CLI

block	Neighborhood, block
street	Street
leading-street-direction	Leading street direction
trailing-street-suffix	Trailing street suffix
street-suffix	Street suffix
house-no	House number
house-no-suffix	House number suffix
landmark	Landmark or vanity address
additional-info	Additional location info
name	Name (residence and office occupant)
zip-code	Postal/zip code
building	Building (structure)
apartment	Unit (Apartment, suite)
floor	Floor
room-number	Room number
place-type	Place type
postal-community-name	Postal community name
p-o-box	Post office box (P.O. BOX)
additional-code	Additional code
<0~31>	Policy id for the policy which is created (0..31)

EXAMPLE

```
LGB1152A(config)# no lldp holdtime
LGB1152A(config)# no lldp med location-tlv civic-addr floor
LGB1152A(config)# no lldp reinit
LGB1152A(config)# no lldp timer
LGB1152A(config)# no lldp transmission-delay
LGB1152A(config)#
```



CHAPTER 4: CONFIGURE COMMANDS OF CLI

LOGGING

Syslog

SYNTAX

no logging host <1-6>

no logging on

PARAMETER

host	host
on	Enable syslog server
<1-6>	host number (1..6)

EXAMPLE

```
LGB1152A(config)# no logging host 3
LGB1152A(config)# no logging on
LGB1152A(config)#
```

LOOP PROTECT

Loop protection configuration

SYNTAX

no loop-protect

no loop-protect shutdown-time

no loop-protect transmit-time

PARAMETER

shutdown-time	Loop protection shutdown time interval
transmit-time	Loop protection transmit time interval

EXAMPLE

```
LGB1152A(config)# no loop-protect shutdown-time
LGB1152A(config)# no loop-protect transmit-time
LGB1152A(config)#
```

CHAPTER 4: CONFIGURE COMMANDS OF CLI

MAC

MAC table entries/configuration

SYNTAX

no mac address-table aging-time

no mac address-table static <mac_addr> vlan <vlan_id>

no mac address-table static <mac_addr>

PARAMETER

address-table	Mac table entries configuration/table
aging-time	Mac address aging time
static	Static MAC address
<mac_addr>	48 bit MAC address: xx:xx:xx:xx:xx:xx
vlan	VLAN keyword
<vlan_id>	VLAN IDs 1-4095 (1-4095)

EXAMPLE

```
LGB1152A(config)# no mac address-table aging-time
LGB1152A(config)# no mac address-table static <mac_addr>
LGB1152A(config)#
```

MONITOR

Monitoring different system events

SYNTAX

no monitor session <1>

no monitor session <1> destination

no monitor session <1> source interface [* | Gigabitethernet] <port_list> [both | rx | tx

PARAMETER

session	Configure a MIRROR session
<1>	MIRROR session number (1..1)
destination	MIRROR destination interface
source	MIRROR source interface
interface	Mirror source Interface
*	All switches or All ports
Gigabitethernet	GigabitEthernet



CHAPTER 4: CONFIGURE COMMANDS OF CLI

<port_list>	Port List S/X-Y,Z (1/1-52)
both	Mirror both ingress and egress traffic.
rx	Mirror ingress traffic.
tx	Mirror egress traffic.

EXAMPLE

```
LGB1152A(config)# no monitor session 1 destination
LGB1152A(config)# no monitor session 1 source interface
GigabitEthernet 1/5 both
LGB1152A(config)#
```

MVR

Multicast VLAN Registration configuration

SYNTAX

no mvr

EXAMPLE

```
LGB1152A(config)# no mvr
LGB1152A(config)#
```

MVRP

none

SYNTAX

no mvrp

EXAMPLE

```
LGB1152A(config)# no mvrp
LGB1152A(config)#
```

CHAPTER 4: CONFIGURE COMMANDS OF CLI

NTP

Configure NTP

SYNTAX

no ntp

no ntp server <1-6>

no ntp interval

PARAMETER

server Configure NTP server

interval Configure NTP interval

<1-6> index number (1..6)

EXAMPLE

```
LGB1152A(config)# no ntp server 2
LGB1152A(config)#
```

PORT SECURITY

Enable/disable port security globally

SYNTAX

no port-security

EXAMPLE

```
LGB1152A(config)# no port-security
LGB1152A(config)#
```



CHAPTER 4: CONFIGURE COMMANDS OF CLI

PRIVILEGE

Privilege level

SYNTAX

```
no privilege group [ access-mgmt | arp-inspection | auth-method | dhcp-relay | dhcp-snooping | diagnostic | dot1x | eee | event |  
forward-failure | ip | ipmc | ip-source-guard | lacp | lldp | loop-protection | mac-table | mirror | mvr | port | port-security | qos | radius |  
snmp | stp | system | upnp | vlan ] level
```

```
no privilege group level
```

PARAMETER

group Privilege group name

<group> Privilege group name (access-mgmt / arp-inspection / auth-method / dhcp-relay / dhcp-snooping / diagnostic / dot1x / eee / event / forward-failure / ip / ipmc / ip-source-guard / lacp / lldp / loop-protection / mac-table / mirror / mvr / port / port-security / qos / radius / snmp / stp / system / upnp / vlan)

level Privilege group level

EXAMPLE

```
LGB1152A(config)# no privilege group access-mgmt level  
LGB1152A(config)#
```

PROMPT

Default the prompt to %h

SYNTAX

```
no prompt
```

PARAMETER

none

EXAMPLE

```
LGB1152A(config)# no prompt  
LGB1152A(config)#
```

CHAPTER 4: CONFIGURE COMMANDS OF CLI

QOS

Quality of Service

SYNTAX

```
no qos map cos-queue
no qos map cos-queue <0-7>
no qos map dscp-queue
no qos map dscp-queue <0-63>
no qos map precedence-queue
no qos map precedence-queue <0-7>
no qos map queue-cos
no qos map queue-cos <0-7>
no qos map queue-dscp
no qos map queue-dscp <0-7>
no qos map queue-precedence
no qos map queue-precedence <0-7>
no qos trust
```

PARAMETER

map	QoS Global Map/Table
trust	Restore global trust mode to default value
cos-queue	Map for CoS to queue
dscp-queue	Map for DSCP to queue
precedence-queue	Map for IP Precedence to queue
queue-cos	Map for queue to CoS
queue-dscp	Map for queue to DSCP
queue-precedence	Map for queue to IP Precedence
<0-7>	Specify class of service (0..7)
<0-63>	Specify DSCP (0..63)
<0-7>	Specify IP Precedence (0..7)
<0-7>	The queue number for mapping to a specific CoS value (0..7)
<0-7>	The queue number for mapping to a specific DSCP value (0..7)
<0-7>	The queue number for mapping to a specific IP Precedence value (0..7)

EXAMPLE

```
LGB1152A(config)# no qos map cos-queue 3
LGB1152A(config)#
```



CHAPTER 4: CONFIGURE COMMANDS OF CLI

RADIUS SERVER

Configure RADIUS

SYNTAX

no radius-server attribute [32 | 4 | 95]

no radius-server deadline

no radius-server host word255

no radius-server host word255 [acct-port <AcctPort : 0-65535>]

no radius-server host word255 [auth-port <AuthPort : 0-65535>]

no radius-server host word255 [auth-port <AuthPort : 0-65535>] [acct-port <AcctPort : 0-65535>]

no radius-server key

no radius-server retransmit

no radius-server timeout

PARAMETER

attribute

deadline Time to stop using a RADIUS server that doesn't respond

host Specify a RADIUS server

key Set RADIUS encryption key

retransmit Specify the number of retries to active server

timeout Time to wait for a RADIUS server to reply

32

4

95

word255 Hostname or IP address (word255)

acct-port UDP port for RADIUS accounting server

auth-port UDP port for RADIUS authentication server

<AcctPort : 0-65535> UDP port number (0..65535)

<AuthPort : 0-65535> UDP port number (0..65535)

EXAMPLE

```
LGB1152A(config)# no radius-server attribute 4
LGB1152A(config)# no radius-server deadline
LGB1152A(config)# no radius-server key
LGB1152A(config)# no radius-server retransmit
LGB1152A(config)# no radius-server timeout
LGB1152A(config)# no radius-server host aa auth-port 3 acct-port 3
LGB1152A(config)#
```

CHAPTER 4: CONFIGURE COMMANDS OF CLI

RMON

Remote Monitoring

SYNTAX

```
no rmon ( alarm | event ) <1-65535>
```

PARAMETER

alarm	Configure an RMON alarm
event	Configure an RMON event
<1-65535>	Alarm entry ID (1..65535)
<1-65535>	Event entry ID (1..65535)

EXAMPLE

```
LGB1152A(config)# no rmon alarm 1000  
LGB1152A(config)#
```

SFLOW

Statistics flow

SYNTAX

```
no sflow agent-ip  
no sflow collector-address  
no sflow collector-port  
no sflow max-datagram-size  
no sflow timeout
```

PARAMETER

agent-ip	Sets the agent IP address used as agent-address in UDP datagrams to 127.0.0.1.
collector-address	Collector address
collector-port	Collector UDP port
max-datagram-size	Maximum datagram size.
timeout	Receiver timeout measured in seconds. The switch decrements the timeout once per second, and as long as it is non-zero, the receiver receives samples. Once the timeout reaches 0, the receiver and all its configuration is reset to defaults.



CHAPTER 4: CONFIGURE COMMANDS OF CLI

EXAMPLE

```
LGB1152A(config)# no sflow agent-ip
LGB1152A(config)# no sflow collector-address
LGB1152A(config)# no sflow collector-port
LGB1152A(config)# no sflow max-datagram-size
LGB1152A(config)# no sflow timeout
LGB1152A(config)#
```

SNMP SERVER

Set SNMP server's configuration

SYNTAX

no snmp-server access <Groupname : word32> model [v1 | v2c | v3 | any] level [auth | noauth | priv]

no snmp-server community { v2c | write-mode | [v3 <Community : word127>] }

no snmp-server security-to-group model { v1 | v2c | v3 } name <Securityname : word32>

no snmp-server user <Username : word32>

no snmp-server view <Viewname : word32> <Oidsubtree : word128>

PARAMETER

access	access configuration
community	Set the SNMP community
security-to-group	security-to-group configuration
user	Set the SNMPv3 user's configurations
view	MIB view configuration
<Groupname : word32>	group name (word32)
model	security model
v1	v1 security model
v2c	v2c security model
v3	v3 security model
any	any security model
level	security level
auth	authNoPriv Security Level
noauth	noAuthNoPriv Security Level
priv	authPriv Security Level
write-mode	SNMPv2c write mode
v2c	SNMPv2c

CHAPTER 4: CONFIGURE COMMANDS OF CLI

v3	SNMPv3
<Community : word32>	Specify community name (word32)
model	security model
v1	v1 security model
v2c	v2c security model
v3	v3 security model
name	security user
<SecurityName : word32>	security user name (word32)
<Username : word32>	Security user name (word32)
<Viewname : word32>	MIB view name (word32)
<Oidsubtree : word128>	MIB view OID (word128)

EXAMPLE

```
LGB1152A(config)# no snmp-server access 333 model any level auth
LGB1152A(config)# no snmp-server community v2c
LGB1152A(config)# no snmp-server security-to-group model v2c name 132
LGB1152A(config)# no snmp-server View aa a
LGB1152A(config)#
```

SPANNING TREE

Spanning Tree protocol

SYNTAX

no spanning-tree

no spanning-tree mode

no spanning-tree mst <0-4094> [priority | vlan]

no spanning-tree mst forward-time

no spanning-tree mst max-age

no spanning-tree mst max-hops

no spanning-tree mst name

PARAMETER

mode STP protocol mode

mst STP bridge instance

<0-4094> MST instance ID , 0 is for CIST (0..4094)

forward-time Delay between port states

max-age Max bridge age before timeout



CHAPTER 4: CONFIGURE COMMANDS OF CLI

max-hops	MSTP bridge max hop count
name	Name keyword
priority	Priority of the instance
vlan	VLAN keyword

EXAMPLE

```
LGB1152A(config)# no spanning-tree mode
LGB1152A(config)# no spanning-tree mst max-age
LGB1152A(config)#
```

SVL

Unmap Shared VLAN Learning for a range or all FIDs

SYNTAX

```
no svl fid [ <1~4095> | all ]
```

PARAMETER

fid	Filter ID keyword
<1~4095>	List of filter IDs to default
all	Default all Filter IDs

EXAMPLE

```
LGB1152A(config)# no svl fid all
LGB1152A(config)#
```

CHAPTER 4: CONFIGURE COMMANDS OF CLI

SWITCH2GO MANAGEMENT

SwitchAlert Management configuration

SYNTAX

```
no switch2go-management port-name interface [ * | GigabitEthernet ] <port_type_list>
```

PARAMETER

port-name	Interface specific description
interface	Select an interface to configure
*	All switches or All ports
GigabitEthernet	Gigabit Ethernet Port
<port_type_list>	Port list for all port types
<port_type_list>	Port list in 1/1-52

EXAMPLE

```
LGB1152A(config)# no switch2go-management port-name interface *  
LGB1152A(config)#
```

SYSTEM

Set the SNMP server's configurations

SYNTAX

```
no system name  
no system contact  
no system location
```

PARAMETER

name	Clear the SNMP server's system model name string
contact	Clear the SNMP server's contact string
location	Clear the SNMP server's location string

EXAMPLE

```
LGB1152A(config)# no system name  
LGB1152A(config)# no system contact  
LGB1152A(config)# no system location  
LGB1152A(config)#
```



CHAPTER 4: CONFIGURE COMMANDS OF CLI

TACACS SERVER

Configure TACACS+.

SYNTAX

```
no tacacs-server deadtime
no tacacs-server host word255
no tacacs-server host word255 port <AcctPort : 0-65535>
no tacacs-server key
no tacacs-server timeout
```

PARAMETER

deadtime	Time to stop using a TACACS+ server that doesn't respond
host	Specify a TACACS+ server
key	Set TACACS+ encryption key
timeout	Time to wait for a TACACS+ server to reply
word255	Hostname or IP address (word255)
port	UDP port for TACACS+ accounting server
<AcctPort : 0-65535>	UDP port number (0..65535)

EXAMPLE

```
LGB1152A(config)# no tacacs-server deadtime
LGB1152A(config)# no tacacs-server host 192.168.1.1 port 10000
LGB1152A(config)# no tacacs-server key
LGB1152A(config)# no tacacs-server timeout
LGB1152A(config)#
```

UDLD

Disable UDLD configurations on all fiber-optic ports

SYNTAX

```
no udld
```

PARAMETER

aggressive Disable UDLD aggressive mode on all fiber-optic interfaces.
enable Disable UDLD on all fiber-optic interfaces.

CHAPTER 4: CONFIGURE COMMANDS OF CLI

EXAMPLE

```
LGB1152A(config)# no udld enable
% Only fiber ports are allowed, port_no: 1
% Only fiber ports are allowed, port_no: 2
% Only fiber ports are allowed, port_no: 3
% Only fiber ports are allowed, port_no: 4
% Only fiber ports are allowed, port_no: 5
,
,
,
LGB1152A(config)#
```

UPNP

Configure TACACS+.

SYNTAX

```
no upnp
no upnp advertising-duration
no upnp interface-vlan
no upnp ttl
```

PARAMETER

advertising-duration	Set advertising duration
interface-vlan	Set ip-interface vlan
ttl	Set TTL value

EXAMPLE

```
LGB1152A(config)# no upnp advertising-duration
LGB1152A(config)# no upnp interface-vlan
LGB1152A(config)# no upnp ttl
LGB1152A(config)#
```



CHAPTER 4: CONFIGURE COMMANDS OF CLI

USERNAME

Establish User Name Authentication

SYNTAX

no username word31

PARAMETER

word31 User name allows letters, numbers and underscores (word31)

EXAMPLE

```
LGB1152A(config)# username aaa
LGB1152A(config)#
```

VLAN

Vlan commands

SYNTAX

no vlan ethertype s-custom-port

no vlan <vlan_list>

no vlan ip-subnet <ipv4_addr> <ipv4_netmask> vlan <vlan_id>

no vlan mac <mac_ucast> vlan <vlan_id>

no vlan protocol eth2 <ethernet value> group word16

no vlan protocol llc <dsap value > <ssap vlaue> group word16

no vlan protocol snap <snap oui> <pid value> group word16

PARAMETER

<vlan_list>	List of VLAN interface numbers, 1~4094 (1-4095)
ethertype	Ether type for Custom S-ports
ip-subnet	IP subnet based VLAN configuration
mac	MAC-based VLAN commands
protocol	Protocol-based VLAN commands
s-custom-port	Custom S-ports configuration
<ipv4_addr>	The specific ip-subnet to set. (X.X.X.X)
<ipv4_netmask>	Source IP address (X.X.X.X)
vlan	vlan keyword
<vlan_id>	VLAN ID required for the group to VLAN mapping. (1-4095)
<mac_ucast>	48 bit unicast MAC address: xx:xx:xx:xx:xx:xx

CHAPTER 4: CONFIGURE COMMANDS OF CLI

eth2	Ethernet protocol based VLAN status
llc	LLC-based VLAN group
snap	SNAP-based VLAN group
<ethernet vlaue>	Ether Type(Range: 0x600 - 0xFFFF)
group	Protocol-based VLAN group commands
word16>	Group Name (Range: 1 - 16 characters) (word16)
<dsap value>	DSAP(Range: 0x00 - 0xFF)
<ssap value>	SSAP(Range: 0x00 - 0xFF)
<snap oui>	SNAP OUI (must be 0x000000)
<pid oui>	PID (Range: 0x0000 - 0xFFFFF)

EXAMPLE

```
LGB1152A(config)# no vlan 3
LGB1152A(config)# no vlan ethertype s-custom-port
LGB1152A(config)#
```

VOICE

Vlan for voice traffic

SYNTAX

no voice vlan

no voice vlan aging-time

no voice vlan class

no voice vlan oui <oui>

no voice vlan vid <vlan_id>

PARAMETER

vlan voice_vlan_mode help

oui OUI configuration

vid Set VLAN ID

<oui> OUI configuration

<vlan_id> VLAN IDs 1-4095 (1-4095)



CHAPTER 4: CONFIGURE COMMANDS OF CLI

EXAMPLE

```
LGB1152A(config)# no voice vlan vid 3
LGB1152A(config)#
```

WEB

web

SYNTAX

no web privilege group [<group_name>] level

PARAMETER

privilege Web privilege

group Web privilege group

<CWORD> Valid words are 'Aggregation' 'Debug' 'Dhcp_Client' 'Diagnostics' 'EEE' 'GARP' 'GVRP' 'Green_Ethernet' 'IP2' 'IPMC_Snooping' 'LACP' 'LLDP' 'Loop_Protect' 'MAC_Table' 'MEP' 'MVR' 'Maintenance' 'Mirroring' 'NTP' 'Ports' 'Private_VLANs' 'QoS' 'RPC' 'Security' 'Spanning_Tree' 'System' 'Timer' 'UPnP' 'VCL' 'VLANs' 'Voice_VLAN' 'XXRP' 'sFlow'

level Web privilege group level

EXAMPLE

```
LGB1152A(config)# no web privilege group LACP level
LGB1152A(config)#
```

CHAPTER 4: CONFIGURE COMMANDS OF CLI

4.1.32 NTP

Configure NTP

SYNTAX

ntp

ntp interval <10-2880>

ntp server <1-6> ip-address <hostname>

ntp server <1-6> ip-address <ipv4_ucast>

PARAMETER

server	Configure NTP server
interval	Configure NTP interval
<1-6>	index number (1..6)
ip-address	ip address
<ipv4_ucast>	ipv4 address (x.x.x.x)
<hostname>	domain name
<10-2880>	interval val range from 10 to 2880 min. (10..2880)

EXAMPLE

```
LGB1152A(config)# ntp server 3 ip-address 192.168.1.1
LGB1152A(config)#
```

4.1.33 PORT SECURITY

Enable/disable port security globally

SYNTAX

port-security

EXAMPLE

```
LGB1152A(config)# port-security
LGB1152A(config)#
```



CHAPTER 4: CONFIGURE COMMANDS OF CLI

4.1.34 PRIVILEGE

Command privilege parameters

SYNTAX

```
privilege group <group> level ro <0-15> rw <0-15>
```

PARAMETER

group	Privilege group name
<group>	Privilege group name (access-mgmt / arp-inspection / auth-method / dhcp-relay / dhcp-snooping / diagnostic / dot1x / eee / event / forward-failure / ip / ipmc / ip-source-guard / lacp / lldp / loop-protection / mac-table / mirror / mvr / port / port-security / qos / radius / snmp / stp / system / upnp / vlan)
level	Privilege group level
ro	Read-only level
<0-15>	Privilege level (0..15)
rw	Read-write level

EXAMPLE

```
LGB1152A(config)# privilege group access-mgmt level ro 3 rw 5
LGB1152A(config)#
```

4.1.35 PROMPT

Set prompt

SYNTAX

```
prompt
```

PARAMETER

<word32> Up to 32 chars of prompt. Precede prompt variables with a percent sign (%). Prompt

variables: %h = hostname, %% = percent sign, %s = space, %t = tab, %D = date,

%T = time, %Z = date and time (like '%DT%T' but ensures atomicity in case of %T rollover)

EXAMPLE

```
LGB1152A(config)# prompt %h
LGB1152A(config)#
```

CHAPTER 4: CONFIGURE COMMANDS OF CLI

4.1.36 QOS

Quality of Service

SYNTAX

```
qos map cos-dscp <0-7> to <0-7>
```

```
qos map dscp-queue <0-63> to <0-7>
```

```
qos map precedence-queue <0-7> to <0-7>
```

```
qos map queue-cos <0-7> to <0-7>
```

```
qos map queue-dscp <0-7> to <0-63>
```

```
qos map queue-precedence <0-7> to <0-7>
```

```
qos trust cos
```

```
qos trust cos-dscp
```

```
qos trust dscp
```

```
qos trust ip-precedence
```

PARAMETER

map	QoS Global Map/Table
trust	Global trust mode configuration
cos-queue	Map for CoS to queue
dscp-queue	Map for DSCP to queue
precedence-queue	Map for IP Precedence to queue
queue-cos	Map for queue to CoS
queue-dscp	Map for queue to DSCP
queue-precedence	Map for queue to IP Precedence
<0-7>	Specify class of service (0..7)
to	Specify the queue to which the CoS will be mapped
<0-7>	The queue number to which the following CoS values are mapped (0..7)
<0-63>	Specify DSCP (0..63)
to	Specify the queue to which the DSCP will be mapped
<0-7>	The queue number to which the following DSCP values are mapped (0..7)
<0-7>	Specify IP Precedence (0..7)
to	Specify the queue to which the IP Precedence will be mapped
<0-7>	The queue number to which the following IP Precedence values are mapped (0..7)
<0-7>	The queue number for mapping to a specific CoS value (0..7)
to	Specify the CoS to which the queue will be mapped
<0-7>	Specify class of service (0..7)
<0-7>	The queue number for mapping to a specific DSCP value (0..7)
to	Specify the DSCP to which the queue will be mapped
<0-63>	Specify DSCP (0..63)



CHAPTER 4: CONFIGURE COMMANDS OF CLI

<0-7>	The queue number for mapping to a specific IP Precedence value (0..7)
to	Specify the IP Precedence to which the queue will be mapped
<0-7>	Specify IP Precedence (0..7)
cos	Prioritize packet based on the CoS/802.1p field in the VLAN tag
cos-dscp	Uses the CoS mode for non-IP packet and DSCP mode for IP packet
dscp	Prioritize packet based on the DSCP field in the IP header
ip-precedence	Prioritize packet based on the ip precedence

EXAMPLE

```
LGB1152A(config)# qos map cos-queue 3 to 5
LGB1152A(config)#
```

4.1.37 RADIUS SERVER

Configure RADIUS

SYNTAX

radius-server attribute 32 word255

radius-server attribute 4 <ipv4_ucast>

radius-server attribute 95 <ipv6_addr>

radius-server deadtime <Minutes : 1-1440>

radius-server host word255 [auth-port <Authport : 0-65535>] [acct-port <Acctport : 0-65535>] [timeout <Seconds : 1-1000>] [retransmit <Retries : 1-1000>] [key word63]

radius-server key word63

radius-server retransmit <Retries : 1-1000>

radius-server timeout <Seconds : 1-1000>

PARAMETER

Attribute

deadtime Time to stop using a RADIUS server that doesn't respond

host Specify a RADIUS server

key Set RADIUS encryption key

retransmit Specify the number of retries to active server

timeout Time to wait for a RADIUS server to reply

32

4

95

CHAPTER 4: CONFIGURE COMMANDS OF CLI

word255	(word255)
<ipv4_ucast>	(X.X.X.X)
<ipv6_addr>	(X:X:X:X:X:X:X)
<Minutes : 1-1440>	Time in minutes (1..1440)
word255	Hostname or IP address (word255)
acct-port	UDP port for RADIUS accounting server
auth-port	UDP port for RADIUS authentication server
key	Server specific key (overrides default)
retransmit	Specify the number of retries to active server (overrides default)
timeout	Time to wait for this RADIUS server to reply (overrides default)
<AuthPort : 0-65535>	UDP port number (0..65535)
<AcctPort : 0-65535>	UDP port number (0..65535)
<Seconds : 1-1000>	Wait time in seconds (1..1000)
<Retries : 1-1000>	Number of retries for a transaction (1..1000)
word63	The shared key (word63)

EXAMPLE

```
LGB1152A(config)# radius-server host device key 12
LGB1152A(config)#
```

4.1.38 RMON

Remote Monitoring

SYNTAX

```
rmon alarm <1-65535> [ ifInOctets | ifInUcastPkts | ifInNUcastPkts | ifInDiscards | ifInErrors | ifInUnknownProtos | ifOutOctets
| ifOutUcastPkts | ifOutNUcastPkts | ifOutDiscards | ifOutErrors ] <uint> <1-2147483647> [ absolute | delta ] rising-threshold
<-2147483648-2147483647> [ <0-65535> | falling-threshold ] <-2147483648-2147483647> [ <0-65535> ] { [ rising | falling | both ] }
rmon event <1-65535> [ log ] [ trap <word31> ] { [ description <word127> ] }
```

PARAMETER

alarm	Configure an RMON alarm
event	Configure an RMON event
<1-65535>	Alarm entry ID (1..65535)
ifInOctets	The total number of octets received on the interface, including framing characters
ifInUcastPkts	The number of uni-cast packets delivered to a higher-layer protocol
ifInNUcastPkts	The number of broad-cast and multi-cast packets delivered to a higher-layer protocol
ifInDiscards	The number of inbound packets that are discarded even the packets are normal



CHAPTER 4: CONFIGURE COMMANDS OF CLI

ifInErrors	The number of inbound packets that contained errors preventing them from being deliverable to a higher-layer protocol
ifInUnknownPkts	The number of the inbound packets that were discarded because of the unknown or unsupported protocol
ifOutOctets	The number of octets transmitted out of the interface , including framing characters
ifOutUcastPkts	The number of uni-cast packets that request to transmit
ifOutNUcastPkts	The number of broad-cast and multi-cast packets that request to transmit
ifOutDiscards	The number of outbound packets that are discarded event the packets is normal
ifOutErrors	The The number of outbound packets that could not be transmitted because of errors
<uint>	ifIndex(1..9)
<1-2147483647>	Sample interval(1.. 2147483647)
absolute	Test each sample directly
delta	Test delta between samples
rising-threshold	Configure the rising threshold
<-2147483648-2147483647>	rising threshold value(-2147483648..2147483647)
<0-65535>	Event to fire on rising threshold crossing(0..65535)
falling-threshold	Configure the falling threshold
<-2147483648-2147483647>	falling threshold value(-2147483648..2147483647)
rising	Trigger alarm when the first value is larger than the rising threshold
falling	Trigger alarm when the first value is less than the falling threshold
both	Trigger alarm when the first value is larger than the rising threshold or less than the falling threshold (default)
<1-65535>	Event entry ID (1..65535)
description	Specify a description of the event
log	Generate RMON log when the event fires
trap	Generate SNMP trap when the event fires
word127	Event description (word127)
word31	SNMP community string (word31)

EXAMPLE

```
LGB1152A(config)# rmon alarm 10000 ifInErrors 6 9999 absolute rising-threshold 0
falling-threshold 0 both
LGB1152A(config)#
```

CHAPTER 4: CONFIGURE COMMANDS OF CLI

4.1.39 SFLOW

Statistics flow

SYNTAX

```
sflow agent-ip { ipv4 <ipv4_addr> | ipv6 <ipv6_addr> }  
sflow collector-address{ <ipv4_addr> | <ipv6_addr> }  
sflow collector-port <1-65535>  
sflow max-datagram-size [ receiver <range_list> ] <200-1468>  
sflow timeout [ receiver <range_list> ] <0-2147483647>
```

PARAMETER

agent-ip	The agent IP address used as agent-address in UDP datagrams. Defaults to IPv4 loopback address.
ipv4	ipv4 address
ipv6	ipv6 address
<ipv4_addr>	ipv6 address
<ipv6_addr>	ipv4 address
collector-address	Collector address
collector-port	Collector UDP port
<1-65535>	Port Number
max-datagram-size	Maximum datagram size.
<200-1468>	Bytes
timeout	Receiver timeout measured in seconds. The switch decrements the timeout once per second, and as long as it is non-zero, the receiver receives samples. Once the timeout reaches 0, the receiver and all its configuration is reset to defaults.
<0-2147483647>	Number in seconds

EXAMPLE

```
LGB1152A(config)# sflow agent-ip ipv4 192.168.1.2  
LGB1152A(config)# sflow collector-port 3  
LGB1152A(config)# sflow max-datagram-size 333  
LGB1152A(config)# sflow timeout 3333  
LGB1152A(config)#
```



CHAPTER 4: CONFIGURE COMMANDS OF CLI

4.1.40 SMTP

Set email information

SYNTAX

```
smtp delete mailaddress <1-6>
```

```
smtp delete [ returnpath | sender | server | username ]
```

```
smtp mailaddress <1-6> <word47>
```

```
smtp ( returnpath | sender | server ) <word47>
```

```
smtp username <word31> <word31>
```

PARAMETER

delete	Delete command
mailaddress	Configure email address
returnpath	Configure email returnpath
sender	Configure email sender
server	Configure email server
username	Configure email user name
mailaddress	Delete email address
returnpath	Delete returnpath
sender	Delete sender
server	Delete email server
username	Delete username and password
<1-6>	Email address index
<word47>	Up to 47 characters describing mail address
<word47>	Up to 47 characters describing returnpath
<word47>	Up to 47 characters describing sender
<word47>	Up to 47 characters describing email server
<word31>	Up to 47 characters describing user name
<word31>	Configure email password

EXAMPLE

```
LGB1152A(config)# smtp delete mailaddress 1
LGB1152A(config)# smtp delete returnpath
LGB1152A(config)#
```

CHAPTER 4: CONFIGURE COMMANDS OF CLI

4.1.41 SNMP-SERVER

Set SNMP server's configuration

SYNTAX

snmp-server

TABLE 4-4. CONFIGURE – SNMP SERVER COMMANDS

COMMAND	FUNCTION
access	access configuration
community	Set the SNMP community
security to group	security to group configuration
user	Set the SNMPv3 user's configuration
view	MIB view configuration

ACCESS

access configuration

SYNTAX

snmp-server access <GroupName : word32> model [v1 | v2c | v3 | any] level [auth | noauth | priv]

PARAMETER

<GroupName : word32>	group name (word32)
model	security model
any	any security model
v1	v1 security model
v2c	v2c security model
v3	v3 security model
level	security level
auth	authNoPriv Security Level
noauth	noAuthNoPriv Security Level
priv	authPriv Security Level

EXAMPLE

```
LGB1152A(config)# snmp-server access text model v2c level noauth write text
LGB1152A(config)#
```



CHAPTER 4: CONFIGURE COMMANDS OF CLI

COMMUNITY

Set the SNMP community

SYNTAX

snmp-server community write-mode

snmp-server community v2c <Community : word32> [ro | rw]

snmp-server community v3 <Community : word32> <ipv4_ucast> <0-32>

PARAMETER

write-mode	SNMPv2c write mode
v3	SNMPv3
v2c	SNMPv2c
<Community : word32>	Specify community name (word32)
ro	Read only
rw	Read write
<ipv4_ucast>	IPv4 address (X.X.X.X)
<0-32>	IPv4 netmask (0..32)

EXAMPLE

```
LGB1152A(config)# snmp-server community v2c text ro
LGB1152A(config)#-
```

SECURITY-TO-GROUP

security-to-group configuration

SYNTAX

snmp-server security-to-group model [v1 | v2c | v3] name <SecurityName : word32> group <GroupName : word32>

PARAMETER

model	security model
v1	v1 security model
v2c	v2c security model
v3	v3 security model
name	security user
<SecurityName : word32>	security group name (word32)
group	security use
<GroupName : word32>	group name (word32)

CHAPTER 4: CONFIGURE COMMANDS OF CLI

EXAMPLE

```
LGB1152A(config)# snmp-server security-to-group model v2c name text group text
LGB1152A(config)#
```

USER

Set the SNMPV3 user's configuration

SYNTAX

```
snmp-server user <Username : word32>
```

```
snmp-server user <Username : word32> { [ md5 <Md5Passwd : word8-32> | [ sha <ShaPasswd : word8-40> ] ] }
```

```
snmp-server user <Username : word32> { [ md5 <Md5Passwd : word8-32> | [ sha <ShaPasswd : word8-40> ] ] } priv [ des | aes ]
<word8-32>
```

PARAMETER

<Username : word32>	Security user name (word32)
md5	Set MD5 protocol
sha	Set SHA protocol
<Md5Passwd : word8-32>	MD5 password (word8-32)
<ShaPasswd word8-40>	SHA password (word8-40)
priv	Set Privacy
des	Set DES protocol
aes	Set AES protocol
<word8-32>	Set AES protocol (word8-32)

EXAMPLE

```
LGB1152A(config)# snmp-server user text md5 12345678 priv aes 12345678
LGB1152A(config)#-
```



CHAPTER 4: CONFIGURE COMMANDS OF CLI

VIEW

MIB view configuration

SYNTAX

```
snmp-server view <ViewName : word32> <OidSubtree : word255> [ include | exclude ]
```

PARAMETER

<ViewName : word32>	MIB view name (word32)
<OidSubtree : word255>	MIB view OID (word128)
include	Excluded type from the view
exclude	Excluded type from the view

EXAMPLE

```
LGB1152A(config)# snmp-server view text .1 include
LGB1152A(config)#-
```

4.1.42 SPANNING TREE

Spanning Tree protocol

TABLE 4-5. CONFIGURE – SPANNING TREE COMMANDS

COMMAND	FUNCTION
mode	STP protocol mode
mst	STP bridge instance

MODE

STP protocol mode

SYNTAX

```
spanning-tree mode [ stp | rstp | mstp ]
```

PARAMETER

mstp	Multiple Spanning Tree (802.1s)
rstp	Rapid Spanning Tree (802.1w)
stp	802.1D Spanning Tree

CHAPTER 4: CONFIGURE COMMANDS OF CLI

EXAMPLE

```
LGB1152A(config)# spanning-tree mode stp
LGB1152A(config)#-
```

MST

STP bridge instance

SYNTAX

```
spanning-tree mst <0-4094> priority <0-61440>
spanning-tree mst <0-4094> vlan <vlan_list>
spanning-tree mst forward-time <4-30>
spanning-tree mst max-age < 6-40>
spanning-tree mst max-hops <6-40>
spanning-tree mst name <word32> revision <0-65535>
```

PARAMETER

<0-4094>	MST instance ID , 0 is for CIST (0..4094)
forward-time	Delay between port states
max-age	Max bridge age before timeout
max-hops	MSTP bridge max hop count
name	Name keyword
priority	Priority of the instance
vlan	VLAN keyword
<0-61440>	Priority value (0..61440)
<vlan_list>	Range of VLANs (1-4095)
<4-30>	Range in seconds (4..30)
<6-40>	Range in seconds (6..40)
<6-40>	Hop count range (6..40)
<word32>	Name of the bridge (word32)
revision	Revision keyword
<0-65535>	Revision number (0..65535)

EXAMPLE

```
LGB1152A(config)# spanning-tree mst 7 vlan 10
LGB1152A(config) -#-
```



CHAPTER 4: CONFIGURE COMMANDS OF CLI

4.1.43 SVL

Shared VLAN Learning

SYNTAX

```
svl fid <1-4095> vlan <vlan_list>
```

PARAMETER

fid	Filter ID keyword
<1-4095>	Filter ID
vlan	VLAN keyword
<vlan_list>	VLAN List

EXAMPLE

```
LGB1152A(config)# svl fid 1 vlan  
LGB1152A(config)#-
```

4.1.44 SWITCH2GO MANAGEMENT

Switch2go Management configuration

SYNTAX

```
switch2go-management delete <1-6>
```

```
switch2go-management get activity-code
```

```
switch2go-management ( port-name | port-role ) interface [ GigabitEthernet <port_type_list> ( <line47> | * | GigabitEthernet ) ] [ * ( <line47> | <port_type_list> ) ]
```

```
switch2go-management server <word47>
```

```
switch2go-management switch2go-mode [ disable | enable ]
```

PARAMETER

delete	Delete Mobile in List
get	Get Activity Code Action from SwitchAlert Management Server
port-name	Interface specific description
port-role	Configure Port Role
server	Configure SwitchAlert Management server IP address
switch2go-mode	Configure Switch2go Management mode
<1-6>	Mobile ID, available value is from 1 to 6
activity-code	Get Activity Code Action from SwitchAlert Management Server
automatic	Enable NAT Option as Automatic

CHAPTER 4: CONFIGURE COMMANDS OF CLI

manual	Enable NAT Option as Manual
<1-65535>	Port number
interface	Select an interface to configure
*	All switches or All ports
GigabitEthernet	Gigabit Ethernet Port
<line47>	Up to 47 characters describing this interface
<port_type_list>	Port list for all port types
<word47>	SwitchAlert Management IP address or host name
disable	Disable SwitchAlert Management mode
enable	Enable SwitchAlert Management mode

EXAMPLE

```
LGB1152A(config)# switch2go-management delete 1
LGB1152A(config)# switch2go-management get activity-code
LGB1152A(config)#
```

4.1.45 SYSTEM

Set the SNMP server's configuration

SYNTAX

system contact word128

system location word128

system name word128

PARAMETER

contact	Set the SNMP server's contact string
location	Set the SNMP server's location string
name	Set the SNMP server's system model name string
word128	name string (word128)
word128	contact string (word128)
word128	location string (word128)



CHAPTER 4: CONFIGURE COMMANDS OF CLI

EXAMPLE

```
LGB1152A(config)# system contact 222
LGB1152A(config)# system location 333
LGB1152A(config)# system name GE
LGB1152A(config)#-
```

4.1.46 TACACS SERVER

Configure TACACS+.

SYNTAX

```
tacacs-server deadtime <Minutes : 1-1440>
```

```
tacacs-server host word255
```

```
tacacs-server host word255 [ port <AcctPort : 0-65535> ] [ timeout <Seconds : 1-1000> ] [ key word63 ]
```

```
tacacs-server key word63
```

```
tacacs-server timeout <Seconds : 1-1000>
```

PARAMETER

deadtime	Time to stop using a TACACS+ server that doesn't respond
host	Specify a TACACS+ server
key	Set TACACS+ encryption key
timeout	Time to wait for a TACACS+ server to reply
<Minutes : 1-1440>	Time in minutes (0..1440)
word255	Hostname or IP address (word255)
port	UDP port for TACACS+ accounting server
timeout	Time to wait for this TACACS+ server to reply (overrides default)
key	Server specific key (overrides default)
<AcctPort : 0-65535>	TCP port number (0..65535)
<Seconds : 1-1000>	Wait time in seconds(0..1000)
word63	The shared key (word63)

EXAMPLE

```
LGB1152A(config)# tacacs-server deadtime 300
LGB1152A(config)# tacacs-server key 33
LGB1152A(config)# tacacs-server timeout 300
LGB1152A(config)#-
```

CHAPTER 4: CONFIGURE COMMANDS OF CLI

4.1.47 UDLD

Enable UDLD in the aggressive or normal mode and to set the configurable message timer on all fiber-optic ports

SYNTAX

```
udld [ aggressive | enable | message ]
```

PARAMETER

aggressive	Enables UDLD in aggressive mode on all fiber-optic ports.
enable	Enables UDLD in normal mode on all fiber-optic ports.
message	Configures the period of time between UDLD probe messages on ports that are in the advertisement phase and are determined to be bidirectional. The range is from 7 to 90 seconds(Currently default message time interval 7 sec is supported).

EXAMPLE

```
LGB1152A(config)# udld aggressive
% Only fiber ports are allowed, port _no: 1
% Only fiber ports are allowed, port _no: 2
% Only fiber ports are allowed, port _no: 3
% Only fiber ports are allowed, port _no: 4
% Only fiber ports are allowed, port _no: 5
% Only fiber ports are allowed, port _no: 6
% Only fiber ports are allowed, port _no: 7
% Only fiber ports are allowed, port _no: 8
% Only fiber ports are allowed, port _no: 9
% Only fiber ports are allowed, port _no: 10
% Only fiber ports are allowed, port _no: 11
% Only fiber ports are allowed, port _no: 12
% Only fiber ports are allowed, port _no: 13
% Only fiber ports are allowed, port _no: 14
% Only fiber ports are allowed, port _no: 15
% Only fiber ports are allowed, port _no: 16
% Only fiber ports are allowed, port _no: 17
% Only fiber ports are allowed, port _no: 18
% Only fiber ports are allowed, port _no: 19
% Only fiber ports are allowed, port _no: 20
% Only fiber ports are allowed, port _no: 21
% Only fiber ports are allowed, port _no: 22
% Only fiber ports are allowed, port _no: 23
% Only fiber ports are allowed, port _no: 24
% Only fiber ports are allowed, port _no: 25
```



CHAPTER 4: CONFIGURE COMMANDS OF CLI

```
% Only fiber ports are allowed, port_no: 26
% Only fiber ports are allowed, port_no: 27
% Only fiber ports are allowed, port_no: 28
% Only fiber ports are allowed, port_no: 29
% Only fiber ports are allowed, port_no: 30
% Only fiber ports are allowed, port_no: 31
% Only fiber ports are allowed, port_no: 32
% Only fiber ports are allowed, port_no: 33
% Only fiber ports are allowed, port_no: 34
% Only fiber ports are allowed, port_no: 35
% Only fiber ports are allowed, port_no: 36
% Only fiber ports are allowed, port_no: 37
% Only fiber ports are allowed, port_no: 38
% Only fiber ports are allowed, port_no: 39
% Only fiber ports are allowed, port_no: 40
% Only fiber ports are allowed, port_no: 41
% Only fiber ports are allowed, port_no: 42
% Only fiber ports are allowed, port_no: 43
% Only fiber ports are allowed, port_no: 44
% Only fiber ports are allowed, port_no: 45
% Only fiber ports are allowed, port_no: 46
% Only fiber ports are allowed, port_no: 47
% Only fiber ports are allowed, port_no: 48
LGB1152A(config)#-
```

4.1.48 UPNP

Set UPnP's configuration

SYNTAX

upnp

upnp advertising-duration <advertising duration>

upnp interface-vlan <vlan_id>

upnp ttl <TTL value>

PARAMETER

advertising-duration Set advertising duration

interface-vlan Set ip-interface vlan

ttl Set TTL value

<advertising duration> value is 66..86400 (66..86400)



CHAPTER 4: CONFIGURE COMMANDS OF CLI

<vlan_id> value is 1..4095 (1-4095)
 <TTL value> value is 1..255 (1..255)

EXAMPLE

```
LGB1152A(config)# upnp advertising-duration 88
LGB1152A(config)# upnp ttl 25
LGB1152A(config)#-
```

4.1.49 USERNAME

Establish User Name Authentication

SYNTAX

```
username word31 privilege <privilegeLevel : 0-15> password encrypted word4-44
username word31 privilege <privilegeLevel : 0-15> password none
username word31 privilege <privilegeLevel : 0-15> password unencrypted word31
```

PARAMETER

word31	User name allows letters, numbers and underscores (word31)
privilege	Set user privilege level
<privilegeLevel : 0-15>	User privilege level (0..15)
password	Specify the password for the user
encrypted	Specifies an ENCRYPTED password will follow
none	NULL password
unencrypted	Specifies an UNENCRYPTED password will follow
word4-44	The ENCRYPTED (hidden) user password. Notice the ENCRYPTED password will be decoded by system internally. You cannot directly use it as same as the Plain Text and it is not human-readable text normally. (word4-44)
word31	The UNENCRYPTED (Plain Text) user password. Any printable characters including space is accepted. Notice that you have no chance to get the Plain Text password after this command. The system will always display the ENCRYPTED password. (word31)

EXAMPLE

```
LGB1152A(config)# username jefferson privilege 15
password none
LGB1152A(config)#-
```



CHAPTER 4: CONFIGURE COMMANDS OF CLI

4.1.50 VLAN

VLAN commands

SYNTAX

vlan <vlan_list>

vlan ethertype s-custom-port <ethernet value>

vlan protocol eth2 <ethernet value> group word16

vlan protocol llc <dsap value> <ssap value> group word16

vlan protocol snap <snap oui> <pid value> group word16

vlan ip-subnet <ipv4_addr> <ipv4_netmask> vlan <vlan_id>

vlan mac <mac_ucast> vlan <vlan_id>

PARAMETER

<vlan_list>	List of VLAN interface numbers, 1~4094 (1-4095)
ethertype	Ether type for Custom S-ports
protocol	Protocol-based VLAN status
ip-subnet	ip-subnet VLAN configuration.
mac	MAC-based VLAN commands
s-custom-port	Custom S-ports configuration
<ethernet value>	Ether Type(Range: 0x600 - 0xFFFF)
eth2	Ethernet-based VLAN commands
llc	LLC-based VLAN group
snap	SNAP-based VLAN group
group	Protocol-based VLAN group commands
<word16>	Group Name (Range: 1 - 16 characters) (word16)
<dsap value>	DSAP(Range: 0x00 - 0xFF)
<ssap value>	SSAP(Range: 0x00 - 0xFF)
<snap oui>	SNAP OUI(must be 0x000000)
<pid value>	PID(Range: 0x0000 - 0xFFFF)
<ipv4_addr>	Source IP address (X.X.X.X)
<ipv4_netmask>	Source IP address (X.X.X.X)
vlan	vlan keyword
<vlan_id>	VLAN ID required for the group to VLAN mapping (1-4095)
<mac_ucast>	48 bit unicast MAC address: xx:xx:xx:xx:xx:xx



CHAPTER 4: CONFIGURE COMMANDS OF CLI

EXAMPLE

```
LGB1152A(config)# vlan ethertype s-custom-port 0x1111
LGB1152A(config)# vlan protocol eth2 0x6000 group aa
LGB1152A(config)#-
```

4.1.51 VOICE

Vlan for voice traffic

SYNTAX

voice vlan oui <oui>

voice vlan oui <oui> description word32

voice vlan vid <vlan_id>

voice vlan vid <vlan_id> aging-time <AgingTime : 10-10000000>

voice vlan vid <vlan_id> aging-time <AgingTime : 10-10000000> class <class : 0-7>

PARAMETER

vlan	voice_vlan_mode help
vid	Set a entry VLAN ID
oui	OUI configuration
<vlan_id>	VLAN IDs 1-4095 (1-4095)
aging-time	Set a entry secure learning aging time
class	Set a entry traffic class
<AgingTime : 10-10000000>	Aging time, 10-10000000 seconds (10..10000000)
<0-7>	Traffic class value (0..7)
<oui>	OUI value
description	Set description for the OUI
word32	Description line (word32)

EXAMPLE

```
LGB1152A(config)# voice vlan aging-time 3333
LGB1152A(config)# voice vlan class 7
LGB1152A(config)# voice vlan vid 3333
LGB1152A(config)#-
```



CHAPTER 4: CONFIGURE COMMANDS OF CLI

4.1.52 WEB

Web

SYNTAX

```
web privilege group <CWORD> level {[ cro <0-15> ][ crw <0-15> ][ sro <0-15> ][ srw <0-15> ]}
```

PARAMETER

privilege	Web privilege
group	Web privilege group
CWORD	Valid words are 'Aggregation' 'Debug' 'Dhcp_Client' 'Green_Ethernet' 'IP2' 'IPMC_Snooping' 'LACP' 'LLDP' 'Loop_Protect' 'MAC_Table' 'MEP' 'MVR' 'Maintenance' 'Mirroring' 'NTP' 'Ports' 'Private_VLANs' 'QoS' 'RPC' 'Security' 'Spanning_Tree' 'System' 'Timer' 'UPnP' 'VCL' 'VLAN_Translation' 'VLANs' 'Voice_VLAN' 'sFlow'
level	Web privilege group level
cro	Configuration Read-only level
crw	Configuration Read-write level
sro	Status/Statistics Read-only level
srw	Status/Statistics Read-write level

EXAMPLE

```
LGB1152A(config)# web privilege group ptp level sro 10
```

CHAPTER 5: COPY COMMANDS OF CLI

Copy from source to destination

SYNTAX

copy running-config [startup-config | flash:filename | tftp://server/path-to-file]

copy startup-config [running-config | flash:filename | tftp://server/path-to-file]

copy flash:filename [startup-config | running-config | tftp://server/path-to-file]

copy tftp://server/path-to-file [startup-config | running-config | flash:filename]

PARAMETER

running-config Current running configuration

startup-config Startup configuration

flash:filename File in FLASH

tftp://server/path-to-file File on TFTP server

EXAMPLE

```
LGB1152A(config)# copy startup-config running-config
LGB1152A(config)#-
```



CHAPTER 6: DELETE COMMANDS OF CLI

Delete one file in flash file system.

SYNTAX

delete string

PARAMETER

String File in FLASH

EXAMPLE

```
LGB1152A(config)# delete text  
LGB1152A#
```



CHAPTER 7: DIR COMMANDS OF CLI

Directory of all files in flash: file system.

SYNTAX

dir

PARAMETER

none

EXAMPLE

```
LGB1152A(config)# dir
startup-config
LGB1152A#
```



CHAPTER 8: DISABLE COMMANDS OF CLI

Turn off privileged commands

SYNTAX

disable <0-15>

PARAMETER

<0-15> Privilege level

EXAMPLE

```
LGB1152A(config)# disable 1
LGB1152A#
```



CHAPTER 9: DO COMMANDS OF CLI

To run exec commands in config mode

SYNTAX

Do <LINE>{[LINE]}

PARAMETER

LINE Exec Command

EXAMPLE

```
LGB1152A(config)# do show clock
System Time: 2011-01-01T00:03:44+00:00
LGB1152A#
```



CHAPTER 10: DOTX COMMANDS OF CLI

IEEE Standard for port-based Network Access Control

SYNTAX

```
dot1x initialize [ interface ( <port_type> [ <plist> ] ) ]
```

PARAMETER

initialize	Force re-authentication immediately
interface	Interface
*	All switches or All ports
Gigabitethernet	GigabitEthernet port
<port_type_list>	Port list for all port types
<port_type_list>	Port list in 1/1-52

EXAMPLE

```
LGB1152A# dot1x initialize interface GigabitEthernet 1/1-52  
LGB1152A#
```



CHAPTER 11: ENABLE COMMANDS OF CLI

Turn on privileged commands

SYNTAX

Enable <1-15>

PARAMETER

<0-15> Choose privileged level

EXAMPLE

```
LGB1152A# enable 10  
LGB1152A#
```



CHAPTER 12: FIRMWARE OF CLI

Firmware

SYNTAX

firmware swap

firmware upgrade <tftp://server/path-and-filename>

PARAMETER

swap	Swap between Active and Alternate firmware image
upgrade	upgrade
<tftp://server/path-and-filename>	TFTP Server IP address, path and file name for the server containing the new image

EXAMPLE

```
LGB1152A# firmware upgrade tftp://192.168.1.1/running-config
Programming image...
LGB1152A#
```



CHAPTER 13: IP COMMANDS OF CLI

IPv4 commands

SYNTAX

```
ip dhcp retry interface vlan <vlan_id>
```

PARAMETER

dhcp	Dhcp commands
retry	Restart the DHCP query process
interface	Interface
vlan	Vlan interface
<vlan_id>	Vlan ID

EXAMPLE

```
LGB1152A# ip dhcp retry interface vlan  
LGB1152A#
```



CHAPTER 14: IPV6 COMMANDS OF CLI

IPv6 configuration commands

SYNTAX

```
ipv6 dhcp-client restart interface vlan <vlan_list>
```

PARAMETER

dhcp-client	Manage DHCPv6 client service
restart	Retart DHCPv6 client service
interface	Select an interface to configure
vlan	VLAN of IPv6 interface
<vlan_list>	IPv6 interface VLAN list

EXAMPLE

```
LGB1152A# ipv6 dhcp-client restart interface vlan  
LGB1152A#
```



CHAPTER 15: MORE OF CLI

Display file

SYNTAX

more String

PARAMETER

String File in FLASH

EXAMPLE

```
LGB1152A# copy running-config startup-config
LGB1152A# more startup-config
username admin privilege 15 password none
!
!
interface GigabitEthernet 1/1
!
interface GigabitEthernet 1/2
!
interface GigabitEthernet 1/3
!
interface GigabitEthernet 1/4
!
interface GigabitEthernet 1/5
!
interface GigabitEthernet 1/6
.
.
interface GigabitEthernet 1/N
!
!
interface vlan 1
ip address 192.168.1.1 255.255.255.0
!
ip route 0.0.0.0 0.0.0.0 192.168.1.254
end
LGB1152A#
```



CHAPTER 16: NO COMMANDS OF CLI

Negate a command or set its defaults

SYNTAX

no debug prompt

PARAMETER

debug	Debugging functions
terminal	Set terminal line parameters
gdbserver	
interrupt	Application-handled interrupt source
ipv6	IPv6 configuration commands
trace	
	Output modifiers
begin	Begin with the line that matches
exclude	Exclude lines that match
include	Include lines that match
<line>	String to match output lines
monitor	Print a line on the console everytime the corresponding source interrupt fires.
source	Select a particular source interrupt to monitor
<word>	Valid words are 'AMS' 'CLK_ADJ' 'CLK_TSTAMP' 'EGR_ENGINE_ERR' 'EGR_FIFO_OVERFLOW' 'EGR_RW_FCS_ERR' 'EGR_TIMESTAMP_CAPTURED' 'EXT_1_SYNC' 'EXT_SYNC' 'FLNK' 'FOS' 'INGR_ENGINE_ERR' 'INGR_RW_FCS_ERR' 'INGR_RW_PREAM_ERR' 'LOCS' 'LOL' 'LOS' 'LOSX' 'PTP_PIN_0' 'PTP_PIN_1' 'PTP_PIN_2' 'PTP_PIN_3' 'PUSH_BUTTON' 'SYNC' 'VOE'
nd	IPv6 Neighbor Discovery debugging
hunt	
editing	Enable command line editing
exec-timeout	Set the EXEC timeout
history	Control the command history function
length	Set number of lines on a screen
width	Set width of the display terminal
size	Set history buffer size

EXAMPLE

```
LGB1152A# no debug ipv6 nd
IPv6 Neighbor Discovery events debugging is off
LGB1152A#
```

CHAPTER 17: PING OF CLI

Send ICMP echo messages

SYNTAX

```
ping ip <ipv4_addr>
```

```
ping ip <ipv4_addr> [ repeat <Count : 1-60> ] [ size <Size : 2-1452> ]
```

```
ping ipv6 <ipv6_addr>
```

```
ping ipv6 <ipv6_addr> [ repeat <Count : 1-60> ] [ size <Size : 2-1452> ]
```

PARAMETER

ip	IP (ICMP) echo
ipv6	IPv6 (ICMPv6) echo
<ipv4_addr>	ICMP destination address (X.X.X.X)
repeat	Specify repeat count
size	Specify datagram size
<Count : 1-60>	1-60; Default is 5 (1..60)
<Size : 2-1452>	2-1452; Default is 56 (excluding MAC, IP and ICMP headers) (2..1452)
<ipv6_addr>	ICMPv6 destination address (X:X:X:X:X:X:X)

EXAMPLE

```
LGB1152A# ping ip 192.168.1.1 repeat 3 size 3
PING 192.168.1.1 (192.168.1.1): 3 data bytes
11 bytes from 192.168.1.1: seq=0 ttl=64
11 bytes from 192.168.1.1: seq=1 ttl=64
11 bytes from 192.168.1.1: seq=2 ttl=64

--- 192.168.1.1 ping statistics ---
3 packets transmitted, 3 packets received, 0% packet loss
LGB1152A#
```



CHAPTER 18: PLATFORM COMMANDS OF CLI

Platform configuration

SYNTAX

platform debug (allow | deny)

PARAMETER

Debug	Debug command setting
allow	Allow debug commands
deny	Deny debug commands

EXAMPLE

```
LGB1152A# platform debug deny
LGB1152A#
```



CHAPTER 19: RELOAD OF CLI

Reload system

SYNTAX

reload cold

reload defaults

reload defaults keep-ip

PARAMETER

cold	Reload cold
defaults	Reload defaults without rebooting.
keep-ip	Attempt to keep VLAN1 IP setup

EXAMPLE

```
LGB1152A# reload defaults keep-ip  
LGB1152A#
```



CHAPTER 20: SEND OF CLI

Send a message to other tty lines

SYNTAX

```
send { * | <session_list> | console 0 | vty <vty_list> } <message>
```

PARAMETER

*	All tty lines
<0~16>	Send a message to multiple lines
console	Primary terminal line
0	Send a message to a specific line
vty	Virtual terminal
<0~15>	Send a message to multiple lines
<LINE128>	yMessage to be sent to lines, in 128 char's

EXAMPLE

```
LGB1152A# send * yes,i do
Enter TEXT message. End with the character 'y'.
Y
-----
*** Message from line 0:
yes,i do
-----
LGB1152A#
```

CHAPTER 21: SHOW OF CLI

Show running system information

TABLE 21-1. SHOW COMMANDS

COMMAND	FUNCTION
aaa	Login methods
access	Access management configuration
access-list	Access list
aggregation	Aggregation configuration and status
board data	Model name
clock	Configure time-of-day clock
dot1x	IEEE Standard for port-based Network Access Control
event	Show trap event configuration
green ethernet	Green Ethernet (power reduction)
history	Display the session command history
interface	Interface status and configuration
ip	Internet Protocol
ipmc	IPv4/IPv6 multicast configuration
ipv6	IPv6 configuration commands
lACP	LACP configuration/status
line	TTY line configuration
lldp	Show LLDP configuration
logging	Syslog
loop-protect	Show loop protection
mac	MAC address table information
monitor	Monitoring different system events
mrp	MRP status
mvr	Internet protocol
ntp	Configure NTP
platform	Platform configuration
port-security	Show port security
privilege	Display privilege level configuration
process	process
pvlan	PVLAN status
qos	Quality of Service
radius-server	RADIUS configuration
rmon	RMON statistics
running config	Current operating configuration
sflow	Statistics flow
smtp	Show email information
snmp	Display SNMP configuration
spanning tree	Spanning Tree protocol



TABLE 21-1 (CONTINUED). SHOW COMMANDS

COMMAND	FUNCTION
svl	Shared VLAN Learning configuration
switch2go management	Show Switch2go management configuration
switchport	Display switching mode characteristics
System	Show system information
tacacs-server	TACACS+ configuration
terminal	Display terminal configuration parameters
udld	Uni Directional LInk Detection (UDLD) configuration, status and statistics
upnp	Show UPnP configuration
user privilege	Users privilege configuration
users	Display information about terminal lines
version	System software ststus
vlan	VLAN status
voice	show voice
web	web

21.1 AAA

Login methods

SYNTAX

show aaa

EXAMPLE

```
LGB1152A# LGB1152A# show aaa
Automatic Redirect : Disabled
Client Method1 Method2 Method3 Service Port
-----
telnet local 23
ssh local 22
http local 80
https 443
Authorization :
Client Method Cmd Lvl Cfg Cmd Fallback
-----
telnet none 0
ssh none 0
```

CHAPTER 21: SHOW OF CLI

```
Accounting :
Client Method Cmd Lvl Exec
-----
telnet none 0
ssh none 0
LGB1152A#
```

21.2 ACCESS

Access management configuration

SYNTAX

show access management

show access management <1~16>

PARAMETER

management

Access management configuration

<1~16>

ID of access management entry list (1-16)

EXAMPLE

```
LGB1152A# Cshow access management 3
Switch access management mode is : Disable
Idx VID IP Address HTTP/HTTPS SNMP TELNET/SSH
-----
LGB1152A#
```



CHAPTER 21: SHOW OF CLI

21.3 ACCESS LIST

Access list

SYNTAX

show access-list ace

show access-list ace <1-384>

PARAMETER

ace	Access list entry
<1-384>	ACE ID (1-384)

EXAMPLE

```
LGB1152A# show access-list ace 3
Switch access-list ace number: 0
LGB1152A#
```

21.4 AGGREGATION

Aggregation configuration and status

SYNTAX

show aggregation aggregators

show aggregation lacp

show aggregation mode

show aggregation status

PARAMETER

aggregators	aggregator status
lacp	lacp local and neighbor info
mode	Traffic distribution mode
status	aggregation port status

EXAMPLE

```
LGB1152A# show aggregation mode
Aggregation Hash Mode : src-dst-mac
LACP System Priority : 32768
LGB1152A#
```

CHAPTER 21: SHOW OF CLI

21.5 BOARD DATA

Model name

SYNTAX

show board-data

EXAMPLE

```
LGB1152A# show board-data
Model Name: LGB1152A
Vendor Name:
Platform Name:
Hardware Version: v1.01
LGB1152A#
```

21.6 CLOCK

Configure time-of-day clock

SYNTAX

show clock

EXAMPLE

```
LGB1152A# show clock
System Time : 2017-01-01 01:30:50
LGB1152A#
```



CHAPTER 21: SHOW OF CLI

21.7 DOT1X

IEEE Standard for port-based Network Access Control.

SYNTAX

```
show dot1x status
```

```
show dot1x status interface { * | [ Gigbitethernet <port _list> ] }
```

```
show dot1x statistics [ eapol | radius | all ] interface { * | [ Gigbitethernet <port _list> ] }
```

```
show dot1x statistics [ eapol | radius | all ]
```

PARAMETER

statistics	Shows statistics for either eapol or radius
Status	Shows dot1x status, such as admin state, port state and last source
interface	Interface
*	All Ports
Gigbitethernet	Gigabit Ethernet Port
<port _list>	Port ID (1/1-52)
all	Show all dot1x statistics
eapol	Show EAPOL statistics
radius	Show Backend Server statistics

EXAMPLE

```
LGB1152A# show dot1x statistics radius
```

Interface	Rx Access Challenges	Rx Other Requests	Rx Auth. Successes	Rx Auth. Failures	Tx Responses	MAC Address
GigabitEthernet 1/1	0	0	0	0	0	-
GigabitEthernet 1/2	0	0	0	0	0	-
GigabitEthernet 1/3	0	0	0	0	0	-
GigabitEthernet 1/4	0	0	0	0	0	-
GigabitEthernet 1/5	0	0	0	0	0	-
.						
.						
.						
.						
GigabitEthernet 1/N	0	0	0	0	0	-

```
LGB1152A#
```

CHAPTER 21: SHOW OF CLI

21.8 EVENT

Show trap event configuration

SYNTAX

show event

EXAMPLE

```
LGB1152A# show event
```

Group Name	Severity Level	Syslog Mode	Trap Mode
ACCESS-MGMT	Info	Enabled	Disabled
ACL	Info	Enabled	Disabled
ARP-INSPECTION	Warning	Enabled	Disabled
AUTH-FAILED	Warning	Enabled	Disabled
BCS-PROTECTION	Info	Enabled	Disabled
COLD-START	Warning	Enabled	Disabled
DHCP	Info	Enabled	Disabled
DHCP-SNOOPING	Info	Enabled	Disabled
IP-SOURCE-GUARD	Info	Enabled	Disabled
LACP	Info	Enabled	Disabled
LINK-UPDOWN	Warning	Enabled	Disabled
LOGIN	Info	Enabled	Disabled
LOGOUT	Info	Enabled	Disabled
LOOP-PROTECTION	Info	Enabled	Disabled
MAC-TABLE	Info	Enabled	Disabled
MAINTENANCE	Info	Enabled	Disabled
MGMT-IP-CHANGE	Info	Enabled	Disabled
NAS	Info	Enabled	Disabled
PORT	Info	Enabled	Disabled
PORT-SECURITY	Info	Enabled	Disabled
RMON	Info	Enabled	Disabled
SFP	Info	Enabled	Disabled
SPANNING-TREE	Info	Enabled	Disabled
SYSTEM	Info	Enabled	Disabled
USER	Info	Enabled	Disabled
WARM-START	Warning	Enabled	Disabled

```
LGB1152A#
```



CHAPTER 21: SHOW OF CLI

21.9 GREEN ETHERNET

Green ethernet (Power reduction)

SYNTAX

```
show green-ethernet [ interface <port_type> <port_type_list> ]
```

```
show green-ethernet eee [ interface <port_type> <port_type_list> ]
```

```
show green-ethernet energy-detect [ interface <port_type> <port_type_list> ]
```

```
show green-ethernet short-reach [ interface <port_type> <port_type_list> ]
```

PARAMETER

eee	Shows green ethernet EEE status for a specific port or ports.
energy-detect	Shows green ethernet energy-detect status for a specific port or ports.
interface	Shows green ethernet status for a specific port or ports.
short-reach	Shows green ethernet short-reach status for a specific
interface	
*	All Switches or All ports
<port_type >	GigabitEthernet or
<port_type_list>	Port list in 1/1-52 for Gigabitethernet

EXAMPLE

```
LGB1152A# show green-ethernet eee
Interface          Lnk  EEE Capable  EEE Enabled  LP EEE Capable  In Power Save
-----
GigabitEthernet 1/1    No   Yes         No          No              No
GigabitEthernet 1/2    No   Yes         No          No              No
GigabitEthernet 1/3    No   Yes         No          No              No
GigabitEthernet 1/4    No   Yes         No          No              No
GigabitEthernet 1/5    No   Yes         No          No              No
GigabitEthernet 1/6    No   Yes         No          No              No
GigabitEthernet 1/7    No   Yes         No          No              No
GigabitEthernet 1/8    No   Yes         No          No              No
GigabitEthernet 1/9    No   Yes         No          No              No
```

CHAPTER 21: SHOW OF CLI

21.10 HISTORY

Display the session command history

SYNTAX

```
show history [ | {begin | exclude | include } <LINE>]
```

PARAMETER

	Output modifiers
begin	Begin with the line that matches
exclude	Exclude lines that match
include	Include lines that match
<LINE>	String to match output lines

EXAMPLE

```
LGB1152A# show history
show evc statistics
show green-ethernet EEE
show green-ethernet EEE interface GigabitEthernet
show history
LGB1152A#
```

21.11 INTERFACE

Interface status and configuration

SYNTAX

```
show interface vlan <vlan_list>
```

```
show interface vlan
```

```
show interface { * | [ GigabitEthernet <port _list> ] } green-ethernet
```

```
show interface { * | [ GigabitEthernet <port _list> ] } capabilities
```

```
show interface { * | [ GigabitEthernet <port _list> ] } statistics [ bytes | discards | errors | packets ] [ up | down ]
```

```
show interface { * | [ GigabitEthernet <port _list> ] } statistics [ up | down ] [ bytes | discards | errors | packets ]
```

```
show interface { * | [ GigabitEthernet <port _list> ] } status
```



CHAPTER 21: SHOW OF CLI

PARAMETER

vlan	VLAN status
GigabitEthernet	GigabitEthernet
*	All switches or All ports
<vlan_list>	List of VLAN interface numbers (1-4095)
<port_list>	Port List S/X-Y,Z (1/1-52)
green-ethernet	Display green-ethernet
status	Display status
statistics	Display statistics
capabilities	Display interface capabilities
bytes	Show byte statistics
discards	Show discard statistics
errors	Show error statistics
packets	Show packet statistics
up	Show ports that are up
down	Show ports that are down

EXAMPLE

```
LGB1152A# show interface GigabitEthernet 1/1-3 capabilities

GigabitEthernet 1/1 Capabilities:
SFP Type: None
SFP Vendor name:
SFP Vendor PN:
SFP Vendor revision:

GigabitEthernet 1/2 Capabilities:
SFP Type: None
SFP Vendor name:
SFP Vendor PN:
SFP Vendor revision:

GigabitEthernet 1/3 Capabilities:
SFP Type: None
SFP Vendor name:
SFP Vendor PN:
SFP Vendor revision:
```

CHAPTER 21: SHOW OF CLI

21.12 IP

Internet Protocol

SYNTAX

show ip arp

show ip arp inspection

show ip arp inspection entry { [dhcp-snooping interface] | [interface] | [static interface] } { * | [GigabitEthernet <port _list>] }

show ip arp inspection interface { * | [GigabitEthernet <port _list>] }

show ip arp inspection vlan <vlan_list>

show ip dhcp pool

show ip dhcp pool <vlan_id>

show ip dhcp relay

show ip dhcp relay statistics

show ip dhcp server

show ip dhcp server status

show ip dhcp snooping

show ip dhcp snooping table

show ip dhcp snooping interface { * | [GigabitEthernet <port _list>] }

show ip dhcp snooping statistics

show ip dhcp snooping statistics interface { * | [GigabitEthernet <port _list>] }

show ip igmp snooping

show ip igmp snooping [detail | group-database | mrouter | vlan]

show ip interface brief

show ip name-server

show ip route

show ip source binding

show ip source binding dhcp-snooping

show ip source binding dhcp-snooping interface { * | [GigabitEthernet <port _list>] }

show ip source binding interface { * | [GigabitEthernet <port _list>] }

show ip source binding static

show ip source binding static interface { * | [GigabitEthernet <port _list>] }

show ip verify source

show ip verify source interface { * | [GigabitEthernet <port _list>] }



CHAPTER 21: SHOW OF CLI

PARAMETER

arp	Address Resolution Protocol
dhcp	Dynamic Host Configuration Protocol
igmp	Internet Protocol
interface	IP interface status and configuration
name-server	Domain Name System
route	Display the current ip routing table
source	source command
verify	verify command
inspection	ARP inspection
entry	arp inspection entries
interface	Select an interface to configure
vlan	VLAN configuration
dhcp-snooping	learn from dhcp snooping
static	setting from static entries
GigabitEthernet	GigabitEthernet
*	All switches or All ports
<port_list>	Port List S/X-Y,Z (1/1-52)
<vlan_list>	Select a VLAN id to configure (1-4095)
pool	DHCP server pool
relay	DHCP relay
server	DHCP server
snooping	DHCP snooping
<vlan_id>	VLAN id of DHCP server pool (1-4095)
statistics	DHCP option 82
status	DHCP server status
table	show ip dhcp snooping table
statistics	Display DHCP snooping statistics information
snooping	Snooping IGMP
detail	Detail running information/statistics of IGMP snooping
group-database	Multicast group database from IGMP
mrouter	Multicast router port status in IGMP
vlan	Search by VLAN
brief	Brief IP interface status
binding	ip source binding
interface	ip verify source interface config
source	verify source

CHAPTER 21: SHOW OF CLI

EXAMPLE

```
LGB1152A# show ip interface brief
Interface          Address           Method           Status
-----
VLAN1              192.168.1.1/24   Manual           UP
LGB1152A#
```

21.13 IPMC

IPv4/IPv6 multicast configuration

SYNTAX

```
show ipmc profile [ <ProfileName : word16> ] [ detail ] [ | {begin | exclude | include } <LINE> ]
```

```
show ipmc range [ <EntryName : word16> ] [ | {begin | exclude | include } <LINE> ]
```

PARAMETER

profile	IPMC profile configuration
range	A range of IPv4/IPv6 multicast addresses for the profile
<ProfileName : word16>	Profile name in 16 char's
detail	Detail information of a profile
<EntryName : word16>	Range entry name in 16 char's
	Output modifiers
begin	Begin with the line that matches
exclude	Exclude lines that match
include	Include lines that match
<LINE>	String to match output lines

EXAMPLE

```
LGB1152A# show ipmc range
LGB1152A#
```



CHAPTER 21: SHOW OF CLI

21.14 IPV6

IPv6 configuration commands

SYNTAX

```
show ipv6 mld snooping [ vlan | group-database | detail | mrouter ]
```

```
show ipv6 mld snooping
```

```
show ipv6 interface
```

```
show ipv6 interface vlan <vlan_list> brief
```

```
show ipv6 neighbor
```

```
show ipv6 neighbor interface vlan <vlan_list>
```

```
show ipv6 route
```

```
show ipv6 route interface vlan <vlan_list>
```

PARAMETER

mld	IPv6 configuration commands
interface	IPv6 configuration commands
neighbor	IPv6 neighbors
route	IPv6 routes
snooping	Snooping MLD
detail	Detail running information/statistics of MLD snooping
group-database	Multicast group database from MLD
mrouter	Multicast router port status in MLD
vlan	Search by VLAN
vlan	VLAN of IPv6 interface
<vlan_list>	IPv6 interface VLAN list (1-4095)
brief	Brief summary of IPv6 status and configuration
interface	Select an interface to configure

EXAMPLE

```
LGB1152A# show ipv6 mld snooping detail
MLD Snooping is disabled to stop snooping IGMP control plane.
Multicast streams destined to unregistered MLD groups will be flooding.
LGB1152A#
```

CHAPTER 21: SHOW OF CLI

21.15 LACP

LACP configuration/status

SYNTAX

```
show lacp { internal | statistics | system-id | neighbour } [ | {begin | exclude | include } <LINE>]
```

PARAMETER

internal	Internal LACP configuration
neighbour	Neighbor LACP status
statistics	Internal LACP statistics
system-id	LACP system id
	Output modifiers
begin	Begin with the line that matches
exclude	Exclude lines that match
include	Include lines that match
<LINE>	String to match output lines

EXAMPLE

```
LGB1152A# show lacp internal
Port  Mode      Key  Role  Timeout  Priority
----  -
1     Disabled  Auto Active Fast      32768
2     Disabled  Auto Active Fast      32768
3     Disabled  Auto Active Fast      32768
4     Disabled  Auto Active Fast      32768
5     Disabled  Auto Active Fast      32768
6     Disabled  Auto Active Fast      32768
7     Disabled  Auto Active Fast      32768
LGB1152A#
```



CHAPTER 21: SHOW OF CLI

21.16 LINE

TTY line information

SYNTAX

```
show line [ alive ] [ | {begin | exclude | include } <LINE>]
```

PARAMETER

alive	Display information about alive lines
begin	Begin with the line that matches
exclude	Exclude lines that match
include	Include lines that match
<LINE>	String to match output lines

EXAMPLE

```
LGB1152A# show line alive
Line is con 0.
* You are at this line now.
Alive from Console.
Default privileged level is 2.
Command line editing is enabled
Display EXEC banner is enabled.
Display Day banner is enabled.
Terminal width is 80.
length is 24.
history size is 32.
exec-timeout is 10 min 0 second.
Current session privilege is 15.
Elapsed time is 0 day 0 hour 26 min 52 sec.
Idle time is 0 day 0 hour 0 min 0 sec.
LGB1152A#
```



CHAPTER 21: SHOW OF CLI

21.17 LLDP

show lldp configuration

SYNTAX

show lldp

show lldp interface { * | [GigabitEthernet <port _list>] }

show lldp med media-vlan-policy

show lldp med media-vlan-policy <policy_list>

show lldp med remote-device

show lldp med remote-device interface { * | [GigabitEthernet <port _list>] }

show lldp neighbors

show lldp neighbors interface { * | [GigabitEthernet <port _list>] }

show lldp statistics

show lldp statistics [interface <port_type> <port_type_list>] [| {begin | exclude | include } <LINE>]

PARAMETER

interface	Interface to display
med	Display LLDP-MED neighbors information
neighbors	Display LLDP neighbors information
statistics	Display LLDP statistics information
*	All Switches or All ports
Gigabitethernet	GigabitEthernet
<port_list>	Port List S/X-Y,Z (1/1-52)
media-vlan-policy	Display media vlan policies
remote-device	Display remote device LLDP-MED neighbors information
<policy_list>	e.g. 0,1,2, (0-31)
Interface	Interface to display



CHAPTER 21: SHOW OF CLI

EXAMPLE

```
LGB1152A# show lldp interface GigabitEthernet 1/4
LLDP Configuration
=====
TX Interval : 30 sec
TX Hold : 4 sec
TX Delay : 2 sec
TX Reinit : 2 sec

GigabitEthernet 1/4
-----
TX/RX Mode : Disabled
CDP Aware : Disable
Port Descr : Enable
Sys Name : Enable
Sys Descr : Enable
Sys Capa : Enable
Mgmt Addr : Enable
LGB1152A#
```

21.18 LOGGING

Syslog

SYNTAX

```
show logging [ <logging_id : 1-4294967295> | alert | crit | debug | emerg | error | info | notice | warning ]
```

```
show logging
```

PARAMETER

<logging_id: 1-4294967295>	Logging ID (1..4294967295)
alert	Alert
crit	Critical
debug	Debug
emerg	Emergency
error	Error
info	Information
notice	Notice
warning	Warning

CHAPTER 21: SHOW OF CLI

EXAMPLE

```
LGB1152A# show logging info
Switch logging host mode is disable
Host address 1:
Host address 2:
Host address 3:
Host address 4:
Host address 5:
Host address 6:

Number of entries on Switch:
ID      Level   Time                Message
-----
3       Info    2017-01-01 00:01:16  LOGIN: Login passed for user 'admin'
4       Info    2017-01-01 00:15:21  LOGOUT: User 'admin' logout
5       Info    2017-01-01 00:15:35  LOGIN: Login passed for user 'admin'
6       Info    2017-01-01 00:25:38  LOGOUT: User 'admin' logout
7       Info    2017-01-01 01:02:02  LOGIN: Login passed for user 'admin'
LGB1152A#
```

21.19 LOOP PROTECT

show Loop protection

SYNTAX

show loop-protect

show loop-protect interface { * | [GigabitEthernet <port _list>] }

PARAMETER

interface	Interface status and configuration
*	All Switches or All ports
Gigabitethernet	GigabitEthernet
<port_list>	Port List S/X-Y,Z (1/1-52)



CHAPTER 21: SHOW OF CLI

EXAMPLE

```
LGB1152A# show loop-protect interface GigabitEthernet 1/3
Loop Protection Configuration
=====
Loop Protection      : Disable
Transmission Time   : 5 sec
Shutdown Time       : 180 sec

GigabitEthernet 1/3
-----
Mode : Enabled
Action : Shutdown
Transmit mode : Disabled
The number of loops : 0
loop : -
Status : Down
LGB1152A#
```

21.20 MAC

Mac Address Table information

SYNTAX

show mac address-table

show mac address-table address <mac_ucast>

show mac address-table address <mac_ucast> vlan <vlan_id>

show mac address-table [aging-time|conf|static]

show mac address-table count

show mac address-table count interface { * | [GigabitEthernet <port_list>] }

show mac address-table interface { * | [GigabitEthernet <port_list>] }

show mac address-table learning

show mac address-table learning interface { * | [GigabitEthernet <port_list>] }

show mac address-table vlan <vlan_id>

CHAPTER 21: SHOW OF CLI

PARAMETER

address-table	Mac Address Table
address	MAC address lookup
aging-time	Aging time
conf	User added static mac addresses
count	Total number of mac addresses
interface	Select an interface to configure
learning	Learn/disable/secure state
static	All static mac addresses
vlan	Addresses in this VLAN
<mac_ucast>	48 bit MAC address: xx:xx:xx:xx:xx:xx
vlan	VLAN lookup
<vlan_id>	VLAN IDs 1-4095 (1-4095)
*	All Switches or All ports
GigabitEthernet	GigabitEthernet
<port_list>	Port List S/X-Y,Z (1/1-52)

EXAMPLE

```
LGB1152A# show mac address-table count interface GigabitEthernet 1/4
Port                               Count
-----
GigabitEthernet 1/4                0

Total addresses in table: 1
LGB1152A#
```



CHAPTER 21: SHOW OF CLI

21.21 MONITOR

Monitoring different system events

SYNTAX

```
show monitor [ session ( <1-5> | all | remote ) ]
```

PARAMETER

session	MIRROR session
<1-5>	MIRROR session number
all	Show all MIRROR sessions
remote	Show only Remote MIRROR sessions

EXAMPLE

```
LGB1152A# show monitor
Session 1
-----
Mode: Disabled
Type: Mirror
Source VLAN(s):
CPU Port:

Session 2
-----
Mode: Disabled
Type: Mirror
Source VLAN(s):
CPU Port:

Session 3
-----
Mode: Disabled
Type: Mirror
Source VLAN(s):
CPU Port:
```

CHAPTER 21: SHOW OF CLI

```
Session 4
-----
Mode: Disabled
Type: Mirror
Source VLAN(s):
CPU Port:
```

```
Session 5
-----
Mode: Disabled
Type: Mirror
Source VLAN(s):
CPU Port:
LGB1152A#
```

21.22 MRP

MRP status

SYNTAX

```
show mrp status [ all | mvrp ] interface [ ( * | GigabitEthernet ) <port_type_list> ]
```

PARAMETER

status	Show a collection of MRP statistics for each interface.
all	Show MRP statistics for all MRP Applications.
Interface	Show a collection of MRP statistics for a specific interface(s).
mvrp	Show MRP statistics for the MVRP Application.
*	All switches or All ports
GigabitEthernet	Gigabit Ethernet Port
<port_type_list>	Port list for all port types
<port_type_list>	Port list in 1/1-52



CHAPTER 21: SHOW OF CLI

EXAMPLE

```
LGB1152A# show mrp status all
GigabitEthernet 1/1 :
-----
MRP Appl  FailedRegistrations  LastPduOrigin
-----
MVRP      0                      00-00-00-00-00-00

GigabitEthernet 1/2 :
-----
MRP Appl  FailedRegistrations  LastPduOrigin
-----
MVRP      0                      00-00-00-00-00-00

GigabitEthernet 1/3 :
-----
MRP Appl  FailedRegistrations  LastPduOrigin
-----
MVRP      0                      00-00-00-00-00-00

GigabitEthernet 1/4 :
-----
MRP Appl  FailedRegistrations  LastPduOrigin
-----
MVRP      0                      00-00-00-00-00-00

GigabitEthernet 1/5 :
-----
MRP Appl  FailedRegistrations  LastPduOrigin
-----
MVRP      0                      00-00-00-00-00-00
,
,
,
,

GigabitEthernet 1/51 :
-----
MRP Appl  FailedRegistrations  LastPduOrigin
-----
MVRP      0                      00-00-00-00-00-00
```

CHAPTER 21: SHOW OF CLI

```
GigabitEthernet 1/52 :
-----
MRP Appl  FailedRegistrations  LastPduOrigin
-----
MVRP      0                      00-00-00-00-00-00

LGB1152A#
```

21.23 MVR

Internet Protocol

SYNTAX

show mvr

show mvr detail

show mvr group-database

PARAMETER

detail Detail running information/statistics of MVR

group-database Multicast group database from MVR

EXAMPLE

```
LGB1152A# show mvr group-database
MVR is currently disabled, please enable MVR to start group registration.

MVR Group Database

Switch-1 MVR Group Count: 0
```



CHAPTER 21: SHOW OF CLI

21.24 NTP

Configure NTP

SYNTAX

```
show ntp status
```

PARAMETER

```
status          status
```

EXAMPLE

```
LGB1152A# show ntp status
NTP Mode : Disable
Interval : 1440 min
Idx   Server IP host address (a.b.c.d) or a host name string
---   -----
1
2
3
4
5
6
LGB1152A#
```

21.25 PLATFORM

Platform configuration

SYNTAX

```
show platform phy [ interface ( <port_type> [ <v_port_type_list> ] ) ] [ | {begin | exclude | include } <LINE> ]
show platform phy id [ interface ( <port_type> [ <v_port_type_list> ] ) ] [ | {begin | exclude | include } <LINE> ]
show platform phy instance [ | {begin | exclude | include } <LINE> ]
show platform phy status [ interface ( <port_type> [ <v_port_type_list> ] ) ] [ | {begin | exclude | include } <LINE> ]
```

CHAPTER 21: SHOW OF CLI

PARAMETER

phy	PHYs' information
	Output modifiers
begin	Begin with the line that matches
exclude	Exclude lines that match
include	Include lines that match
<LINE>	String to match output lines

EXAMPLE

```
LGB1152A# show platform phy
Port  API Inst  WAN/LAN/1G  Mode      Duplex    Speed    Link
----  -
1     Default  1G          PD        -         -        ,No
2     Default  1G          PD        -         -        ,No
3     Default  1G          PD        -         -        ,No
```

21.26 PORT SECURITY

```
show port security
```

SYNTAX

```
show port-security switch interface { * | [ GigabitEthernet <port _list> ] }
```

PARAMETER

switch	Show Port Security status
interface	Interface status and configuration
*	All Switches or All ports
Gigabitethernet	GigabitEthernet
<port_list>	Port List S/X-Y,Z (1/1-52)



CHAPTER 21: SHOW OF CLI

EXAMPLE

```
LGB1152A# show port-security switch interface GigabitEthernet 1/4
Interface                State          MAC Cnt
-----                -
GigabitEthernet 1/4     Disabled      -

LGB1152A#
```

21.27 PRIVILEGE

Display privilege level configuration

SYNTAX

```
show privilege group <group> level
```

```
show privilege group level
```

PARAMETER

group Privilege group name

<group> Privilege group name (access-mgmt / arp-inspection / auth-method / dhcp-relay / dhcp-snooping / diagnostic / dot1x / eee / event / forward-failure / ip / ipmc / ip-source-guard / lacp / lldp / loop-protection / mac-table / mirror / mvr / port / port-security / qos / radius / snmp / stp / system / upnp / vlan)

level Privilege group level

EXAMPLE

```
LGB1152A# show privilege group access-mgmt level
Group Name                Read-only  Read-write
-----                -
access-mgmt                5          10

LGB1152A#
```

CHAPTER 21: SHOW OF CLI

21.28 PROCESS

process

SYNTAX

show process [list] [| | detail] (begin | exclude | include) <line>

show process load

PARAMETER

list	list
load	load
	Output modifiers
detail	optionally show thread call stack
begin	Begin with the line that matches
exclude	Exclude lines that match
include	Include lines that match
<line>	String to match output lines

EXAMPLE

```
LGB1152A# show process load
^@0.59 0.51 0.49 1/170 184
LGB1152A#
```



CHAPTER 21: SHOW OF CLI

21.29 PVLAN

PVLAN status

SYNTAX

show pvlan

show pvlan <pvlan_list>

show pvlan isolation

show pvlan isolation interface { * | [GigabitEthernet <port_list>] }

PARAMETER

<pvlan_list>	PVLAN ID to show configuration for (1-10)
isolation	show isolation configuration
interface	Show isolation configuration for specify interface
*	All Switches or All ports
Gigabitethernet	GigabitEthernet
<port_list>	Port List S/X-Y,Z (1/1-52)

EXAMPLE

```
LGB1152A# show pvlan isolation
Port                               Isolation
-----
GigabitEthernet 1/1                Disabled
GigabitEthernet 1/2                Disabled
GigabitEthernet 1/3                Disabled
GigabitEthernet 1/4                Disabled
GigabitEthernet 1/5                Disabled
.
.
.
.
GigabitEthernet 1/N                Disabled
LGB1152A#
```

CHAPTER 21: SHOW OF CLI

21.30 QoS

Quality of Service

SYNTAX

```
show qos
```

```
show qos interface
```

```
show qos interface { * | [ GigabitEthernet <port _list> ] }
```

```
show qos map [ cos-queue | dscp-queue | precedence-queue | queue-cos | queue-dscp | queue-precedence ]
```

PARAMETER

interface	QoS Interface status and configuration
map	Display global QoS Maps/Tables
*	All Switches or All ports
GigabitEthernet	GigabitEthernet
<port_list>	Port List S/X-Y,Z (1/1-52)
cos-queue	Map for CoS to queue
dscp-queue	Map for DSCP to queue
precedence-queue	Map for IP Precedence to queue
queue-cos	Map for queue to CoS
queue-dscp	Map for queue to DSCP
queue-precedence	Map for queue to IP Precedence

EXAMPLE

```
LGB1152A# show qos map queue-precedence
```

```
Queue to IP Precedence mappings
```

```
Queue          0  1  2  3  4  5  6  7
```

```
-----
```

```
IP Precedence  0  1  2  3  4  5  6  7
```

```
LGB1152A#
```



CHAPTER 21: SHOW OF CLI

21.31 RADIUS SERVER

RADIUS configuration

SYNTAX

show radius-server

show radius-server statistics

PARAMETER

statistics RADIUS statistics

EXAMPLE

```
LGB1152A# show radius-server statistics
Global RADIUS Server Timeout: 5 seconds
Global RADIUS Server Retransmit: 3 times
Global RADIUS Server Deadtime: 0 minutes
Global RADIUS Server Key:
Global RADIUS Server Attribute 4:
Global RADIUS Server Attribute 95:
Global RADIUS Server Attribute 32:
LGB1152A#
```

21.32 RMON

RMON statistics

SYNTAX

show rmon history

show rmon history <1-65535>

show rmon statistics

show rmon statistics <1-65535>

show rmon alarm

show rmon alarm <1-65535>

show rmon event

show rmon event <1-65535>

CHAPTER 21: SHOW OF CLI

PARAMETER

history	Display the RMON history table
statistics	Display the RMON statistics table
alarm	Display the RMON alarm table
event	Display the RMON event table
<1-65535>	History entry list (1..65535)
<1-65535>	Statistics entry list (1..65535)
<1-65535>	Alarm entry list (1..65535)
<1-65535>	Event entry list (1..65535)

EXAMPLE

```
LGB1152A# show rmon statistics 5
LGB1152A#
```

21.33 RUNNING CONFIG

Current operating configuration

SYNTAX

show running-config

PARAMETER

CWORD Valid words are 'GVRP' 'access' 'access-list' 'dhcp' 'dhcp-snooping' 'dns' 'dot1x' 'green-ethernet' 'http' 'icli' 'ip-igmp-snooping' 'ip-igmp-snooping-port' 'ip-igmp-snooping-vlan' 'ipmc-profile' 'ipmc-profile-range' 'ipv4' 'ipv6' 'ipv6-mld-snooping' 'ipv6-mld-snooping-port' 'ipv6-mld-snooping-vlan' 'lcp' 'lldp' 'logging' 'loop-protect' 'mac' 'mep' 'monitor' 'mstp' 'mvr' 'mvr-port' 'ntp' 'phy' 'port' 'port-security' 'pvlan' 'qos' 'rmon' 'sflow' 'snmp' 'source-guard' 'ssh' 'system' 'upnp' 'user' 'vlan' 'voice-vlan'



EXAMPLE

```
LGB1152A# show running-config
username admin privilege 15 password none
!
!
interface GigabitEthernet 1/1
!
interface GigabitEthernet 1/2
!
interface GigabitEthernet 1/3
!
interface GigabitEthernet 1/4
!
interface GigabitEthernet 1/5
!
interface GigabitEthernet 1/6
!
.
.
interface GigabitEthernet 1/N
!
!
interface vlan 1
ip address 192.168.1.1 255.255.255.0
!
ip route 0.0.0.0 0.0.0.0 192.168.1.254
end
LGB1152A#
```

CHAPTER 21: SHOW OF CLI

21.34 SFLOW

Statistics flow

SYNTAX

```
show sflow [ statistics { receiver | samplers [[ <range_list> ] <port_type> <port_type_list> ] } ] [ | {begin | exclude | include } <LINE>
```

PARAMETER

statistics	sFlow statistics
receiver	Show statistics for receiver
samplers	Show statistics for samplers
<range_list>	runtime, see sflow_icli_functions
<port_type >	GigabitEthernet
*	All switches or All ports
Gigabitethernet	Gigabit Ethernet Port
<port_type_list>	Port list in 1/1-52 for Gigabitethernet
	Output modifiers
begin	Begin with the line that matches
exclude	Exclude lines that match
include	Include lines that match
<LINE>	String to match output lines



EXAMPLE

```
LGB1152A# show sflow

Agent Configuration:
=====

Agent Address: 127.0.0.1

Receiver Configuration:
=====

Owner      : <none>
Receiver   : 0.0.0.0
UDP Port   : 6343
Max. Datagram: 1400 bytes
Time left  : 0 seconds

No enabled collectors (receivers). Skipping displaying per-port info.
LGB1152A#
```

CHAPTER 21: SHOW OF CLI

21.35 SMTP

Show email information

SYNTAX

```
show smtp
```

EXAMPLE

```
LGB1152A# show smtp
Mail Server:
User Name:
Password:
Sender:
Return Path:
Email Address 1:
Email Address 2:
Email Address 3:
Email Address 4:
Email Address 5:
Email Address 6:
LGB1152A#
```

21.36 SNMP

Display SNMP configuration

SYNTAX

```
show snmp
```

```
show snmp access
```

```
show snmp access <GroupName : word32> [ v1 | v2c | v3 | any ] [ auth | noauth | priv ]
```

```
show snmp community v3
```

```
show snmp community v3 <Community : word32>
```

```
show snmp security-to-group [ v1 | v2c | v3 ] <SecurityName : word32>
```

```
show snmp user
```

```
show snmp user <UserName : word32>
```

```
show snmp view
```

```
show snmp view <ViewName : word32> <OidSubtree : word128>
```



CHAPTER 21: SHOW OF CLI

PARAMETER

access	access configuration
community	Community
security-to-group	security-to-group configuration
user	User
view	MIB view configuration
<GroupName : word32>	Group name (word32)
v1	v1 security model
v2c	v2c security model
v3	v3 security model
any	any security model
auth	authNoPriv Security Level
noauth	noAuthNoPriv Security Level
priv	authPriv Security Level
v3	SNMPv3
<Community : word32>	Specify community name (word32)
<SecurityName : word32>	security group name (word32)
<UserName : word32>	Security user name (word32)
<ViewName : word32>	MIB view name (word32)
<OidSubtree : word128>	MIB view OID (word128)

EXAMPLE

```
LGB1152A# show snmp
SNMP Configuration
Read Community: public
Write Community: private
Write Mode: enabled

SNMPv3 Communities Table:

SNMPv3 Users Table:

SNMPv3 Groups Table:

SNMPv3 Accesses Table:

SNMPv3 Views Table:
LGB1152A#
```

CHAPTER 21: SHOW OF CLI

21.37 SPANNING TREE

Spanning Tree protocol

SYNTAX

show spanning-tree mst configuration

show spanning-tree mst <0-4094>

show spanning-tree mst <0-4094> port

show spanning-tree mst <0-4094> port configuration

PARAMETER

mst	STP bridge instance
<0-4094>	MST instance ID , 0 is for CIST (0..4094)
configuration	MST Region Info and MSTI VLAN map
port	MST port status
configuration	MST port configuration

EXAMPLE

```
LGB1152A# show spanning-tree mst configuration
Multiple Spanning Tree Protocol : Disable
Force Version : MSTP
Region Name : 00-40-C7-01-03-05
Revision Level : 0

MSTI 0 (CIST) : vlan 1-4094

LGB1152A#
```



CHAPTER 21: SHOW OF CLI

21.38 SVL

Shared VLAN Learning configuration

SYNTAX

```
show svl fid [ | ( begin | exclude | include ) <line> ] | <1~4095>
```

```
show svl fid
```

PARAMETER

	Output modifiers
fid	Show a given FID
vlan	Show a given VLAN ID
begin	Begin with the line that matches
exclude	Exclude lines that match
include	Include lines that match
<line>	String to match output lines
<1-4095>	List of FIDs to show

EXAMPLE

```
LGB1152A# show svl fid 1
FID   VLANs
-----
 1     1 (default)
LGB1152A#
```

CHAPTER 21: SHOW OF CLI

21.39 SWITCH2GO MANAGEMENT

Show Switch2go Management information

SYNTAX

```
show switch2go-management> [ mobile-link | options | setting ]
```

PARAMETER

mobile-link	Show Registered Mobile Device List
options	Show Port Name Service configuration
setting	Show Switch2go Management configuration

EXAMPLE

```
LGB1152A# show switch2go-management setting
Switch2go Mode: Disabled
Server Address: ipush.cloudapp.net
Server State:

LGB1152A#
```

21.40 SWITCHPORT

Display switching mode characteristics

SYNTAX

```
show switchport forbidden [ { vlan <vlan_id> } | { name <word> } ] [ | {begin | exclude | include } <LINE>
```

PARAMETER

forbidden	Lookup VLAN Forbidden port entry.
name	name - Show forbidden access for specific VLAN name.
vlan	vid - Show forbidden access for specific VLAN id.
<vlan_id>	VLAN id
<word>	VLAN name
	Output modifiers
begin	Begin with the line that matches
exclude	Exclude lines that match



CHAPTER 21: SHOW OF CLI

include Include lines that match
<LINE> String to match output lines

EXAMPLE

```
LGB1152A# show switchport forbidden
Forbidden VLAN table is empty
LGB1152A#
```

21.41 SYSTEM

show system information

SYNTAX

show system

PARAMETER

none

EXAMPLE

```
LGB1152A# show system
Model Name:
System Description: Hardware Version: v1.01
Mechanical Version: v1.01
Firmware Version: v1.00.844
MAC Address: 00-40-C7-1F-00-7D
Serial Number: C020316AR2900005
System Name:
Location:
Contact:
System Date: 2017-01-01 00:23:25 +0000
System Uptime: 0 days, 0:23:40
LGB1152A#
```

CHAPTER 21: SHOW OF CLI

21.42 TACACS SERVER

TACACS+ configuration

SYNTAX

show tacacs-server

EXAMPLE

```
LGB1152A# show tacacs-server
Global TACACS+ Server Timeout: 5 seconds
Global TACACS+ Server Deadtime: 0 minutes
Global TACACS+ Server Key:

LGB1152A#
```

21.43 TERMINAL

Display terminal configuration parameters

SYNTAX

show terminal [| {begin | exclude | include } <LINE>

PARAMETER

	Output modifiers
begin	Begin with the line that matches
exclude	Exclude lines that match
include	Include lines that match
<LINE>	String to match output lines



CHAPTER 21: SHOW OF CLI

EXAMPLE

```
LGB1152A# show terminal
Line is con 0.
* You are at this line now.
Alive from Console.
Default privileged level is 2.
Command line editing is enabled
Display EXEC banner is enabled.
Display Day banner is enabled.
Terminal width is 80.
length is 24.
history size is 32.
exec-timeout is 10 min 0 second.
Current session privilege is 15.
Elapsed time is 0 day 0 hour 29 min 24 sec.
Idle time is 0 day 0 hour 0 min 0 sec.
LGB1152A#
```

21.44 UDLD

Uni Directional Link Detection(UDLD) configurations, statistics and status

SYNTAX

show privilege group <group> level

show privilege group level

PARAMETER

	Output modifiers
interface	Choose port
begin	Begin with the line that matches
exclude	Exclude lines that match
include	Include lines that match
<line>	String to match output lines
*	All switches or All ports
GigabitEthernet	Gigabit Ethernet Port
<port_type_list>	Port list for all port types
<port_type_list>	Port list in 1/1-52

CHAPTER 21: SHOW OF CLI

EXAMPLE

```
LGB1152A# show uddl interface GigabitEthernet 1/1

GigabitEthernet 1/1
-----
UDDL Mode: Disable
Admin State: Disable
Message Time Interval(Sec): 7
Device ID(local): 00-19-92-DB-00-6A
Device Name(local):
Bidirectional state: Indeterminant

No neighbor cache information stored
-----

LGB1152A#
```

21.45 UPNP

show UPnP configuration

SYNTAX

show upnp

EXAMPLE

```
LGB1152A# show upnp
UPnP Mode: Disabled
Interface VLAN: 1
UPnP TTL: 4
UPnP Advertising Duration: 100

LGB1152A#
```



CHAPTER 21: SHOW OF CLI

21.46 USER PRIVILEGE

Users privilege configuration

SYNTAX

show user-privilege

EXAMPLE

```
LGB1152A# show user-privilege
username admin privilege 15 password none

LGB1152A#
```

21.47 USERS

Display information about terminal lines

SYNTAX

show users myself [| {begin | exclude | include } <LINE>

PARAMETER

myself	Display information about mine
	Output modifiers
begin	Begin with the line that matches
exclude	Exclude lines that match
include	Include lines that match
<LINE>	String to match output lines

CHAPTER 21: SHOW OF CLI

EXAMPLE

```
LGB1152A# show user myself
Line is vty 0.
* You are at this line now.
Connection is from 192.168.10.119:4123 by Telnet.
User name is admin.
Privilege is 15.
Elapsed time is 0 day 1 hour 33 min 27 sec.
Idle time is 0 day 0 hour 0 min 0 sec.

LGB1152A#
```

21.48 VERSION

System software status

SYNTAX

show version

EXAMPLE

```
LGB1152A# show version
Active Image
-----
Partition: secondary
Version: v1.00.844
Date: 2017-03-06 13:37:35 UTC

Alternate Image
-----
Partition: primary
Version: v0.91.422
Date: 2016-11-18 13:45:16 UTC

LGB1152A#
```



CHAPTER 21: SHOW OF CLI

21.49 VLAN

VLAN status

SYNTAX

show vlan

show vlan brief

show vlan id <vlan_list>

show vlan ip-subnet

show vlan ip-subnet address

show vlan ip-subnet address < ipv4_addr >

show vlan mac config

show vlan mac config address <mac_ucast>

show vlan mac status

show vlan mac status address <mac_ucast>

show vlan mapping

show vlan protocol

show vlan protocol { [eth2 <ethernet value>] | [llc <dsap value> <ssap value>] | [snap <snap oui> <pid value>] }

show vlan status

show vlan status [admin | all | combined | gvrp | mstp | mvr | nas | vcl | voice-vlan]

show vlan status [admin | all | combined | gvrp | mstp | mvr | nas | vcl | voice-vlan] interface { * | [GigabitEthernet <port_list>] }

show vlan status interface { * | [GigabitEthernet <port_list>] } [admin | all | combined | gvrp | mstp | mvr | nas | vcl | voice-vlan]

PARAMETER

show brief	VLAN summary information
id	VLAN status by VLAN id
ip-subnet	Show VLAN ip-subnet entries
mac	Show VLAN MAC entries
mapping	Show VLAN Selective QinQ entries
protocol	Protocol-based VLAN status
status	Show the VLANs configured for each interface
<vlan_list>	VLAN ID to show configuration for (1-4095)
address	Show a specific ip-subnet entry
<ipv4_addr>	The specific ip-subnet to show. (X.X.X.X)
config	Show VLAN MAC config.
status	Show VLAN MAC status.
address	Show a specific MAC entry
<mac_ucast>	The specific MAC entry to show
eth2	Ethernet protocol based VLAN status

CHAPTER 21: SHOW OF CLI

llc	LLC-based VLAN group
snap	SNAP-based VLAN group
<ethernet value>	Ether Type(Range: 0x600 - 0xFFFF)
<dsap value>	DSAP(Range: 0x00 - 0xFF)
<ssap value>	SSAP(Range: 0x00 - 0xFF)
<snap oui>	SNAP OUI(must be 0x000000)
<pid value>	PID(Range: 0x0000 - 0xFFFF)
admin	Show the VLANs configured by administrator
all	Show all VLANs configured
combined	Show the VLANs configured by a combination
gvrp	Show the VLANs configured by GVRP
interface	Show the VLANs configured for a specific interface
mstp	Show the VLANs configured by MSTP
mvr	Show the VLANs configured by MVR
nas	Show the VLANs configured by NAS
vcl	Show the VLANs configured by VCL
voice-vlan	Show the VLANs configured by Voice VLAN
*	All Switches or All ports
Gigabitethernet	GigabitEthernet
<port_list>	Port List S/X-Y,Z (1/1-52)

EXAMPLE

```
LGB1152A# show vlan status all interface GigabitEthernet 1/4
GigabitEthernet 1/4:
-----
VLAN User  PortType  PVID  Frame Type  Ing Filter  Tx Tag
-----
Admin      C-Port    1      All          Enabled     None
NAS
GVRP
MVR
Voice VLAN
MSTP
DMS
VCL
Combined  C-Port    1      All          Enabled     None

LGB1152A#
```



CHAPTER 21: SHOW OF CLI

21.50 VOICE

show voice

SYNTAX

show voice vlan

PARAMETER

vlan show voice vlan

EXAMPLE

```
LGB1152A# show voice vlan
no Switch voice setting

Voice VLAN switchport is configured on following:

GigabitEthernet 1/1:
-----
GigabitEthernet 1/1 switchport voice vlan mode is forced
GigabitEthernet 1/1 switchport voice security is disabled
GigabitEthernet 1/1 switchport voice discovery protocol is oui

GigabitEthernet 1/2:
-----
GigabitEthernet 1/2 switchport voice vlan mode is forced
GigabitEthernet 1/2 switchport voice security is disabled
GigabitEthernet 1/2 switchport voice discovery protocol is oui

GigabitEthernet 1/3:
-----
GigabitEthernet 1/3 switchport voice vlan mode is forced
GigabitEthernet 1/3 switchport voice security is disabled
GigabitEthernet 1/3 switchport voice discovery protocol is oui

GigabitEthernet 1/4:
-----
GigabitEthernet 1/4 switchport voice vlan mode is forced
GigabitEthernet 1/4 switchport voice security is disabled
GigabitEthernet 1/4 switchport voice discovery protocol is oui
```

CHAPTER 21: SHOW OF CLI

```
GigabitEthernet 1/5:
-----
GigabitEthernet 1/5 switchport voice vlan mode is forced
GigabitEthernet 1/5 switchport voice security is disabled
GigabitEthernet 1/5 switchport voice discovery protocol is oui

GigabitEthernet 1/6:
-----
GigabitEthernet 1/6 switchport voice vlan mode is forced
GigabitEthernet 1/6 switchport voice security is disabled
GigabitEthernet 1/6 switchport voice discovery protocol is oui
.
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GigabitEthernet 1/N:
-----
GigabitEthernet 1/N switchport voice vlan mode is forced
GigabitEthernet 1/N switchport voice security is disabled
GigabitEthernet 1/N switchport voice discovery protocol is oui

LGB1152A#
```



CHAPTER 21: SHOW OF CLI

21.51 WEB

web

SYNTAX

show web privilege group [<word>] level [| {begin | exclude | include } <LINE>

PARAMETER

privilege	Web privilege
group	Web privilege group
CWORD	Valid words are 'Aggregation' 'DHCP' 'Debug' 'Dhcp_Client' 'Diagnostics' 'EEE' 'GARP' 'GVRP' 'Green_Ethernet' 'IP2' 'IPMC_Snooping' 'LACP' 'LLDP' 'Loop_Protect' 'MAC_Table' 'MVR' 'Maintenance' 'Mirroring' 'NTP' 'Ports' 'Private_VLANs' 'QoS' 'RPC' 'Security' 'Spanning_Tree' 'System' 'Timer' 'UPnP' 'VCL' 'VLANs' 'Voice_VLAN' 'XXRP' 'sFlow' 'sFlow'
level	Web privilege group level
	Output modifiers
begin	Begin with the line that matches
exclude	Exclude lines that match
include	Include lines that match
<LINE>	String to match output lines

EXAMPLE

```
LGB1152A# show web privilege group level
Group Name                Privilege Level
                          CRO CRW SRO SRW
-----
ACTIVATE                  5  10  5  10
Aggregation                5  10  5  10
cloud_management          5  10  5  10
Debug                     15  15  15  15
DHCP                      5  10  5  10
Dhcp_Client                5  10  5  10
Diagnostics                5  10  5  10
EEE                        5  10  5  10
GARP                      5  10  5  10
Green_Ethernet            5  10  5  10
GVRP                      5  10  5  10
IP2                       5  10  5  10
IPMC_Snooping             5  10  5  10
LACP                      5  10  5  10
```

CHAPTER 21: SHOW OF CLI

```
LLDP                5 10  5 10
Loop_Protect        5 10  5 10
MAC_Table           5 10  5 10
Maintenance         15 15 15 15
Mirroring           5 10  5 10
MVR                 5 10  5 10
NTP                 5 10  5 10
Ports               5 10  1 10
Private_VLANS       5 10  5 10
QoS                 5 10  5 10
RPC                 5 10  5 10
Security            5 10  5 10
sFlow               5 10  5 10
Spanning_Tree       5 10  5 10
System              5 10  1 10
Timer               5 10  5 10
Trap_Event          5 10  5 10
Trouble_Shooting    5 10  5 10
```



CHAPTER 22: TERMINAL OF CLI

Set terminal line parameters

SYNTAX

terminal exec-timeout <0-1440>

PARAMETER

exec-timeout	Set the EXEC timeout
<0-1440>	Timeout in minutes

EXAMPLE

```
LGB1152A# terminal exec-timeout 3  
LGB1152A#
```



CHAPTER 23: TRACEROUTE OF CLI

Copy from source to destination

SYNTAX

```
traceroute ip <ipv4_addr>
```

```
traceroute ip <ipv4_addr> { protocol [ icmp | udp ] } [ wait <1-60> ] [ ttl <1-255> ] [ nqueries <1-10> ]
```

```
traceroute ipv6 <ipv6_addr>
```

```
traceroute ipv6 <ipv6_addr> { protocol [ icmp | udp ] } [ wait <1-60> ] [ ttl <1-255> ] [ nqueries <1-10> ]
```

PARAMETER

ip	Internet protocol version 4
ipv6	Internet protocol version 6
<ipv4_addr>	IP destination address (X.X.X.X)
protocol	IP Protocol
wait	Set the number of seconds to wait for response to a probe
ttl	Set the max number of hops
nqueries	Set the number of probes per each hop
icmp	Use ICMP ECHO for tracerouting (default)
udp	Use UDP Port for tracerouting
tcp	Use TCP Sync for tracerouting (default)
<1-60>	Time in seconds to wait for a response. Default is 3s. (1..60)
<1-255>	Max time-to-live. Default is 30. (1..255)
<1-10>	Max time-to-live. Default is 3. (1..10)
<ipv6_addr>	IPv6 destination address (X:X:X:X:X:X)

EXAMPLE

```
LGB1152A# traceroute ip 192.168.1.1 protocol icmp wait 3 ttl 5 nqueries 6
traceroute to 192.168.1.1 (192.168.1.1), 5 hops max, 38 byte packets
 1  192.168.1.1 (192.168.1.1)  10.000 ms  0.000 ms  0.000 ms  0.000 ms  0.000 ms  0.000 ms
LGB1152A#
```



CHAPTER 24: CLI COMMAND REFERENCES

This chapter introduces the CLI privilege level and command modes.

- ◆ The privilege level determines whether or not the user could run the particular commands
- ◆ If the user could run the particular command, then the user has to run the command in the correct mode.

24.1 PRIVILEGE LEVEL

Every command has a privilege level (0–15). Users can run a command if the session's privilege level is greater than or equal to the command's privilege level. The session's privilege level initially comes from the login account's privilege level, though it is possible to change the session's privilege level after logging in.

TABLE 24-1. PRIVILEGE LEVEL AND COMMANDS

PRIVILEGE LEVEL	TYPES OF COMMANDS AT THIS PRIVILEGE LEVEL
0	Display basic system information
13	Configure features except for login accounts, the authentication method sequence, multiple logins, and administrator and enable passwords
15	Configure login accounts, the authentication method sequence, multiple logins, and administrator and enable passwords-

24.2 COMMAND MODES

The CLI is divided into several modes. If a user has enough privilege to run a particular command, the user has to run the command in the correct mode. The modes that are available depend on the session's privilege level.

TABLE 24-2. COMMAND SUMMARY

COMMAND	DESCRIPTION	P	M
show access management	Use the show access management user EXEC command without keywords to display the access management configuration, or use the statistics keyword to display statistics, or use the <AccessId> keyword to display the specific access management entry	15	EXEC
clear access management statistics	Use the clear access management statistics privileged EXEC command to clear the statistics maintained by access management.	15	EXEC
access management	Use the access management global configuration command to enable the access management. Use the no form of this command to disable the access management.	15	GLOBAL_CONFIG
access management <1-16> <1-4094> <ipv4_addr> [to <ipv4_addr>] {[web] [snmp] [telnet] all }	Use the access management <AccessId> global configuration command to set the access management entry for IPv4 address.	15	GLOBAL_CONFIG
access management <1-16> <1-4094> <ipv6_addr> [to <ipv6_addr>] {[web] [snmp] [telnet] all }	Use the access management <AccessId> global configuration command to set the access management entry for IPv6 address.	15	GLOBAL_CONFIG

CHAPTER 24: CLI COMMAND REFERENCES

TABLE 24-2 (CONTINUED). COMMAND SUMMARY

COMMAND	DESCRIPTION	P	M
no access management <1-16>	Use the no access management <AccessIdList> global configuration command to delete the specific access management entry.	15	GLOBAL_CONFIG
access-list action { permit deny }	Use the access-list action interface configuration command to configure access-list action. The access-list interface configuration will affect the received frames if it doesn't match any ACE.	15	INTERFACE_PORT_LIST
access-list rate-limiter <1-16>	Use the access-list rate-limiter interface configuration command to configure the access-list rate-limiter ID. The access-list interface configuration will affect the received frames if it doesn't match any ACE.	15	INTERFACE_PORT_LIST
no access-list rate-limiter	Use the no access-list rate-limiter interface configuration command to disable the access-list rate-limiter. The access-list interface configuration will affect the received frames if it doesn't match any ACE.	15	INTERFACE_PORT_LIST
access-list { redirect port-copy } interface { <port_type_id> <port_type_list> }	Use the no access-list redirect interface configuration command to configure the access-list redirect interface.	15	INTERFACE_PORT_LIST
no access-list { redirect port-copy }	Use the no access-list redirect interface configuration command to disable the access-list redirect. The access-list interface configuration will affect the received frames if it doesn't match any ACE.	15	INTERFACE_PORT_LIST
access-list mirror	Use the access-list mirror interface configuration command to enable access-list mirror. Use the no form of this command to disable access-list mirror. The access-list interface configuration will affect the received frames if it doesn't match any ACE.	15	INTERFACE_PORT_LIST
access-list logging	Use the access-list logging interface configuration command to enable access-list logging. Use the no form of this command to disable access-list logging. The access-list interface configuration will affect the received frames if it doesn't match any ACE.	15	INTERFACE_PORT_LIST
access-list shutdown	Use the access-list shutdown interface configuration command to enable access-list shutdown. Use the no form of this command to disable access-list shutdown. The access-list interface configuration will affect the received frames if it doesn't match any ACE.	15	INTERFACE_PORT_LIST
access-list evc-policer <1-256>	Use the access-list evc-policer interface configuration command to configure the access-list evc-policer ID. The access-list interface configuration will affect the received frames if it doesn't match any ACE.	15	INTERFACE_PORT_LIST
no access-list evc-policer	Use the no access-list evc-policer interface configuration command to configure the access-list evc-policer ID. The access-list interface configuration will affect the received frames if it doesn't match any ACE.	15	INTERFACE_PORT_LIST
access-list policy <0-255>	Use the access-list policy interface configuration command to configure the access-list policy value. The access-list interface configuration will affect the received frames if it doesn't match any ACE.	15	INTERFACE_PORT_LIST



CHAPTER 24: CLI COMMAND REFERENCES

TABLE 24-2 (CONTINUED). COMMAND SUMMARY

COMMAND	DESCRIPTION	P	M
no access-list policy	Use the no access-list policy interface configuration command to restore the default access-list policy ID. The access-list interface configuration will affect the received frames if it doesn't match any ACE.	15	INTERFACE_PORT_LIST
access-list port-state	Use the access-list port-state interface configuration command to enable access-list port state. Use the no form of this command to disable access-list port state.	15	INTERFACE_PORT_LIST
access-list rate-limiter [<code><1-16></code>] { pps <code><1,2,4,8,16,32,64,128,256,512></code> 100pps <code><1-32767></code> kpps <code><1,2,4,8,16,32,64,128,256,512,1024></code> 100kbps <code><0-10000></code> }	Use the access-list rate-limiter global configuration command to configure the access-list rate-limiter..	15	INTERFACE_PORT_LIST
default access-list rate-limiter [<code><1-16></code>]	Use the default access-list rate-limiter global configuration command to restore the default setting of access-list rate-limiter.	15	GLOBAL_CONFIG
access-list ace [update] <code><1-256></code> [next <code><1-256></code> last] [ingress {switch <code><switch_id></code> switchport <code><1-53></code> <code><1~53></code> } interface <code><port_type_id></code> <code><port_type_list></code> any] [policy <code><0-255></code> [policy-bitmask <code><0x0-0xFF></code>]] [tag {tagged untagged any}] [vid <code><1-4095></code> any] [tag-priority <code><0-7></code> <code>0-1</code>] <code>2-3</code> <code>4-5</code> <code>6-7</code> <code>0-3</code> <code>4-7</code> any] [dmac-type {unicast multicast broadcast any}] [frametype { any etype [etype-value <code><0x600-0x7ff,0x801-0x805,0x807-0x86dc,0x86de-0xffff></code> any}] [smac <code><mac_addr></code> any] [dmac <code><mac_addr></code> any] [arp [sip <code><ipv4_subnet></code> any] [dip <code><ipv4_subnet></code> any] [smac <code><mac_addr></code> any] [arp-opcode {ar rar p other any}] [arp-flag [arp-request <code><0-1></code> any] [arp-smac <code><0-1></code> any] [arp-tmac <code><0-1></code> any] [arp-len <code><0-1></code> any] [arp-ip <code><0-1></code> any] [arp-ether <code><0-1></code> any]]] ipv4 [sip <code><ipv4_subnet></code> any] [dip <code><ipv4_subnet></code> any] [ip-protocol <code><0,2-5,7-16,18-255></code> any] [ip-flag [ip-ttl <code><0-1></code> any] [ip-options <code><0-1></code> any] [ip-fragment <code><0-1></code> any]]] ipv4-icmp [sip <code><ipv4_subnet></code> any] [dip <code><ipv4_subnet></code> any] [icmp-type <code><0-255></code> any] [icmp-code <code><0-255></code> any] [ip-flag [ip-ttl <code><0-1></code> any] [ip-options <code><0-1></code> any] [ip-fragment <code><0-1></code> any]]] ipv4-udp [sip <code><ipv4_subnet></code> any] [dip <code><ipv4_subnet></code> any] [sport <code><0-65535></code> [to <code><0-65535></code>]any] [dport <code><0-65535></code> [to <code><0-65535></code>]any] [ip-flag [ip-ttl <code><0-1></code> any] [ip-options <code><0-1></code> any] [ip-fragment <code><0-1></code> any]]] [tcp-flag	Use the access-list ace global configuration command to set the access-list ace. The command without the update keyword will creates or overwrites an existing ACE, any unspecified parameter will be set to its default value. Use the update keyword to update an existing ACE and only specified parameter are modified. The ACE must ordered by an appropriate sequence, the received frame will only be hit on the first matched ACE. Use the next or last keyword to adjust the ACE's sequence order.	15	GLOBAL_CONFIG

CHAPTER 24: CLI COMMAND REFERENCES

TABLE 24-2 (CONTINUED). COMMAND SUMMARY

COMMAND	DESCRIPTION	P	M
[tcp-fin {<0-1>}] [tcp-syn {<0-1>}] [tcp-rst {<0-1>}] [tcp-psh {<0-1>}] [tcp-ack {<0-1>}] [tcp-urg {<0-1>}] ipv6 [next-header {<0-5,7-16,18-57,59-255>}] [sip {<ipv6_addr> [sip-bitmask <uint>]}] [hop-limit {<0-1>}] ipv6-icmp [sip {<ipv6_addr> [sip-bitmask <uint>]}] [icmp-type {<0-255>}] [icmp-code {<0-255>}] [hop-limit {<0-1>}] ipv6-udp [sip {<ipv6_addr> [sip-bitmask <uint>]}] [sport {<0-65535> [to <0-65535>]}] [dport {<0-65535> [to <0-65535>]}] [hop-limit {<0-1>}] ipv6-tcp [sip {<ipv6_addr> [sip-bitmask <uint>]}] [sport {<0-65535> [to <0-65535>]}] [dport {<0-65535> [to <0-65535>]}] [hop-limit {<0-1>}] [tcp-flag [tcp-fin {<0-1>}] [tcp-syn {<0-1>}] [tcp-rst {<0-1>}] [tcp-psh {<0-1>}] [tcp-ack {<0-1>}] [tcp-urg {<0-1>}]] [action {permit deny filter {switchport <1~53>}interface <port_type_list>}}] [rate-limiter {<1-16>}] [evc-policer {<1-256>}] [{redirect port-copy} {switchport {<1-53>}interface {<port_type_id> <port_type_list>}]}] [mirror [disable]] [logging [disable]] [shutdown [disable]] [lookup [disable]]	Use the access-list ace global configuration command to set the access-list ace. The command without the update keyword will creates or overwrites an existing ACE, any unspecified parameter will be set to its default value. Use the update keyword to update an existing ACE and only specified parameter are modified. The ACE must ordered by an appropriate sequence, the received frame will only be hit on the first matched ACE. Use the next or last keyword to adjust the ACE's sequence order.	15	GLOBAL_CONFIG
no access-list ace <1-256>	Use the no access-list ace global configuration command to delete the access-list ace.	15	GLOBAL_CONFIG
show access-list [interface [<port_type_list>]] [rate-limiter [<1~16>]] [ace statistics [<1~256>]]	Use the show access-list privilege EXEC command without keywords to display the access-list configuration, or particularly the show access-list interface for the access-list interface configuration, or use the rate-limiter keyword to display access-list rate-limiter configuration, or use the ace keyword to display access-list ace configuration..	15	EXEC
clear access-list ace statistics	Use the clear access-list ace statistics privileged EXEC command to clear the statistics maintained by access-list, including access-list interface statistics and ACE's statistics.	15	EXEC
show access-list ace-status [static] [link-oam] [loop-protect] [dhcp] [ptp] [upnp] [arp-inspection] [mep] [ipmc] [ip-source-guard] [ip-mgmt] [conflicts] [switch <switch_list>]	Use the show access-list ace-status privilege EXEC command without keywords to display the access-list ace status for all access-list users, or particularly the access-list user for the access-list ace status. Use conflicts keyword to display the access-list ace that doesn't apply on on the hardware. In other word, it means the specific ACE is not applied to the hardware due to hardware limitations.	15	EXEC
show aggregation [mode]		15	EXEC
aggregation mode { [smac] [dmac] [ip] [port] }		15	GLOBAL_CONFIG



CHAPTER 24: CLI COMMAND REFERENCES

TABLE 24-2 (CONTINUED). COMMAND SUMMARY

COMMAND	DESCRIPTION	P	M
no aggregation mode		15	GLOBAL_CONFIG
aggregation group <uint>		15	INTERFACE_PORT_LIST
no aggregation group		15	INTERFACE_PORT_LIST
ip arp inspection	Use the ip arp inspection global configuration command to globally enable ARP inspection. Use the no form of this command to globally disable ARP inspection.	13	GLOBAL_CONFIG
ip arp inspection vlan <vlan_list>	Use the ip arp inspection global configuration command to globally enable ARP inspection. Use the no form of this command to globally disable ARP inspection.	13	GLOBAL_CONFIG
ip arp inspection vlan <vlan_list> logging { deny permit all }		13	GLOBAL_CONFIG
no ip arp inspection vlan <vlan_list> logging		13	GLOBAL_CONFIG
ip arp inspection entry interface <port_type_id> <vlan_id> <mac_ucast> <ipv4_ucast>		13	GLOBAL_CONFIG
arp_inspection_translate		13	GLOBAL_CONFIG
arp_inspection_port_mode	Use the ip arp inspection trust interface configuration command to configure a port as trusted for ARP inspection purposes. Use the no form of this command to configure a port as untrusted.	13	INTERFACE_PORT_LIST
arp_inspection_port_check_vlan	Use the ip arp inspection check-vlan interface configuration command to configure a port as VLAN mode for ARP inspection purposes. Use the no form of this command to configure a port as default.	13	INTERFACE_PORT_LIST
ip arp inspection logging { deny permit all }	Use the ip arp inspection logging interface configuration command to configure a port as some logging mode for ARP inspection purposes. Use the no form of this command to configure a port as logging none.	13	INTERFACE_PORT_LIST
no ip arp inspection logging	Use the no ip arp inspection logging interface configuration command to configure a port as default logging mode for ARP inspection purposes.	13	INTERFACE_PORT_LIST
show ip arp inspection [interface <port_type_list> vlan <vlan_list>]		0	EXEC
show ip arp inspection entry [dhcp- snooping static] [interface <port_ type_list>]		13	EXEC
aaa authentication login { telnet ssh http } { [local radius tacacs] ... }	Use the aaa authentication login command to configure the authentication methods.	15	GLOBAL_CONFIG
no aaa authentication login { telnet ssh http }		15	GLOBAL_CONFIG
radius-server timeout <1-1000>	Use the radius-server timeout command to configure the global RADIUS timeout value.	15	GLOBAL_CONFIG

CHAPTER 24: CLI COMMAND REFERENCES**TABLE 24-2 (CONTINUED). COMMAND SUMMARY**

COMMAND	DESCRIPTION	P	M
no radius-server timeout	Use the no radius-server timeout command to reset the global RADIUS timeout value to default.	15	GLOBAL_CONFIG
radius-server retransmit <1-1000>	Use the radius-server retransmit command to configure the global RADIUS retransmit value.	15	GLOBAL_CONFIG
no radius-server retransmit	Use the no radius-server retransmit command to reset the global RADIUS retransmit value to default.	15	GLOBAL_CONFIG
radius-server deadtime <1-1440>	Use the radius-server deadtime command to configure the global RADIUS deadtime value.	15	GLOBAL_CONFIG
radius-server key <line1-63>	Use the radius-server key command to configure the global RADIUS key.	15	GLOBAL_CONFIG
no radius-server key	Use the no radius-server key command to remove the global RADIUS key.	15	GLOBAL_CONFIG
radius-server attribute 4 <ipv4_ucast>		15	GLOBAL_CONFIG
no radius-server attribute 4		15	GLOBAL_CONFIG
radius-server attribute 95 <ipv6_ucast>		15	GLOBAL_CONFIG
no radius-server attribute 95		15	GLOBAL_CONFIG
radius-server attribute 32 <line1-253>		15	GLOBAL_CONFIG
no radius-server attribute 32		15	GLOBAL_CONFIG
radius-server host <word1-255> [auth-port <0-65535>] [acct-port <0-65535>] [timeout <1-1000>] [retransmit <1-1000>] [key <line1-63>]	Use the radius-server host command to add a new RADIUS host.	15	GLOBAL_CONFIG
no radius-server host <word1-255> [auth-port <0-65535>] [acct-port <0-65535>]	Use the no radius-server host command to delete an existing RADIUS host.	15	GLOBAL_CONFIG
tacacs-server timeout <1-1000>	Use the tacacs-server timeout command to configure the global TACACS+ timeout value.	15	GLOBAL_CONFIG
no tacacs-server timeout	Use the no tacacs-server timeout command to reset the global TACACS+ timeout value to default.	15	GLOBAL_CONFIG
tacacs-server deadtime <1-1440>	Use the tacacs-server deadtime command to configure the global TACACS+ deadtime value.	15	GLOBAL_CONFIG
no tacacs-server deadtime	Use the no tacacs-server deadtime command to reset the global TACACS+ deadtime value to default.	15	GLOBAL_CONFIG
tacacs-server key <line1-63>	Use the tacacs-server key command to configure the global TACACS+ key.	15	GLOBAL_CONFIG
no tacacs-server key	Use the no tacacs-server key command to remove the global TACACS+ key.	15	GLOBAL_CONFIG



CHAPTER 24: CLI COMMAND REFERENCES

TABLE 24-2 (CONTINUED). COMMAND SUMMARY

COMMAND	DESCRIPTION	P	M
tacacs-server host <word1-255> [port <0-65535>] [timeout <1-1000>] [key <line1-63>]	Use the tacacs-server host command to add a new TACACS+ host.	15	GLOBAL_CONFIG
no tacacs-server host <word1-255> [port <0-65535>]	Use the no tacacs-server host command to delete an existing TACACS+ host.	15	GLOBAL_CONFIG
show aaa	Use the show aaa command to view the currently active authentication login methods.	15	GLOBAL_CONFIG
show radius-server [statistics]	Use the show radius-server command to view the current RADIUS configuration and statistics.	15	EXEC
show tacacs-server	Use the show tacacs-server command to view the current TACACS+ configuration.	15	EXEC
debug auth { telnet ssh http } <word31> [<word31>]		Debug	EXEC
clock summer-time <word16> recurring [<1-5> <1-7> <1-12> <hhmm> <1-5> <1-7> <1-12> <hhmm> [<1-1440>]]		13	GLOBAL_CONFIG
clock summer-time <word16> date [<1-12> <1-31> <2000-2097> <hhmm> <1-12> <1-31> <2000-2097> <hhmm> [<1-1440>]] no radius-server attribute 4		13	GLOBAL_CONFIG
no clock summer-time		13	GLOBAL_CONFIG
clock timezone <word16> <-23-23> [<0-59>]		13	GLOBAL_CONFIG
no clock timezone		13	GLOBAL_CONFIG
show clock detail		0	EXEC
show ip dhcp detailed statistics { server client snooping relay normal-forward combined } [interface <port_type_list>]	Use the show ip dhcp detailed statistics user EXEC command to display statistics. Notice that the normal forward per-port TX statistics isn't increased if the incoming DHCP packet is done by L3 forwarding mechanism. Notice that the normal forward per-port TX statistics isn't increased if the incoming DHCP packet is done by L3 forwarding mechanism.	0	EXEC
clear ip dhcp detailed statistics { server client snooping relay helper all } [interface <port_type_list>]	Use the clear ip dhcp detailed statistics privileged EXEC command to clear the statistics, or particularly the IP DHCP statistics for the interface. Notice that except for clear statistics on all interfaces, clear the statistics on specific port may not take effect on global statistics since it gathers the different layer overview.	15	EXEC
clear ip dhcp relay statistics	Use the clear ip dhcp relay statistics privileged EXEC command to clear the statistics maintained by IP DHCP relay.	15	EXEC
show ip dhcp relay [statistics]	Use the show ip dhcp relay user EXEC command without keywords to display the DHCP relay configuration, or use the statistics keyword to display statistics.	0	EXEC

CHAPTER 24: CLI COMMAND REFERENCES

TABLE 24-2 (CONTINUED). COMMAND SUMMARY

COMMAND	DESCRIPTION	P	M
ip dhcp relay	Use the ip dhcp relay global configuration command to enable the DHCP relay server. Use the no form of this command to disable the DHCP relay server.	15	GLOBAL_CONFIG
nip helper-address <ipv4_ucast>	Use the ip helper-address global configuration command to configure the host address of DHCP relay server.	15	GLOBAL_CONFIG
no ip helper-address	Use the no ip helper-address global configuration command to clear the host address of DHCP relay server.	15	GLOBAL_CONFIG
ip dhcp relay information option	Use the ip dhcp relay information option global configuration command to enable the DHCP relay information option. Use the no form of this command to disable the DHCP relay information option. The option 82 circuit ID format as "[vlan_id][module_id][port_no]". The first four characters represent the VLAN ID, the fifth and sixth characters are the module ID (in standalone device it always equal 0, in stackable device it means switch ID), and the last two characters are the port number. For example, "00030108" means the DHCP message receive from VLAN ID 3, switch ID 1, port No 8. And the option 82 remote ID value is equal the switch MAC address.	15	GLOBAL_CONFIG
ip dhcp relay information policy { drop keep replace }	Use the ip dhcp relay information policy global configuration command to configure the DHCP relay information policy. When DHCP relay information mode operation is enabled, if the agent receives a DHCP message that already contains relay agent information it will enforce the policy. The 'Replace' policy is invalid when relay information mode is disabled.	15	GLOBAL_CONFIG
no ip dhcp relay information policy	Use the ip dhcp relay information policy global configuration command to restore the default DHCP relay information policy.	15	GLOBAL_CONFIG
show ip dhcp pool [<word32>]		0	EXEC
show ip dhcp pool counter [<word32>]		debug	EXEC
show ip dhcp excluded-address		0	EXEC
show ip dhcp server binding [state {allocated committed expired}] [type {automatic manual expired}]		0	EXEC
show ip dhcp server binding <ipv4_ucast>		0	EXEC
show ip dhcp server		0	EXEC
show ip dhcp server statistics		0	EXEC
show ip dhcp server declined-ip		0	EXEC
show ip dhcp server declined-ip <ipv4_addr>		0	EXEC



CHAPTER 24: CLI COMMAND REFERENCES**TABLE 24-2 (CONTINUED). COMMAND SUMMARY**

COMMAND	DESCRIPTION	P	M
clear ip dhcp server binding <ipv4_ucast>		13	EXEC
clear ip dhcp server binding { automatic manual expired }		13	EXEC
clear ip dhcp server statistics		13	EXEC
ip dhcp server		13	GLOBAL_CONFIG
ip dhcp excluded-address <ipv4_addr> [<ipv4_addr>]		13	GLOBAL_CONFIG
no ip dhcp pool <word32>		13	GLOBAL_CONFIG
ip dhcp server		13	INTERFACE_VLAN
network <ipv4_addr> <ipv4_netmask>		13	DHCP_POOL
no network		13	DHCP_POOL
broadcast <ipv4_addr>		13	DHCP_POOL
no broadcast		13	DHCP_POOL
default-router <ipv4_ucast> [<ipv4_ ucast> [<ipv4_ucast> [<ipv4_ucast>]]]		13	DHCP_POOL
no default-router		13	DHCP_POOL
lease { <0-365> [<0-23> [<uint>]] infinite }		13	DHCP_POOL
no lease		13	DHCP_POOL
domain-name <word128>		13	DHCP_POOL
no domain-name		13	DHCP_POOL
dns-server <ipv4_ucast> [<ipv4_ucast> [<ipv4_ucast> [<ipv4_ucast>]]]		13	DHCP_POOL
no dns-server		13	DHCP_POOL
ntp-server <ipv4_ucast> [<ipv4_ucast> [<ipv4_ucast> [<ipv4_ucast>]]]		13	DHCP_POOL
no ntp-server		13	DHCP_POOL

CHAPTER 24: CLI COMMAND REFERENCES

TABLE 24-2 (CONTINUED). COMMAND SUMMARY

COMMAND	DESCRIPTION	P	M
netbios-name-server <ipv4_ucast> [<i><ipv4_ucast></i> [<i><ipv4_ucast></i> [<i><ipv4_ucast></i>]]]		13	DHCP_POOL
no netbios-name-server		13	DHCP_POOL
netbios-node-type { b-node h-node m-node p-node }		13	DHCP_POOL
no netbios-node-type		13	DHCP_POOL
netbios-scope <line128>		13	DHCP_POOL
no netbios-scope		13	DHCP_POOL
nis-domain-name <word128>		13	DHCP_POOL
no nis-domain-name		13	DHCP_POOL
nis-server <ipv4_ucast> [<i><ipv4_ucast></i> [<i><ipv4_ucast></i> [<i><ipv4_ucast></i>]]]		13	DHCP_POOL
no nis-server		13	DHCP_POOL
host <ipv4_ucast> <ipv4_netmask>		13	DHCP_POOL
no host		13	DHCP_POOL
client-identifier { fqdn <line128> mac-address <mac_addr> }		13	DHCP_POOL
no client-identifier		13	DHCP_POOL
hardware-address <mac_ucast>		13	DHCP_POOL
no hardware-address		13	DHCP_POOL
client-name <word32>		13	DHCP_POOL
no client-name		13	DHCP_POOL
vendor class-identifier <string64> specific-info <hexval32>		13	DHCP_POOL
no vendor class-identifier <string64>		13	DHCP_POOL
debug dhcp server memsize		debug	EXEC



CHAPTER 24: CLI COMMAND REFERENCES

TABLE 24-2 (CONTINUED). COMMAND SUMMARY

COMMAND	DESCRIPTION	P	M
show ip dhcp snooping [interface <port_type_list>]		debug	EXEC
debug dhcp server declined delete <ipv4_addr>		debug	EXEC
show ip dhcp snooping [interface <port_type_list>]	Use the show ip dhcp snooping user EXEC command to display the DHCP snooping configuration.	0	EXEC
show ip dhcp snooping [statistics] [interface <port_type_list>]	Use the show ip dhcp snooping user EXEC command without keywords to display the DHCP snooping configuration, or particularly the ip dhcp snooping statistics for the interface, or use the statistics keyword to display statistics.	0	EXEC
clear ip dhcp snooping statistics [interface <port_type_list>]	Use the clear ip dhcp snooping statistics privileged EXEC command to clear the statistics maintained by IP DHCP snooping, or particularly the IP DHCP snooping statistics for the interface.	15	EXEC
ip dhcp snooping	Use the ip dhcp snooping global configuration command to globally enable DHCP snooping. Use the no form of this command to globally disable DHCP snooping.	15	GLOBAL_CONFIG
dhcp_snooping_port_mode	Use the ip dhcp snooping trust interface configuration command to configure a port as trusted for DHCP snooping purposes. Use the no form of this command to configure a port as untrusted.	15	INTERFACE_PORT_LIST
show ip dhcp snooping table	Use the show ip dhcp snooping table user EXEC command to display the IP assigned information that is obtained from DHCP server except for local VLAN interface IP addresses.	15	EXEC
ip name-server { <ipv4_ucast> dhcp [interface vlan <vlan_id>] }	Set the DNS server for resolving domain names	15	GLOBAL_CONFIG
no ip name-server	Stop resolving domain names by accessing DNS server	15	GLOBAL_CONFIG
show ip name-server	Display the active domain name server information	0	EXEC
ip dns proxy	Enable DNS proxy service	13	GLOBAL_CONFIG
show version	Use show version to display firmware information.	0	EXEC
firmware upgrade <word>	Use firmware upgrade to load new firmware image to the switch	15	EXEC
firmware swap	Use firmware swap to swap the active and alternative firmware images.	15	EXEC
show green-ethernet fan	Shows Fan status (chip Temperature and fan speed).	15	GLOBAL_CONFIG
green-ethernet fan temp-on <-127-127>	Sets temperature at which to turn fan on to the lowest speed.	15	GLOBAL_CONFIG
no green-ethernet fan temp-max	Sets temperature at which the fan shall be running at full speed to default.	15	GLOBAL_CONFIG
green-ethernet led interval <0-24> intensity <0-100>	Use green-ethernet led interval to configure the LED intensity at specific interval of the day.	15	GLOBAL_CONFIG

CHAPTER 24: CLI COMMAND REFERENCES

TABLE 24-2 (CONTINUED). COMMAND SUMMARY

COMMAND	DESCRIPTION	P	M
no green-ethernet led interval <0-24>		15	GLOBAL_CONFIG
green-ethernet led on-event { [link-change <0-65535>] [error] } *1	Use green-ethernet led on-event to configure when to turn LEDs intensity to 100%	15	GLOBAL_CONFIG
no green-ethernet led on-event [link-change] [error]		15	GLOBAL_CONFIG
show green-ethernet eee [interface <port_type_list>]	Shows Green Ethernet EEE status	15	EXEC
show green-ethernet short-reach [interface <port_type_list>]	Shows Green Ethernet short-reach status.	15	EXEC
show green-ethernet energy-detect [interface <port_type_list>]	Shows Green Ethernet energy-detect status.	15	EXEC
show green-ethernet [interface <port_ type_list>]	Shows Green Ethernet status.	15	EXEC
green-ethernet eee	Sets EEE mode	15	INTERFACE_PORT_LIST
green-ethernet eee urgent-queues [<range_list>]	Sets EEE urgeent queues.	15	INTERFACE_PORT_LIST
green-ethernet eee optimize-for-power	Sets if EEE should be optimized for least traffic latency or least power consumption	15	GLOBAL_CONFIG
green-ethernet energy-detect	Enables energy-detect power savings.	15	INTERFACE_PORT_LIST
green-ethernet short-reach	Enables short-reach power savings	15	INTERFACE_PORT_LIST
show ip http server secure status	Use the show ip http server secure status privileged EXEC command to display the secure HTTP web server status	15	EXEC
ip http secure-server	Use the ip http secure-server global configuration command to enable the secure HTTP web server. Use the no form of this command to disable the secure HTTP web server	15	GLOBAL_CONFIG
ip http secure-redirect	Use the http secure-redirect global configuration command to enable the secure HTTP web redirection. When the secure HTTP web server is enabled, the feature automatic redirect the none secure HTTP web connection to the secure HTTP web connection. Use the no form of this command to disable the secure HTTP web redirection	15	GLOBAL_CONFIG
reload { { cold warm } [sid <1-16>] } { defaults [keep-ip] }	Reload system, either cold (reboot) or restore defaults without reboot	15	EXEC
show running-config [all-defaults]		15	EXEC
show running-config feature <word> [all-defaults]		15	EXEC
show running-config interface <port_ type_list> [all-defaults]		15	EXEC



CHAPTER 24: CLI COMMAND REFERENCES

TABLE 24-2 (CONTINUED). COMMAND SUMMARY

COMMAND	DESCRIPTION	P	M
show running-config vlan <vlan_list> [all-defaults]		15	EXEC
show running-config vlan <vlan_list> [all-defaults]		15	EXEC
show running-config line vty <range_list> [all-defaults]		15	EXEC
copy { startup-config running-config <word> } { startup-config running-config <word> } [syntax-check]		15	EXEC
dir		15	EXEC
more <word>		15	EXEC
delete <word>		debug	EXEC
debug icfg wipe-flash-fs-conf-block		debug	EXEC
debug icfg wipe-specific-block {local global} <uint>		debug	EXEC
debug icfg silent-upgrade status		debug	EXEC
debug icfg dir		debug	EXEC
debug icfg error-trace <line>		debug	EXEC
ip routing	Enable routing for IPv4 and IPv6	15	GLOBAL_CONFIG
no ip routing	Disable routing for IPv4 and IPv6	15	GLOBAL_CONFIG
ip address {{<ipv4_addr> <ipv4_netmask>} {dhcp [fallback <ipv4_addr> <ipv4_netmask> [timeout <uint>]]}}	IP address configuration	15	INTERFACE_VLAN
ip dhcp retry interface vlan <vlan_id>	Restart the dhcp client	15	EXEC
no ip address	IP address configuration	15	INTERFACE_VLAN
ip route <ipv4_addr> <ipv4_netmask> <ipv4_addr>	Add new IP route	15	GLOBAL_CONFIG
no ip route <ipv4_addr> <ipv4_netmask> <ipv4_addr>	Delete an existing IP route	15	GLOBAL_CONFIG
show interface vlan [<vlan_list>]	Vlan interface status	15	EXEC
show ip interface brief	Brief IP interface status	0	EXEC

CHAPTER 24: CLI COMMAND REFERENCES**TABLE 24-2 (CONTINUED). COMMAND SUMMARY**

COMMAND	DESCRIPTION	P	M
show ip arp	Print ARP table	0	EXEC
clear ip arp	Clear ARP cache	0	EXEC
show ip route	Routing table status	0	EXEC
ping ip <word1-255> [repeat <1-60>] [size <2-1452>] [interval <0-30>]		0	EXEC
clear ip statistics [system] [interface vlan <vlan_list>] [icmp] [icmp-msg <0-255>]		0	EXEC
show ip statistics [system] [interface vlan <vlan_list>] [icmp] [icmp-msg <0-255>]		0	EXEC
debug ipstack log [ERR NOERR] [WARNING NOWARNING] [NOTICE NONOTICE] [INFO NOINFO] [DEBUG NODEBUG] [MDEBUG NOMDEBUG] [IOCTL NOIOCTL] [INIT NOINIT] [ADDR NOADDR] [FAIL NOFAIL] [EMERG NOEMERG] [CRIT NOCRIT]		debug	EXEC
debug ip kmem		debug	EXEC
debug ip route		debug	EXEC
debug ip sockets		debug	EXEC
debug ip lpm stat ip <vlan_list>		debug	EXEC
debug ip lpm stat ipv6 <vlan_list>		debug	EXEC
debug ip lpm stat clear <vlan_list>		debug	EXEC
debug ip lpm sticky clear		debug	EXEC
debug ip lpm usage		debug	EXEC
debug ip global interface table change		debug	EXEC
debug ip vlan ipv4 created <vlan_list>		debug	EXEC
debug ip vlan ipv4 changed <vlan_list>		debug	EXEC
debug ip vlan ipv6 created <vlan_list>		debug	EXEC
debug ip vlan ipv6 changed <vlan_list>		debug	EXEC



TABLE 24-2 (CONTINUED). COMMAND SUMMARY

COMMAND	DESCRIPTION	P	M
show ip igmp snooping mrouter [detail]		0	EXEC
clear ip igmp snooping [vlan <vlan_list>] statistics		15	EXEC
show ip igmp snooping [vlan <vlan_list>] [group-database [interface <port_type_list>] [sfm-information]] [detail]		0	EXEC
ip igmp snooping		15	GLOBAL_CONFIG
ip igmp unknown-flooding		15	GLOBAL_CONFIG
ip igmp host-proxy [leave-proxy]		15	GLOBAL_CONFIG
ip igmp ssm-range <ipv4_mcast> <4-32>		15	GLOBAL_CONFIG
no ip igmp ssm-range		15	GLOBAL_CONFIG
ip igmp snooping vlan <vlan_list>		15	GLOBAL_CONFIG
no ip igmp snooping vlan [<vlan_list>]		15	GLOBAL_CONFIG
ip igmp snooping		15	INTERFACE_VLAN
ip igmp snooping querier { election address <ipv4_ucast> }		15	INTERFACE_VLAN
no ip igmp snooping querier { election address }		15	INTERFACE_VLAN
ip igmp snooping compatibility { auto v1 v2 v3 }		15	INTERFACE_VLAN
no ip igmp snooping compatibility		15	INTERFACE_VLAN
ip igmp snooping priority <0-7>		15	INTERFACE_VLAN
no ip igmp snooping priority		15	INTERFACE_VLAN
ip igmp snooping robustness-variable <1-255>		15	INTERFACE_VLAN
no ip igmp snooping robustness-variable		15	INTERFACE_VLAN
ip igmp snooping query-interval <1-31744>		15	INTERFACE_VLAN
no ip igmp snooping query-interval		15	INTERFACE_VLAN
ip igmp snooping query-max-response-time <0-31744>		15	INTERFACE_VLAN
no ip igmp snooping query-max-response-time		15	INTERFACE_VLAN

CHAPTER 24: CLI COMMAND REFERENCES

TABLE 24-2 (CONTINUED). COMMAND SUMMARY

COMMAND	DESCRIPTION	P	M
ip igmp snooping last-member-query-interval <0-31744>		15	INTERFACE_VLAN
ipv6 mld snooping unsolicited-report-interval <0-31744>		15	INTERFACE_VLAN
no ipv6 mld snooping unsolicited-report-interval		15	INTERFACE_VLAN
ip verify source		15	GLOBAL_CONFIG
i ip verify source		15	INTERFACE_PORT_LIST
ip verify source limit <0-2>		15	INTERFACE_PORT_LIST
no ip verify source limit		15	INTERFACE_PORT_LIST
ip verify source translate		15	GLOBAL_CONFIG
show ip verify source [interface <port_type_list>]		0	EXEC
show ip source binding [dhcp-snooping static] [interface <port_type_list>]		13	EXEC
ip source binding interface <port_type_id> <vlan_id> <ipv4_ucast> <mac_ucast>		13	GLOBAL_CONFIG
ip source binding interface <port_type_id> <vlan_id> <ipv4_ucast> <ipv4_netmask>		13	GLOBAL_CONFIG
show lacp { internal statistics system-id neighbor }	Show LACP configuration and status	15	EXEC
clear lacp statistics	Clear all LACP statistics	15	EXEC
lacp system-priority <1-65535>	Set the LACP system priority	15	GLOBAL_CONFIG
lacp	Enable LACP on an interface	15	INTERFACE_PORT_LIST
lacp key { <1-65535> auto }	Set the LACP key	15	INTERFACE_PORT_LIST
lacp role { active passive }	Set the LACP role, active or passive in transmitting BPDUs	15	INTERFACE_PORT_LIST
lacp timeout { fast slow }	Set the LACP timeout, i.e. how fast to transmit BPDUs, once a sec or once each 30 sec.	15	INTERFACE_PORT_LIST
lacp port-priority <1-65535>	Set the lacp port priority.	15	INTERFACE_PORT_LIST
lldp holdtime <2-10>	Sets LLDP hold time (The neighbor switch will discarded the LLDP information after "hold time" multiplied with "timer" seconds)	15	GLOBAL_CONFIG
no lldp holdtime		15	GLOBAL_CONFIG
lldp timer <5-32768>	Sets LLDP TX interval (The time between each LLDP frame transmitted in seconds).	15	GLOBAL_CONFIG
no lldp timer		15	GLOBAL_CONFIG
lldp reinit <1-10>	Sets LLDP reinitialization delay.	15	GLOBAL_CONFIG



CHAPTER 24: CLI COMMAND REFERENCES**TABLE 24-2 (CONTINUED). COMMAND SUMMARY**

COMMAND	DESCRIPTION	P	M
no lldp reinit	Sets LLDP reinitialization delay.	15	GLOBAL_CONFIG
lldp tlv-select {management-address port-description system-capabilities system-description system-name}	Enables/disables LLDP optional TLVs.	15	INTERFACE_PORT_LIST
lldp transmit	Sets if switch shall transmit LLDP frames	15	INTERFACE_PORT_LIST
lldp receive	Sets if switch shall update LLDP entry table with incoming LLDP information.	15	INTERFACE_PORT_LIST
show lldp neighbors [interface <port_type_list>]	Shows the LLDP neighbors information	0	EXEC
show lldp statistics [interface <port_type_list>]	Shows the LLDP statistics information	0	EXEC
clear lldp statistics	Clears the LLDP statistics	0	EXEC
lldp transmission-delay <1-8192>	Sets LLDP transmission-delay. LLDP transmission delay (the amount of time that the transmission of LLDP frames will be delayed after LLDP configuration has changed) in seconds.)	15	GLOBAL_CONFIG
no lldp transmission-delay		15	GLOBAL_CONFIG
lldp cdp-aware	Configures if the interface shall be CDP aware (CDP discovery information is added to the LLDP neighbor table)	13	INTERFACE_PORT_LIST
show lldp med remote-device [interface <port_type_list>]	Show LLDP-MED neighbor device information.	0	EXEC
show lldp med media-vlan-policy [<0-31>]	Show media vlan policy(ies)	0	EXEC
lldp med location-tlv latitude { north south } <word8>	Use the lldp med location-tlv latitude to configure the location latitude.	15	GLOBAL_CONFIG
no lldp med location-tlv latitude	Use no lldp med location-tlv latitude to configure the latitude location to north 0	15	GLOBAL_CONFIG
lldp med location-tlv longitude { west east } <word9>	Use the lldp med location-tlv longitude to configure the location longitude.	15	GLOBAL_CONFIG
no lldp med location-tlv longitude	Use no lldp med location-tlv longitude to configure the longitude location to north 0 degrees	15	GLOBAL_CONFIG
lldp med location-tlv altitude { meters floors } <word11>	Use the lldp med location-tlv altitude to configure the location altitude.	15	GLOBAL_CONFIG
no lldp med location-tlv altitude	Use the lldp med location-tlv altitude to configure the location altitude.	15	GLOBAL_CONFIG
lldp med location-tlv civic-addr { country state county city district block street leading-street-direction trailing-street-suffix street-suffix house-no house-no-suffix landmark additional-info name zip-code building apartment floor room-number place-type postal-community-name p-o-box additional-code } <string250>	Use lldp med location-tlv civic-addr to configure the civic address.	15	GLOBAL_CONFIG

CHAPTER 24: CLI COMMAND REFERENCES**TABLE 24-2 (CONTINUED). COMMAND SUMMARY**

COMMAND	DESCRIPTION	P	M
no lldp med location-tlv civic-addr { country state county city district block street leading-street-direction trailing-street-suffix street-suffix house-no house-no-suffix landmark additional-info name zip-code building apartment floor room- number place-type postal-community- name p-o-box additional-code }		15	GLOBAL_CONFIG
lldp med location-tlv elin-addr <dword25>	Use the lldp med location-tlv elin-addr to configure value for the Emergency Call Service.	15	GLOBAL_CONFIG
no lldp med location-tlv elin-addr	Use the no lldp med location-tlv elin-addr to configure value for the Emergency Call Service to default value.	15	GLOBAL_CONFIG
lldp med transmit-tlv [capabilities] [location] [network-policy]	Use the lldp med transmit-tlv to configure which TLVs to transmit to link partner.	15	INTERFACE_PORT_LIST
no lldp med transmit-tlv [capabilities] [location] [network-policy]		15	INTERFACE_PORT_LIST
lldp med datum { wgs84 nad83-navd88 nad83-mlw }	Use the lldp med datum to configure the datum (geodetic system) to use.	15	GLOBAL_CONFIG
no lldp med datum		15	GLOBAL_CONFIG
lldp med fast <1-10>	Use the lldp med fast to configure the number of times the fast start LLDPDU are being sent during the activation of the fast start mechanism defined by LLDP-MED (1-10).	15	GLOBAL_CONFIG
no lldp med fast		15	GLOBAL_CONFIG
lldp med media-vlan-policy <0-31> { voice voice-signaling guest-voice- signaling guest-voice softphone-voice video-conferencing streaming-video video-signaling } { tagged <vlan_id> untagged } [2-priority <0-7>] [dscp <0-63>]	Use the media-vlan-policy to create a policy, which can be assigned to an interface.	15	GLOBAL_CONFIG
no lldp med media-vlan-policy <0-31>		15	GLOBAL_CONFIG
lldp med media-vlan policy-list <range_list>	Use the media-vlan policy-list to assign policy to the interface.	15	INTERFACE_PORT_LIST
loop-protect	Loop protection configuration	15	GLOBAL_CONFIG
loop-protect transmit-time <1-10>	Loop protection transmit time interval	15	GLOBAL_CONFIG
no loop-protect transmit-time		15	GLOBAL_CONFIG
loop-protect shutdown-time <0- 604800>	Loop protection shutdown time interval	15	GLOBAL_CONFIG
no loop-protect shutdown-time		15	GLOBAL_CONFIG
loop-protect	Loop protection configuration	15	INTERFACE_PORT_LIST



CHAPTER 24: CLI COMMAND REFERENCES

TABLE 24-2 (CONTINUED). COMMAND SUMMARY

COMMAND	DESCRIPTION	P	M
loop-protect action { [shutdown] [log] }*1		15	INTERFACE_PORT_LIST
no loop-protect action		15	INTERFACE_PORT_LIST
loop-protect tx-mode		15	INTERFACE_PORT_LIST
show loop-protect [interface <port_type_list>]		13	EXEC
mac address-table learning [secure]	Enable learning on port	15	INTERFACE_PORT_LIST
show mac address-table [conf static aging-time { { learning count } [interface <port_type_list>] } { address <mac_addr> [vlan <vlan_id>] } vlan <vlan_id> interface <port_type_list>]		0	EXEC
clear mac address-table		15	EXEC
mac address-table static <mac_addr> vlan <vlan_id> interface <port_type_list>	Assign a static mac address to this port	15	GLOBAL_CONFIG
mac address-table aging-time <0,10-1000000>	Set switch aging time, 0 to disable.	15	GLOBAL_CONFIG
no mac address-table aging-time	Default aging time.	15	GLOBAL_CONFIG
monitor destination interface <port_type_id>	Sets monitor destination port.	15	GLOBAL_CONFIG
no monitor destination	Sets monitor destination port.	15	INTERFACE_PORT_LIST
monitor source { { interface <port_type_list> } { cpu [<range_list>] } } { both rx tx }	Sets monitor source port(s).	15	GLOBAL_CONFIG
no monitor source { { interface <port_type_list> } { cpu [<range_list>] } }	Sets monitor source port(s).	15	GLOBAL_CONFIG
debug chip [{ 0 1 all }]		debug	EXEC
debug api [interface <port_type_list>] [{ ail cil }] [{ init misc port counters phy vlan pvlan mac-table acl qos aggr stp mirror evc erps eps packet fdma ts pts wm ipmc stack cmef mplscore mplsoam vxlat oam sgpio l3 afi macsec }] [full] [clear]		debug	EXEC
debug suspend		debug	EXEC
debug resume		debug	EXEC
debug kr-conf [cm1 <-32-31>] [c0 <-32-31>] [cp1 <-32-31>] [ampl <300-1275>] [{ ps25 ps35 ps55 ps70 ps120 }] [en-ob dis-ob] [ser-inv ser-no-inv]		debug	INTERFACE_PORT_LIST

TABLE 24-2 (CONTINUED). COMMAND SUMMARY

COMMAND	DESCRIPTION	P	M
show spanning-tree [summary active { interface <port_type_list> } { detailed [interface <port_type_list>] } { mst [configuration { <0-7> [interface <port_type_list>] }] }]		15	EXEC
clear spanning-tree { { statistics [interface <port_type_list>] } { detected-protocols [interface <port_type_list>] } }		15	EXEC
spanning-tree mode { stp rstp mstp }		15	GLOBAL_CONFIG
no spanning-tree mode		15	GLOBAL_CONFIG
spanning-tree transmit hold-count <1-10>		15	GLOBAL_CONFIG
no spanning-tree transmit hold-count		15	GLOBAL_CONFIG
spanning-tree mst max-hops <6-40>		15	GLOBAL_CONFIG
no spanning-tree mst max-hops		15	GLOBAL_CONFIG
spanning-tree mst max-age <6-40> [forward-time <4-30>]		15	GLOBAL_CONFIG
no spanning-tree mst max-age		15	GLOBAL_CONFIG
spanning-tree mst forward-time <4-30>		15	GLOBAL_CONFIG
no spanning-tree mst forward-time		15	GLOBAL_CONFIG
spanning-tree edge bpdu-filter		15	GLOBAL_CONFIG
spanning-tree edge bpdu-guard		15	GLOBAL_CONFIG
spanning-tree recovery interval <30-86400>		15	GLOBAL_CONFIG
no spanning-tree recovery interval		15	GLOBAL_CONFIG
spanning-tree mst <0-7> priority <0-61440>		15	GLOBAL_CONFIG
no spanning-tree mst <0-7> priority		15	GLOBAL_CONFIG
spanning-tree mst name <word32> revision <0-65535>		15	GLOBAL_CONFIG
no spanning-tree mst name		15	GLOBAL_CONFIG
spanning-tree		15	INTERFACE_PORT_LIST
spanning-tree edge		15	INTERFACE_PORT_LIST
spanning-tree auto-edge		15	INTERFACE_PORT_LIST
spanning-tree link-type { point-to-point shared auto }		15	INTERFACE_PORT_LIST

CHAPTER 24: CLI COMMAND REFERENCES

TABLE 24-2 (CONTINUED). COMMAND SUMMARY

COMMAND	DESCRIPTION	P	M
no spanning-tree link-type		15	INTERFACE_PORT_LIST
spanning-tree restricted-role		15	INTERFACE_PORT_LIST
spanning-tree restricted-tcn		15	INTERFACE_PORT_LIST
spanning-tree bpdu-guard		15	INTERFACE_PORT_LIST
spanning-tree mst <0-7> cost { <1-200000000> auto }		15	INTERFACE_PORT_LIST
no spanning-tree mst <0-7> cost		15	INTERFACE_PORT_LIST
spanning-tree mst <0-7> port-priority <0-240>		15	INTERFACE_PORT_LIST
no spanning-tree mst <0-7> port-priority		15	INTERFACE_PORT_LIST
spanning-tree		15	STP_AGGR
spanning-tree edge		15	STP_AGGR
spanning-tree auto-edge		15	STP_AGGR
spanning-tree link-type { point-to-point shared auto }		15	STP_AGGR
no spanning-tree link-type		15	STP_AGGR
spanning-tree restricted-role		15	STP_AGGR
spanning-tree restricted-tcn		15	STP_AGGR
spanning-tree bpdu-guard		15	STP_AGGR
spanning-tree mst <0-7> cost { <1- 200000000> auto }		15	STP_AGGR
no spanning-tree mst <0-7> cost		15	STP_AGGR
spanning-tree mst <0-7> port-priority <0-240>		15	STP_AGGR
no spanning-tree mst <0-7> port-priority		15	STP_AGGR
mvr vlan <vlan_list> type { source receiver }		15	INTERFACE_PORT_LIST
mvr name <word16> type { source receiver }		15	INTERFACE_PORT_LIST
no mvr vlan <vlan_list> type		15	INTERFACE_PORT_LIST
no mvr name <word16> type		15	INTERFACE_PORT_LIST
mvr immediate-leave		15	INTERFACE_PORT_LIST
clear mvr [vlan <vlan_list> name <word16>] statistics		15	EXEC

CHAPTER 24: CLI COMMAND REFERENCES**TABLE 24-2 (CONTINUED). COMMAND SUMMARY**

COMMAND	DESCRIPTION	P	M
show mvr [vlan <vlan_list> name <word16>] [group-database [interface <port_type_list>] [sfm-information]] [detail]		0	EXEC
mvr		15	GLOBAL_CONFIG
mvr vlan <vlan_list> [name <word16>]		15	GLOBAL_CONFIG
no mvr vlan <vlan_list>		15	GLOBAL_CONFIG
mvr vlan <vlan_list> mode { dynamic compatible }		15	GLOBAL_CONFIG
mvr name <word16> mode { dynamic compatible }		15	GLOBAL_CONFIG
no mvr vlan <vlan_list> mode		15	GLOBAL_CONFIG
no mvr name <word16> mode		15	GLOBAL_CONFIG
mvr vlan <vlan_list> igmp-address <ipv4_ucast>		15	GLOBAL_CONFIG
mvr name <word16> igmp-address <ipv4_ucast>		15	GLOBAL_CONFIG
no mvr vlan <vlan_list> igmp-address		15	GLOBAL_CONFIG
no mvr name <word16> igmp-address		15	GLOBAL_CONFIG
mvr vlan <vlan_list> frame priority <0-7>		15	GLOBAL_CONFIG
mvr vlan <vlan_list> frame tagged		15	GLOBAL_CONFIG
mvr name <word16> frame priority <0-7>		15	GLOBAL_CONFIG
mvr name <word16> frame tagged		15	GLOBAL_CONFIG
no mvr vlan <vlan_list> frame priority		15	GLOBAL_CONFIG
no mvr name <word16> frame priority		15	GLOBAL_CONFIG
mvr vlan <vlan_list> last-member-query-interval <0-31744>		15	GLOBAL_CONFIG
mvr name <word16> last-member-query-interval <0-31744>		15	GLOBAL_CONFIG
no mvr vlan <vlan_list> last-member-query-interval		15	GLOBAL_CONFIG
no mvr name <word16> last-member-query-interval		15	GLOBAL_CONFIG
mvr vlan <vlan_list> channel <word16>		15	GLOBAL_CONFIG
no mvr vlan <vlan_list> channel		15	GLOBAL_CONFIG
no mvr name <word16> channel		15	GLOBAL_CONFIG



CHAPTER 24: CLI COMMAND REFERENCES

TABLE 24-2 (CONTINUED). COMMAND SUMMARY

COMMAND	DESCRIPTION	P	M
mvr vlan <vlan_list> channel <word16>		15	GLOBAL_CONFIG
no mvr vlan <vlan_list> channel		15	GLOBAL_CONFIG
no mvr name <word16> channel		15	GLOBAL_CONFIG
show dot1x statistics { eapol radius all } [interface <port_type_list>]	Shows statistics for either eapol or radius.	0	EXEC
show dot1x status [interface <port_type_list>] [brief]	Shows dot1x status, such as admin state, port state and last source.	0	EXEC
clear dot1x statistics [interface <port_type_list>]	Clears the statistics counters	15	EXEC
dot1x re-authentication	Set Re-authentication state	15	GLOBAL_CONFIG
dot1x authentication timer re-authenticate <1-3600>	The period between re-authentication attempts in seconds	15	GLOBAL_CONFIG
no dot1x authentication timer re-authenticate		15	GLOBAL_CONFIG
dot1x timeout tx-period <1-65535>	The time between EAPOL retransmissions.	15	GLOBAL_CONFIG
no dot1x timeout tx-period		15	GLOBAL_CONFIG
dot1x authentication timer inactivity <10-1000000>	Time in seconds between check for activity on successfully authenticated MAC addresses	15	GLOBAL_CONFIG
no dot1x authentication timer inactivity		15	GLOBAL_CONFIG
dot1x timeout quiet-period <10-1000000>	Time in seconds before a MAC-address that failed authentication gets a new authentication chance.	15	GLOBAL_CONFIG
no dot1x timeout quiet-period		15	GLOBAL_CONFIG
dot1x re-authenticate	Refresh (restart) 802.1X authentication process.	15	INTERFACE_PORT_LIST
dot1x initialize [interface <port_type_list>]	Force re-authentication immediately	15	EXEC
dot1x system-auth-control	Set the global NAS state	15	GLOBAL_CONFIG
dot1x port-control { force-authorized force-unauthorized auto single multi mac-based }	Sets the port security state.	15	INTERFACE_PORT_LIST
no dot1x port-control	Sets the port security state.	15	INTERFACE_PORT_LIST
dot1x guest-vlan	Enables/disables guest VLAN	15	INTERFACE_PORT_LIST
dot1x max-reauth-req <1-255>	The number of times a Request Identity EAPOL frame is sent without response before considering entering the Guest VLAN	15	GLOBAL_CONFIG
no dot1x max-reauth-req	The number of times a Request Identity EAPOL frame is sent without response before considering entering the Guest VLAN	15	GLOBAL_CONFIG
dot1x guest-vlan <1-4095>	Guest VLAN ID used when entering the Guest VLAN.	15	GLOBAL_CONFIG
no dot1x guest-vlan	Guest VLAN ID used when entering the Guest VLAN.	15	GLOBAL_CONFIG

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CHAPTER 24: CLI COMMAND REFERENCES**TABLE 24-2 (CONTINUED). COMMAND SUMMARY**

COMMAND	DESCRIPTION	P	M
dot1x guest-vlan supplicant	The switch remembers if an EAPOL frame has been received on the port for the life-time of the port. Once the switch considers whether to enter the Guest VLAN, it will first check if this option is enabled or disabled. If disabled (unchecked; default), the switch will only enter the Guest VLAN if an EAPOL frame has not been received on the port for the life-time of the port. If enabled (checked), the switch will consider entering the Guest VLAN even if an EAPOL frame has been received on the port for the life-time of the port.	15	GLOBAL_CONFIG
dot1x radius-qos	Enables/disables per-port state of RADIUS-assigned QoS.	15	INTERFACE_PORT_LIST
dot1x radius-vlan	Enables/disables per-port state of RADIUS-assigned VLAN.	15	INTERFACE_PORT_LIST
dot1x feature { [guest-vlan] [radius-qos] [radius-vlan] } *1	Globally enables/disables a dot1x feature functionality	15	GLOBAL_CONFIG
show dot1x statistics { eapol radius all } [interface <port_type_list>]	Shows statistics for either eapol or radius	15	EXEC
ntp	Enable NTP	13	GLOBAL_CONFIG
ntp server <1-5> ip-address {<ipv4_ucast> <ipv6_ucast> <hostname>}		13	GLOBAL_CONFIG
ntp server <1-5> ip-address {<ipv4_ucast> <hostname>}		13	GLOBAL_CONFIG
no_ntp_server_ip_address		13	GLOBAL_CONFIG
show ntp status		13	EXEC
show platform phy [interface <port_type_list>]	Show PHY module's information for all or a given interface	15	EXEC
show platform phy id [interface <port_type_list>]	Platform PHY's IDs	15	EXEC
show platform phy instance		15	EXEC
show platform phy failover		15	EXEC
platform phy instance restart { cool warm }		15	EXEC
platform phy instance default-activate		15	EXEC
show platform phy status [interface <port_type_list>]		15	EXEC
no platform phy instance		15	GLOBAL_CONFIG
platform phy failover		15	INTERFACE_PORT_LIST
debug phy read [<0-31>] [<0-0xffff>] [addr-sort]		debug	INTERFACE_PORT_LIST
debug phy write [<0-31>] <0-0xffff> [<0-0xffff>]		debug	INTERFACE_PORT_LIST
debug phy do-page-chk [enable disable]		debug	EXEC

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CHAPTER 24: CLI COMMAND REFERENCES

TABLE 24-2 (CONTINUED). COMMAND SUMMARY

COMMAND	DESCRIPTION	P	M
debug phy force-pass-through-speed {1G 100M 10M}		debug	INTERFACE_PORT_LIST
debug phy reset		debug	INTERFACE_PORT_LIST
debug phy gpio <0-13> mode {output input alternative}		debug	INTERFACE_PORT_LIST
debug phy gpio <0-13> get		debug	INTERFACE_PORT_LIST
show interface <port_type_list> statistics [{ packets bytes errors discards filtered { priority [<0~7>] } }] [{ up down }]	Shows the statistics for the interface	0	EXEC
show interface <port_type_list> veriphy	Run and display cable diagnostics.	0	EXEC
clear statistics [interface] <port_type_list>	Clears the statistics for the interface.	0	EXEC
show interface <port_type_list> capabilities		0	EXEC
show interface <port_type_list> status	Display status for the interface.	0	EXEC
mtu <'VTSS_MAX_FRAME_LENGTH_STANDARD'-'VTSS_MAX_FRAME_LENGTH_MAX'>	Use mtu to specify maximum frame size (1518-9600 bytes).	15	INTERFACE_PORT_LIST
no mtu	Use no mtu to set maximum frame size to default.	15	INTERFACE_PORT_LIST
shutdown	Use shutdown to shutdown the interface.	15	INTERFACE_PORT_LIST
speed {2500 1000 100 10 auto { [10] [100] [1000] } }	Configures interface speed. If you use 10, 100, or 1000 keywords with the auto keyword the port will only advertise the specified speeds.	15	INTERFACE_PORT_LIST
no speed	Use "no speed" to configure interface to default speed.	15	INTERFACE_PORT_LIST
duplex { half full auto [half full] }	Use duplex to configure interface duplex mode	15	INTERFACE_PORT_LIST
no duplex	Use "no duplex" to set duplex to default.	15	INTERFACE_PORT_LIST
media-type { rj45 sfp dual }	Use media-type to configure the interface media type.	15	INTERFACE_PORT_LIST
no media-type	Use to configure the interface media-type type to default.	15	INTERFACE_PORT_LIST
flowcontrol { on off }	Use flowcontrol to configure flow control for the interface.	15	INTERFACE_PORT_LIST
no flowcontrol	Use no flowcontrol to set flow control to default.	15	INTERFACE_PORT_LIST
excessive-restart	Use excessive-restart to configure backoff algorithm in half duplex mode	15	INTERFACE_PORT_LIST
show web privilege group [<cwd>] level		0	EXEC
web privilege group <cwd> level { { cro <0-15> } [crw <0-15>] [sro <0-15>] [srw <0-15>] } *1		15	GLOBAL_CONFIG

CHAPTER 24: CLI COMMAND REFERENCES**TABLE 24-2 (CONTINUED). COMMAND SUMMARY**

COMMAND	DESCRIPTION	P	M
no web privilege group [<cword>] level		15	GLOBAL_CONFIG
show port-security port [interface <port_type_list>]	Show MAC Addresses learned by Port Security	0	EXEC
show port-security switch [interface <port_type_list>]	Show Port Security status.	0	EXEC
no port-security shutdown [interface <port_type_list>]	Reopen one or more ports whose limit is exceeded and shut down.	15	EXEC
port-security	Enable/disable port security globally.	15	GLOBAL_CONFIG
port-security aging	Enable/disable port security aging.	15	GLOBAL_CONFIG
port-security aging time <10-10000000>	Time in seconds between check for activity on learned MAC addresses.	15	GLOBAL_CONFIG
no port-security aging time		15	GLOBAL_CONFIG
port-security	Enable/disable port security per interface.ce.	15	INTERFACE_PORT_LIST
port-security maximum [<1-1024>]	Maximum number of MAC addresses that can be learned on this set of interfaces..	15	INTERFACE_PORT_LIST
no port-security maximum		15	INTERFACE_PORT_LIST
port-security violation { protect trap trap-shutdown shutdown }	The action involved with exceeding the limit.	15	INTERFACE_PORT_LIST
no port-security violation	The action involved with exceeding the limit.	15	INTERFACE_PORT_LIST
pvlan <range_list>	Use the pvlan add or remove command to add or remove a port from a PVLAN	13	INTERFACE_PORT_LIST
show pvlan [<range_list>]	Use the show pvlan command to view the PVLAN configuration	13	EXEC
show pvlan isolation [interface <port_type_list>]	Use the show pvlan isolation command to view the PVLAN isolation configuration	13	EXEC
show qos [{ interface [<port_type_list>] wred { maps [dscp-cos] [dscp-ingress-translation] [dscp-classify] [cos-dscp] [dscp-egress-translation] } storm { qce [<1-256>] }]		15	EXEC
qos map dscp-cos { <0-63> <dscp> } cos <0-7> dpl <dpl>		15	GLOBAL_CONFIG
no qos map dscp-cos { <0-63> <dscp> }		15	GLOBAL_CONFIG
qos map dscp-ingress-translation { <0-63> <dscp> } to { <0-63> <dscp> }		15	GLOBAL_CONFIG
no qos map dscp-ingress-translation { <0-63> <dscp> }		15	GLOBAL_CONFIG
qos map dscp-classify { <0-63> <dscp> }		15	GLOBAL_CONFIG
qos map cos-dscp <0-7> dpl <0-1> dscp { <0-63> <dscp> }		15	GLOBAL_CONFIG



CHAPTER 24: CLI COMMAND REFERENCES

TABLE 24-2 (CONTINUED). COMMAND SUMMARY

COMMAND	DESCRIPTION	P	M
no qos map cos-dscp <0-7> dpl <0-1>		15	GLOBAL_CONFIG
qos map dscp-egress-translation { <0-63> <dscp> } <0-1> to { <0-63> <dscp> }		15	GLOBAL_CONFIG
no qos map dscp-egress-translation { <0-63> <dscp> } <0-1>		15	GLOBAL_CONFIG
qos wred queue <0-5> min-th <0-100> mdp-1 <0-100> mdp-2 <0-100> mdp-3 <0-100>		15	GLOBAL_CONFIG
qos wred queue <0-5> min-fl <0-100> max <1-100> [fill-level]		15	GLOBAL_CONFIG
no qos wred queue <0~5>		15	GLOBAL_CONFIG
qos storm { unicast multicast broadcast } { { <1,2,4,8,16,32,64,128,256,512> [kfps] } { 1024 kfps } }		15	GLOBAL_CONFIG
no qos storm { unicast multicast broadcast }		15	GLOBAL_CONFIG
qos qce { [update] } <uint> [{ next <uint> } last] [interface <port_type_list>] [smac { <mac_addr> <oui> any }] [dmac { <mac_addr> unicast multicast broadcast any }] [tag { [type { untagged tagged c-tagged s-tagged any }] [vid { <vcap_vr> any }] [pcp { <pcp> any }] [dei { <0-1> any }] } *1] [inner-tag { [type { untagged tagged c-tagged s-tagged any }] [vid { <vcap_vr> any }] [pcp { <pcp> any }] [dei { <0-1> any }] } *1] [frame-type { any { etype [{ <0x600-0x7ff,0x801-0x86dc,0x86de-0xffff> any }] } llc [dsap { <0-0xff> any }] [ssap { <0-0xff> any }] [control { <0-0xff> any }] } { snap [{ <0-0xffff> any }] } { ipv4 [proto { <0-255> tcp udp any }] [sip { <ipv4_subnet> any }] [dip { <ipv4_subnet> any }] [dscp { <vcap_vr> <dscp> any }] [fragment { yes no any }] [sport { <vcap_vr> any }] [dport { <vcap_vr> any }] } { ipv6 [proto { <0-255> tcp udp any }] [sip { <ipv4_subnet> any }] [dip { <ipv4_subnet> any }] [dscp { <vcap_vr> <dscp> any }] [sport { <vcap_vr> any }] [dport { <vcap_vr> any }] }] }] [action { [cos { <0-7> default }] [dpl { <0-1> default }] [pcp-dei { <0-7> <0-1> default }] [dscp { <0-63> <dscp> default }] [policy { <uint> default }] } *1]		15	GLOBAL_CONFIG

CHAPTER 24: CLI COMMAND REFERENCES**TABLE 24-2 (CONTINUED). COMMAND SUMMARY**

COMMAND	DESCRIPTION	P	M
no qos qce <'QCE_ID_START'~'QCE_ID_END'>		15	GLOBAL_CONFIG
qos qce refresh		15	GLOBAL_CONFIG
qos cos <0-7>		15	GLOBAL_CONFIG
no qos cos		15	INTERFACE_PORT_LIST
qos dpl <dpl>		15	INTERFACE_PORT_LIST
no qos dpl		15	INTERFACE_PORT_LIST
qos pcp <0-7>		15	INTERFACE_PORT_LIST
no qos pcp		15	INTERFACE_PORT_LIST
no qos dei		15	INTERFACE_PORT_LIST
qos trust tag		15	INTERFACE_PORT_LIST
qos trust dscp		15	INTERFACE_PORT_LIST
qos map tag-cos pcp <0-7> dei <0-1> cos <0-7>		15	INTERFACE_PORT_LIST
dpl <dpl>		15	INTERFACE_PORT_LIST
no qos map tag-cos pcp <0-7> dei <0-1>		15	INTERFACE_PORT_LIST
qos policer <uint> [fps] [flowcontrol]		15	INTERFACE_PORT_LIST
no qos policer		15	INTERFACE_PORT_LIST
qos queue-policer queue <0-7> <uint>		15	INTERFACE_PORT_LIST
no qos queue-policer queue <0-7>		15	INTERFACE_PORT_LIST
qos wrr <1-100> <1-100> <1-100> <1-100> <1-100> <1-100>		15	INTERFACE_PORT_LIST
no qos wrr		15	INTERFACE_PORT_LIST
qos shaper <uint>		15	INTERFACE_PORT_LIST
no qos shaper		15	INTERFACE_PORT_LIST
qos queue-shaper queue <0-7> <uint> [excess]		15	INTERFACE_PORT_LIST
no qos queue-shaper queue <0-7>		15	INTERFACE_PORT_LIST
qos tag-remark { pcp <0-7> dei <0-1> mapped }		15	INTERFACE_PORT_LIST
no qos tag-remark		15	INTERFACE_PORT_LIST



CHAPTER 24: CLI COMMAND REFERENCES

TABLE 24-2 (CONTINUED). COMMAND SUMMARY

COMMAND	DESCRIPTION	P	M
qos map cos-tag cos <0-7> dpl <0-1> pcp <0-7> dei <0-1>		15	INTERFACE_PORT_LIST
no qos map cos-tag cos <0-7> dpl <0~1>		15	INTERFACE_PORT_LIST
qos dscp-translate		15	INTERFACE_PORT_LIST
qos dscp-classify { zero selected any }		15	INTERFACE_PORT_LIST
no qos dscp-classify		15	INTERFACE_PORT_LIST
qos dscp-remark { rewrite remap remap-dp }		15	INTERFACE_PORT_LIST
no qos dscp-remark		15	INTERFACE_PORT_LIST
qos storm { unicast broadcast unknown } <100-13200000> [fps]		15	INTERFACE_PORT_LIST
no qos storm { unicast broadcast unknown }		15	INTERFACE_PORT_LIST
qos qce { [addr { source destination }] [key { double-tag normal ip-addr mac-ip-addr }] } *1		15	INTERFACE_PORT_LIST
no qos qce { [addr] [key] } *1		15	INTERFACE_PORT_LIST
debug qos shaper cir { <100-3300000> [cbs <4096-258048>] } { [eir <100-3300000> [ebs <4096-258048>]] }		debug	INTERFACE_PORT_LIST
no debug qos shaper		debug	INTERFACE_PORT_LIST
debug qos queue-shaper queue <0-7> { cir <100-3300000> [cbs <4096-258048>] } { [eir <100-3300000> [ebs <4096-258048>]] } [excess]		debug	INTERFACE_PORT_LIST
no debug qos queue-shaper queue <0-7>		debug	INTERFACE_PORT_LIST
debug show qos shapers		debug	EXEC
debug qos cmef [{ enable disable }]		debug	EXEC
show rmon statistics [<1-65535>]		15	EXEC
show rmon history [<1-65535>]		15	EXEC
show rmon alarm [<1-65535>]		15	EXEC
show rmon event [<1-65535>]		15	EXEC
rmon alarm <1-65535> <word255> <1-2147483647> { absolute delta } rising-threshold <-2147483648-2147483647> <1-65535> falling-threshold <-2147483648-2147483647> <1-65535> { [rising falling both] }		15	GLOBAL_CONFIG

CHAPTER 24: CLI COMMAND REFERENCES**TABLE 24-2 (CONTINUED). COMMAND SUMMARY**

COMMAND	DESCRIPTION	P	M
no rmon alarm <1-65535>		15	GLOBAL_CONFIG
rmon event <1-65535> [log] [trap <word127>] {[description <line127>]}		15	GLOBAL_CONFIG
no rmon event <1-65535>		15	GLOBAL_CONFIG
rmon collection stats <1-65535>		15	INTERFACE_PORT_LIST
no rmon collection stats <1-65535>		15	INTERFACE_PORT_LIST
rmon collection history <1-65535> [buckets <1-65535>] [interval <1-3600>]		15	INTERFACE_PORT_LIST
no rmon collection history <1-65535>		15	INTERFACE_PORT_LIST
show sflow statistics { receiver [<range_list>] samplers [interface [<range_list>] <port_type_list>]}	Use sflow statistics to show statistics for either receiver or sample interface.	0	EXEC
show sflow	Use show sflow to display the current sFlow configuration.	0	EXEC
clear sflow statistics { receiver [<range_list>] samplers [interface [<range_list>] <port_type_list>]}	Clearing statistics	15	EXEC
sflow agent-ip {ipv4 <ipv4_addr> ipv6 <ipv6_addr>}	The agent IP address used as agent-address in UDP datagrams. Defaults to IPv4 loopback address.	15	GLOBAL_CONFIG
no sflow agent-ip	Sets the agent IP address used as agent-address in UDP datagrams to 127.0.0.1.	15	GLOBAL_CONFIG
sflow timeout [receiver <range_list>] <0-2147483647>	Receiver timeout measured in seconds. The switch decrements the timeout once per second, and as long as it is non-zero, the receiver receives samples. Once the timeout reaches 0, the receiver and all its configuration is reset to defaults.	15	GLOBAL_CONFIG
sflow collector-address [receiver <range_list>] <word>	Collector address	15	GLOBAL_CONFIG
no sflow collector-address [receiver <range_list>]		15	GLOBAL_CONFIG
sflow collector-port [receiver <range_list>] <1-65535>	Collector UDP port. Valid range is 0-65536.	15	GLOBAL_CONFIG
no sflow collector-port [receiver <range_list>]	Collector UDP port. Valid range is 0-65536.	15	GLOBAL_CONFIG
sflow max-datagram-size [receiver <range_list>] <200-1468>	Maximum datagram size.	15	GLOBAL_CONFIG
qos wrr <1-100> <1-100> <1-100> <1-100> <1-100> <1-100>	Maximum datagram size.	15	GLOBAL_CONFIG
sflow sampling-rate [sampler <range_list>] [<1-4294967295>]	Specifies the statistical sampling rate. The sample rate is specified as N to sample 1/Nth of the packets in the monitored flows. There are no restrictions on the value, but the switch will adjust it to the closest possible sampling rate.	15	INTERFACE_PORT_LIST
sflow max-sampling-size [sampler <range_list>] [<14-200>]	Specifies the maximum number of bytes to transmit per flow sample	15	INTERFACE_PORT_LIST



CHAPTER 24: CLI COMMAND REFERENCES

TABLE 24-2 (CONTINUED). COMMAND SUMMARY

COMMAND	DESCRIPTION	P	M
no sflow max-sampling-size [sampler <range_list>]	Specifies the maximum number of bytes to transmit per flow sample.	15	INTERFACE_PORT_LIST
sflow counter-poll-interval [sampler <range_list>] [<1-3600>]	The interval - in seconds - between counter poller samples.	15	INTERFACE_PORT_LIST
no sflow counter-poll-interval [<range_list>]	The interval - in seconds - between counter poller samples.	15	INTERFACE_PORT_LIST
sflow [<range_list>]	Enables/disables flow sampling on this port.	15	INTERFACE_PORT_LIST
show smtp	Email information	0	EXEC
smtp delete { server username sender returnpath mailaddress <1-6> }	Delete email server	15	GLOBAL_CONFIG
smtp mailaddress <1-6> <word47>	Set email server	15	GLOBAL_CONFIG
smtp returnpath <word47>		15	GLOBAL_CONFIG
smtp sender <word47>		15	GLOBAL_CONFIG
smtp username <word31> <word31>		15	GLOBAL_CONFIG
smtp server <word47>		15	GLOBAL_CONFIG
smtp level <0-7>		15	GLOBAL_CONFIG
show snmp		15	EXEC
show snmp community v3 [<word127>]		15	EXEC
no sflow collector-address [receiver <range_list>]		15	GLOBAL_CONFIG
show snmp user [<word32> <word10-32>]			
show snmp user [<word32> <word10-32>]			
show snmp security-to-group [{ v1 v2c v3 } <word32>]			
show snmp access [<word32> { v1 v2c v3 any } { auth noauth priv }]			
show snmp view [<word32> <word255>]			
snmp-server	Enable SNMP server.	13	GLOBAL_CONFIG
snmp-server engine-id local <word10-32>	To specify SNMP server's engine ID.	13	GLOBAL_CONFIG
no snmp-server engine-id local	To set SNMP server's engine ID to default value.	15	GLOBAL_CONFIG
snmp-server version { v1 v2c v3 }	Set the SNMP server version to SNMPv1, SNMPv2c or SNMPv3.	15	GLOBAL_CONFIG
no snmp-server version	Set SNMP server's version to default setting.	15	GLOBAL_CONFIG

CHAPTER 24: CLI COMMAND REFERENCES

TABLE 24-2 (CONTINUED). COMMAND SUMMARY

COMMAND	DESCRIPTION	P	M
snmp-server community v2c <word127> [ro rw]		15	GLOBAL_CONFIG
snmp-server community v3 <word127> [<ipv4_addr> <ipv4_netmask>]		15	GLOBAL_CONFIG
no snmp-server community v2c		15	GLOBAL_CONFIG
no snmp-server community v3 <word127>		15	GLOBAL_CONFIG
snmp-server user <word32> engine-id <word10-32> [{ md5 <word8-32> sha <word8-40> } [priv { des aes } <word8-32>]]		15	GLOBAL_CONFIG
no snmp-server user <word32> engine-id <word10-32>		15	GLOBAL_CONFIG
snmp-server security-to-group model { v1 v2c v3 } name <word32> group <word32>		15	GLOBAL_CONFIG
no snmp-server security-to-group model { v1 v2c v3 } name <word32>		15	GLOBAL_CONFIG
snmp-server access <word32> model { v1 v2c v3 any } level { auth noauth priv } [read <word255>] [write <word255>]		15	GLOBAL_CONFIG
no snmp-server access <word32> model { v1 v2c v3 any } level { auth noauth priv }		15	GLOBAL_CONFIG
snmp-server view <word32> <word255> { include exclude }		15	GLOBAL_CONFIG
no snmp-server view <word32> <word255>		15	GLOBAL_CONFIG
snmp-server contact <line255>	To specify the system contact string	15	GLOBAL_CONFIG
no snmp-server contact	To clear the system contact string	15	GLOBAL_CONFIG
snmp-server location <line255>	To specify the system location string	15	GLOBAL_CONFIG
no snmp-server location	To specify the system location string	15	GLOBAL_CONFIG
show snmp mib context	Use the show snmp mib context user EXEC command to display the supported MIBs in the switch.	15	EXEC
show snmp mib ifmib ifIndex	Use the show snmp mib ifmib ifIndex user EXEC command to display the SNMP ifIndex(defined in IF-MIB) mapping information in the switch.	15	EXEC
show snmp mib redefine	Use the show snmp mib redefine user EXEC command to display the redefined MIBs in the switch, that are different definitions from the standard MIBs.	15	EXEC
snmp-server trap		15	GLOBAL_CONFIG
no snmp-server host <word32>		15	GLOBAL_CONFIG



CHAPTER 24: CLI COMMAND REFERENCES

TABLE 24-2 (CONTINUED). COMMAND SUMMARY

COMMAND	DESCRIPTION	P	M
shutdown		15	SNMPS_HOST
host { <ipv4_ucast> <hostname> } [<1-65535>] [traps informs]		15	SNMPS_HOST
host <ipv6_ucast> [<1-65535>] [traps informs]		15	SNMPS_HOST
no host		15	SNMPS_HOST
version { v1 [<word127>] v2 [<word127>] v3 [probe engineID <word10-32>] [<word32>] }		15	SNMPS_HOST
no version		15	SNMPS_HOST
informs retries <0-255> timeout <0-2147>		15	SNMPS_HOST
no informs		15	SNMPS_HOST
traps [aaa authentication] [system [coldstart] [warmstart]] [switch [stp] [rmon]]		15	SNMPS_HOST
no traps		15	SNMPS_HOST
snmp-server host <word32> traps [linkup] [linkdown] [lldp]		15	INTERFACE_PORT_LIST
no snmp-server host <word32> traps		15	INTERFACE_PORT_LIST
show snmp host [<word32>] [system] [switch] [interface] [aaa]		15	EXEC
switch stack re-elect	Config commands for the switches in the stack	13	EXEC
switch stack priority { local <1-16> } <1-4>	Configure master election priority	13	GLOBAL_CONFIG
switch stack swap <1-16> <1-16>	Swap switch ID	13	GLOBAL_CONFIG
no switch stack <1-16>		13	GLOBAL_CONFIG
switch stack <1-16> mac <mac_ucast>	MAC address of the switch	13	GLOBAL_CONFIG
switch stack { enable disable }	Enable/disable stacking	13	GLOBAL_CONFIG
switch stack interface <port_type_list>	Configure stacking interface	13	GLOBAL_CONFIG
show switch stack [details]	Show switch Detail information	0	EXEC
show switch stack debug	Show switch Debug information	debug	EXEC
show ip ssh	Use the show ip ssh privileged EXEC command to display the SSH status.	15	EXEC
ip ssh	Use the ip ssh global configuration command to enable the SSH. Use the no form of this command to disable the SSH.	15	GLOBAL_CONFIG

CHAPTER 24: CLI COMMAND REFERENCES

TABLE 24-2 (CONTINUED). COMMAND SUMMARY

COMMAND	DESCRIPTION	P	M
show network-clock	Show selector state.	0	EXEC
clear network-clock clk-source <range_list>	Clear active WTR timer.	15	EXEC
network-clock clk-source <range_list> nominate { clk-in {interface <port_type_ id>} }	Nominate a clk input to become a selectable clock source.	15	GLOBAL_CONFIG
no network-clock clk-source <range_ list> nominate		15	GLOBAL_CONFIG
network-clock input-source { 1544khz 2048khz 10mhz }	Sets the station clock input frequency	15	GLOBAL_CONFIG
no network-clock input-source		15	GLOBAL_CONFIG
network-clock output-source { 1544khz 2048khz 10mhz }	Sets the station clock output frequency	15	GLOBAL_CONFIG
no network-clock output-source		15	GLOBAL_CONFIG
network-clock clk-source <range_list> aneg-mode { master slave forced }	Sets the preferred negotiation.	15	GLOBAL_CONFIG
no network-clock clk-source <range_ list> aneg-mode		15	GLOBAL_CONFIG
network-clock clk-source <range_list> hold-timeout <3-18>	The hold off timer value in 100 ms.Valid values are range 3-18.	15	GLOBAL_CONFIG
no network-clock clk-source <range_list> hold-timeout		15	GLOBAL_CONFIG
network-clock selector { { manual clk- source <uint> } selected nonrevertive revertive holdover freerun }	Selection mode of nominated clock sources	15	GLOBAL_CONFIG
no network-clock selector		15	GLOBAL_CONFIG
network-clock clk-source <range_list> priority <0-1>	Priority of nominated clock sources.	15	GLOBAL_CONFIG
no network-clock clk-source <range_ list> priority		15	GLOBAL_CONFIG
network-clock wait-to-restore <0-12>	WTR time (0-12 min) "0" is disable	15	GLOBAL_CONFIG
no network-clock wait-to-restore		15	GLOBAL_CONFIG
network-clock ssm-holdover { prc ssua ssub eec2 eec1 dnu inv }	Hold Over SSM overwrite	15	GLOBAL_CONFIG
no network-clock ssm-holdover		15	GLOBAL_CONFIG
show switch stack [details]	Show switch Detail information	15	GLOBAL_CONFIG
network-clock ssm-freerun { prc ssua ssub eec2 eec1 dnu inv }	Free Running SSM overwrite	15	GLOBAL_CONFIG
no network-clock ssm-freerun		15	GLOBAL_CONFIG
network-clock clk-source <range_list> ssm-overwrite { prc ssua ssub eec2 eec1 dnu }	Clock source SSM overwrite	15	GLOBAL_CONFIG



CHAPTER 24: CLI COMMAND REFERENCES

TABLE 24-2 (CONTINUED). COMMAND SUMMARY

COMMAND	DESCRIPTION	P	M
no network-clock clk-source <range_list> ssm-overwrite		15	GLOBAL_CONFIG
network-clock option { eec1 eec2 }	EEC options	15	GLOBAL_CONFIG
no network-clock option		15	GLOBAL_CONFIG
network-clock synchronization ssm	SSM enable/disable	15	INTERFACE_PORT_LIST
show logging [info] [warning] [error] [switch <switch_list>]	Use the show logging privileged EXEC command without keywords to display the logging configuration, or particularly the logging message summary for the logging level.	15	EXEC
show logging <1-4294967295> [switch <switch_list>]	Use the show logging privileged EXEC command with logging ID to display the detail logging message. OC_CMD_DEFAULT =	15	EXEC
clear logging [info] [warning] [error] [switch <switch_list>]	Use the clear logging privileged EXEC command to clear the logging message	15	EXEC
logging on	Use the logging on global configuration command to enable the logging server. Use the no form of this command to disable the logging server.	15	GLOBAL_CONFIG
logging host { <ipv4_ucast> <hostname> }	Use the logging host global configuration command to configure the host address of logging server.	15	GLOBAL_CONFIG
no logging host	Use the no logging host global configuration command to clear the host address of logging server.	15	GLOBAL_CONFIG
logging level { info warning error }	Use the logging level global configuration command to configure what level of message will send to logging server..	15	GLOBAL_CONFIG
show clock	Show running system information	0	EXEC
show version	System hardware and software status	0	EXEC
password unencrypted <line31>	Use the password encrypted <password> global configuration command to configure administrator password with unencrypted password for the local switch access.	15	GLOBAL_CONFIG
password encrypted <word4-44>	Use the password encrypted <password> global configuration command to configure administrator password with encrypted password for the local switch access.	15	GLOBAL_CONFIG
password none	Use the password none global configuration command to remove the administrator password.	15	GLOBAL_CONFIG
show system	Show system information	0	EXEC
system contact <line255>	To specify the system contact string	15	GLOBAL_CONFIG
no system contact	To clear the system contact string	15	GLOBAL_CONFIG
system location <line255>	To specify the system location string	15	GLOBAL_CONFIG
no system location	To specify the system location string	15	GLOBAL_CONFIG
system name <line255>	To specify the system mode name string	15	GLOBAL_CONFIG
no system name	To specify the system model name string	15	GLOBAL_CONFIG
show thermal-protect [interface <port_type_list>]	Show thermal protection status (chip temperature and port status).	15	EXEC



CHAPTER 24: CLI COMMAND REFERENCES

TABLE 24-2 (CONTINUED). COMMAND SUMMARY

COMMAND	DESCRIPTION	P	M
thermal-protect prio <0-3> temperature <0-255>	Thermal protection configuration	15	GLOBAL_CONFIG
no thermal-protect prio <0-3>	Sets temperature at which to turn ports with the corresponding priority off.	15	GLOBAL_CONFIG
thermal-protect port-prio <0-3>	Sets temperature at which to turn ports with the corresponding priority off.	15	INTERFACE_PORT_LIST
no thermal-protect port-prio	Sets temperature at which to turn ports with the corresponding priority off.	15	INTERFACE_PORT_LIST
show upnp		15	EXEC
upnp		15	GLOBAL_CONFIG
upnp ttl <1-255>		15	GLOBAL_CONFIG
no upnp ttl		15	GLOBAL_CONFIG
upnp advertising-duration <100-86400>		15	GLOBAL_CONFIG
no upnp advertising-duration		15	GLOBAL_CONFIG
username <word31> privilege <0-15> password unencrypted <line31>	Use the username <username> privilege <level> password encrypted <password> global configuration command to add a user with unencrypted password for the local switch access.	15	GLOBAL_CONFIG
username <word31> privilege <0-15> password encrypted <word4-44>	Use the username <username> privilege <level> password encrypted <password> global configuration command to add a user with encrypted password for the local switch access.	15	GLOBAL_CONFIG
username <word31> privilege <0-15> password none	Use the username <username> privilege <level> password none global configuration command to remove the password for specific username	15	GLOBAL_CONFIG
no username <word31>	Use the no username <username> global configuration command to delete a local user.	15	GLOBAL_CONFIG
vlan protocol {{eth2 {<0x600-0xffff> arp ip ipx at}} {snap {<0x0-0xfffff> rfc-1042 snap-8021h} <0x0-0xffff>} {llc <0x0-0xff> <0x0-0xff>}} group <word16>		13	GLOBAL_CONFIG
switchport vlan mac <mac_ucast> vlan <vlan_id>	Use the switchport vlan mac command to associate a MAC address to VLAN ID.	13	INTERFACE_PORT_LIST
switchport vlan protocol group <word16> vlan <vlan_id>	Use the no form of this command to remove the group to vlan mapping.	13	INTERFACE_PORT_LIST
show vlan protocol [eth2 {<0x600-0xffff> arp ip ipx at}] [snap {<0x0-0xfffff> rfc-1042 snap-8021h} <0x0-0xffff>] [llc <0x0-0xff> <0x0-0xff>]	Use the switchport vlan protocol group command to add group to vlan mapping	13	EXEC
show vlan mac [address <mac_ucast>]		13	EXEC
show vlan ip-subnet [id <1-128>]		13	EXEC
switchport vlan ip-subnet id <1-128> <ipv4_subnet> vlan <vlan_id>	To specify the system location string	15	INTERFACE_PORT_LIST



CHAPTER 24: CLI COMMAND REFERENCES

TABLE 24-2 (CONTINUED). COMMAND SUMMARY

COMMAND	DESCRIPTION	P	M
no switchport vlan ip-subnet id <1–128>		13	INTERFACE_PORT_LIST
debug vcl policy <uint>		debug	INTERFACE_PORT_LIST
no debug vcl policy		debug	GLOBAL_CONFIG
debug show vcl policy		debug	EXEC
switchport mode {access trunk hybrid}	Use the switchport mode command to define the type of the port.	13	INTERFACE_PORT_LIST
no switchport mode		13	INTERFACE_PORT_LIST
switchport access vlan <vlan_id>	Use the switchport access vlan command to configure a port to a VLAN. Valid VLAN IDs are 1 to 4095.	13	INTERFACE_PORT_LIST
no switchport access vlan		13	INTERFACE_PORT_LIST
switchport trunk native vlan <vlan_id>	Use the switchport native vlan command to configure a port VLAN ID for a trunk port.	13	INTERFACE_PORT_LIST
no switchport trunk native vlan	Set trunk mode characteristics of the interface	13	INTERFACE_PORT_LIST
switchport hybrid native vlan <vlan_id>	Use the switchport native vlan command to configure a port VLAN ID for a hybrid port.	13	INTERFACE_PORT_LIST
no switchport hybrid native vlan	Set hybrid mode characteristics of the interface	13	INTERFACE_PORT_LIST
switchport hybrid port-type { unaware c-port s-port s-custom-port }	Set hybrid characteristics of the interface	13	INTERFACE_PORT_LIST
no switchport hybrid port-type	Set hybrid characteristics of the interface	13	INTERFACE_PORT_LIST
switchport hybrid ingress-filtering	Set hybrid characteristics of the interface	13	INTERFACE_PORT_LIST
switchport hybrid acceptable-frame-type { all tagged untagged }	Set hybrid characteristics of the interface	13	INTERFACE_PORT_LIST
no switchport hybrid acceptable-frame-type	Set hybrid characteristics of the interface	13	INTERFACE_PORT_LIST
switchport hybrid egress-tag {none all [except-native]}	Set hybrid characteristics of the interface	13	INTERFACE_PORT_LIST
no switchport hybrid egress-tag	Set hybrid characteristics of the interface	13	INTERFACE_PORT_LIST
switchport trunk vlan tag native	Set trunk characteristics of the interface	13	INTERFACE_PORT_LIST
switchport trunk allowed vlan {all none [add remove except] <vlan_list>}	Set trunk mode characteristics of the interface	15	INTERFACE_PORT_LIST
no switchport trunk allowed vlan	Set trunk characteristics of the interface,	13	INTERFACE_PORT_LIST
switchport hybrid allowed vlan {all none [add remove except] <vlan_list>}	Set hybrid characteristics of the interface	13	INTERFACE_PORT_LIST
sno switchport hybrid allowed vlan	Set hybrid characteristics of the interface	13	INTERFACE_PORT_LIST
vlan ethertype s-custom-port <0x0600-0xffff>		13	GLOBAL_CONFIG
no vlan {(ethertype s-custom-port) <vlan_list>}		15	GLOBAL_CONFIG

CHAPTER 24: CLI COMMAND REFERENCES

TABLE 24-2 (CONTINUED). COMMAND SUMMARY

COMMAND	DESCRIPTION	P	M
show interface <port_type_list> switchport [access trunk hybrid]	Use the show interfaces command to display the administrative and operational status of all interfaces or a specified interface.	0	EXEC
show vlan [id <vlan_list> name <vword32> brief]	Use the show vlan command to view the VLAN configuration.	13	EXEC
show vlan status [interface <port_type_ list>] [combined admin nas mvr voice- vlan mstp erps vcl evc gvrp all conflicts]	Use the show VLAN status command to view the VLANs configured for each interface.	13	EXEC
name <vword32>	Use the name <vword32> command to configure VLAN name.	13	CONFIG_VLAN
no name	The no form of this command will restore the VLAN name to its default.	13	CONFIG_VLAN
switchport forbidden vlan {add remove} <vlan_list>	Adds or removes forbidden VLANs from the current list of forbidden VLANs	15	INTERFACE_PORT_LIST
no switchport forbidden vlan	Allows for adding VLANs to an interface	15	INTERFACE_PORT_LIST
show switchport forbidden [{vlan <vlan_ id>} {name <word>}]	Lookup VLAN Forbidden port entry.	0	EXEC
voice vlan	Use the voice vlan global configuration command to enable voice vlan. Use the no form of this command to globally disable voice vlan.	15	GLOBAL_CONFIG
voice vlan vid <vlan_id>	Use the voice vlan vid global configuration command to configure voice vlan vid	15	GLOBAL_CONFIG
no voice vlan vid	Use the no voice vlan vid global configuration command to restore the default voice vlan vid.	15	GLOBAL_CONFIG
voice vlan aging-time <10-10000000>	Use the voice vlan aging-time global configuration command to configure default voice vlan aging-time.	15	GLOBAL_CONFIG
no voice vlan aging-time	Use the no voice vlan aging-time global configuration command to restore the default voice vlan aging-time.	15	GLOBAL_CONFIG
voice vlan class { <0-7> low normal medium high }	Use the voice vlan class global configuration command to configure voice vlan class.	15	GLOBAL_CONFIG
no voice vlan class	Use the no voice vlan class global configuration command to restore the default voice vlan class..	15	GLOBAL_CONFIG
voice vlan oui <oui> [description <line32>]	Use the voice vlan oui global configuration command to set the oui entry for voice vlan.	15	GLOBAL_CONFIG
no voice vlan oui <oui>	Use the no voice vlan oui global configuration command to delete the oui entry.	15	GLOBAL_CONFIG
switchport voice vlan mode { auto force disable }	Use the switchport voice vlan mode interface configuration command to configure to switchport voice vlan mode.	15	GLOBAL_CONFIG
no switchport voice vlan mode	Use the no switchport voice vlan mode interface configuration command to restore the default switchport voice vlan mode.	15	GLOBAL_CONFIG
switchport voice vlan security	Use the switchport voice vlan security interface configuration command to configure switchport voice vlan security mode. Use the no form of this command to globally disable switchport voice vlan security mode.	15	INTERFACE_PORT_LIST
switchport voice vlan discovery-protocol {oui lldp both}	Use the switchport voice vlan discovery-protocol interface configuration command to configure to switchport voice vlan discovery-protocol.	15	INTERFACE_PORT_LIST



CHAPTER 24: CLI COMMAND REFERENCES**TABLE 24-2 (CONTINUED). COMMAND SUMMARY**

COMMAND	DESCRIPTION	P	M
no switchport voice vlan discovery-protocol	Use the no switchport voice vlan discovery-protocol interface configuration command to restore the default switchport voice vlan discovery-protocol.	15	INTERFACE_PORT_LIST
show voice vlan [oui <oui> interface <port_type_list>]	Use the show voice vlan privilege EXEC command without keywords to display the voice vlan configuration, or particularly switchport configuration for the interface, or use the oui keyword to display oui table.	15	EXEC
debug gvrp protocol-state interface <port_type_list> vlan <vlan_list>		debug	EXEC
debug gvrp msti		debug	EXEC
debug gvrp statistic		debug	EXEC
gvrp		15	GLOBAL_CONFIG
gvrp time { [join-time <1-20>] [leave-time <60-300>] [leave-all-time <1000-5000>] }*1		15	GLOBAL_CONFIG
gvrp max-vlans <1-4095>		15	GLOBAL_CONFIG
gvrp		15	INTERFACE_PORT_LIST
gvrp join-request vlan <vlan_list>		15	INTERFACE_PORT_LIST
gvrp leave-request vlan <vlan_list>		15	INTERFACE_PORT_LIST

APPENDIX: DISCLAIMER/TRADEMARKS

A.1 DISCLAIMER

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NOTES

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