

# Abaniact L2M Gigabit HUB CLI コマンド一覧

## 1. CLI

CLI (Command Line Input) は次のプロトコルをサポートしています。

1.1 telnet ウェブ設定インターフェースよりtelnetが有効に設定されていることを確認して下さい。

## 2. 管理者ログイン

ユーザー名 admin  
パスワード admin

## 3. ログインプロンプト

システムのデフォルト設定では Telnet は無効に設定されていますので、telnetを利用する場合はウェブ設定よりtelnetを有効にして下さい。

```
Switch#
Username: admin
Password: *****
*Jan 01 2000 10:13:28: %AAA-5: New console connection for user admin, source async ACCEPTED
Switch#
```

CLI ログイン画面例

## 4. CLI モード

CLI (Command Line Input)は3つのモードに分かれています。

default mode このモードはCLIログイン時のモードで、リードオンリーのコマンドが実行できます。

config configモードでは追加/変更を行うシステムコマンドを実行できます。

config-if config-ifモードは特定のインターフェースに対して追加/変更を行うシステムコマンドを実行できます。

### 4.1 Default mode

このモードでは、「default」タブ・リストにある一般的なリードオンリーのコマンドのみを実行できます。

```
Switch# show cable-diag interfaces GigabitEthernet WAN
Port | Speed | Local pair | Pair length | Pair status
-----|-----|-----|-----|-----
WAN | auto | Pair A | 6.00 | Normal
      |      | Pair B | 6.00 | Normal
      |      | Pair C | 6.00 | Normal
      |      | Pair D | 6.00 | Normal
```

CLI default mode の画面例:  
WANインターフェースのケーブル診断  
コマンド

Switch#

### 4.2 Config mode

このモードでは、「config」タブ・リストにある追加/変更を行うシステムコマンドを実行できます。

CLI config modeの画面例: Switch(config)# ip address 192.168.1.1

スイッチのIPアドレスを設定します。 Switch(config)#

### 4.3 Config-IF mode

このモードでは、「config-if」タブ・リストにある特定のインターフェースに対する追加/変更を行うコマンドを実行できます。

```
Switch(config)# interface
GigabitEthernet Gigabit ethernet interface to configure
LAG IEEE 802.3 Link Aggregateion interface
range interface range command
Switch(config)# interface GigabitEthernet 1
Switch(config-if)# storm-control
action broadcast unknown-multicast unknown-unicast
Switch(config-if)# storm-control action
drop shutdown
Switch(config-if)# storm-control action shutdown
Switch(config-if)#
```

CLI config-if modeの画面例:  
特定インターフェースのストームコント  
ロールをシャットダウンしています。

## 5. CLI ヘルプ

CLIプロンプトで、「?」とタイプすると、有効なコマンドのヘルプが表示されます。また特定コマンドで「?」をタイプすると、そのコマンドのヘルプが表示されます。

```
Switch# ?
clear          Clear configuration
clock          Manage the system clock
configure      Configuration Mode
copy           Copy from one file to another
delete        Delete a file from the flash file system
disable       Turn off privileged mode command
end           End current mode and change to enable mode
exit          Exit current mode and down to previous mode
ping          Send ICMP ECHO_REQUEST to network hosts
reboot        Halt and perform a cold restart
renew         RenewIP configuration
restore-defaults Restore to default
save          Save running configuration to flash
show          Show running system information
ssl           Setup SSL host keys
Switch# show cable-diag ?
interfaces Interface status and configuration
Switch# show cable-diag interfaces ?
GigabitEthernet Gigabit ethernet interface to configure
Switch# show cable-diag interfaces GigabitEthernet ?
<1-16,WAN> GigabitEthernet device number
Pressing "?" at command "show cable Switch# show cable-diag interfaces GigabitEthernet
```

Pressing "?" in default mode

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「2 ページ見開き」でご覧ください。

#### 4.1 Default mode

##### Command Semantic

command [token 1] [token 2]  
...

[ ] must input ( ) optional input

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行NO.	Command	Command [Description]	token 1 [Description]	token 2 [Description]	token 3 [Description]
1	clear arp (A.B.C.D)	Clear configuration	Clear entries in the ARP cache.	IP address to clear.	
2	clear gvrp error-statistics (interfaces GigabitEthernet <1-16,WAN>)	Clear configuration	GVRP Configuration	GVRP Error Statistics info	interface status and configuration
3	clear gvrp error-statistics (interfaces LAG <1-8>)	Clear configuration	GVRP Configuration	GVRP Error Statistics info	interface status and configuration
4	clear gvrp statistics (interfaces GigabitEthernet <1-16,WAN>)	Clear configuration	GVRP Configuration	GVRP Statistics info	interface status and configuration
5	clear gvrp statistics (interfaces LAG <1-8>)	Clear configuration	GVRP Configuration	GVRP Statistics info	interface status and configuration
6	clear interfaces GigabitEthernet <P1-P16,WAN>	Clear configuration	Interface status and configuration	Gigabit ethernet interface to configure	GigabitEthernet device number
7	clear interface LAG <1-8>	Clear configuration	Interface status and configuration	IEEE 802.3 Link Aggregate interface	LAG interface number
8	clear ip arp inspection interfaces GigabitEthernet <1-16,WAN>	Clear configuration	IP configuration	ARP inspection statistics	ARP Inspection information
9	clear ip arp inspection interfaces LAG <1-8>	Clear configuration	IP configuration	ARP inspection statistics	ARP Inspection information
10	clear ip dhcp snooping interfaces GigabitEthernet <1-16,WAN>	Clear configuration	IP configuration	DHCP configuration	Snopping information
11	clear ip dhcp snooping interfaces LAG <1-8>	Clear configuration	IP configuration	DHCP configuration	Snopping information
12	clear ip dhcp snooping database statistics	Clear configuration	IP configuration	DHCP configuration	Snopping information
13	clear ip igmp snooping groups (dynamic   static)	Clear configuration	IP configuration	IGMP Configuration	IGMP snooping configuration
14	clear ip igmp snooping statistics	Clear configuration	IP configuration	IGMP Configuration	IGMP snooping configuration
15	clear ip igmp snooping vlan [VLAN-LIST] static-mac A:B:C:D:E:F	Clear configuration	IP configuration	IGMP Configuration	IGMP snooping configuration
16	clear ipv6 mld snooping groups (dynamic   static)	Clear configuration	IPv6 information	MLD Configuration	MLD Snooping Configuration
17	clear ipv6 mld snooping statistics	Clear configuration	IPv6 information	MLD Configuration	MLD Snooping Configuration
18	clear ipv6 mld snooping vlan [VLAN-LIST] static-mac A:B:C:D:E:F	Clear configuration	IPv6 information	MLD Configuration	MLD Snooping Configuration
19	clear lacp [<1-8>] counters	Clear configuration	LACP Configuration	LAG number	Traffic information
20	clear lacp counters	Clear configuration	LACP Configuration	Traffic information	
21	clear line telnet	Clear configuration	To identify a specific line for configuration	Telnet daemon configuration	
22	clear logging ( buffered   file)	Clear configuration	Log Configuration	Buffered logging.	File logging
23	clear mac address-table dynamic (interfaces GigabitEthernet <1-16,WAN>)	Clear configuration	MAC configuration	MAC address table configuration	dynamic addresses
24	clear mac address-table dynamic (interfaces LAG <1-8>)	Clear configuration	MAC configuration	MAC address table configuration	dynamic addresses
25	clear mac address-table dynamic vlan <1-4094>	Clear configuration	MAC configuration	MAC address table configuration	dynamic addresses
26	clear rmon interfaces GigabitEthernet <1-16, WAN>	Clear configuration	RMON information	Interface status and configuration	Gigabit ethernet interface to configure
27	clear rmon interfaces LAG <1-8>	Clear configuration	RMON information	Interface status and configuration	IEEE 802.3 Link Aggregate interface

行NO.	token 4 [Description]	token 5 [Description]	token 6 [Description]	token 7 [Description]	token 8 [Description]
1					
2	Gigabit ethernet interface to configure	GigabitEthernet device number			
3	IEEE 802.3 Link Aggregate interface	LAG interface number			
4	Gigabit ethernet interface to configure	GigabitEthernet device number			
5	IEEE 802.3 Link Aggregate interface	LAG interface number			
6					
7					
8	Interface status and configuration	Gigabit ethernet interface to configure	GigabitEthernet device number		
9	Interface status and configuration	IEEE 802.3 Link Aggregate interface	LAG interface number		
10	Interface status and configuration	Gigabit ethernet interface to configure	GigabitEthernet device number		
11	Interface status and configuration	IEEE 802.3 Link Aggregate interface	LAG interface number		
12	DHCP snooping database agent.	Statistics.			
13	IPv4 multicast groups.	dynamic groups. static groups			
14	Clear IGMP snooping statistics				
15	VLAN configuration	VLAN List (e.g. 3,6-8): The range of VLAN ID is 1 to 4094	Static ipv4 multicast mac configuration	IPV4 multicast address 01:00:5e:xx:xx:xx	
16	MLD Snooping Configuration	IPv6 multicast groups	dynamic groups. static groups		
17	Clear MLD snooping statistics				
18	VLAN configuration	VLAN List (e.g. 3,6-8): The range of VLAN ID is 1 to 4094	Static ipv6 multicast mac configuration	IPv6 multicast address 33:33:xx:xx:xx:xx	
19					
20					
21					
22					
23	Interface status and configuration	Gigabit ethernet interface to configure	GigabitEthernet device number		
24	Interface status and configuration	IEEE 802.3 Link Aggregate interface	LAG interface number		
25	VLAN configuration	<1-4094> VLAN ID (e.g. 100)			
26	GigabitEthernet device number				
27	LAG interface number				

行NO.	Command	Command (Description)	token 1 (Description)	token 2 (Description)	token 3 (Description)
28	clock set HH:MM:SS ( jan   feb   mar   apr   may   jun   jul   aug   sep   oct   nov   dec ) <1-31> <2000-2035>	Manage the system clock.	Manually set the system clock.	Current time in hours (24 Hour format), minutes, and seconds.	Month January, Month February, Month March, Month April, Month May, Month June, Month July, Month August, Month September, Month October, Month November, Month December.
29	copy ( backup-config   running-config   startup-config ) tftp://	Copy from one file to another	Backup configuration	Running configuration	Startup configuration
30	copy ( backup-config   startup-config ) running-config	Copy from one file to another	Backup configuration	Startup configuration	Update (merge with) current system configuration
31	copy ( flash://   tftp:// ) ( flash://   tftp:// )	Copy from one file to another	Copy from flash: file system.	Copy from tftp: file system.	Copy to flash: file system.
32	copy backup-config startup-config	Copy from one file to another	Copy to startup configuration		
33	copy running-config ( startup-config   backup-config )	Copy from one file to another	Copy running configuration		
34	copy startup-config backup-config	Copy from one file to another	Backup configuration		
35	copy tftp:// ( backup-config   running-config   startup-config )	Copy from one file to another	Copy from tftp: file system		
36	delete ( backup-config   startup-config   flash:// )	Delete a file from the flash file system	Delete a file from the flash file system		
37	delete system ( image0   image1 )	Delete a file from the flash file system	Delete a file from the flash file system.	Runtime image 0. Runtime image 1	
38	disable <1-14>	Turn off privileged mode command	Privilege level		
39	end	End current mode and change to enable mode			
40	exit	Exit current mode and down to previous mode			
41	ping HOSTNAME [count <1-999999999>]	Send ICMP ECHO_REQUEST to network hosts	Host name	The number of repetitions.	1-999999999
42	reboot	Halt and perform a cold restart	Halt and perform a cold restart.		
43	renew ip dhcp snooping database	Renew IP configuration	DHCP configuration	DHCP snooping database agent	
44	restore-defaults	Restore to default	Restore to default		
45	save	Save running configuration to flash			
46	show aaa authentication ( login   enable ) lists	Show running system information	AAA(Authentication, Authorization, Accounting)	login authentication	enable authentication
47	show arp	Show running system information	Show the IP ARP translation table.		
48	show backup-config	Show running system information	Show backup configuration		
49	show cable-diagnostics interface GigabitEthernet <1-16, WAN>	Show running system information	Cable Diagnostics	Interface status and configuration	Gigabit ethernet interface to configure
50	show clock ( detail )	Show running system information	Display the time and date from the system clock. Show timezone and summertime configuration.		
51	show debugging	Show running system information	debugging information		
52	show dos	Show running system information	Dos information		
53	show dos interfaces GigabitEthernet <1-16, WAN>	Show running system information	Dos information	Interface status and configuration	Gigabit ethernet interface to configure
54	show dos interfaces LAG <1-8>	Show running system information	Dos information	Interface status and configuration	IEEE 802.3 Link Aggregate interface
55	show dot1x	Show running system information	802.1x configuration		
56	show dot1x ( auth-hosts   guest-vlan )	Show running system information	802.1x configuration	authenticated hosts	Guest VLAN configuration

行NO.	token 4 (Description)	token 5 (Description)	token 6 (Description)	token 7 (Description)	token 8 (Description)
28	Current day in the month. Current year.				
29	Copy from tftp: file system				
30					
31	Copy to tftp: file system.				
32					
33					
34					
35					
36					
37					
38					
39					
40					
41					
42					
43					
44					
45					
46	Auth Method List				
47					
48					
49	GigabitEthernet device number				
50					
51					
52					
53	GigabitEthernet device number				
54	LAG interface number				
55					
56					

行NO.	Command	Command (Description)	token 1 (Description)	token 2 (Description)	token 3 (Description)
57	show dot1x interfaces GigabitEthernet <1-16,WAN>	Show running system information	802.1x configuration	Interface status and configuration	Gigabit ethernet interface to configure
58	show errdisable recovery	Show running system information	error disable. Recovery from error disable.		
59	show flash	Show running system information	Flash operations		
60	show gvrp	Show running system information	GVRP configuration		
61	show gvrp configuration (interfaces GigabitEthernet <1-16,WAN>)	Show running system information	GVRP configuration	GVRP configuration	Interface status and configuration
62	show gvrp error-statistics (interfaces GigabitEthernet <1-16,WAN>)	Show running system information	GVRP configuration	GVRP Error statistics	Interface status and configuration
63	show gvrp statistics (interfaces GigabitEthernet <1-16,WAN>)	Show running system information	GVRP configuration	GVRP statistics	Interface status and configuration
64	show gvrp interfaces GigabitEthernet <1-16,WAN>	Show running system information	GVRP configuration	Interface status and configuration	Gigabit ethernet interface to configure
65	show gvrp interfaces LAG <1-8>	Show running system information	GVRP configuration	Interface status and configuration	IEEE 802.3 Link Aggregateion interface
66	show history	Show running system information	list the last several history commands		
67	show info	Show running system information	Basic information		
68	show interface GigabitEthernet <1-16,WAN>	Show running system information	Interface status and configuration	Gigabit ethernet interface to configure	GigabitEthernet device number
69	show interface LAG <1-8>	Show running system information	Interface status and configuration	IEEE802.3 Link Aggregateion interface	LAG interface number
70	show interfaces switchport GigabitEthernet <1-16,WAN>	Show running system information	Interface status and configuration	Set switching mode characteristics	Gigabit ethernet interface to configure
71	show interfaces switchport LAG <1-8>	Show running system information	Interface status and configuration	Set switching mode characteristics.	IEEE802.3 Link Aggregateion interface.
72	show ip	Show running system information	IP configuration		
73	show ip (http   https)	Show running system information	IP configuration	HTTP/HTTPS configuration	
74	show ip arp inspection	Show running system information	IP configuration	ARP configuration	ARP Inspection information
75	show ip dhcp	Show running system information	IP configuration	DHCP configuration	
76	show ip dhcp snooping	Show running system information	IP configuration	DHCP configuration	Snooping information
77	show ip dhcp snooping binding	Show running system information	IP configuration	DHCP configuration	Snooping information
78	show ip dhcp snooping database	Show running system information	IP configuration	DHCP configuration	Snooping information
79	show ip dhcp snooping option remote-id	Show running system information	IP configuration	DHCP configuration	Snooping information
80	show ip dhcp snooping interfaces GigabitEthernet <1-16,WAN>	Show running system information	IP configuration	DHCP configuration	Snooping information
81	show ip dhcp snooping interfaces LAG <1-8>	Show running system information	IP configuration	DHCP configuration	Snooping information
82	show ip dns	Show running system information	IP configuration	Domain name server	
83	show ip igmp filter (interfaces GigabitEthernet <1-16,WAN>)	Show running system information	IP configuration	IGMP Configuration	IGMP port filter
84	show ip igmp filter (interfaces LAG <1-8>)	Show running system information	IP configuration	IGMP Configuration	IGMP port filter
85	show ip igmp max-group (interfaces GigabitEthernet <1-16,WAN>)	Show running system information	IP configuration	IGMP Configuration	IGMP port group limit num
86	show ip igmp max-group action (interfaces GigabitEthernet <1-16,WAN>)	Show running system information	IP configuration	IGMP Configuration	IGMP excess max groups action
87	show ip igmp profile (<1-128>)	Show running system information	IP configuration	IGMP Configuration	IGMP profile configuration.
88	show ip igmp snooping	Show running system information	IP configuration	IGMP Configuration	IGMP Snooping information

行NO.	token 4 [Description]	token 5 [Description]	token 6 [Description]	token 7 [Description]	token 8 [Description]
57	GigabitEthernet device number				
58					
59					
60					
61	Gigabit ethernet interface to configure	GigabitEthernet device number			
62	Gigabit ethernet interface to configure	GigabitEthernet device number			
63	Gigabit ethernet interface to configure	GigabitEthernet device number			
64	GigabitEthernet device number				
65	LAG interface number				
66					
67					
68					
69					
70	GigabitEthernet device number				
71	LAG interface number				
72					
73					
74					
75					
76					
77	binding entry				
78	DHCP snooping database agent				
79	DHCP-Option82 configuration	String of remote ID			
80	Interface status and configuration	Gigabit ethernet interface to configure		GigabitEthernet device number	
81	Interface status and configuration	IEEE802.3 Link Aggregateion interface		LAG interface number	
82					
83	Interface status and configuration	Gigabit ethernet interface to configure		GigabitEthernet device number	
84	Interface status and configuration	IEEE802.3 Link Aggregateion interface		LAG interface number	
85					
86					
87	IGMP profile index				
88					



行NO.	Command	Command [Description]	token 1 [Description]	token 2 [Description]	token 3 [Description]
89	show ip igmp snooping forward-all (vlan VLAN-LIST)	Show running system information	IP configuration	IGMP Configuration	IGMP Snooping information
90	show ip igmp snooping groups (dynamic   static)	Show running system information	IP configuration	IGMP Configuration	IGMP Snooping information
91	show ip igmp snooping groups counters	Show running system information	IP configuration	IGMP Configuration	IGMP Snooping information
92	show ip igmp snooping mac-address	Show running system information	IP configuration	IGMP Configuration	IGMP Snooping information
93	show ip igmp snooping querier	Show running system information	IP configuration	IGMP Configuration	IGMP Snooping information
94	show ip igmp snooping router (dynamic   forbidden   static)	Show running system information	IP configuration	IGMP Configuration	IGMP Snooping information
95	show ip igmp snooping vlan (VLAN-LIST)	Show running system information	IP configuration	IGMP Configuration	IGMP Snooping information
96	show ip source binding (dynamic   static)	Show running system information	IP configuration	IP source Guard configuration.	Dynamic binding entry.
97	show ip source interfaces GigabitEthernet <1-16,WAN>	Show running system information	IP configuration	IP source Guard configuration	Interface status and configuration
98	show ip source interfaces LAG <1-8>	Show running system information	IP configuration	IP source Guard configuration	Interface status and configuration
99	show ipv6	Show running system information	IPv6 Configuration		
100	show ipv6 dhcp	Show running system information	IPv6 Configuration	DHCPv6 client status.	
101	show ipv6 mld filter (interfaces GigabitEthernet <1-16,WAN>)	Show running system information	IPv6 Configuration	MLD Configuration	IPv6 interface filter
102	show ipv6 mld filter (interfaces LAG <1-8>)	Show running system information	IPv6 Configuration	MLD Configuration	IPv6 interface filter
103	show ipv6 mld max-group (interfaces GigabitEthernet <1-17>)	Show running system information	IPv6 Configuration	MLD Configuration	MLD Interface max groups
104	show ipv6 mld max-group (interfaces LAG <1-8>)	Show running system information	IPv6 Configuration	MLD Configuration	MLD Interface max groups
105	show ipv6 mld max-group action (interfaces GigabitEthernet <1-16,WAN>)	Show running system information	IPv6 Configuration	MLD Configuration	MLD Interface max groups.
106	show ipv6 mld max-group action (interfaces LAG <1-8>)	Show running system information	IPv6 Configuration	MLD Configuration	MLD Interface max groups.
107	show ipv6 mld profile [<1-128>]	Show running system information	IPv6 Configuration	MLD Configuration	MLD profile configuration.
108	show ipv6 mld snooping	Show running system information	IPv6 Configuration	MLD Configuration	MLD snooping configuration.
109	show ipv6 mld snooping forward-all (vlan VLAN-LIST)	Show running system information	IPv6 Configuration	MLD Configuration	MLD snooping configuration.
110	show ipv6 mld snooping groups (counters   dynamic   static)	Show running system information	IPv6 Configuration	MLD Configuration	MLD snooping configuration.
111	show ipv6 mld snooping mac-address	Show running system information	IPv6 Configuration	MLD Configuration	MLD snooping configuration.
112	show ipv6 mld snooping router (dynamic   forbidden   static)	Show running system information	IPv6 Configuration	MLD Configuration	MLD snooping configuration.
113	show ipv6 mld snooping vlan [VLAN-LIST]	Show running system information	IPv6 Configuration	MLD Configuration	MLD snooping configuration.
114	show lacp (<1-8>) counters	Show running system information	LACP Configuration	Traffic information	
115	show lacp (<1-8>) internal	Show running system information	LACP Configuration	Internal information	
116	show lacp (<1-8>) internal detail	Show running system information	LACP Configuration	Internal information.	VLAN configuration.
117	show lacp (<1-8>) neighbor	Show running system information	LACP Configuration	Neighbor information	
118	show lacp (<1-8>) neighbor detail	Show running system information	LACP Configuration	Neighbor information.	Detailed neighbor information
119	show lag	Show running system information	Link Aggregation Group Configuration		
120	show line ( console   lists   telnet)	Show running system information	To identify a specific line for configuration	Access CLI from console	Auth Method List

行NO.	token 4 [Description]	token 5 [Description]	token 6 [Description]	token 7 [Description]	token 8 [Description]
89	IPv4 forward all				
90	IPv4 Dynamic groups	Static groups			
91	ipv4 group total entries				
92	IPv4 multicast mac				
93	Querier information				
94	ipv4 multicast routers.	dynamic routers.	forbidded routers.		static routers.
95	VLAN configuration				
96	Static binding entry.				
97	Gigabit ethernet interface to configure	GigabitEthernet device number			
98	IEEE802.3 Link Aggregateion interface	LAG interface number			
99					
100					
101	Interface status and configuration	Gigabit ethernet interface to configure	GigabitEthernet device number		
102	Interface status and configuration	IEEE802.3 Link Aggregateion interface	LAG interface number		
103	Interface status and configuration	Gigabit ethernet interface to configure	GigabitEthernet device number		
104	Interface status and configuration	IEEE802.3 Link Aggregateion interface	LAG interface number		
105	MLD excess max groups action	Interface status and configuration	Gigabit ethernet interface to configure	GigabitEthernet device number	
106	MLD excess max groups action	Interface status and configuration	IEEE802.3 Link Aggregateion interface	LAG interface number	
107	MLD profile index				
108					
109	IPv6 forward all				
110	Ipv6 group total entries.	dynamic groups.	static groups		
111	Ipv6 multicast mac				
112	dynamic routers.	forbidded routers.	static routers.		
113	VLAN configuration.				
114					
115					
116					
117					
118					
119					
120	Access CLI from telnet				

行NO.	Command	Command [Description]	token 1 [Description]	token 2 [Description]	token 3 [Description]
121	show logging	Show running system information	Log configuration		
122	show logging ( buffered   file)	Show running system information	Log configuration	Buffered logging. File logging.	
123	show mac address-table (vlan <1-4094>) (interfaces GigabitEthernet <1-16,WAN>)	Show running system information	MAC configuration	MAC address table configuration	
124	show mac address-table (vlan <1-4094>) (interfaces LAG <1-8>)	Show running system information	MAC configuration	MAC address table configuration	
125	show mac address-table aging-time	Show running system information	MAC configuration	MAC address table configuration	aging time of the address table
126	show mac address-table counters	Show running system information	MAC configuration	MAC address table configuration	total entries
127	show mac address-table dynamic (vlan <1-4094>) (interfaces GigabitEthernet <1-16,WAN>)	Show running system information	MAC configuration	MAC address table configuration	Dynamic entries
128	show mac address-table static (vlan <1-4094>) (interfaces GigabitEthernet <1-16,WAN>)	Show running system information	MAC configuration	MAC address table configuration	Static entries
129	show mac address-table A:B:C:D:E:F vlan <1-4094>	Show running system information	MAC configuration	MAC address table configuration	MAC address xx:xx:xx:xx:xx:xx
130	show mac address-table interfaces GigabitEthernet <1-16,WAN>	Show running system information	MAC configuration	MAC address table configuration	Interface status and configuration
131	show mac address-table interfaces LAG <1-8>	Show running system information	MAC configuration	MAC address table configuration	Interface status and configuration
132	show mac address-table vlan <1-4094>	Show running system information	MAC configuration	MAC address table configuration	VLAN configuration
133	show management-vlan	Show running system information	Management VLAN configuration		
134	show mirror	Show running system information	Mirror configuration		
135	show mirror session <1-4>	Show running system information	Mirror session configuration		
136	show port-security	Show running system information	Port security		
137	show port-security (interfaces GigabitEthernet <1-16,WAN>)	Show running system information	Port security	Interface status and configuration	Gigabit ethernet interface to configure
138	show port-security (interfaces LAG <1-8>)	Show running system information	Port security	Interface status and configuration	IEEE802.3 Link Aggregateion interface
139	show privilege	Show running system information	Local user privilege level		
140	show qos	Show running system information	Enable/Disable QoS on the device and enter the QoS mode (advance/basic)		
141	show qos map (cos-queue   dscp-queue   precedence-queue   queue-cos   queue-dscp   queue-precedence)	Show running system information	Enable/Disable QoS on the device and enter the QoS mode (advance/basic)	CoS to Queue mapping.	DSCP to Queue mapping.
142	show qos queueing	Show running system information	Enable/Disable QoS on the device and enter the QoS mode (advance/basic)	Display quality of service(QoS) queuing information	
143	show qos interfaces GigabitEthernet <1-16,WAN>	Show running system information	Enable/Disable QoS on the device and enter the QoS mode (advance/basic)	Interface status and configuration	Gigabit ethernet interface to configure
144	show qos interfaces LAG <1-8>	Show running system information	Enable/Disable QoS on the device and enter the QoS mode (advance/basic)	Interface status and configuration	IEEE802.3 Link Aggregateion interface
145	show radius	Show running system information	RADIUS server information		
146	show radius default-config	Show running system information	RADIUS server default configuration		
147	show rmon alarm [<1-65535>   all ]	Show running system information	RMON information.	RMON alarm.	index of event.
148	show rmon event [<1-65535>   all ]	Show running system information	RMON information.	RMON event.	index of event.

行NO.	token 4 [Description]	token 5 [Description]	token 6 [Description]	token 7 [Description]	token 8 [Description]
121					
122					
123					
124					
125					
126					
127	Interface status and configuration	Gigabit ethernet interface to configure	GigabitEthernet device number		
128	Interface status and configuration	IEEE802.3 Link Aggregateion interface	LAG interface number		
129					
130	Gigabit ethernet interface to configure	GigabitEthernet device number			
131	IEEE802.3 Link Aggregateion interface	LAG interface number			
132	VLAN ID (e.g. 100)				
133					
134					
135					
136					
137	GigabitEthernet device number				
138	LAG interface number				
139					
140					
141	IP Precedence to Queue mapping.	Queue to CoS mapping.	Queue to DSCP mapping.	Queue to IP Precedence mapping.	
142					
143	GigabitEthernet device number				
144	LAG interface number				
145					
146					
147	all alarm.				
148	all alarm.				

行NO.	Command	Command [Description]	token 1 [Description]	token 2 [Description]	token 3 [Description]
149	show rmon event <1-65535> log	Show running system information	RMON information.	index of event.	log information.
150	show rmon history [<1-65535>   all ]	Show running system information	RMON information.	RMON history.	index of event.
151	show rmon history <1-65535> statistic	Show running system information	RMON information.	RMON history.	index of history.
152	show rmon interfaces GigabitEthernet <1-16,WAN>	Show running system information	RMON information.	Interface status and configuration	Gigabit ethernet interface to configure
153	show rmon interfaces LAG <1-8>	Show running system information	RMON information.	Interface status and configuration	IEEE802.3 Link Aggregateion interface
154	show running-config	Show running system information	Running configuration		
155	show snmp	Show running system information	SNMP information		
156	show snmp community	Show running system information	SNMP information	Display SNMP community entries	
157	show snmp engineid	Show running system information	SNMP information	Display snmp engine id	
158	show snmp group	Show running system information	SNMP information	Display SNMP access group entries	
159	show snmp host	Show running system information	SNMP information	Display all trap host entry	
160	show snmp trap	Show running system information	SNMP information	Display snmp class of trap enable or disable	
161	show snmp user	Show running system information	SNMP information	Show snmp user	
162	show snmp view	Show running system information	SNMP information	Display SNMP view entries	
163	show snmp	Show running system information	Simple Network Time Protocol (SNTP) information.		
164	show spanning-tree	Show running system information	Displays spanning-tree information		
165	show spanning-tree mst <0-15>	Show running system information	Displays spanning-tree information	Multiple spanning trees.	Instance ID (0~15).
166	show spanning-tree mst configuration	Show running system information	Displays spanning-tree information	Multiple spanning trees.	MST current region configuration.
167	show spanning-tree interfaces GigabitEthernet <1-16,WAN>	Show running system information	Displays spanning-tree information	Interface status and configuration	Gigabit ethernet interface to configure
168	show spanning-tree interfaces LAG <1-8>	Show running system information	Displays spanning-tree information	Interface status and configuration	IEEE802.3 Link Aggregateion interface
169	show storm-control	Show running system information	Storm-control configuration		
170	show username	Show running system information	Local User		
171	show users	Show running system information	Display information about users		
172	show version	Show running system information	System hardware and software status		
173	show vlan (default-vlan   dynamic   protocol-vlan   static)	Show running system information	VLAN configuration	Default VLAN Configuration.	Display dynamic entries.
174	show vlan protocol-vlan (group <1-8>)	Show running system information	VLAN configuration	Protocol group.	Group index
175	show vlan protocol-vlan (interfaces GigabitEthernet <1-16,WAN>)	Show running system information	VLAN configuration	Protocol group.	Interface status and configuration
176	show vlan protocol-vlan (interfaces LAG <1-8>)	Show running system information	VLAN configuration	Protocol group.	Interface status and configuration
177	ssl	Setup SSL host keys			

行NO.	token 4 (Description)	token 5 (Description)	token 6 (Description)	token 7 (Description)	token 8 (Description)
149					
150	all alarm.				
151	statistic table.				
152	GigabitEthernet device number				
153	LAG interface number				
154					
155					
156					
157					
158					
159					
160					
161					
162					
163					
164					
165					
166					
167	GigabitEthernet device number				
168	LAG interface number				
169					
170					
171					
172					
173	802.1v protocol VLAN configuration.	Display static entries.			
174					
175	Gigabit ethernet interface to configure	GigabitEthernet device number			
176	IEEE802.3 Link Aggregate interface	LAG interface number			
177					

## 4.2 Config mode

### Command Semantic

command [token 1] [token 2] ...

[ ] must input ( ) optional input

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行NO.	Command	Command [Description]	token 1 [Description]	token 2 [Description]
1	Configure	Configuration Mode		
2	(no) aaa authentication login [default   LISTNAME] (METHODLIST) (METHODLIST) (METHODLIST)	AAA (Authentication, Authorization, Accounting)	Authentication	Login Authentication
3	(no) aaa authentication enable [default   LISTNAME] (METHODLIST) (METHODLIST) (METHODLIST)	AAA (Authentication, Authorization, Accounting)	Authentication	Enable Authentication
4	boot system [image0   image1]	Booting Operations	Run time firmware image	Runtime image 0, Runtime image 1
5	(no) clock timezone ACRONYM HOUR-OFFSET (minutes <0-59>)	Manage the system clock,	set the time zone for display purposes,	The acronym of the time zone (1-4 chars),
6	clock source [local   sntp]	Manage the system clock,	Configure an external time source for the system clock	Local
7	clock summer-time ACRONYM date (jan   feb   mar   apr   may   jun   jul   aug   sep   oct   nov   dec) <1-31> <2000-2037> HH:MM (jan   feb   mar   apr   may   jun   jul   aug   sep   oct   nov   dec) <1-31> <2000-2037> HH:MM [<1-1440>]	Manage the system clock,	Configure the system to automatically switch to summer time (daylight saving time)	
8	no clock summer-time	Negate command	Manage the system clock,	Configure the system to automatically switch to summer time (daylight saving time)
9	(no) dos [daeqsa-deny   icmp-frag-pkts-deny   icmpv4-ping-max-check   icmpv6-ping-max-check   ipv6-min-frag-size-check   ipv6-min-frag-size-length   land-deny   nullscan-deny   pod-deny   smurf-deny   smurf-netmask   syn-sport1024-deny   synfin-deny   synrst-deny   tcp-frag-off-min-check   tcpblat-deny   tcphdr-min-check   tcphdr-min-length   udpblat-deny   xma-deny ]	Dos information	TCP fragment packet with offset equals to one.	SYNC and RST bits set in the packet.
10	(no) dot1x	802.1x configuration		
11	(no) dot1x guest-vlan <1-4094>	802.1x configuration	Guest VLAN configuration	
12	do SEQUENCE	To run exec commands in current mode	Exec Command	
13	(no) enable [password   secret] PASSWORD	Local Enable Password	Use clear text password	use encrypted password
14	(no) enable [privilege <0-15>] (password   secret) PASSWORD	Local Enable Password	Local user privilege level	
15	end	End current mode and change to enable mode		
16	(no) errdisable recovery cause (all   acl   arp-inspection   broadcast-flood   bpduguard   dhcp-rate-limit   psecure-violation   unicast-flood   unknown-multicast-flood   selfloop)	Error Disable	Recovery from error disable	Error Disabled caused reason
		NO.16 token 9 [Description] 以降→→	Enable timer to recover from unicast flood causes	Enable timer to recover from unknown multicast flood cause
17	(no) errdisable recovery interval <0-86400>	Error Disable	Recovery from error disable	Recovery interval
18	exit	Exit current mode and down to previous mode		
19	(no) gvrp	GVRP Configuration		
20	(no) gvrp timer (join   leave   leaveall ) <10-32765>	GVRP Configuration	GVRP timer setting, 1cs is equal to 10ms	Join timer, Valid range is 20-16375cs,
21	hostname WORD	Set system's network name	This system's network name	

行NO.	token 3 [Description]	token 4 [Description]	token 5 [Description]	token 6 [Description]	token 7 [Description]	token 8 [Description]	token 9 [Description]
1							
2	Default Auth Method List. Auth Method List Name	Login Authentication Method (none, local, enable, radius)					
3	Default Auth Method List. Auth Method List Name	Enable Authentication Method(none, enable, radius)					
4							
5	<-12-13> Hours difference from UTC	Minutes difference from UTC					
6	SNTP Server						
7							
8							
9	SYN and FIN bits set in the packet.	Xmascan: sequence number is zero and the FIN,	URG and PSH bits are set.	NULL Scan Attacks.	SYN packets with sport less than 1024.	Check minimum TCP header.	Smurf Attacks
10							
11							
12							
13							
14							
15							
16	Enable timer to recover from all causes  Enable timer to recover from selfloop causes	Enable timer to recover from acl causes	Enable timer to recover from arp rate limit causes	Enable timer to recover from broadcast flood causes	Enable timer to recover from bpd guard causes	Enable timer to recover from dhcp rate limit causes	Enable timer to recover from port security causes
17							
18							
19							
20	Leave timer, Valid range is 45- 32760cs	Leave all timer, Valid range is 65- 32765cs,	Timer valid range is 5-10000cs, must device by 5.				
21							



行NO.	Command	Command [Description]	token 1 [Description]	token 2 [Description]
22	interface GigabitEthernet <1-16,WAN>	Select an interface to configure	Gigabit ethernet interface to configure	
23	interface LAG <1-8>	Select an interface to configure	IEEE802.3 Link Aggregateion interface	
24	interface range GigabitEthernet <1-16,WAN>	Select an interface to configure	Gigabi interface range command	
25	interface range LAG <1-8>	Select an interface to configure	IEEE802.3 Link Aggregateion interface range command	
26	(no) ip address A.B.C.D (mask A.B.C.D)	IP configuration	IPv4 Address	
27	(no) ip arp inspection	IP configuration	ARP configuration	ARP inspection information
28	(no) ip arp inspection vlan VLAN-LIST	IP configuration	ARP configuration	ARP inspection information VLAN
29	(no) ip default-gateway A.B.C.D	IP configuration	Set default gateway IP address	Default gateway IP address
30	(no) ip dhcp	IP configuration	DHCP configuration	
31	(no) ip dhcp snooping	IP configuration	DHCP configuration	Snooping information
32	(no) ip dhcp snooping vlan VLAN-LIST	IP configuration	DHCP configuration	Snooping information
33	(no) ip dhcp snooping option remote-id STRING	IP configuration	DHCP configuration	
34	(no) ip dhcp snooping database flash	IP configuration	DHCP configuration	
35	(no) ip dhcp snooping database tftp (A.B.C.D HOSTNAME) NAME	IP configuration	DHCP configuration	
36	(no) ip dhcp snooping database timeout <0-86400>	IP configuration	DHCP configuration	
37	(no) ip dhcp snooping database write-delay <15-86400>	IP configuration	DHCP configuration	
38	(no) ip dns A.B.C.D (A.B.C.D)	IP configuration	Domin Name Server	DNS server address 1
39	(no) ip http	IP configuration	HTTP server configuration	
40	(no) ip (http   https) login authentication LISTNAME	IP configuration	HTTP server configuration	HTTPS server configuration
41	(no) ip (http   https) session-timeout <0-86400>	IP configuration	HTTP server configuration	HTTPS server configuration
42	(no) ip igmp profile <1-128>	IP configuration	IGMP configuration	IGMP profile
43	(no) ip igmp snooping	IP configuration	IGMP configuration	IGMP Snooping Configuration
44	(no) ip igmp snooping report-suppression	IP configuration	IGMP configuration	IGMP Snooping Configuration
45	(no) ip igmp snooping forward-method [mac   src-dst-ip]	IP configuration	IGMP configuration	IGMP Snooping Configuration
46	(no) ip igmp snooping report-suppression	IP configuration	IGMP configuration	IGMP Snooping Configuration
47	(no) ip igmp snooping unknown-multicast action [drop   flood   router-port]	IP configuration	IGMP configuration	IGMP Snooping Configuration
48	(no) ip igmp snooping version ( 2   3 )	IP configuration	IGMP configuration	IGMP Snooping Configuration
49	(no) ip igmp snooping vlan VLAN-LIST fastleave	IP configuration	IGMP configuration	IGMP Snooping Configuration
50	(no) ip igmp snooping vlan VLAN-LIST forbidden-router-port IF_PORTS	IP configuration	IGMP configuration	IGMP Snooping Configuration
51	(no) ip igmp snooping vlan VLAN-LIST forbidden-port IF_PORTS	IP configuration	IGMP configuration	IGMP Snooping Configuration
52	(no) ip igmp snooping vlan VLAN-LIST last-member-query-count <1-7>	IP configuration	IGMP configuration	IGMP Snooping Configuration
53	(no) ip igmp snooping vlan VLAN-LIST last-member-query-interval <1-25>	IP configuration	IGMP configuration	IGMP Snooping Configuration

行NO.	token 3 [Description]	token 4 [Description]	token 5 [Description]	token 6 [Description]	token 7 [Description]	token 8 [Description]	token 9 [Description]
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32	VLAN configuration						
33							
34							
35							
36							
37							
38	DNS server address 2						
39							
40	Login Authentication	Authentication	Auth Method List Name				
41	Session timeout configuration	Timeout after specified minutes (0 means no timeout)					
42							
43							
44	IGMP v1/v2 report suppression						
45	Forward method	Source and destination IP					
46	IGMP v1/v2 report suppression						
47	Unknown multicast	Action on receiving unknown multicast packets	Drop the packets. Flood the packets. Forward to router ports.				
48	IGMP Operation Version is v2, IGMP Operation Version is v3						
49	VLAN configuration	VLAN List (e.g. 3,6- 8): The range of VLAN ID is 1 to 4094	IGMP snooping fastleave function				
50	VLAN configuration	VLAN List (e.g. 3,6- 8): The range of VLAN ID is 1 to 4094	Forbidden mrouter port configuration				
51	VLAN configuration	VLAN List (e.g. 3,6- 8): The range of VLAN ID is 1 to 4094	IPv4 forbidden port configuration				
52	VLAN configuration	VLAN List (e.g. 3,6- 8): The range of VLAN ID is 1 to 4094	Last Member Query Count	Valid range is 1-7 Sec. Default is 2.			
53	VLAN configuration	VLAN List (e.g. 3,6- 8): The range of VLAN ID is 1 to 4094	Last Member Query Interval	Valid range is 1-25 Sec. Default is 1 Sec.			

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行NO.	Command	Command [Description]	token 1 [Description]	token 2 [Description]
54	(no) ip igmp snooping vlan VLAN-LIST querier (version [2][3])	<a href="#">IP configuration</a>	IGMP configuration	<a href="#">IGMP Snooping Configuration</a>
55	(no) ip igmp snooping vlan VLAN-LIST query-interval <30-18000>	<a href="#">IP configuration</a>	IGMP configuration	<a href="#">IGMP Snooping Configuration</a>
56	(no) ip igmp snooping vlan VLAN-LIST response-time <5-20>	<a href="#">IP configuration</a>	IGMP configuration	<a href="#">IGMP Snooping Configuration</a>
57	(no) ip igmp snooping vlan VLAN-LIST robustness-variable <1-7>	<a href="#">IP configuration</a>	IGMP configuration	<a href="#">IGMP Snooping Configuration</a>
58	(no) ip igmp snooping vlan VLAN-LIST router learn pim-dvmrp	<a href="#">IP configuration</a>	IGMP configuration	<a href="#">IGMP Snooping Configuration</a>
59	(no) ip igmp snooping vlan VLAN-LIST static-group A.B.C.D interfaces IF_PORTS	<a href="#">IP configuration</a>	IGMP configuration	<a href="#">IGMP Snooping Configuration</a>
60	(no) ip igmp snooping vlan VLAN-LIST static-mac A:B:C:D:E:F interface IF_PORT	<a href="#">IP configuration</a>	IGMP configuration	<a href="#">IGMP Snooping Configuration</a>
61	(no) ip igmp snooping vlan VLAN-LIST static-port IF_PORTS	<a href="#">IP configuration</a>	IGMP configuration	<a href="#">IGMP Snooping Configuration</a>
62	(no) ip igmp snooping vlan VLAN-LIST static-router-port IF_PORTS	<a href="#">IP configuration</a>	IGMP configuration	<a href="#">IGMP Snooping Configuration</a>
63	(no) ip source binding A:B:C:D:E:F vlan <1-4094> A.B.C.D interface IF_PORT	<a href="#">IP configuration</a>	IP Source Guard Configuration	<a href="#">IP Source Guard Binding Table</a>
64	(no) ip source binding vlan <1-4094> A.B.C.D A.B.C.D interface IF_PORT	<a href="#">IP configuration</a>	IP Source Guard Configuration	<a href="#">IP Source Guard Binding Table</a>
65	(no) ip source telnet	<a href="#">IP configuration</a>	IP Source Guard Configuration	<a href="#">Telnet daemon configuration</a>
66	(no) ipv6 address X:X::X:X prefix <0-128>	<a href="#">IPv6 information</a>	Set IPv6 address and prefix	
67	(no) ipv6 autoconfig	<a href="#">IPv6 information</a>	Enable IPv6 auto-configuration	
68	(no) ipv6 default-gateway X:X::X:X	<a href="#">IPv6 information</a>	Set IPv6 gateway	
69	(no) ipv6 dhcp	<a href="#">IPv6 information</a>	Set IPv6 DHCP Client	
70	(no) ipv6 mld profile <1-128>	<a href="#">IPv6 information</a>	MLD Configuration	<a href="#">MLD profile</a>
71	(no) ipv6 mld snooping	<a href="#">IPv6 information</a>	MLD Configuration	<a href="#">MLD Snooping Configuration</a>
72	(no) ipv6 mld snooping forward-method [mac   src-dst-ip]	<a href="#">IPv6 information</a>	MLD Configuration	<a href="#">MLD Snooping Configuration</a>
73	(no) ipv6 mld snooping report-suppression	<a href="#">IPv6 information</a>	MLD Configuration	<a href="#">MLD Snooping Configuration</a>
74	(no) ipv6 mld snooping version (1   2)	<a href="#">IPv6 information</a>	MLD Configuration	<a href="#">MLD Snooping Configuration</a>
75	(no) jumbo-frame <1518-9216>	<a href="#">Jumbo Frame configuration</a>	Maximum frame size	
76	(no) lacp system-priority <1-65535>	<a href="#">LACP configuration</a>	LACP system priority	
77	(no) lag load-balance [src-dst-mac   src-dst-mac-ip]	<a href="#">Link Aggregation Group Configuration</a>	LAG load balancing is based on source and destination MAC address.	<a href="#">LAG load balancing is based on source and destination of MAC and IP addresses.</a>
78	line [console   ssh   telnet]	<a href="#">To identify a specific line for configuration</a>	Console terminal line	<a href="#">Virtual terminal for secured remote console access (SSH)</a>
79	(no) logging	<a href="#">Log Configuration</a>		

行NO.	token 3 [Description]	token 4 [Description]	token 5 [Description]	token 6 [Description]	token 7 [Description]	token 8 [Description]	token 9 [Description]
54	VLAN configuration	VLAN List (e.g. 3,6-8): The range of VLAN ID is 1 to 4094	IGMP snooping querier function	Querier Version configuration	veriosn2, version3		
55	VLAN configuration	VLAN List (e.g. 3,6-8): The range of VLAN ID is 1 to 4094	Query Interval	Valid range is 30-18000 Sec. Default is 125 Sec.			
56	VLAN configuration	VLAN List (e.g. 3,6-8): The range of VLAN ID is 1 to 4094	Response Time	Valid range is 5-20 Sec. Default is 10 Sec.			
57	VLAN configuration	VLAN List (e.g. 3,6-8): The range of VLAN ID is 1 to 4094	Robustness Variable	Valid range is 1-7. Default is 2.			
58	VLAN configuration	VLAN List (e.g. 3,6-8): The range of VLAN ID is 1 to 4094	IGMP snooping router	IGMP snooping router port learn by pim,dvmrp and IGMP messages			
59	VLAN configuration	VLAN List (e.g. 3,6-8): The range of VLAN ID is 1 to 4094	Static group configuration	IPV4 multicast address			
60	VLAN configuration	VLAN List (e.g. 3,6-8): The range of VLAN ID is 1 to 4094	Static ipv4 multicast mac configuration	IPv4 multicast address 01:00:5e:xx:xx:xx			
61	VLAN configuration	VLAN List (e.g. 3,6-8): The range of VLAN ID is 1 to 4094	IPv4 static port configuration				
62	VLAN configuration	VLAN List (e.g. 3,6-8): The range of VLAN ID is 1 to 4094	Static mrouter port configuration				
63	MAC address xx:xx:xx:xx:xx:xx	VLAN configuration	VLAN ID (e.g. 100)	IP address			
64	VLAN configuration	VLAN ID (e.g. 100)	IP address	Netmask of IP address			
65							
66							
67							
68							
69							
70	Profile index						
71							
72	IPv6 Forward method	MAC method, Source and destination IP (low 32 bit)					
73	MLD v1 report suppression						
74	MLD Snooping Operation Version						
75							
76							
77							
78	Virtual terminal for remote console access (Telnet)						
79							

行NO.	Command	Command [Description]	token 1 [Description]	token 2 [Description]
80	(no) mac address-table aging-time <10-630>	MAC configuration	aging time of the address table,	Aging-time range in seconds indicating how long an entry remain in mac address table
81	(no) mac address-table static A:B:C:D:E:F vlan <1-4094> interfaces IF_PORTS	MAC configuration	MAC address xx:xx:xx:xx:xx:xx	
82	(no) management-vlan vlan <1-4094>	Management VLAN configuration	VLAN configuration	
83	(no) mirror session <1-4> source interfaces IF_PORTS [both   rx   tx]	Mirror configuration	Mirror Session configuration	Mirror Source configuration,
84	(no) mirror session <1-4> destination interface IF_NMLPORT [allow-ingress]	Mirror configuration	Mirror Session configuration	Mirror destination configuration,
85	(no) port-security	Port security		
86	(no) qos	Enable/Disable QoS on the device and enter the QoS mode(advance/basic)		
87	(no) qos map cos-queue SEQUENCE to <1-8>	Enable/Disable QoS on the device and enter the QoS mode(advance/basic)	Configure the QoS maps	Map assigned CoS values to select an egress queue. Use the command no form to return to the default values.
88	(no) qos map dscp-queue SEQUENCE to <1-8>	Enable/Disable QoS on the device and enter the QoS mode(advance/basic)	Configure the QoS maps	Modify the DSCP to queue map.
89	(no) qos map precedence-queue SEQUENCE to <1-8>	Enable/Disable QoS on the device and enter the QoS mode(advance/basic)	Configure the QoS maps	Modify the IP Precedence to queue map.
90	(no) qos map queue-cos SEQUENCE to <0-7>	Enable/Disable QoS on the device and enter the QoS mode(advance/basic)	Configure the QoS maps	Modify the queue to CoS map
91	(no) qos map queue-dscp SEQUENCE to <0-63>	Enable/Disable QoS on the device and enter the QoS mode(advance/basic)	Configure the QoS maps	Modify the queue to DSCP map
92	(no) qos map queue-precedence SEQUENCE to <0-7>	Enable/Disable QoS on the device and enter the QoS mode(advance/basic)	Configure the QoS maps	Modify the queue to ip precedence map
93	(no) qos queue strict-priority-num <0-8>	Enable/Disable QoS on the device and enter the QoS mode(advance/basic)	Queue configuration	Configure the number of strict priority queues
94	(no) qos queue weight SEQUENCE	Enable/Disable QoS on the device and enter the QoS mode(advance/basic)	Queue configuration	Configure weights to egress queues. Use no form to return to default values.
95	(no) qos trust [cos   cos-dscp   dscp   precedence]	Enable/Disable QoS on the device and enter the QoS mode(advance/basic)	Configure the global trust mode. Use the no form to return untrusted state.	Specify trust mode cos. Specify trust mode Cos-DSCP. Specify trust mode DSCP. Specify trust mode precedence.
96	(no) radius default-config [key RADIUSKEY] [retransmit <1-10>] [timeout <1-30>]	RADIUS server information	RADIUS server default configuration	RADIUS key
97	(no) radius host HOSTNAME [auth-port <0-65535>] [acct-port <0-65535>] [key RADIUSKEY] [priority <0-65535>] [retransmit <1-10>] [timeout <1-30>] [type (login 802.1x all)]	RADIUS server information	RADIUS server host	Host name

行NO.	token 3 [Description]	token 4 [Description]	token 5 [Description]	token 6 [Description]	token 7 [Description]	token 8 [Description]	token 9 [Description]
80							
81							
82							
83	Both	RX only	TX only				
84	ingress configuration						
85							
86							
87							
88							
89							
90							
91							
92							
93							
94							
95							
96	Radius server key	Specify the number of retransmit to active server	Time to wait for this RADIUS server to reply(default is 3)				
97	UDP port for RADIUS authentication server (default is 1812)	UDP port for RADIUS accounting server (default is 1813)	RADIUS key	Server priority	Specify the number of retransmit to active server	Time to wait for this RADIUS server to reply(default is 3)	Usage type

行NO.	Command	Command [Description]	token 1 [Description]	token 2 [Description]
98	(no) rmon alarm <1-65535> interface IF_PORT (drop-events  octets pkts  broadcast-pkts multicast-pkts crc-align-errors undersize-pkts oversize-pkts fragments jabbers collisions pkts64octets pkts65to127octets pkts128to255octets pkts256to511octets pkts512to1023octets pkts1024to1518octets) <1-2147483647> (absolute delta) rising <0-2147483647> <0-65535> falling <0-2147483647> <0-65535> startup (rising rising-falling falling) [owner NAME]	RMON information	index of alarm,	DropEvents.
		NO 98 token 9 [Description] 以降→→	Fragments.	Jabbers.
99	(no) rmon event <1-65535> [log] [trap COMMUNITY] [description DESCRIPTION] [owner NAME]	RMON information	index of event	enable log for event
100	(no) rmon history <1-65535> interface IF_PORT [buckets <1-50>] [interval <1-3600>] [owner NAME]	RMON information	index of history	the maximum number of buckets. default is 50.
101	(no) snmp	SNMP information		
102	(no) snmp community NAME (ro   rw)	SNMP information	Set community or security name string	Set community access read_only
103	(no) snmp community NAME group NAME	SNMP information	Set community or security name string	Community assign the access group
104	(no) snmp community NAME [view NAME] (ro   rw)	SNMP information	Set community or security name string	Community assign the access view
105	(no) snmp engineid (default   ENGINEID)	SNMP information	SNMP engine id setting	Set snmp engine id default.
106	(no) snmp engineid remote (A.B.C.D   X:X::X:X) ENGINEID	SNMP information	SNMP engine id setting	SNMP remote engineid engine id(10^64 hex, the hex num must be divided by 2)
107	(no) snmp group NAME version (1   2c   3) (noauth   auth   priv) read-view NAME write-view NAME [notify-view NAME]	SNMP information	Set access group string	security mode v1 .security mode v2c . security mode v3, security level noauth . security level auth . security level priv
108	(no) snmp host (A.B.C.D X:X::X:X HOSTNAME) [(traps   informs)] version 3 [(auth   noauth priv)] NAME [udp-port <1-65535>] [timeout <1-300>] [retries <1-255>]	SNMP information	Trap or inform host	Notification type is Traps.Notification type is informs, Trap or inform version, Version 3, Security level auth. Security level noauth.Security level priv
109	(no) snmp trap (auth   linkUpDown   warm-start   cold-start)	SNMP information	Snm class trap setting	Set snmp authentication failure trap.Set snmp link up and down trap.Set snmp bootup warm start-up trap.Set snmp bootup cold start-up trap.
110	(no) snmp user NAME NAME [auth (md5 sha) AUTHPASSWD]	SNMP information	Set user Settings	Authentication prototol
111	(no) snmp view NAME subtree OID oid-mask [all   MASK] viewtype [included   excluded]	SNMP information	Set view string	View subtree
112	(no) snmp host HOSTNAME [port <1-65535>]	Configure SNTP server address.	Hostname String.	Configure SNTP server port.
113	(no) spanning-tree	Spanning-tree configuration		

行NO.	token 3 [Description]	token 4 [Description]	token 5 [Description]	token 6 [Description]	token 7 [Description]	token 8 [Description]	token 9 [Description]
98	Octets.	Pkts.	BroadcastPkts.	MulticastPkts.	CRCAlignErrors.	UnderSizePkts.	OverSizePkts.
	Collision.	Pkts64Octets.	Pkts65to127Octets.	Pkts128to255Octets.	Pkts256to511Octets.	Pkts512to1023Octets.	Pkts1024to1518Octets.
99	enable trap for event	community name of trap (0~31 characters)	description of event (0~127 characters)	description of event (0~127 characters)	owner name of event (0~31 characters)	owner name of event (0~31 characters)	
100	the maximum number of buckets value	the number of seconds for each sample. default is 1800	the number of seconds value	owner name of event (0~31 characters)	owner name of event (0~31 characters)		
101							
102	set community access read_write						
103							
104							
105	Set snmp engineid engine id(10~64 hex, the hex num must be divided by 2)						
106							
107							
108							
109							
110							
111	Subtree oid mask	OID all mask	Oid mask length less than subtree OID length(eg:1110)	Subtree view type	Oid viewtype include	Oid viewtype exclude.	
112							
113							



行NO.	Command	Command [Description]	token 1 [Description]	token 2 [Description]
114	(no) spanning-tree bpdu [filtering   flooding]	Spanning-tree configuration	action for bpdu packet	bpdu packets are filtered when stp is disabled on ports
115	(no) spanning-tree forward-delay <4-30>	Spanning-tree configuration	Sets the forward-delay parameter	Forward-delay interval
116	(no) spanning-tree hello-time <1-10>	Spanning-tree configuration	Sets the hello-time parameter	specifies hello time of Spanning-tree
117	(no) spanning-tree max-hops <1-40>	Spanning-tree configuration	Sets the max-hops parameter	
118	(no) spanning-tree maximum-age <6-40>	Spanning-tree configuration	Changes the interval between messages the spanning tree receives from the root switch	Interval the switch waits between receiving BPDUs from the root switch
119	(no) spanning-tree mode [stp   rstp   mstp]	Spanning-tree configuration	Configure IEEE 802.1D Spanning Tree Protocol.	Configure IEEE 802.1W Rapid Spanning Tree Protocol.
120	(no) spanning-tree mst configuration	Spanning-tree configuration	Multiple spanning tree configuration, Enter MST configuration submode	
121	(no) spanning-tree pathcost method [long   short]	Spanning-tree configuration	Spanning tree path-cost method	pecifies that the default port path costs are within the range: 1-200,000,000.
122	(no) spanning-tree priority <0-61440>	Spanning-tree configuration	Sets the priority for specified instance	Priority (0~61440)
123	(no) spanning-tree tx-hold-count <1-10>	Spanning-tree configuration	Set spanning-tree tx hold count, in seconds	Specifies the tx hold count
124	storm-control ifg [include exclude]	Storm control configuration	Interframe configuration,	Include preamble and IFG Exclude preamble and IFG
125	storm-control unit [bps   pps]	Storm control configuration	Unit configuration,	Bits per second.
126	system contact CONTACT	System information	System contact (max length 256).	If string has blank, use ¥"¥" to quote it.
127	system location LOCATION	System information	Set host location,	Location (max length 256). If string has blank, use ¥"¥" to quote it.
128	system name NAME	System information	Set host name,	System name (max length 128). If string has blank, use ¥"¥" to quote it.
129	(no) username USERNAME [privilege (admin   user   <0-15>)] password PASSWORD	Local User	Local user name	Local user privilege level
130	(no) vlan VLAN-LIST	VLAN configuration		
131	(no) vlan protocol-vlan group <1-8> frame-type (ethernet_ii   llc_other   snap_1042) protocol-value VALUE	VLAN configuration	Protocol group	Group index,

行NO.	token 3 {Description}	token 4 {Description}	token 5 {Description}	token 6 {Description}	token 7 {Description}	token 8 {Description}	token 9 {Description}
114	bpd packets are flooded to all ports with stp disabled and flooding mode						
115							
116							
117							
118							
119	Configure IEEE 802.1S Multiple Spanning Tree Protocol						
120							
121	Specifies that the default port path costs are within the range: 1-65,535.						
122							
123							
124							
125	Packets per second.						
126							
127							
128							
129	Use clear text password						
130							
131	Frame type used by this protocol,	Ethernet II,	802.3 LLC other	, 802.3 SNAP 1042,	Protocol value,	Protocol value (0x0600-0xFFFE).	

### 4.3 Config-IF mode

#### Command Semantic

command [token 1] [token 2] ...

[ ] must input ( ) optional input

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行NO.	Command	Command [Description]	token 1 [Description]	token 2 [Description]	token 3 [Description]
1	(no) back-pressure	Enable back-pressure			
2	(no) description WORD<1-32>	Interface specific description	Up to 32 characters describing this interface		
3	disable	Shutdown the selected interface			
4	(no) dos	DoS information			
5	dot1x	802.1x configuration			
6	dot1x auto	802.1x configuration	PortState will be set to AUTO		
7	dot1x (force-auth   force-unauth)	802.1x configuration	PortState will be set to Authorized	PortState will be set to Unauthorized	
8	dot1x guest-vlan	802.1x configuration	Guest VLAN configuration		
9	dot1x max-req <1-10>	802.1x configuration	Maximum request retries	Maximum request retries (default: 2 times)	
10	dot1x reauth	802.1x configuration	Enable/Disabel Reauthentication for this port		
11	dot1x timeout quiet-period <0-65535>	802.1x configuration	802.1x timeout configuration	Quiet period	Quiet period (default: 60 seconds)
12	dot1x timeout reauth-period <30-65535>	802.1x configuration	802.1x timeout configuration	Number of seconds between re-authentication attempts	Re-authentication period (default: 3600 seconds)
13	dot1x timeout supp-timeout <1-65535>	802.1x configuration	802.1x timeout configuration	Supplicant timeout period	Supplicant timeout period (default: 30 seconds)
14	do SEQUENCE	To run exec commands in current mode	Exec Command		
15	duplex [auto   full   half]	Configure duplex operation	Enable AUTO duplex configuration	Force full duplex operation	Force half-duplex operation
16	eee	EEE configuration			
17	enable	Enable the selected interface			
18	end	End current mode and change to enable mode			
19	exit	Exit from current mode			
20	flowcontrol [auto   off   on]	Configure flow-control mode	Enable AUTO flow-control configuration	Force flow-control as disabled	Force flow-control as enabled
21	gvrp registration-mode [normal   fixed   forbidden]	GVRP configuration	GVRP registration mode setting	Normal mode	Fixed mode
22	gvrp vlan-creation-forbid	GVRP configuration	GVRP vlan creation forbid setting		
23	(no) ip arp inspection	IP configuration	ARP configuration	ARP Inspection information	
24	(no) ip arp inspection rate-limit <1-50>	IP configuration	ARP configuration	ARP Inspection information	Rate limit of arp packets
25	(no) ip arp inspection trust	IP configuration	ARP configuration	ARP Inspection information	Switch does not check ARP packets that it receives on the trust interface
26	(no) ip arp inspection validate dst-mac	IP configuration	ARP configuration	ARP Inspection information	Validate ARP packets

行NO.	token 4 [Description]	token 5 [Description]
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21 Forbidden mode

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24 Value 1-50 pps

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26 Compare the destination MAC address in the Ethernet header against the target MAC address in the ARP body

行NO.	Command	Command [Description]	token 1 [Description]	token 2 [Description]	token 3 [Description]
27	(no) ip arp inspection validate ip (allow-zeros)	<a href="#">IP configuration</a>	ARP configuration	<a href="#">ARP Inspection information</a>	Validate ARP packets
28	(no) ip arp inspection validate src-mac	<a href="#">IP configuration</a>	ARP configuration	<a href="#">ARP Inspection information</a>	Validate ARP packets
29	(no) ipv6 mld filter <1-128>	<a href="#">IPv6 information</a>	MLD Configuration	<a href="#">IPv6 filter</a>	IPv6 filter profile index
30	(no) ipv6 mld max-groups <0-256>	<a href="#">IPv6 information</a>	MLD Configuration	<a href="#">Max group number</a>	MLD snooping max group number 0~256
31	(no) ipv6 mld max-groups action [deny   replace]	<a href="#">IPv6 information</a>	MLD Configuration	<a href="#">Max group number</a>	Excess max group action
32	(no) lacp port-priority <1-65535>	<a href="#">LACP Configuration</a>	IEEE 802.3 link aggregation port priority	<a href="#">Port-priority value</a>	
33	(no) lacp timeout (long   short)	<a href="#">LACP Configuration</a>	IEEE 802.3 link aggregation port timeout	<a href="#">Long timeout value</a>	Short timeout value
34	lag <1-8> mode [active   passive   static]	<a href="#">Link Aggregation Group Configuration</a>	LAG number	<a href="#">Set LAG mode</a>	Enable LACP unconditionally
35	no back-pressure	<a href="#">Negate command</a>	Enable back-pressure		
36	no description	<a href="#">Negate command</a>	Interface specific description		
37	no dos	<a href="#">Negate command</a>	DoS information		
38	no dot1x (guest-vlan   max-req   reauth)	<a href="#">Negate command</a>	802.1x configuration	<a href="#">Guest VLAN configuration</a>	Maximum request retries
39	no dot1x timeout [quiet-period   reauth-period   supp-timeout]	<a href="#">Negate command</a>	802.1x configuration	<a href="#">802.1x timeout configuration</a>	Quiet period
40	no eee	<a href="#">Negate command</a>	EEE configuration		
41	no flowcontrol	<a href="#">Negate command</a>	Configure flow-control mode		
42	no gvrp vlan-creation-forbid	<a href="#">Negate command</a>	GVRP configuration	<a href="#">GVRP vlan creation forbid setting</a>	
43	no lag	<a href="#">Negate command</a>	Link Aggregation Group Configuration		
44	no port-security address-limit	<a href="#">Negate command</a>	Port security	<a href="#">MAC address limitation</a>	
45	no qos	<a href="#">Negate command</a>	Enable/Disable QoS on the device and enter the QoS mode (advance/basic)		
46	no rate-limit egress <1-8>	<a href="#">Negate command</a>	Rate limit configuration of the specified incoming traffic		
47	no rate-limit ingress	<a href="#">Negate command</a>	Rate limit configuration of the specified incoming traffic		
48	no spanning cost	<a href="#">Negate command</a>	Spanning-tree configuration		
49	no spanning link-type	<a href="#">Negate command</a>	Spanning-tree configuration		
50	no storm-control action	<a href="#">Negate command</a>	Storm control configuration	<a href="#">Storm control action after exceed threshold</a>	
51	no storm-control broadcast level	<a href="#">Negate command</a>	Storm control configuration	<a href="#">Broadcast storm control</a>	Storm control rate(pps/Kbps). (Value 0-1000000)
52	no storm-control unknown-multicast level	<a href="#">Negate command</a>	Storm control configuration	<a href="#">Unknown-multicast storm control</a>	Storm control rate(pps/Kbps). (Value 0-1000000)

行NO.	token 4 [Description]	token 5 [Description]
27	Compare the ARP body for invalid and unexpected IP addresses. Addresses include 0.0.0.0, 255.255.255.255, and all IP multicast addresses.	Sender address of 0.0.0.0 (ARP probes) are not denied
28	Compare the source MAC address in the Ethernet header against the sender MAC address in the ARP body	
29		
30		
31	MLD max-group action deny	MLD max-group action replace
32		
33		
34	Enable LACP only if a LACP device is detected	Enable Static Only
35		
36		
37		
38	Enable/Disabel Reauthentication for this port	
39	Number of seconds between re-authentication attempts	Supplicant timeout period
40		
41		
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43		
44		
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51		
52		

行NO.	Command	Command [Description]	token 1 [Description]	token 2 [Description]	token 3 [Description]
53	no storm-control unknown-unicast level	Negate command	Storm control configuration	Unknown-unicast storm control	Storm control rate(pps/Kbps). (Value 0-1000000)
54	no spanning-tree mst <0-15> cost	Negate command	Spanning-tree configuration		
55	port-security	Port security			
56	port-security address-limit <1-256>	Port security	MAC address limitation	number of limitation	
57	(no) protected	Configure an interface to be a protected port			
58	qos cos <0-7>	Enable/Disable QoS on the device and enter the QoS mode (advance/basic).			
59	(no) qos remark [cos   dscp   precedence]	Enable/Disable QoS on the device and enter the QoS mode (advance/basic).	Configure remarking state of each port	Remarking CoS value	Remarking DSCP value
60	(no) qos trust	Enable/Disable QoS on the device and enter the QoS mode (advance/basic).	Configure each port to trust state while the system is in basic mode. Use the no form of the command to disable trust state on each port.		
61	rate-limit egress [<0-1000000>]	Rate limit configuration of the specified incoming traffic	Rate limit args egress configuration	The average traffic rate in Kbps, must be a multiple of 16	
62	rate-limit egress queue <1-8> <0-1000000>	Rate limit configuration of the specified incoming traffic	Rate limit args egress configuration	queue configuration	queue id
63	rate-limit ingress <0-1000000>	Rate limit configuration of the specified incoming traffic			
64	(no) spanning-tree	Spanning-tree configuration			
65	(no) spanning-tree (bpdu-filter   bpdu-guard)	Spanning-tree configuration	Sets the BPDU-Filter for specified port	Sets the BPDU-Guard for specified port	
66	spanning-tree cost <0-200000000>	Spanning-tree configuration			
67	(no) spanning-tree edge	Spanning-tree configuration			
68	spanning-tree link-type point-to-point	Spanning-tree configuration	Specify a link type for spanning tree protocol use	Consider the interface as point-to-point	
69	spanning-tree link-type shared	Spanning-tree configuration	Specify a link type for spanning tree protocol use	Consider the interface as shared	
70	spanning-tree mcheck	Spanning-tree configuration	Set the mcheck for specified port to migrate		
71	spanning-tree mst <0-15> cost <0-200000000>	Spanning-tree configuration	Sets spanning-tree parameters of instance	Instance ID (0~15)	Sets the internal path cost for specified instance
72	(no) spanning-tree port-priority <0-240>	Spanning-tree configuration	Sets the priority for specified instance	Priority (0~240)	
73	speed (10   100   1000 )	Configure speed operation	Force 10 Mbps operation	Force 100 Mbps operation	Force 1000 Mbps operation
74	speed auto (10   10/100   100   1000)	Configure speed operation	Enable AUTO speed configuration	Include 10 Mbps in auto-negotiation advertisement	Include 10 Mbps and 100Mbps in auto-negotiation advertisement
75	spanning-tree	Spanning-tree configuration			
76	speed	Configure speed operation			
77	storm-control action [drop   shutdown]	Storm control configuration	Storm control action after exceed threshold	Drop packets after exceed storm control threshold	Shut down port after exceed storm control threshold
78	storm-control broadcast level <0-1000000>	Storm control configuration	Broadcast storm control	Storm control rate(pps/Kbps). (Value 0-1000000)	Rate value(bps:0-1000000,pps:0-262143)
79	storm-control unknown-multicast level <0-1000000>	Storm control configuration	Unknown-multicast storm control	Storm control rate(pps/Kbps). (Value 0-1000000)	Rate value(bps:0-1000000,pps:0-262143)

行NO.	token 4 (Description)	token 5 (Description)
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59    Remarking ip  
precedence value

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62    The average traffic rate  
in Kbps, must be a  
multiple of 16

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71    The value of internal  
path cost (0 = Auto)

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74	Include 100 Mbps in auto-negotiation advertisement	Include 1000 Mbps in auto-negotiation advertisement
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行NO.	Command	Command [Description]	token 1 [Description]	token 2 [Description]	token 3 [Description]
80	storm-control unknown-unicast level <0-1000000>	<a href="#">Storm control configuration</a>	Unknown-unicast storm control	<a href="#">Storm control rate(pps/Kbps). (Value 0-1000000)</a>	Rate value(bps:0-1000000,pps:0-262143)
81	(no) switchport access vlan	<a href="#">Set switching mode characteristics</a>	Vlan aware port	<a href="#">VLAN configuration</a>	<1-4094>
82	(no) switchport default-vlan tagged	<a href="#">Set switching mode characteristics</a>	Default VLAN	<a href="#">Tagging</a>	
83	(no) switchport forbidden default-vlan	<a href="#">Set switching mode characteristics</a>	Forbidden VLAN	<a href="#">Default VLAN</a>	
84	switchport forbidden vlan	<a href="#">Set switching mode characteristics</a>	Forbidden VLAN	<a href="#">VLAN configuration</a>	
85	switchport forbidden vlan [add   remove] VLAN-LIST	<a href="#">Set switching mode characteristics</a>	Forbidden VLAN	<a href="#">VLAN configuration</a>	Specify which VLAN to add to the port
86	switchport hybrid acceptable-frame-type [all   tagged-only   untagged-only]	<a href="#">Set switching mode characteristics</a>	Configure switchport in general mode	<a href="#">VLAN accept frame type</a>	Accept tagged and untagged frames
87	switchport hybrid allowed vlan add VLAN-LIST [tagged   untagged]	<a href="#">Set switching mode characteristics</a>	Configure switchport in general mode	<a href="#">Configure switchport allowed parameters</a>	VLAN configuration
88	switchport hybrid allowed vlan remove VLAN-LIST	<a href="#">Set switching mode characteristics</a>	Configure switchport in general mode	<a href="#">Configure switchport allowed parameters</a>	VLAN configuration
89	switchport hybrid ingress-filtering	<a href="#">Set switching mode characteristics</a>	Configure switchport in general mode	<a href="#">Ingress filtering configuration</a>	
90	switchport hybrid pvid <1-4094>	<a href="#">Set switching mode characteristics</a>	Configure switchport in general mode	<a href="#">Port configured VLAN ID</a>	VLAN ID (e.g. 100)
91	switchport mode [access   hybrid   trunk   tunnel]	<a href="#">Set switching mode characteristics</a>	VLAN mode	<a href="#">Access port</a>	Hybrid port
92	switchport trunk allowed vlan [add   remove] [VLAN-LIST   all]	<a href="#">Set switching mode characteristics</a>	Vlan aware port	<a href="#">Configure switchport allowed parameters</a>	VLAN configuration
93	switchport tunnel vlan <1-4094>	<a href="#">Set switching mode characteristics</a>	802.1Q tunnel port	<a href="#">VLAN configuration</a>	VLAN ID (e.g. 100)
94	switchport vlan tpid [0x8100   0x88A8   0x9100   0x9200]	<a href="#">Set switching mode characteristics</a>	VLAN configuration	<a href="#">TPID configuration</a>	Tag-protocol-id 0x8100
95	vlan protocol-vlan group <1-8> vlan <1-4094>	<a href="#">VLAN configuration</a>	802.1v protocol VLAN configuration	<a href="#">Protocol group</a>	Group index

行NO.	token 4 [Description]	token 5 [Description]		
80				
81				
82				
83				
84				
85	Specify the VLAN to remove from port	VLAN List (e.g. 3,6-8): The range of VLAN ID is 1 to 4094		
86	Only accept tagged frames	Only accept untagged and priority-tagged frames		
87	Configure to add VLANs to a hybrid port	VLAN List (e.g. 3,6-8): The range of VLAN ID is 1 to 4094	Tagged	Untagged
88	Configure to removes VLANs from a hybrid port	VLAN List (e.g. 3,6-8): The range of VLAN ID is 1 to 4094		
89				
90				
91	Trunk port	Dot1Q Tunnel port		
92	Specify which VLAN to add to the port	Specify the VLAN to remove from port	VLAN List (e.g. 3,6-8): The range of VLAN ID is 1 to 4094	
93				
94	Tag-protocol-id 0x88A8	Tag-protocol-id 0x9100	Tag-protocol-id 0x9200	
95	VLAN configuration	VLAN ID (e.g. 100)		