

Lantech

CLI

Commandline List



Ver 2.0

June. 2017

CLI User Manual Document

Applied for all Lantech 3xxx/5xxx series

```

System Configuration
System Contact [<contact>]
System Name [<name>]
System Location [<location>]
System Description [<description>]
System RingMode [enhanced|basic|auto|train|multiple_vlan]
System RingStormControl [enable|disable]
System DHCPClient [enable|disable]
System DHCPServer [enable|disable] [<range_low>] [<range_high>] [<netmask>] [<gateway>] [<dns>] <lease_time>
System DHCPSErvOption82Conf
System DHCPSErvOption66 <tftp_server_name>
System DHCPSErvOption82Add [<remoteid>] [<circuitid>] [<range_low>] [<range_high>] [<netmask>] [<gateway>] [dns] <lease_time>
System DHCPSErvOption82Delete [<remoteid>] [<circuitid>]
System DHCPSErvPortbasedConf
System DHCPSErvPortbasedAdd [<port_no>] [<desired_ip>] [<ignore>]
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System RestoreDefault [keep_none | keep_all | keep_ip | keep_account]
System Log
System Save
System Ping [<IpAddr>]
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System ConfigAccess [export|import] [URL]
System Upgrade [URL]
System AutoLogout [<timeout> 1-60 min(s) , 0 is off]

```

1.1 System Configuration

Command

[System Configuration](#)

Parameters

None

Description

System Information Display

Examples

```
SYSTEM>configuration

SystemName : IPGS-5408GSFP
SystemDescription : 4 1000 SFP +8 10/100/1000TX L2+ PoE Industrial Managed Switch
SystemLocation : Taiwan Taipei
SystemContact : Jacky.Chou
SystemTimeZoneOffset : 0
OID : 1.3.6.1.4.1.37072.302.2.3
MacAddr : 28:60:46:a0:cf:ae
SystemDate : Mon Jun 19 2017 14:31:49 GMT+0800 (CST)
SystemUptime : 814
SoftwareVersion : V3.43r61
HW_Model : IPGS-5408GSFP
HW_Description : 4 1000 SFP +8 10/100/1000TX L2+ PoE Industrial Managed Switch
Serial Number : 0
```

1.2 System Contact

System Contact

System Contact [<contact>]

Parameters

none

[<contact>] : Modify System Contact

Description

Modify or display the system contact

Examples

Using the System Contact, it can display the system contact:

```
SYSTEM>contact

SystemContact : Jacky.Chou
```

1.3 System Name

System Name

System Name [<name>]

Parameters

None

Description

Only display the system name

Examples

```
SYSTEM>name
SystemName : IPGS-5408GSFP
```

1.4 System Location

System Location

System Location [<location>]

Parameters

None

Description

Modify or display the system location.

Examples

```
SYSTEM>location  
SystemLocation : Taiwan Taipei
```

1.5 System Description

System Description

System Description [<description>]

Parameters

None

Description

Modify or Display the System Description

Examples

```
SYSTEM>description  
SystemDescription : 4 1000 SFP +8 10/100/1000TX L2+ PoE Industrial Managed Switch
```

1.6 System Ring Mode

Parameters

[enhanced|basic|auto|train|multiple_vlan]

Description

Select mode of ITU-Ring(G.8032)

Examples

```
SYSTEM>ringmode  
Current Ring Mode : enhanced
```

1.7 System Ringstormcontrol

Parameters

[enable|disable]

Description

Enable or disable stormcontrol option of ITU-Ring(G.8032)

Examples

```
SYSTEM>ringstormcontrol enable  
SYSTEM>ringstormcontrol disable  
SYSTEM>ringstormcontrol  
Ring Storm Control Enable: false
```

1.8 System DHCPClient

System DHCPClient

System DHCPClient [enable|disable]

Parameters

[enable|disable]: Modify DHCPClient enable status

Description

Modify or Display the DHCP Client status.

Examples

```
SYSTEM>dhcpclient  
DHCP Client enable: false
```

1.9 System DHCP Server

System DHCP Server

System DHCP Server [enable|disable] [<range_low>] [<range_high>] [<netmask>]
[<gateway>] [<dns>] <lease_time>

Parameters

None: Display if DHCP Server is enabled

[enable|disable]: enable or disable DHCP server

[<range_low>]: Modify the bottom line of IP range of DHCP Server

[<range_high>]: Modify the uptime IP range of DHCP Server

[<netmask>]: Modify the DHCP Server subnet mask

[<gateway>]: Modify the DHCP Server default gateway

[<dns>]: Modify the DHCP Server DNS

<lease_time>: Modify the DHCP Server expiration time

Description

Modify or display the status of DHCP Server, IP range, subnet mask, default gateway, DNS, and expiration time.

Examples

Using System DHCP Server , it can display the DHCP Server status.

>system

SYSTEM>DHCP Server

DHCP Server enable: false

Using the SystemDHCPClient [enable|disable][<range_low>] [<range_high>]

[<netmask>] [<gateway>] [<dns>] <lease_time> , the DHCPClient status can be modified. The

“lease_time is the expiration date. The server will send a user approval when lease_time is expired. The default value is 86400 seconds. (One Day):

>system

SYSTEM>DHCPClient enable 192.168.16.100 192.168.16.200 255.255.255.0

192.168.16.254 8.8.8.8 86400

DHCP Server enable: false

DHCP Server range_low: 192.168.16.100

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DHCP Server range_high: 192.168.16.200

DHCP Server netmask: 255.255.255.0

DHCP Server gateway: 192.168.16.254

DHCP Server dns: 8.8.8.8

DHCP Server lease_time: 86400

1.10 System DHCPClientOption82Conf

1.11 System DHCPClientOption66

Parameters

<Tftp_Server_Name>

Description

Set IP address of TFTP server

Examples

```
SYSTEM>dhcpsrvoption66 192.168.16.1
```

1.12 System DHCP Srv Option 82 Add

Parameters

[<remoteid>] [<circuitid>] [<range_low>] [<range_high>] [<netmask>] [<gateway>] [dns]

<lease_time>

Description

Set each option of Option 82 standard

1.13 System DHCP Srv Option 82 Delete

Parameters

None

Description

Delete option of Option 82 standard

1.14 System DHCP SrvPortBasedConf

1.15 System DHCP SrvPortBasedAdd

Parameters

[<port_no>] [<desired_ip>] [<ignore>]

Description

Set each option of Port Based DHCP

1.16 System DHCP SrvPortBasedDelete

Parameters

[<port_no>]

Description

Delete option of Port Based DHCP

1.17 System DHCP Srv MAC Based Conf

1.18 System DHCP Srv MAC Based Add

Parameters

[<mac_address>] [<desired_ip>]

Description

Set each option of MAC Based DHCP

1.19 System DHCP Srv MAC Based Delete

Parameters

[<mac_address>]

Description

Delete option of MAC Based DHCP

1.20 System DHCP Status

System DHCPStatus

Parameters

None

Description

Display the IP status of DHCP Server status

Examples:

Using SystemDHCPStatus , it can display DHCP Server status :

(It is necessary to enable DHCP Server before using DHCPStatus)

>system

SYSTEM>DHCPStatus

MacAddress IpAddress Name

28:60:46:a0:04:f5 192.168.16.143 *

1.21 System Net Status

System NetStatus

Parameters

None: show IP address of switch

Description

Display IP Status

Example

Using System NetStatus , it can display IP status:

```
>system
```

```
SYSTEM>NetStatus
```

```
IpAddr : 192.168.16.222
```

```
Netmask : 255.255.255.0
```

```
GatewayIp : 192.168.16.254
```

```
DnsIp : 8.8.8.8
```

1.22 System Net Setting IPv4

```
NetSettingIPv4
```

```
NetSettingIPv4 [<IpAddr>] [<netmask>] [<gatewayip>] [<dnsip>]
```

Parameters

None: It displays the original IP status due to the parameters are not be able to be configured.

[<IpAddr>]: IP address of switch

[<netmask>]: submask of switch

[<gatewayip>]: gateway of switch

[<dnsip>]:DNS of switch

Description

Modify or Display IPv4 status.

Examples

Using SystemNetSettingIPv4, it can display IPv4 Status:

```
>system
```

```
SYSTEM>NetSettingIPv4
```

IpAddr : 192.168.16.222

Netmask : 255.255.255.0

GatewayIp : 192.168.16.254

DnsIp : 8.8.8.8

Using SystemNetSettingIPv4 [<IpAddr>] [<netmask>] [<gatewayip>] [<dnsip>] , IPv4 can be modified:

```
>system
```

```
SYSTEM>NetSettingIPv4 192.168.16.111 255.255.255.0 192.168.16.123
```

```
1.1.1.1
```

IpAddr : 192.168.16.111

Netmask : 255.255.255.0

GatewayIp : 192.168.16.123

DnsIp : 1.1.1.1

1.23 System Net Setting IPv6

NetSettingIPv6

NetSettingIPv6 [<IpAddr>]

Parameters

None: Display IPv6

[<IpAddr>]: Modify IPV6 IP address

Description

Modify for Display IPv6.

Examples

Using SystemNetSettingIPv6, it can display IPv6 :

```
>system
```

```
SYSTEM>NetSettingIPv6
```

```
IpAddrv6 : 2001:0db8:0:f101::4
```

Using SystemNetSettingIPv6 [<IpAddr>] , IPv6 can be modified:

```
>system
```

```
SYSTEM>NetSettingIPv6 2001:0db8:0:f102::1
```

```
IpAddrv6 : 2001:0db8:0:f102::1
```


1.24 System Reboot

Reboot

Parameters

None: reboot switch

Description

System Reboot.

Example

Using Reboot , the system can be restarted:

```
>system
```

```
SYSTEM>Reboot
```

System Reboot after 1 sec

Rebooting...

1.25 System Restore Default

System RestoreDefault [keep_none | keep_all | keep_ip | keep_account]

Parameters

keep_none: reset all setting

keep_all : keep IP address and account and reset others

keep_ip : only keep IP address

keep_account: only keep account

Description

Return to system restore default

Examples

Using SystemRestoreDefault keep_none , it will return to its original factory default state:

```
>system
```

```
SYSTEM>RestoreDefault keep_none
```

System will restart!!

EDISCONNECT

Using SystemRestoreDefault keep_all , it saves IPv4 and account configurations:

```
>system
```

```
SYSTEM>RestoreDefault keep_all
```

System will restart!!

EDISCONNECT

Using SystemRestoreDefault keep_ip , it only saves IPv4 configuration:

```
>system
```

```
SYSTEM>RestoreDefault keep_ip
```

System will restart!!

EDISCONNECT

Using SystemRestoreDefault keep_account, it only saves account configuration:

>system

SYSTEM>RestoreDefault keep_account

System will restart!!

EDISCONNECT

1.26 System Log

System Log

Parameters

None: see the log of switch

Description

Display System history and messages.

Examples

Using SystemLog , it can display system history and messages:

>system

SYSTEM>Log

Wed, 19 Jun 2013 03:01:57 GMT auth auth_user success , user admin ogin

Wed, 19 Jun 2013 03:04:03 GMT boot System Bootup

Wed, 19 Jun 2013 03:04:23 GMT auth auth_user success , user admin login

Wed, 19 Jun 2013 03:07:31 GMT boot System Bootup

•
•
•

Wed, 19 Jun 2013 03:22:06 GMT boot System Bootup

Wed, 19 Jun 2013 03:22:19 GMT auth auth_user success , user admin

login

Wed, 19 Jun 2013 03:26:59 GMT boot System Bootup

Wed, 19 Jun 2013 03:27:14 GMT auth auth_user fail , user admin cant

login

1.27 System Save

System Save

Parameters

none

Description

System Save.

Example

Using SystemSave , It can save system configuration:

>system

SYSTEM>Save

System save success!!

1.28 System Ping

System Ping [<IpAddr>]

Parameters

[<IpAddr>] IPaddress is a 10-digit decimal number, ex:192.168.16.1 or Domain

Name, ex: google.com.

Description

Returning the message to display if IP address is exist or not.

Example

Using SystemPing [<IpAddr>] , it can return the message to display if IP address is exist or not:

```
>system
```

```
SYSTEM>Ping 192.168.16.1
```

```
host 192.168.16.1 is alive
```

OR

```
>system
```

```
SYSTEM>Ping www.google.com
```

```
host www.google.com is alive
```

If IP address is not exist, it will display:

```
>system
```

```
SYSTEM>Ping 192.168.15.1
```

```
.....ping failed; host 192.168.15.1 is not alive
```

1.29 System Arp

System Arp

Parameters

none

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Description

Mac address list of MAC tale

Examples

```
>system
```

```
SYSTEM>Arp
```

```
IpAddress MacAddress
```

```
-----
```

```
192.168.16.254 20:cf:30:c6:4e:4b
```

1.30 System Memory

System Memory

Parameters

None: show the memory size of switch

Description

System Memory Status.

Examples

Using SystemMemory, it can search system memory status:

```
>system
```

```
SYSTEM>Memory
```

```
Type Size(kB)
```

```
-----
```

```
MemTotal 239540
```

```
MemFree 182500
```

1.31 System Config Access

System ConfigAccess [export|import]

Parameters

[export|import]: Export setting or import setting

System ConfigAccess supports two update modes,

Export

```
system configaccess export ftp://192.168.16.22/config.yml
```

```
system configaccess export tftp://192.168.16.22/config.yml
```

Import

```
system configaccess import ftp://192.168.16.22/config.yml
```

```
system configaccess import tftp://192.168.16.22/config.yml
```

Description

Backup/Restore System ConfigAccess file

Example

FTP SERVER User Guide:

1. <https://filezilla-project.org/> download FTP SERVER and install.
2. Create User account and assign save path.
3. make sure the firewall has turn off
4. For Win7 user, please enable ICMP which is under Ping authorization.

Using SystemConfigAccess export (FTP), it can backup ConfigAccess :

```
>system
```

```
SYSTEM>ConfigAccess export ftp://root:abc123@192.168.16.22/config.yml
```

Config Access success

Using SystemConfigAccess inport (FTP) , it can restore SystemConfigAccess:

```
>system
```

```
SYSTEM>ConfigAccess inport ftp://root:abc123@192.168.16.22/config.yml
```

Config Access success

PS. The account for FTP SERVER is "root," password is abc123.

TFTP SERVER User Guide:

1. <http://www.whatsupgold.com/free-software/network-tools/tftp-server.aspx>

Download **FREE TFTP SERVER**

2. Open TFTP SERVER -> Main -> Root folder Set up save path

3. Option -> Security Select Allow downloads and uploads

Using SystemConfigAccess export (TFTP) , it can backup ConfigAccess :

>system

SYSTEM>ConfigAccess export tftp://192.168.16.22/config.yml

Config Access success

Using SystemConfigAccess inport (FTP), it can restore SystemConfigAccess:

>system

SYSTEM>ConfigAccess inport tftp://192.168.16.22/config.yml

Config Access success

1.32 System Upgrade

System Upgrade

Parameters

The firmware upgrading support HTTP, TFTP and FTP mode.

Please set the parameter as below sample

HTTP: system upgrade <http://dl.dropboxusercontent.com/u/xxx/swixvxxx.upg>

TFTP: system upgrade <tftp://192.168.16.22/swixVxxx.upg>

FTP: system upgrade <ftp://192.168.16.22/swixVxxx.upg>

Description

Upgrade the new firmware with switch

Example

Using SystemUpgrade , it can install the system through http, FTP, TFTP:

```
>system
```

```
SYSTEM>Upgrade http://192.168.16.22/swixV327a.upg
```

Please wait for upgrade

```
>system
```

```
SYSTEM>Upgrade ftp://root:abc@192.168.16.22/swixV327a.upg
```

Please wait for upgrade

```
>system
```

```
SYSTEM>Upgrade tftp://192.168.16.22/swixV327a.upg
```

Please wait for upgrade

1.33 System Auto Logout

System AutoLogout [<timeout> 1-60 min(s) , 0 is off]

Parameters

[timeout] set time period how long the switch will enter Idle Mode

Description

set time period how long the switch will enter Idle Mode

Example

Using SystemAutoLogout , system will auto logout if no any actions within timeout period.

>system

SYSTEM>AutoLogout 20

SYSTEM>

AutoLogout: 20

2.1 LLDP Configuration

```
>lldp
Available Commands:
LLDP Configuration [<port_list>]
LLDP Enabled [enable|disable]
LLDP Mode [<port_list>] [enabledRxTx|enabledTxOnly|enabledRxOnly|disabled]
LLDP Interval [<interval>]
LLDP Timetolive [<tttl>]
LLDP Info [<port_list>]
LLDP Statistics [clear]
```

LLDP Configuration

LLDP Configuration [<port_list>]

Parameters

None: Display all device information

[<port_list>]: Display assigned device information

Description

Display device information

Example

Using LLDPConfiguration , it can display system contact information:

>LLDP

LLDP>Configuration

Interval: 10

Port Mode

1 enabledRxTx

2 enabledRxTx

3 enabledRxTx

4 enabledRxTx

5 enabledRxTx

6 enabledRxTx

7 enabledRxTx

8 enabledRxTx

9 enabledRxTx

10 enabledRxTx

11 enabledRxTx

12 enabledRxTx

Using LLDPConfiguration [<port_list>] , it can modify system contact information:

>LLDP

LLDP>Configuration 1

Interval: 10

Port Mode

1 enabledRxTx

2.2 LLDP Enabled

LLDP Enabled

LLDP Enabled [enable|disable]

Parameters

none : Display the activation status of device

[enable|disable]: Modify the activation status of device

Description

Modify , Display the activation status of device

Example

Using LLDPEnabled , it can display the individual port information from LLDP:

>LLDP

LLDP>Enabled

Enabled: false

Using LLDPEnabled [enable|disable] , the operating mode information of individual port from LLDP can be modified.

>LLDP

LLDP>Enabled enable

Enabled: true

2.3 LLDP Mode

LLDP Mode

LLDP Mode [<port_list>]

[enabledRxTx|enabledTxOnly|enabledRxOnly|disabled]

Parameters

None: Display all device information

[<port_list>]: define the LLDP information of dedicated port

enabledRxTx: enable both the Rx and Tx function of LLDP

enabledTxOnly: only enable the Tx function of LLDP

disabled: disable the LLDP function

Description

Display device information and modify LLDP TX/RX function.

Example

Using LLDPMode , it can display the operating mode information from each LLDP:

```
>LLDP
```

```
LLDP>Mode
```

```
Port Mode
```

```
-----
```

```
1 enabledRxTx
```

```
2 enabledRxTx
```

```
3 enabledRxTx
```

```
4 enabledRxTx
```

```
5 enabledRxTx
```

```
6 enabledRxTx
```

```
7 enabledRxTx
```

```
8 enabledRxTx
```

```
9 enabledRxTx
```

```
10 enabledRxTx
```

```
11 enabledRxTx
```

```
12 enabledRxTx
```

Using LLDPMode[<port_list>] , It can display the information of operating mode from LLDP assigned port可:

```
>LLDP
```

```
LLDP>Mode 1
```

```
Port Mode
```

1 enabledRxTx

Using LLDPMode [<port_list>]

[enabledRxTx|enabledTxOnly|enabledRxOnly|disabled] , the assigned port by LLDP can be modified.

Operating mode information of port:

>LLDP

LLDP>Mode 1 disabled

Port Mode

1 disabled

2 enabledRxTx

3 enabledRxTx

4 enabledRxTx

5 enabledRxTx

6 enabledRxTx

7 enabledRxTx

8 enabledRxTx

9 enabledRxTx

10 enabledRxTx

11 enabledRxTx

12 enabledRxTx

2.4 LLDP Interval

LLDP Interval

LLDP Interval [<interval>]

Parameters

none : Display LLDP transmission time period

[<interval>] : Modify LLDP transmission period

Description

Display and modify LLDP transmission period

Example

Using LLDPInterval , it can display the transmission period sent from LLDP(sec):

```
>LLDP
```

```
LLDP>Interval
```

```
Interval: 10
```

Using LLDPInterval [<interval>] , the transmission period sent from LLDP(sec)can be

modified(sec) :

```
>LLDP
```

```
LLDP>Interval 5
```

```
Interval: 5
```

2.5 LLDP Time to live

LLDP Timetolive

LLDP Timetolive [<ttl>]

Parameters

none :Display LLDP existing time

[<ttl>]: Modify LLDP existing time

Description

Display or Modify LLDP aging time

Example

```
>LLDP
```

```
LLDP>Timetolive
```

```
Time to live : 15
```

```
>LLDP
```

```
LLDP>Timetolive 8
```

```
Time to live : 8
```

2.6 LLDP Info

LLDP Info

LLDP Info [<port_list>]

Parameters

none :Display LLDP history Neighbor port information

[<port_list>] :Display neighbor port information that assigned by LLDP

Description

Display the information of LLDP neighbor port.

Example

Using LLDPInfo , it can display the history of neighbor information:

>LLDP

LLDP>Info

Localport	ChassisID	PortID	PortDescription	SystemName
-----------	-----------	--------	-----------------	------------

5	28:60:46:00:00:34	Port...	100TX IPES...	
---	-------------------	---------	---------------	--

3	28:60:46:00:00:34	Port...	100TX IPES...	
---	-------------------	---------	---------------	--

SystemCapabilities	ManagementAddress
--------------------	-------------------

Bridge...	192.168.16.3
-----------	--------------

Bridge...	192.168.16.3
-----------	--------------

Using LLDPInfo [<port_list>] , it can display the information of assigned neighbor port:

>LLDP

LLDP>Info 5

Localport	ChassisID	PortID	PortDescription	SystemName
-----------	-----------	--------	-----------------	------------

-------	--	--	--	--

5	28:60:46:00:00:34	Port...	100TX IPES...	
---	-------------------	---------	---------------	--

SystemCapabilities	ManagementAddress
--------------------	-------------------

-------	--

Bridge...	192.168.16.3
-----------	--------------

2.7 LLDP Statistics

LLDP Statistics

LLDP Statistics [clear]

Parameters

none :Display LLDP Statistics

[clear] :Clear LLDP LLDP Statistics

Description

Display or clear LLDP Statistics.

Example

>LLDP

LLDP>Statistics

Total LLDP traffic statistics

Total entries added : 0

Total entries deleted : 0

Total entries aged : 0

Total frames out : 0

Total frames in : 19

Total frames received in error : 0

Total frames discarded : 0

Total TLVs discarded : 0

Total TLVs unrecognized : 0

Localport FramesIn FramesOut FrameDiscard Ageout

1 0 0 0 0

2 0 0 0 0

3 0 0 0 0

4 0 0 0 0

5 19 0 0 0

6 0 0 0 0

7 0 0 0 0

8 0 0 0 0

9 0 0 0 0

10 0 0 0 0

11 0 0 0 0

12 0 0 0 0

Using LLDPStatistics [clear] , it can clear LLDP Statistics:

>LLDP

LLDP>Statistics clear

Total LLDP traffic statistics

Total entries added : 0

Total entries deleted : 0

Total entries aged : 0

Total frames out : 0

Total frames in : 0

Total frames received in error : 0

Total frames discarded : 0

Total TLVs discarded : 0

Total TLVs unrecognized : 0

Localport FramesIn FramesOut FrameDiscard Ageout

1 0 0 0 0

2 0 0 0 0

3 0 0 0 0

.....

12 0 0 0 0

3.1 Port Configuration

```
>port
Available Commands:
Port Configuration [<port_list>]
Port Status [<port_list>]
Port Enabled [<port_list>] [enable|disable]
Port Description [<port_list>] [string]
Port Speed [<port_list>] [10hdx|10fdx|100hdx|100fdx|1000fdx|10fchdx|10fcfdx|100fchdx|100fcfdx|1000fcfdx|auto]
Port FlowControl [<port_list>] [enable|disable]
Port IngressRate [<port_list>] [<rate> kbps] [broadcast | multicast | unicast | broad_uni | broad_multi | multi_uni | uni_broad_multi]
Port EgressRate [<port_list>] [<rate> kbps]
Port Statistics [clear|detail] [<port_list>| detail only]
Port IECCounter [<port_list>] [clear]
```

Port Configuration

Port Configuration [<port_list>]

Parameters

Parameters Parameter Description

none Display the information of Port Configuration

[<port_list>] Display assigned Port Configuration

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Description

Display Port information

Example

Using PortConfiguration , it can display Port Configuration:

>PORT

PORT>Configuration

Port enabled Description Speed Conf Flow Control Conf

1 true Port 1 auto true

2 true Port 2 auto true

3 true Port 3 auto true

:

:

12 true Port 12 auto true

Ingress Limit Frame Type Ingress Rate Egress Rate

uni_broad_multi 0 0

uni_broad_multi 0 0

uni_broad_multi 0 0

:

:

uni_broad_multi 0 0

Using PortConfiguration [<port_list>] , it can display Port Configuration:

>PORT

PORT>Configuration 5

Port enabled Description Speed Conf Flow Control Conf

5 true Port 5 auto true

Ingress Limit Frame Type Ingress Rate Egress Rate

uni_broad_multi 0 0

3.2 Port Status

Port Status

Port Status [<port_list>]

Parameters

None: Display Port Status

[<port_list>]: Display assigned port status

Description

Display Port status

Example

Using PortStatus , it can display all the port status.

>PORT

PORT>Status

Port Group ID Type Link State Speed Duplex FlowControl

1 -1 100TX down enable N/A N/A N/A

2 -1 100TX down enable N/A N/A N/A

3 -1 100TX down enable N/A N/A N/A

4 -1 100TX down enable N/A N/A N/A

5 -1 100TX up enable 100 Full true

6 -1 100TX down enable N/A N/A N/A

7 -1 100TX up enable 100 Full true

8 -1 100TX down enable N/A N/A N/A

9 -1 1GTX down enable N/A N/A N/A

10 -1 1GTX down enable N/A N/A N/A

11 -1 DSFP down enable N/A N/A N/A

12 -1 DSFP down enable N/A N/A N/A

Using PortStatus [<port_list>] , it can display assigned port status:

>PORT

PORT>Status 5

Port Group ID Type Link State Speed Duplex FlowControl

5 -1 100TX up enable 100 Full true

3.3 Port Enabled

Port Enabled

Port Enabled [<port_list>] [enable|disable]

Parameters

None: show the port status

[<port_list>]: set the dedicated port which you want to enable

[enable|disable]: enable or disable the dedicated port

Example

```
>PORT
```

```
PORT>Enable
```

```
Port Enabled
```

```
----
```

```
1 true
```

```
2 true
```

```
3 true
```

```
:
```

```
:
```

```
12 true
```

```
>PORT
```

PORT>Enable 2

Port Enabled

2 true

51

>PORT

PORT>Enable 5 disable

Port Enabled

1 true

2 true

3 true

4 true

5 false

:

:

12 true

3.4 Port Description

Port Description

Port Description [<port_list>] [string]

Parameters

None: show all port description

[<port_list>]: Modify the port description of dedicated port

[string]: content of port description

Description

Display or edit the Port Description.

Example

>PORT

PORT>Description

Port Description

1 Port 1

2 Port 2

3 Port 3

4 Port 4

5 Port 5

6 Port 6

7 Port 7

8 Port 8

9 Port 9

10 Port 10

11 Port 11

12 Port 12

3.5 Port Speed

Port Speed

Port Speed [<port_list>] [10hdx|10fdx|100hdx|100fdx|1000fdx|auto|disable]

Parameters

none : display the speed of all ports

[<port_list>]: choose the dedicated port

10hdx: set the speed as 10 Half

10fdx: set the speed as 10 Full

100hdx: set the speed as 100 Half

100fdx: set the speed as 100 Full

1000fdx: set the speed as 1000 Full

Auto: set the speed as auto sense

Description

Display and Modify the speed of each switch port

Example

```
>PORT
```

```
PORT>Speed
```

```
Port Speed Conf
```

```
-----
```

```
1 auto
```

```
2 auto
```

```
3 auto
```

```
:
```

```
:
```

```
12 auto
```

```
>PORT
```

```
PORT>Speed 7
```

```
Port Speed Conf
```

```
-----
```

```
7 auto
```

```
>PORT
```

PORT>Speed 1 10hdx

Port Speed Conf

1 10hdx

2 auto

3 auto

3.6 Port Flow Control

Port FlowControl

Port FlowControl [<port_list>] [enable|disable]

Parameters

None: display the status of flow control

[<port_list>]: choose the dedicated port

[enable|disable]: enable or disable flow control function

Example

>PORT

PORT>FlowControl

Port FlowControl Conf

1 true

2 true

3 true

:

:

12 true

>PORT

PORT>FlowControl 4

Port FlowControl Conf

4 true

>PORT

PORT>FlowControl 2 disable

Port FlowControl Conf

1 true

2 false

3 true

:

:

12 true

3.7 Port Ingress Rate

Port IngressRate

Port IngressRate [<port_list>] [<rate> kbps] [broadcast | multicast | unicast |
broad_uni | broad_multi | multi_uni | uni_broad_multi]

Parameters

None: display the status of Ingress rate

[<port_list>]: choose the dedicated port

[<rate> kbps]: the rate of Ingress

Broadcast: set filter packet as broadcast

Multicast: set filter packet as Multicast

Unicast: set filter packet as Unicast

Description

Set the filter rate under Ingress mode.

Example

>PORT

PORT>IngressRate

Port Ingress Rate Ingress Type

1 0 uni_broad_multi

2 0 uni_broad_multi

3 0 uni_broad_multi

:

:

12 0 uni_broad_multi

>PORT

PORT>IngressRate 3

Port Ingress Rate Ingress Type

3 0 uni_broad_multi

>PORT

PORT>IngressRate 2 100 boardcast

Port Ingress Rate Ingress Type

1 0 uni_broad_multi

2 100 broadcast

3 0 uni_broad_multi

:

:

12 0 uni_broad_multi

3.8 Port EgressRate

Port EgressRate

Port EgressRate [<port_list>] [<rate> kbps]

Parameters

Parameters	ParametersDescription
------------	-----------------------

None:	display the rate of Egress
-------	----------------------------

[<port_list>]:	choose the dedicated port
----------------	---------------------------

[<rate> kbps]:	set the rate of Egress
----------------	------------------------

Description

Display or modify the filter rate under Egress mode.

Example

```
>PORT
```

```
PORT>EgressRate
```

```
Port Egress Rate
```

```
-----
```

```
1 0
```

```
2 0
```

3 0

:

:

12 0

>PORT

PORT>EgressRate 3

Port Egress Rate

3 0

>PORT

PORT>EgressRate 2 150

Port Egress Rate

1 0

2 150

3 0

:

:

12 0

3.9 Port Statistics

Port Statistics

[Port Statistics \[clear\]](#)

Parameters

None: display the information of packet counter

[clear]: clear information

Description

Display or clear the port statistics information.

Example

```
>PORT
```

```
PORT>Statistics
```

```
ports : 1 2 3 ... 12
```

```
Txgoodbyte : 0 0 787160 ... 0
```

```
Txgoodpkts : 0 0 1563 ... 0
```

```
Txmcpkts : 0 0 50 ... 0
```

```
Txbrdcpkts : 0 0 8 ... 0
```

```
Txerr : 0 0 0 ... 0
```

```
Txucpkts : 0 0 1505 ... 0
```

```
Txmultiplepks : 0 0 0 ... 0
```

```
Txdeferredpkts : 0 0 0 ... 0
```

Rxgoodbyte : 0 0 726413 ... 0

Rxbadbyte : 0 0 0 ... 0

Rxgoodpkts : 0 0 3510 ... 0

Rxbadpkts : 0 0 0 ... 0

Rxbrdcpkts : 0 0 572 ... 0

Rxmcpkts : 0 0 427 ... 0

Rxmacerror : 0 0 0 ... 0

Rxbadfc : 0 0 0 ... 0

Rxucpkts : 0 0 2511 ... 0

Rxunrecogcntr : 0 0 0 ... 0

Rxgoodfc : 0 0 0 ... 0

64byte : 0 0 1884 ... 0

65-127byte : 0 0 1171 ... 0

128-255byte : 0 0 665 ... 0

256p-511byte : 0 0 538 ... 0

512-1023byte : 0 0 295 ... 0

1024-maxbyte : 0 0 520 ... 0

excollisions : 0 0 0 ... 0

dropevents : 0 0 0 ... 0

undersizepkts : 0 0 0 ... 0

fragmentspkts : 0 0 0 ... 0

oversizepkts : 0 0 0 ... 0

jabberpkts : 0 0 0 ... 0

badcrc : 0 0 0 ... 0

collisions : 0 0 0 ... 0

latecollisions : 0 0 0 ... 0

>PORT

PORT>Statistics clear

ports : 1 2 3 ... 12

Txgoodbyte : 0 0 0 ... 0

Txgoodpkts : 0 0 0 ... 0

Txmcpkts : 0 0 0 ... 0

Txbrdcpkts : 0 0 0 ... 0

Txerr : 0 0 0 ... 0

Txucpkts : 0 0 0 ... 0

Txmultiplepks : 0 0 0 ... 0

Txdeferredpkts : 0 0 0 ... 0

Rxgoodbyte : 0 0 0 ... 0

Rxbadbyte : 0 0 0 ... 0

Rxgoodpkts : 0 0 0 ... 0

Rxbadpkts : 0 0 0 ... 0

Rxbrdcpkts : 0 0 0 ... 0

Rxmcpkts : 0 0 0 ... 0

Rxmacerror : 0 0 0 ... 0
Rxbadfc : 0 0 0 ... 0
Rxucpkts : 0 0 0 ... 0
Rxunrecogcntr : 0 0 0 ... 0
Rxgoodfc : 0 0 0 ... 0
64byte : 0 0 0 ... 0
65-127byte : 0 0 0 ... 0
128-255byte : 0 0 0 ... 0
256p-511byte : 0 0 0 ... 0
512-1023byte : 0 0 0 ... 0
1024-maxbyte : 0 0 0 ... 0
excollisions : 0 0 0 ... 0
dropevents : 0 0 0 ... 0
undersizepkts : 0 0 0 ... 0
fragmentspkts : 0 0 0 ... 0
oversizepkts : 0 0 0 ... 0
jabberpkts : 0 0 0 ... 0
badcrc : 0 0 0 ... 0
collisions : 0 0 0 ... 0
latecollisions : 0 0 0 ... 0

3.10 Port IECCounter

4.1 VLAN Configuration

```
vlan
Available Commands:
VLAN Configuration
VLAN OperationMode [<mode>based|dot1q]
VLAN ManagementVlanId <vid>
VLAN Status
VLAN Pvid [<port_list>] <vid>
VLAN LinkType [<port_list>] [<type>access|trunk|hybrid]
VLAN PortBasedAdd <group_id> [<port_list>]
VLAN PortBasedDelete <group_id> [<port_list>]
VLAN TagsAdd [<port_list>] <vid>
VLAN TagsDelete [<port_list>] <vid>
```

VLAN Configuration

Parameters

None: display the setting of VLAN function

Description

display the setting of VLAN function

Example

```
>VLAN
```

```
VLAN>Configuration
```

```
Port LinkType PVID Tagged
```

```
-----
1 access 1
```

2 access 1

3 access 1

4 access 1

5 access 1

6 access 1

7 access 1

8 access 1

9 access 1

10 access 1

11 access 1

12 access 1

4.2 VLAN OperationMode

Parameters

[<mode>based|dot1q]

Description

Select Port based VLAN or 802.1q Tag VLAN

4.3 VLAN Management Vlan ID

VLAN ManagementVlanId <vid>

Parameters

<vid> Modify the VLAN ID

Description

Manage the ID of VLAN Group

Example

>VLAN

VLAN>ManagementVlanId 3

Loading Command Line Interface...

4.4 VLAN Status

VLAN Status

Parameters

None: display the VLAN status

Description

display the VLAN status

Example

```
>VLAN
```

```
VLAN>Status
```

```
Vlan ID Members Tags
```

```
-----
```

```
1 1,2,3,4,5,6,7,8,9,10,11,12
```

4.5 VLAN Pvid

```
VLAN Pvid [<port_list>] <vid>
```

Parameters

None: Display the PVID of each port

[<port_list>]: choose the dedicated port

<vid>: set the value of PVID

Description

Modify or display the PVID information.

Example

```
>VLAN
```

```
VLAN>Pvid
```

```
Port PVID
```

```
----
```

1 1

2 1

3 1

4 1

5 1

6 1

7 1

8 1

9 1

10 1

11 1

12 1

>VLAN

VLAN>Pvid 1

Port PVid

1 1

>VLAN

VLAN>Pvid 1 2

Port PVid

4.6 VLAN Link Type

VLAN LinkType [<port_list>] [<type>access|trunk|hybrid]

Parameters

none display the link type of VLAN

[<port_list>] choose dedicated port

[Access/trunk/hybrid] link type of VLAN

Description

Display or modify the link type of VLAN

Example

```
>VLAN
```

```
VLAN>LinkType
```

```
Port LinkType
```

```
-----
```

```
1 access
```

```
2 access
```

```
3 access
```

```
4 access
```

```
5 access
```

6 access

7 access

8 access

9 access

10 access

11 access

12 access

>VLAN

VLAN>LinkType 2

Port LinkType

2 access

>VLAN

VLAN>LinkType 2 trunk

Port LinkType

1 access

2 trunk

3 access

4 access

5 access

6 access

7 access

8 access

9 access

10 access

11 access

12 access

4.7 VLAN PortBasedAdd

Parameters

<group_id> [<port_list>]

Description

Add Port based VLAN group

4.8 VLAN PortBasedDelete

Parameters

<group_id> [<port_list>]

Description

Delete Port based VLAN group

4.9 VLAN Tags Add

VLAN TagsAdd [<port_list>] <vid>

Parameters

None: display Vlan Tags of each port

[<port_list>]: choose dedicated port

<vid>: value of tag

Description

Add or display the VLAN tag

Example

```
>VLAN
```

```
VLAN>TagsAdd
```

Port Tagged

1

2

3

4

5

6

7

8

9

10

11

12

>VLAN

VLAN>TagsAdd 1 2

73

Port Tagged

1 1,2

2

3

4

5

6

7

8

9

10

11

12

4.10 VLAN Tags Delete

VLAN TagsDelete [<port_list>] <vid>

Parameters

None: display Vlan Tags of each port

[<port_list>]: choose dedicated port

<vid>: value of tag

Description

Delete or display the VLAN tag

Example

>VLAN

VLAN>TagsDelete

Port Tagged

1

2

3

4

5

6

7

8

9

10

11

12

>VLAN

VLAN>TagsDelete 1 2

Port Tagged

1 1

2

3

4

5

6

7

8

5.1 MAC Filter Lookup

```
>mac
Available Commands:
MAC FilterLookup
Mac FilterAdd [<MAC address>] [<vid>]
Mac FilterDelete [<MAC address>] [<vid>]
MAC StaticLookup
Mac StaticAdd [<MAC address>] [<vid>] [<port>]
Mac StaticDelete [<MAC address>] [<vid>] [<port>]
Mac AgeTime [<agetime>]
MAC FDBDump
MAC FDBCLEAR
MAC FDBTableInfo
```

MAC FilterLookup

Parameters

None: display the filtered MAC

Description

Display the filtered MAC address

Example

```
>MAC
```

```
MAC>FilterLookup
```

```
MAC Address Vid
```

```
-----
```

```
F4:6D:04:BC:44:72 1
```

5.2 MAC Filter Add

MAC FilterAdd [<MAC address string>] [<vid>]

Parameters

None: display the filtered MAC

[<MAC address string>]: dedicated MAC address which you want to filter

[<vid>]: filtered VLAN group ID

Description

Display or add the MAC address which you want to filter

Example

>MAC

MAC>FilterAdd

MAC Address Vid

F4:6D:04:BC:44:72 1

>MAC

MAC>FilterAdd 12:6D:54:BD:33:22 2

MAC Address Vid

F4:6D:04:BC:44:72 1

12:6D:54:BD:33:22 2

5.3 MAC Filter Delete

MAC FilterDelete [<MAC address string>] [<vid>]

Parameters

None: display the filtered MAC

[<MAC address string>]: dedicated MAC address which you want to filter

[<vid>]: filtered VLAN group ID

Description

Display or delete the MAC address which you want to filter

Example

>MAC

MAC>FilterDelete

MAC Address Vid

F4:6D:04:BC:44:72 1

12:6D:54:BD:33:22 2

Port

的MacAddress :

>MAC

MAC>FilterDelete F4:6D:04:BC:44:72 1

MAC Address Vid

12:6D:54:BD:33:22 2

5.4 MAC Static Lookup

MAC StaticLookup

Parameters

none

Description

Display the static MAC address table.

Example

>MAC

MAC>StaticLookup

MAC Address Vid Port

44:FE:2D:52:22:32 1 1

5.5 MAC Static Add

MAC StaticAdd [<MAC address string>] [<vid>] [<port>]

Parameters

None: display the static MAC

[<MAC address string>]: dedicated MAC address

[<vid>]: VLAN group ID

[<port>]: dedicated port which response the dedicated MAC address

Description

Display of add MAC in static MAC address table

Example

>MAC

MAC>StaticAdd

MAC Address Vid Port

44:FE:2D:52:22:32 1 1

>MAC

MAC>StaticAdd 44:ER:4R:2B:DF:33 1 2

MAC Address Vid Port

44:FE:2D:52:22:32 1 1

44:ER:4R:2B:DF:33 1 2

5.6 MAC Static Delete

MAC StaticDelete [<MAC address string>] [<vid>] [<port>]

Parameters

None: display the static MAC

[<MAC address string>]: dedicated MAC address

[<vid>]: VLAN group ID

[<port>]: dedicated port which response the dedicated MAC address

Description

Display of delete MAC in static MAC address table

Example

>MAC

MAC>StaticDelete

MAC Address Vid Port

44:FE:2D:52:22:32 1 1

44:ER:4R:2B:DF:33 1 2

>MAC

MAC>StaticDelete 44:FE:2D:52:22:32 1 1

MAC Address Vid Port

44:ER:4R:2B:DF:33 1 2

5.7 MAC Age Time

MAC AgeTime [<agetime>]

Parameters

None: display the aging time of MAC table (default is 300 seconds)

Agetime: value of aging time

Description

Display of modified the aging time of MAC table

Example

>MAC

MAC>AgeTime

age_time: 300

>MAC

MAC>AgeTime 100

age_time: 100

5.8 FBDump

Parameters

None:

Description

Dump MAC table

Example

```
MAC>fdbdump
```

```
MAC>
```

MAC Address	Vid	Port
-----	-----	
00:1B:21:36:72:60	1	7

MAC Address	Vid	Trunk
-----	-----	

sip	dip	Vid	Port
-----	-----	-----	

5.9 FDBClear

Parameters

None:

Description

Clear MAC table

5.10 FDBTableInfo

Parameters

None:

Description

Display entry of MAC table

Example

```
MAC>fdbtableinfo
```

```
MAC>
```

```
MAC fdb_size: 16384
```

```
MAC dynami_count: 1
```

```
MAC static_count: 0
```

6.1 Account Add

```
>user
Available Commands:
USER Add [account] [password] [permission<1:admin,2:user>]
USER Delete [account]
USER Modify [account] [password] [permission<1:admin,2:user>]
USER Dump
```

Account Add [account] [password] [permission<1:admin,2:user>]

Parameters

[account]: account name

[password]: password

[permission]: access permission(admin/user)

Description

Add switch account and define permission

Example

>User

User>Add test abc123 1

add success

6.2 Account Delete

Account Delete [account] [password] [permission<1:admin,2:user>]

Parameters

Parameters	ParametersDescription
------------	-----------------------

[account]:	account name
------------	--------------

Description

Delete the account of switch

Example

```
>User
```

```
User>Delete test abc123 1
```

```
delete success
```

6.3 Account Modify

Account Modify [account] [password] [permission<1:admin,2:user>]

Parameters

[account]:	account name
------------	--------------

[password]:	password
-------------	----------

[permission]: access permission(admin/user)

Description

Modify the account content.

Example

>User

User>Modify test123 abc 2

modify success

5.8 Dump

Parameters

None:

Description

Dump User table

Example

Account	Permission
admin	1
user	2

7.1 Mirror Status

```
mirror
Available Commands:
Mirror Status
Mirror Add [ingress|egress] <destination_port> [<source_port_list>]
Mirror Delete [ingress|egress] <destination_port> [<source_port_list>]
```

Mirror Status

Parameters

None: display the status of Mirror

Description

display the status of Mirror

Example

>Mirror

Mirror>Status

Type Destination Port Source Ports

7.2 Mirror Add

Mirror Add [ingress|egress] <destination_port> [<source_port_list>]

Parameters

[ingress|egress]: set Ingress and Egress mode

<destination_port>: choose dedicated mirro port

<source_port_list>: choose which port you want to mirror

Description

Set Mirror function.

Example

>Mirror

Mirror>Add ingress 2 3,4

Type Destination Port Source Ports

ingress 2 3,4

7.3 Mirror Delete

Mirror Delete [ingress|egress] <destination_port> [<source_port_list>]

Parameters

[ingress|egress]: set Ingress and Egress mode

<destination_port>: choose dedicated mirro port

<source_port_list>: choose which port you want to mirror

Description

Delete Mirro port.

Example

>Mirror

Mirror>Delete ingress 2 3

Type Destination Port Source Ports

ingress 2 4

8.1 CDP Configuration

```
>cdp
Available Commands:
CDP Configuration [<port_list>]
CDP GlobalCDP [enable|disable]
CDP Mode [<port_list>] [enable|disable]
CDP Interval [<interval>]
CDP HoldTime [<interval>]
CDP Info [<port_list>]
CDP Statistics [clear]
```

CDP Configuration [<port_list>]

Parameters

None: display CDP status

[<port_list>] : choose which port will enable CDP function

Description

Display or modify CDP status

Example

>CDP

CDP>Cconfiguration

GlobalCDP: true

Interval: 60

HoldTime: 180

Port Mode

1 true

2 true

3 true

4 true

5 true

6 true

7 true

8 true

9 true

10 true

11 true

12 true

>CDP

CDP>Cconfiguration 2

GlobalCDP: true

Interval: 60

HoldTime: 180

Port Mode

2 true

8.2 CDP Global CDP

CDP GlobalCDP [enable|disable]

Parameters

[enable|disable] Enable or Disable CDP

Description

Enable or Disable CDP

Example

```
>CDP
```

```
CDP>GlobalCDP
```

```
GlobalCDP: false
```

```
>CDP
```

```
CDP>GlobalCDP enable
```

```
GlobalCDP: true
```

8.3 CDP Mode

CDP Mode [<port_list>] [enable|disable]

Parameters

None: Display CDP status

Description

Display or disable/enable CDP mode of each port

Example

```
>CDP
```

```
CDP>Mode
```

```
Port Mode
```

```
-----
```

```
1 true
```

```
2 true
```

```
3 true
```

```
4 true
```

```
5 true
```

```
6 true
```

```
7 true
```

```
8 true
```

```
9 true
```

```
10 true
```

```
11 true
```

```
12 true
```

```
>CDP
```

```
CDP>Mode 2 disable
```


Port Mode

1 true

2 false

3 true

4 true

5 true

6 true

7 true

8 true

9 true

10 true

11 true

12 true

8.4 CDP Interval

CDP Interval [<interval>]

Parameters

None:display the interval time of CDP

[<interval>] modify the interval time of CDP

Description

Display or modify the interval time of CDP

Example

```
>CDP
```

```
CDP>Interval
```

```
Interval: 60
```

```
>CDP
```

```
CDP>Interval 100
```

```
Interval: 100
```

8.5 CDP HoldTime

```
CDP HoldTime [<interval>]
```

Parameters

None: display the hold time of CDP。

[<interval>]: modify the hold time of CDP。 。

Description

Display or modify the hold time of CDP.

Example

```
>CDP
```

CDP>HoldTime

HoldTime: 180

>CDP

CDP>HoldTime 360

HoldTime: 360

8.6 CDP Info

CDP Info [<port_list>]

Parameters

None: display the information form CDP of all ports。

[<port_list>] choose the dedicated port

Description

Display the CDP information of dedicated port.

Example

>CDP

CDP>Info

Localport Version Platform ageOutTTL

5 2 IES soft 148

6 2 IES soft 148

DeviceID SoftwareVersion Address

IES-5408DSFP V3.27a 192.168.16...

IES-5408DSFP V3.27a 192.168.16...

>CDP

CDP>Info 5

Localport Version Platform ageOutTTL

5 2 IES soft 148

DeviceID SoftwareVersion Address

IES-5408DSFP V3.27a 192.168.16...

8.7 CDP Statistics

CDP Statistics

Parameters

None: display the counter of CDP packet.

Description

display the counter of CDP packet.

Example

>CDP

CDP>Statistics

total_packets_output: 2097

total_packets_input: 175

9.1 IGMP Configuration

```
>igmp
Available Commands:
IGMP Configuration [<port_list>]
IGMP ReservedWellKnown [enable|disable]
IGMP UnregisterFlooding [enable|disable]
IGMP GlobalSnooping [enable|disable]
IGMP GlobalQuerier [enable|disable]
IGMP QuerierVersion [v1|v2|v3]
IGMP Fastleave [<port_list>] [enable|disable]
IGMP RouterSetting [<port_list>] [enable|disable]
IGMP RouterStatus [<port_list>]
IGMP Groups [<vid>]
IGMP Statistics [clear]
```

[IGMP Configuration \[<port_list>\]](#)

Parameters

None: display the IGMP status

Description

Display the IGMP status of dedicated port

Example

[>IGMP](#)

[IGMP>Configuration](#)

GlobalQuerier: false

GlobalSnooping: true

GlobalFlooding: true

Port Router Fast Leave

1 false true

2 false true

3 false true

4 false true

5 false true

6 false true

7 false true

8 false true

9 false true

10 false true

11 false true

12 false true

>IGMP

IGMP>Configuration 2

GlobalQuerier: false

GlobalSnooping: true

GlobalFlooding: true

Port Router Fast Leave

2 false true

9.2 IGMP Reserved Well Known

IGMP ReservedWellKnown [enable|disable]

Parameters

None: display the wellknown area of IGMP table

Description

display the wellknown area of IGMP table

9.3 UnregisterFlooding

IGMP UnregisterFlooding [enable|disable]

Parameters

None:

Description

Flood all ungistered Multicast stream

9.4 IGMP Global Snooping

IGMP GlobalSnooping [enable|disable]

Parameters

None: display the status of IGMP function

[enable|disable]: disable or enable

Description

Display or modify the IGMP function

Example

```
>IGMP
```

```
IGMP>GlobalSnooping
```

```
GlobalSnooping: true
```

```
>IGMP
```

```
IGMP>GlobalSnooping disable
```

```
GlobalSnooping: false
```

9.5 IGMP Global Querier

```
IGMP GlobalQuerier [enable|disable]
```

Parameters

Parameters	ParametersDescription
------------	-----------------------

None:	display the IGMP querier status.
-------	----------------------------------

[enable disable]	enable or diable
------------------	------------------

Description

Display or modify the IGMP querier .

Example

```
>IGMP
```

```
IGMP>GlobalQuerier
```

```
GlobalQuerier: false
```

```
>IGMP
```

```
IGMP>GlobalQuerier enable
```

```
GlobalQuerier: true
```

9.6 QuerierVersion

IGMP QuerierVersion [V1|V2|V3]

Parameters

None:

Description

Set version of IGMP Querier

9.7 IGMP Fast leave

IGMP Fastleave [<port_list>] [enable|disable]

Parameters

Parameters ParametersDescription

None: display the status of IGMP fastleave

[<port_list>] choose the dedicated port

[enable|disable]: enable or disable

Description

Display or modify the IGMP fastleave if dedicated port.

Example

```
>IGMP
```

```
IGMP>Fastleave
```

```
Port Fast Leave
```

```
-----
```

```
1 true
```

```
2 true
```

```
3 true
```

```
4 true
```

```
5 true
```

```
6 true
```

```
7 true
```

```
8 true
```

```
9 true
```

```
10 true
```

```
11 true
```

12 true

>IGMP

IGMP>Fastleave 2

Port Fast Leave

2 true

>IGMP

IGMP>Fastleave 2 disable

Port Fast Leave

1 true

2 false

3 true

4 true

5 true

6 true

7 true

8 true

9 true

10 true

11 true

12 true

9.8 IGMP RouterSetting

IGMP RouterSetting [<port_list>] [enable|disable]

Parameters

Parameters	Parameters	Description
------------	------------	-------------

None:	Set IGMP router port.
-------	-----------------------

[<port_list>]:	choose dedicated port
----------------	-----------------------

[enable disable]:	enable or disable IGMP router port.
-------------------	-------------------------------------

Description

Set IGMP router port.

Example

>IGMP

IGMP>Routersetting

Port Router

1 false

2 false

3 false

4 false

5 false

6 false

7 false

8 false

9 false

10 false

11 false

12 false

>IGMP

IGMP>Router 2

Port Router

2 false

>IGMP

IGMP>Router 2 enable

Port Router

1 false

2 true

3 false

4 false

5 false

6 false

7 false

8 false

9 false

10 false

11 false

12 false

9.9 IGMP RouterStatus

IGMP Routerstatus [<port_list>]

Parameters

Parameters	Parameters	Description
------------	------------	-------------

None:	display the status of IGMP router port.
-------	---

[<port_list>]:	choose dedicated port
----------------	-----------------------

Description

Display or the IGMP router port.

9.10 IGMP Groups

IGMP Groups [<vid>]

Parameters

None: display the status of IGMP group.

Description

display the status of IGMP group.

Example

```
>IGMP
```

```
IGMP>Group
```

```
VID Group Ports
```

```
-----
```

```
1 224.0.0.252 1,3
```

```
1 239.255.255.250 1,3
```

```
>IGMP
```

```
IGMP>Group 1
```

```
VID Group Ports
```

```
-----
```

```
1 224.0.0.252 1,3
```

```
1 239.255.255.250 1,3
```


9.11 IGMP Statistics

[IGMP Statistics](#) [\[clear\]](#)

Parameters

None:display the status of IGMP packet counter

[\[clear\]](#)Lclear counter。

Description

Display or clear the status of IGMP packet counter

Example

[>IGMP](#)

[IGMP>Statistics](#)

VID Querier Status Rx Queries Tx Queries

1 IDLE 0 0

Rx V1 Reports Rx V2 Reports Rx V3 Reports Rx V2 Leave

0 0 60 0

[>IGMP](#)

[IGMP>Statistics clear](#)

VID Querier Status Rx Queries Tx Queries

1 IDLE 0 0

Rx V1 Reports Rx V2 Reports Rx V3 Reports Rx V2 Leave

0 0 0 0

10.1 PTP Configuration

```
>ptp
Available Commands:
PTP Mode [p2p|e2e]
PTP Enabled [<port_list>] [enable|disable]
PTP Status [<port_list>]
```

PTP Mode [p2p|e2e]

Parameters

None:

Description

Set PTP mode as p2p or e2e

10.2 PTP Enabled

PTP Enabled [<port_list>] [enable|disable]

Parameters

Parameters	Parameters	Description
------------	------------	-------------

None:	display the status of PTP function.
-------	-------------------------------------

<port_list>:	choose dedicated port
--------------	-----------------------

[enable disable]:	enable or disable PTP function of dedicated port
-------------------	--

Description

display or modify the status of PTP function.

Example

```
>PTP
```

```
PTP> Enabled
```

```
Port Enabled
```

1 false

2 false

3 false

4 false

5 false

6 false

7 false

8 false

9 false

10 false

11 false

12 false

>PTP

PTP> Enabled 4 enable

Port Enabled

1 false

2 false

3 false

4 true

5 false

6 false

7 false

8 false

9 false

10 false

11 false

12 false

10.3 PTP Status

[PTP Status \[<port_list>\]](#)

Parameters

none display the PTP information

<port_list> choose dedicated port

Description

Display the PTP information of dedicated port.

Example

[>PTP](#)

[PTP> Status](#)

Port Time Adjustment From

3 Internal Clock 00:40:C7:17:C0:22

4 Internal Clock 00:40:C7:17:C0:22

Source Port Clock Identity PTP Time

5 0040C7FFFE1C7022 Fri, 05 Jul 2013...

4 0040C7FFFE1C7022 Fri, 05 Jul 2013...

>PTP

PTP> Status 3

Port Time Adjustment From

3 Internal Clock 00:40:C7:17:C0:22

Source Port Clock Identity PTP Time

5 0040C7FFFE1C7022 Fri, 05 Jul 2013...

11.1 ACL Groups

```
ACL>
Available Commands:
ACL Groups [<port_list>]
ACL DefaultRule [<port_list>] [<rule> permit|deny]
ACL AddIpIngress [<port_list>] [<index> 1~7 ] [<source> enable|disable] [<ip address>] [<ip mask>] [<rule> permit|deny]
ACL AddIpEgressDeny [<port_list>] [<index> 1~7 ] [<ip address>] [<ip mask>]
ACL AddMac [<port_list>] [<index> 1~7 ] [<source> enable|disable] [<mac address>] [<mac mask>] [<rule> permit|deny]
ACL Delete [<port_list>] [<index> 1~7 ]
```

ACL Groups [<port_list>]

Parameters

none :display the information of ACL

<port_list> choose the dedicated port.

Description

Display the ACL information of dedicated port.

Example

```
>ACL
```

```
ACL> Groups
```

```
Type Port isSrc Address Mask
```

```
-----
```

```
L3 5 true 192.168.16.1 255.255.255.0
```

```
L3 7 false 192.168.16.6 255.255.255.0
```

```
>ACL
```

```
ACL> Groups 5
```

```
Type Port isSrc Address Mask
```

```
-----
```

```
L3 5 true 192.168.16.1 255.255.255.0
```

11.2 ACL DefaultRule

ACL DefaultRule [<port_list>] [<rule> permit|deny]

Parameters

none :

Description

Set default rule with switch port

11.3 ACL AddIpIngress

ACL AddIpIngress [<port_list>] [<index> 1~7] [<source> enable|disable] [<ip address>] [<ip mask>] [<rule> permit|deny]

Parameters

None:

Description

Set IP with Ingress rule with switch port

11.4 ACL AddIpEgressDeny

ACL AddIpEgressDeny [<port_list>] [<index> 1~7] [<ip address>] [<ip mask>]

Parameters

None:

Description

Set IP with Egress rule with switch port

11.5 ACL Add Mac

```
ACL AddMac [<port_list>] [<index> 1~7 ] [<source> enable|disable] [<mac address>] [<mac mask>] [<rule> permit|deny]
```

Parameters

None:

<port_list>: choose dedicated port.

<source> :managed source of ACL

[enable|disable]: disable or enable ACL function

Description

Display or add MAC address in ACL list.

Example

```
>ACL
```

```
ACL> AddMac
```

```
Type Port isSrc Address Mask
```

L2 6 true 3D:ED:2F:BC:21:44 ff:ff:ff:fe:00:00

>ACL

ACL> AddMac 8 disable 24:7C:AB:24:12:FB ff:ff:ff:fe:00:00

Type Port isSrc Address Mask

L2 6 true 3D:ED:2F:BC:21:44 ff:ff:ff:fe:00:00

L2 8 false 24:7C:AB:24:12:FB ff:ff:ff:fe:00:00

11.5 ACL Delete

ACL Delete [<port_list>] [<index> 1~7]

Parameters

None:

Description

12.1 SNMP Community Strings Add

```
snmp
Available Commands:
SNMP CommunityStringsAdd <String> [<readonly> enable|disable]
SNMP CommunityStringsDelete <String>
SNMP ResponseLocale [<String> utf8 | euckr | big5 | gbk | sjis]
SNMP TrapManagerAdd <Ipaddress> <Community> [<trap version> v1|v2c]
SNMP TrapManagerDelete <Ipaddress>
SNMP V3UserAdd <Name> [<security_level> noauth_nopriv|auth_nopriv|auth_priv] [<auth_protocol>md5|sha] <auth_passwod> [<priv_protocol>des|aes] <priv_password>
SNMP V3UserDelete <Name>
```

SNMP CommunityStringsAdd <String> [<readonly> enable|disable]

Parameters

None: display SNMP information

<String>: content of community string

Description

Display or add the community string of SNMP

Example

>SNMP

SNMP>CommunityStringsAdd

String ReadOnly

public true

private false

>SNMP

SNMP>CommunityStringsAdd test enable

String ReadOnly

public true

private false

test true

12.2 SNMP Community Strings Delete

SNMP CommunityStringsDelete <String>

Parameters

None: display SNMP information

<String>: content of community string

Description

Display or delete the community string of SNMP

Example

```
>SNMP
```

```
SNMP>CommunityStringsDelete
```

```
String ReadOnly
```

```
-----
```

```
public true
```

```
private false
```

```
test true
```

```
>SNMP
```

```
SNMP>CommunityStringsDelete test
```

```
String ReadOnly
```

```
-----
```

```
public true
```

private false

12.3 SNMP ResponseLocale

SNMP ResponseLocale [<String> utf8 | euckr | big5 | gbk | sjis]

Parameters

None:

Description

Set code of SNMP string

12.4 SNMP Trap Manager Add

SNMP TrapManagerAdd <Ipaddress> <Community> [<trap version> v1|v2c]

Parameters

None: display the information of SNMP TRAP

<Ipaddress>: IP address of SNMP Trap

<Community>: community string of SNMP Trap

[v1|v2c]: V1 or V2c version

Description

Display of add the SNMP TRAP

Example

>SNMP

SNMP>TrapManagerAdd

Ipaddress Community Version

192.168.16.24 public v2c

>SNMP

SNMP>TrapManagerAdd 192.168.16.23 private v2c

Ipaddress Community Version

192.168.16.24 public v2c

192.168.16.23 private v2c

12.5 SNMP Trap Manager Delete

SNMP TrapManagerDelete <Ipaddress>

Parameters

None: display the information of SNMP TRAP

<Ipaddress>: IP address of SNMP Trap

Description

Display of delete the SNMP TRAP

Example

>SNMP

SNMP>TrapManagerDelete

Ipaddress Community Version

192.168.16.24 private v2c

192.168.16.23 private v2c

>SNMP

SNMP>TrapManagerDelete 192.168.16.24

Ipaddress Community Version

192.168.16.23 private v2c

12.6 SNMP V3 User Add

SNMP V3UserAdd <Name> [<security_level>

noauth_nopriv|auth_nopriv|auth_priv] [<auth_protocol>md5] <auth_passwod>

[<priv_protocol>des] <priv_password>

Parameters

None: display the user information of SNMP V3

<Name>: user name

noauth_nopriv: No auth and no privacy

auth_nopriv: only auth

auth_priv: only privacy

<auth_protocol>: protocol of auth

<auth_passwod>: password of Auth

<priv_protocol>: protocol of privacy

<priv_password

Description

Display or manage the SNMP V3 user account

Example

>SNMP

SNMP>V3UserAdd

name security_level auth_protocol

admin1 auth_priv md5

auth_password priv_protocol priv_password

123 des 123

>SNMP

SNMP>V3UserAdd admin2 auth_nopriv md5 111

name security_level auth_protocol

admin1 auth_priv md5

admin2 auth_nopriv md5

auth_password priv_protocol priv_password

123 des 123

111

12.7 SNMP V3 User Delete

SNMP V3UserDelete <Name>

Parameters

Parameters ParametersDescription

None: display the user information of SNMP V3

<Name>: name of V3User

Description

Display or delete the SNMP V3 user account

Example

>SNMP

SNMP>V3UserDelete

name security_level auth_protocol

admin1 auth_priv md5

admin2 auth_nopriv md5

auth_password priv_protocol priv_password

123 des 123

>SNMP

SNMP>V3UserDelete admin1

name security_level auth_protocol

admin2 auth_nopriv md5

auth_password priv_protocol priv_password

13.1 MVR Groups

```
mvr
Available Commands:
MVR Groups [<vid>]
MVR Add [<vid>] [<address string>] [<port_list>]
MVR Delete [<vid>] [<address string>] [<port_list>]
```

MVR Groups [<vid>]

Parameters

<vid> ID of VLAN.

Description

Display MVR group of dedicated VLAN.

Example

>MVR

MVR>Groups

VID Group Ports

1 192.168.16.23 1,2,3

13.2 MVR Add

MVR Add [<vid>] [<address string>] [<port_list>]

Parameters

[<vid>]: ID of VLAN

[<address string>]:Multicast address

[<port_list>]: dedicated port

Description

Display or add MVR group of dedicated VLAN.

Example

>MVR

MVR>Add

VID Group Ports

1 192.168.16.24 1,2

>MVR

MVR>Add 1 192.168.16.23 1,2

VID Group Ports

1 192.168.16.24 1,2

1 192.168.16.23 1,2

13.3 MVR Delete

MVR Delete [<vid>] [<address string>] [<port_list>]

Parameters

[<vid>]: ID of VLAN

[<address string>]: Multicast address

[<port_list>]: dedicated port

Description

Display or delete MVR group of dedicated VLAN.

Example

>MVR

MVR>Delete

VID Group Ports

1 192.168.16.24 1,2

1 192.168.16.23 1,2

:

>MVR

MVR>Delete 1 192.168.16.24 1,2

VID Group Ports

1 192.168.16.23 1,2

14.1 MSTP Configuration

```

>mstp
Available Commands:
MSTP Configuration
MSTP Mode [STP|RSTP|MSTP]
MSTP ForwardDelay [<forward_delay> 4-30]
MSTP MaxAge [<max_age> 6-40]
MSTP MaxHops [<max_hops> 6-40]
MSTP Revision [<Revision> 0-65535]
MSTP Name [<Name>]
MSTP CistPortConfiguration [<port_list>]
MSTP CistPortPriority [<port_list>] [<priority> 0,240(16x)]
MSTP CistPortPathCost [<port_list>] [<path_cost> 0-200000000 (0=auto)]
MSTP CistPortStpEnabled [<port_list>] [enable|disable]
MSTP CistPortEdge [<port_list>] [forceEnabled|forceDisabled|auto]
MSTP CistPortP2P [<port_list>] [forceEnabled|forceDisabled|auto]
MSTP CistPriority [<cist_priority> 0-61440(4096x)]
MSTP MstiPortConfiguration [<msti_no> 1-8] [<port_list>]
MSTP MstiEnabled [<msti_no> 1-8] [enable|disable]
MSTP MstiPriority [<msti_no> 1-8] [<msti_priority> 0-61440(4096x)]
MSTP MstiMapping [<msti_no> 1-8] [<vlan_list> 1-4094]
MSTP MstiPortPriority [<msti_no> 1-8] [<port_list>] [<port_priority> 0,240(16x)]
MSTP MstiPortPathCost [<msti_no> 1-8] [<port_list>] [<path_cost> 0-200000000 (0=auto)]
MSTP CISTStatus [<port_list>]
MSTP MstiStatus [<msti_no> 1-8] [<port_list>]

```

MSTP Configuration

Parameters

none

Description

Display the configuration of MSTP.

Example

```
>MSTP
```

```
MSTP>Configuration
```

Mode : MSTP

Name : REGION1

Revision : 0

MaxAge : 20

ForwardDelay : 15

MaxHops : 20

14.2 MSTP Mode

Mode [STP|RSTP|MSTP]

Parameters

STP: STP mode

RSTP: RSTP mode

MSTP: MSTP mode

Description

Display or modify the mode of MSTP

Example

```
>MSTP
```

```
MSTP>Mode
```

```
Mode : MSTP
```

```
>MSTP
```

```
MSTP>Mode STP
```

```
Mode : STP
```

14.3 MSTP Forward Delay

MSTP ForwardDelay [<forward_delay> 4-30]

Parameters

Parameters	ParametersDescription
------------	-----------------------

None	display the forward delay time of MSTP(default 15 seconds)
------	--

Description

display or change the forward delay time of RSTP

Example

```
>MSTP
```

```
MSTP>ForwardDelay
```

```
ForwardDelay : 15
```

```
>MSTP
```

```
MSTP>ForwardDelay 30
```

```
ForwardDelay : 30
```

14.4 MSTP Max Age

MSPT MaxAge [<max_age> 6-40]

Parameters

None: display the MAX. aging time of MSTP(default 20 seconds)

Description

Display or change the MAX. aging time of MSTP

Example

```
>MSTP
```

```
MSTP>MaxAge
```

```
MaxAge : 20
```

```
>MSTP
```

```
MSTP>MaxAge 30
```

```
MaxAge : 30
```

14.5 MSTP Max Hops

```
MSTP MaxHops [<max_hops> 6-40]
```

Parameters

Parameters	Parameters	Description
------------	------------	-------------

None:	display the MAX. number of HOP(default 20)
-------	--

Description

Display or change the MAX. number of HOP.

Example

>MSTP

MSTP>MaxHops

MaxHops : 20

>MSTP

MSTP>MaxHops 30

MaxHops : 30

14.6 MSTP Revision

MSTP Revision [<Revision> 0-65535]

Parameters

None: display the revision number of MSTP(default 0)。

Description

display or fix the revision number of MSTP(default 0)。

Example

>MSTP

MSTP>Revision

revision : 0

>MSTP

MSTP>Revision 2

revision : 2

14.7 MSTP Name

MSTP Name [<Name>]

Parameters

Parameters	Parameters	Description
None		display the name of MSTP
<Name>		MSTP name.

Description

Display of modify the name of MSTP

Example

```
>MSTP
```

```
MSTP>Name
```

```
Name : REGION1
```

```
>MSTP
```

```
MSTP>Name TEST1
```

```
Name : TEST1
```

14.8 MSTP Cist Port Configuration

MSTP CistPortConfiguration [<port_list>]

Parameters

None: display the CIST information

[<port_list>] choose dedicated port

Description

Display or modify the setting of Common Internal Spanning Tree.

Example

```
>MSTP
```

```
MSTP>CistPortConfiguration
```

```
Port STP Enabled Priority Path Cost Edge Mode P2P Mode
```

```
-----
```

```
1 false 128 0 auto forceEnabled
```

```
2 false 128 0 auto forceEnabled
```

```
3 false 128 0 auto forceEnabled
```

```
4 false 128 0 auto forceEnabled
```

```
5 false 128 0 auto forceEnabled
```

```
6 false 128 0 auto forceEnabled
```

```
7 false 128 0 auto forceEnabled
```

```
8 false 128 0 auto forceEnabled
```

9 false 128 0 auto forceEnabled

10 false 128 0 auto forceEnabled

11 false 128 0 auto forceEnabled

12 false 128 0 auto forceEnabled

>MSTP

MSTP>CistPortConfiguration 2

Port STP Enabled Priority Path Cost Edge Mode P2P Mode

2 false 128 0 auto forceEnabled

14.9 MSTP Cist Port Priority

MSTP CistPortPriority [<port_list>] [<priority> 0,240(16x)]

Parameters

None: display the priority of Common Internal Spanning Tree

[<port_list>]: choose dedicated port

<priority>:priority of CIST(default 128)

Description

Display or modify the priority of Common Internal Spanning Tree.

Example

>MSTP

MSTP>CistPortPriority

Port Priority

1 128

2 128

3 128

4 128

5 128

6 128

7 128

8 128

9 128

10 128

11 128

12 128

>MSTP

MSTP>CistPortPriority 2

Port Priority

2 128

14.10 MSTP Cist Port Path Cost

MSTP CistPortPathCost [<port_list>] [<path_cost> 0-200000000 (0=auto)]

Parameters

None: display the path cost of Common Internal Spanning Tree Port(值<port_list>: choose dedicated port

<path_cost>: path cost of MSTP(0=auto)

Example

>MSTP

MSTP>CistPortPathCost

Port Path Cost

1 0

2 0

3 0

4 0

5 0

6 0

7 0

8 0

9 0

10 0

11 0

12 0

>MSTP

MSTP>CistPortPathCost 2

Port Path Cost

2 0

>MSTP

MSTP>CistPortPathCost 2 100

Port Path Cost

2 100

14.11 MSTP Cist Port Stp Enabled

MSTP CistPortStpEnabled [<port_list>] [enable|disable]

Parameters

None: display the status of CIST

<port_list>: choose dedicated port

enable|disable: enable or disable CIST

Description

Display or modify the MSTP status of Common Internal Spanning Tree Po

Example

```
>MSTP
```

```
MSTP>CistPortStpEnabled
```

```
Port STP Enabled
```

```
-----
```

```
1 false
```

```
2 false
```

```
3 false
```

```
4 false
```

```
5 false
```

```
6 false
```

```
7 false
```

```
8 false
```

```
9 false
```

```
10 false
```

```
11 false
```

```
12 false
```

```
>MSTP
```

```
MSTP>CistPortStpEnabled 2
```

```
Port STP Enabled
```

2 false

>MSTP

MSTP>CistPortStpEnabled 2 enable

Port STP Enabled

2 true

14.12 MSTP Cist Port Edge

MSTP CistPortEdge [<port_list>] [forceEnabled|forceDisabled|auto]

Parameters

None: Display the status of port edge

[<port_list>]: choose dedicated port

[forceEnabled|forceDisabled|auto]: set force mode

Description

Display or modify the status of portedge

Example

>MSTP

MSTP>CistPortEdge

Port Edge Mode

1 auto

2 auto

3 auto

4 auto

5 auto

6 auto

7 auto

8 auto

9 auto

10 auto

11 auto

12 auto

>MSTP

MSTP>CistPortEdge 2

Port Edge Mode

2 auto

>MSTP

MSTP>CistPortEdge 2 forceEnabled

Port Edge Mode

2 forceEnabled

14.13 MSTP Cist Port P2P

MSTP CistPortP2P [<port_list>] [forceEnabled|forceDisabled|auto]

Parameters

None: display the P2P status

[<port_list>]

[forceEnabled|forceDisabled|auto] set force mode

Description

Display or modify the P2P status.

Example

>MSTP

MSTP>CistPortP2P

Port Point2point

1 forceEnabled

2 forceEnabled

3 forceEnabled

4 forceEnabled

5 forceEnabled

6 forceEnabled

7 forceEnabled

8 forceEnabled

9 forceEnabled

10 forceEnabled

11 forceEnabled

12 forceEnabled

>MSTP

MSTP>CistPortP2P 2

Port Point2point

2 forceEnabled

>MSTP

MSTP>CistPortP2P 2 forceDisabled

Port Point2point

2 forceDisabled

14.14 MSTP CistPriority

MSTP CistPriority [<cist_priority> 0-61440(4096x)]

Parameters

None: display the status of CIST Priority。

<cist_priority> 0-61400 (default 32768) ,

Description

Display or modify the CIST Priority

Example

```
>MSTP
```

```
MSTP>CistPriority
```

```
CIST Priority: 32768
```

```
:
```

```
>MSTP
```

```
MSTP>CistPriority 10000
```

```
CIST Priority: 10000
```

14.15 MSTP Msti Port Configuration

```
MSTP MstiPortConfiguration [<msti_no> 1-8] [<port_list>]
```

Parameters

None: Display MSTI status

<msti_no>: MSTI number

<port_list>:choose dedicated port

Msti : MST Region

Description

Display or modify the MSTI status

Example

```
>MSTP
```

```
MSTP>MstiPortConfiguration
```

MSTI Port Path Cost Priority

1 1 0 128

1 2 0 128

1 3 0 128

. . . .

. . . .

8 10 0 128

8 11 0 128

8 12 0 128

```
>MSTP
```

```
MSTP>MstiPortConfiguration 2
```

MSTI Port Path Cost Priority

2 1 0 128

2 2 0 128

2 3 0 128

2 4 0 128

2 5 0 128

2 6 0 128

2 7 0 128

2 8 0 128

2 9 0 128

2 10 0 128

2 11 0 128

2 12 0 128

>MSTP

MSTP>MstiPortConfiguration 2 2

MSTI Port Path Cost Priority

2 2 0 128

14.16 MSTP Msti Enabled

MSTP MstiEnabled [<msti_no> 1-8] [enable|disable]

Parameters

None: display MSTI status

[<msti_no> 1-8] MSTI number

[enable|disable] enable or disable MSTI number

Description

Display or modify MSTI status

Example

```
>MSTP
```

```
MSTP>MstiEnabled
```

```
MSTI Enabled
```

```
-----
```

```
1 false
```

```
2 false
```

```
3 false
```

```
4 false
```

```
5 false
```

```
6 false
```

```
7 false
```

```
8 false
```

```
>MSTP
```

```
MSTP>MstiEnabled 2
```

MSTI Enabled

2 false

>MSTP

MSTP>MstiEnabled 2 enable

MSTI Enabled

2 true

14.17 MSTP Msti Priority

MSTP MstiPriority [<msti_no> 1-8] [<msti_priority> 0-61440(4096x)]

Parameters

Parameters	Parameters	Description
------------	------------	-------------

None:	Display the MSTI priority.
-------	----------------------------

<msti_no>:	MSTI number
------------	-------------

<msti_priority>:	MSTI priority(default 32768)
------------------	------------------------------

Description

Display or modify MSTI priority.

Example

>MSTP

MSTP>Priority

MSTI Priority

1 32768

2 32768

3 32768

4 32768

5 32768

6 32768

7 32768

8 32768

>MSTP

MSTP>Priority 2

MSTI Priority

2 32768

>MSTP

MSTP>Priority 2 0

MSTI Priority

2 0

14.18 MSTP Msti Mapping

MSTP MstiMapping [<msti_no> 1-8] [<vlan_list> 1-4094]

Parameters

None: display the mapped VLAN of MSTI

<msti_no>: MSTI number

<vlan_list>: mapped VLAN

Description

Display or modify the mapped VLAN of MSTI

Example

>MSTP

MSTP>MstiMapping

MSTI VLAN Mapping

1 3

2 4,5

3 1,2

4

5

6

7

8

Vlan :

>MSTP

MSTP>MstiMapping 2

MSTI VLAN Mapping

2 4,5

>MSTP

MSTP>MstiMapping 2 8

MSTI VLAN Mapping

2 8

14.19 MSTP Msti Port Priority

MSTP MstiPortPriority [<msti_no> 1-8] [<port_list>] [<port_priority>

0,240(16x)]

Parameters

None: display the port priority of MSTI

<msti_no>: MSTI number

<msti_priority>: priority of MSTI(default 128)

Description

Display or modify the port priority of MSTI

Example

```
>MSTP
```

```
MSTP>MstiPortPriority
```

```
MSTI Port Priority
```

```
-----
```

```
1 1 128
```

```
1 2 128
```

```
1 3 128
```

```
. .
```

```
. .
```

```
8 11 128
```

```
8 12 128
```

```
>MSTP
```

```
MSTP>MstiPortPriority 2
```

```
MSTI Port Priority
```

```
-----
```

2 1 128

171

2 2 128

2 3 128

2 4 128

2 5 128

2 6 128

2 7 128

2 8 128

2 9 128

2 10 128

2 11 128

2 12 128

>MSTP

MSTP>MstiPortPriority 2 3

MSTI Port Priority

2 3 128

>MSTP

MSTP>MstiPortPriority 2 3 160

14.20 MSTP Msti Port Path Cost

MSTP MstiPortPathCost [<msti_no> 1-8] [<port_list>] [<path_cost>
0-2000000000 (0=auto)]

Parameters

Parameters	ParametersDescription
------------	-----------------------

none	: display the path cost of MSTI
------	---------------------------------

<msti_no>	MSTI number
-----------	-------------

<port_list>	: choose dedicated port
-------------	-------------------------

<path_cost>	: path cost of MSTI(0 = auto)
-------------	-------------------------------

Example

```
>MSTP
```

```
MSTP>MstiPortPathCost
```

```
MSTI Port PathCost
```

```
-----
```

```
1 1 0
```

```
1 2 0
```

```
. .
```

```
. .
```

```
8 10 0
```


8 11 0

8 12 0

>MSTP

MSTP>MstiPortPathCost 2

MSTI Port PathCost

2 1 0

2 2 0

2 3 0

2 4 0

2 5 0

2 6 0

2 7 0

2 8 0

2 9 0

2 10 0

2 11 0

2 12 0

>MSTP

MSTP>MstiPortPathCost 2 3

MSTI Port PathCost

2 3 0

>MSTP

MSTP>MstiPortPathCost 2 3 100

MSTI Port PathCost

2 3 100

14.21 MSTP CISTStatus

MSTP CISTStatus [<port_list>]

Parameters

None: display the status of CIST

<port_list>: choose dedicated port

Description

Display or modify the CIST status

Example

>MSTP

MSTP>CISTStatus

CIST Bridge STP Status

Bridge Instance : 0

Bridge ID : 32768-286046a004f7

Root ID : 32768-286046a004f7

Root Port : 0

Root Cost : 0

Regional Root : 32768-286046a004f7

Internal Root Cost : 0

Topology Change : false

Topology Change Count: 0

Topology Change Last : 23922

Port Role State Priority Path Cost Edge P2P Uptime

1 Disabled BLOCKING 128 200000000 true false 2230

2 Disabled BLOCKING 128 200000000 true false 2230

3 Disabled DISABLED 128 200000000 true false 2230

4 Disabled DISABLED 128 200000000 true false 2230

5 Disabled DISABLED 128 200000000 true false 2230

6 Disabled DISABLED 128 200000000 true false 2230

7 Disabled DISABLED 128 200000000 true false 2230

8 Disabled DISABLED 128 200000000 true false 2230

9 Disabled DISABLED 128 200000000 true false 2230

10 Disabled DISABLED 128 200000000 true false 2230

11 Disabled DISABLED 128 200000000 true false 2230

12 Disabled DISABLED 128 2000000000 true false 2230

>MSTP

MSTP>CISTStatus 2

CIST Bridge STP Status

Bridge Instance : 0

Bridge ID : 32768-286046a004f7

Root ID : 32768-286046a004f7

Root Port : 0

Root Cost : 0

Regional Root : 32768-286046a004f7

Internal Root Cost : 0

Topology Change : false

Topology Change Count: 0

Topology Change Last : 24405

Port Role State Priority Path Cost Edge P2P Uptime

2 Disabled BLOCKING 128 2000000000 true false 2713

VID Group Ports

14.22 MSTP MSTIStatus

MstiStatus [<msti_no> 1-8] [<port_list>]

Parameters

None:

Description

Display the information of each instance of MSTP

15.1 AGGR Group

```
aggr
Available Commands:
Aggr Group [<group_list>]
Aggr Add <port_list> <group_no>
Aggr Delete <port_list>
Aggr LACP <group_no> [enable|disable]
```

[Aggr Group \[<group_list>\]](#)

Parameters

None: display the status of Aggregating.

<group_list> choose dedicated Group.

Description

Display or modify the group Aggregating status.

Example

>Aggr

Aggr>Group

Group No LACP Enabled Configured Ports Aggregated Ports

1 false 2,3 2,3

2 false none none

3 true 4 none

4 false none none

5 false none none

6 false none none

7 false none none

8 false none none

>Aggr

Aggr>Group 1

Group No LACP Enabled Configured Ports Aggregated Ports

1 false 2,3 2,3

15.2 AGGR Add

Aggr Add <port_list> <group_no>

Parameters

None: display Aggregating status

<port_list>: choose dedicated port

<group_no>: group number

Description

Display or add aggregating port in dedicated Group

Example

>Aggr

Aggr>Add

Group No LACP Enabled Configured Ports Aggregated Ports

1 false 2,3 2,3

2 false none none

3 true 4 none

4 false none none

5 false none none

6 false none none

7 false none none

8 false none none

>Aggr

Aggr>Add 6 2

Group No LACP Enabled Configured Ports Aggregated Ports

1 false 2,3 2,3

2 false 6 6

3 true 4 none

4 false none none

5 false none none

6 false none none

7 false none none

8 false none none

15.3 AGGR Delete

Aggr Delete <port_list>

Parameters

None: display Aggregating status

<port_list> choose dedicated port

Description

Display or delete aggregating port in dedicated Group

Example

>Aggr

Aggr>Delete

Group No LACP Enabled Configured Ports Aggregated Ports

1 false 2,3 2,3

2 false 6 6

3 true 4 none

4 false none none

5 false none none

6 false none none

7 false none none

8 false none none

>Aggr

Aggr>Delete 2,3

Group No LACP Enabled Configured Ports Aggregated Ports

1 false none none

2 false 6 6

3 true 4 none

4 false none none

5 false none none

6 false none none

7 false none none

8 false none none

15.4 AGGR LACP

Aggr LACP <group_no> [enable|disable]

Parameters

none display LACP status

<msti_no>

<port_list>

Description

Display or modify LACP status.

Example

>Aggr

Aggr>LACP

Group.No Port.No LACP_Enable

2 6 false

3 4 true

Partner Port.No(SysID) State Flags(Partner)

0(0-00000000000000) 4f-0

0(0-00000000000000) 4f-0

16.1 dot1x

```
>dot1x
Available Commands:
802.1X Radius [secret] [ip] [port] [identifier]
802.1X Enabled [<port_list>] [enable|disable]
```

802.1X Radius [secret] [ip] [port]

Parameters

none : display the information of Radius Server.

[secret]: secret information of RADIUS server

[ip]: IP address of RADIUS server

[port]: socket port

Description

Display or modify the status of Radius Server

Example

```
>dot1x
```

```
dot1x>Radius
```

```
radius_secret : testing123
```

```
radius_ip : 192.168.12.142
```

```
radius_port : 1812
```

```
>dot1x
```

```
dot1x>Radius test 192.168.16.22 1811
```

```
radius_secret : test
```

```
radius_ip : 192.168.12.22
```

```
radius_port : 1811
```

16.2 dot1x Enabled

802.1X Enabled [<port_list>] [enable|disable]

Parameters

<port_list>: choose dedicated port

enable|disable: enable or disable RADIUS

Description

Display or modify RADIUS with dedicated port.

Example

```
>dot1x
```

dot1x> Enabled

Port Enabled

1 false

2 false

3 false

4 false

5 false

6 false

7 false

8 false

9 false

10 false

11 false

12 false

>dot1x

dot1x> Enabled 6 enable

Port Enabled

1 false

2 false

3 false

4 false

5 false

6 true

7 false

8 false

9 false

10 false

11 false

17.1 RELAY Power Failure

```
>relay
Available Commands:
Relay PowerFailure [<id>] [enable|disable]
Relay PortLinkDown [<port_list>] [enable|disable]
```

Relay PowerFailure [<id> 1-2] [enable|disable]

Parameters

None: display the Relay status

<id>: Relay ID

enable|disable: enable or disable Relay function

Description

Example

>RELAY

RELAY> PowerFailure

Port Enabled

>RELAY

RELAY> PowerFailure 1 enable

PWR1 : true

PWR2 : false

17.2 RELAY Port Link Down

Relay PortLinkDown [<port_list> 1-12] [enable|disable]

Parameters

None: display port link status

<port_list>: choose dedicated port

enable|disable: enable or disable link down alarm

Description

Display or set port link down alarm with Relay.

Example

>RELAY

RELAY> PortLinkDown

Port Enabled

1 false

2 false

3 false

4 false

5 false

6 false

7 false

8 false

9 false

10 false

11 false

12 false

>RELAY

RELAY> PortLinkDown 6 enable

Port Enabled

1 false

2 false

3 false

4 false

5 false

6 true

7 false

8 false

9 false

10 false

11 false

12 false

18.1 IPSEC Configuration

```
>ipsec
Available Commands:
IPSEC Configuration
IPSEC Rule [allow|deny]
IPSEC Service [www_only | telnet_only | ssh_only | www_telnet | www_ssh | telnet_ssh | all | none]
IPSEC Add [<address range> 192.168.16.1/24]
IPSEC Delete [<address range> 192.168.16.1/24]
```

[IPSEC Enabled \[enable|disable\]](#)

Parameters

None: display the status of IP Security

enable|disable: Enable or disable IP Security

Description

Display or Modify the status of IP Security.

Example

[>IPSEC](#)

[IPSEC> Configuration](#)

IP Security rule : allow

WWW enabled : true

Telnet enabled : true

SSH enabled : true

Index IpAddr

18.2 IPSEC Rule

IPSEC Rule [allow|deny]

Parameters

None:

Description

Set the IPSEC rule as allow or deny

18.3 IPSEC Service

IPSEC Service [www_only | telnet_only | ssh_only | www_telnet | www_ssh |

telnet_ssh | all | none]

Parameters

None: display the status of IP security service

www_only: web access only

telnet_only: telnet access only

ssh_only: SSH access only

www_telnet: include the web access and telnet access

www_ssh: include the web access and SSH access

telnet_ssh:include Telnet access and SSH access

all: include all

none: include nothing

Description

Display or modify the access mode which protected by IP security

Example

>IPSEC

IPSEC> Service

WWW enabled : true

Telnet enabled : true

SSH enabled : true

>IPSEC

IPSEC> Service www_only

WWW enabled : false

Telnet enabled : true

SSH enabled : true

18.4 IPSEC Add

IPSEC Add [<address string>]

Parameters

None: display the status of IP Security

<address string> IP Address.

Description

Display or add new IP address in IP Security

Example

```
>IPSEC
```

```
IPSEC> Add
```

```
Index IpAddr
```

```
-----
```

```
1 192.168.16.98
```

```
>IPSEC
```

```
IPSEC> Add 192.168.16.119
```

```
type = ip_security
```

```
get_limit = 10
```

```
Index IpAddr
```

```
-----
```

```
1 192.168.16.98
```

2 192.168.16.119

18.5 IPSEC Delete [<address string>]

IPSEC Delete [<address string>]

Parameters

None: display the status of IP Security

<address string> IP Address.

Description

Display or delete the IP address of IP Security.

Example

>IPSEC

IPSEC> Delete

Index IpAddr

1 192.168.16.98

2 192.168.16.119

>IPSEC

IPSEC> Delete 192.168.16.98

19.1 HW Status

Hw Status

Parameters

none

Description

Display the hardware status.

Example

>HW

HW> Status

CPU Utilization

1 min: 0.00

5 min: 0.00

15 min: 0.00

19.2 HW DDM

Hw DDM

Parameters

none

Description

Display the DDM information

Example

```
>HW
```

```
HW> DDM
```

Port Link Temperature TX Power(uW) RX Power(uW)

```
----- . . . -----
```

```
9 Down 0.0 0 0
```

```
10 Down 0.0 0 0
```

```
11 Down 0.0 0 0
```

```
12 Down 0.0 0 0
```

```
HW>
```

Port Link Low Alarm High Warning High Alarm

```
----- . . . -----
```

```
9 Down 0.0 0.0 0.0
```

```
10 Down 0.0 0.0 0.0
```

```
11 Down 0.0 0.0 0.0
```

```
12 Down 0.0 0.0 0.0
```

```
.
```

20.1 DIDO Enabled Di

```
>dido
Available Commands:
DiDo EnabledDi [<no_list>] [enable|disable]
DiDo EventDescription [<no_list>] [description]
DiDo EnabledDout [<no_list>] [enable|disable]
DiDo InputDi [<no_list>] [lowtohigh | hightolow | both]
DiDo ActionDout [<no_list>] [lowtohigh | hightolow]
```

DiDo EnabledDi [<no_list>] [enable|disable]

Parameters

none : display the status of Digital Input/Output

<no_list>: number of DI/DO

enable|disable: enable or disable DI/DO

Description

Display or modify the status of DI/DO

Example

>DIDO

DIDO> EnabledDi

Di enabled

-- -----

1 false

2 false

>DIDO

DIDO> EnabledDi 1 enable

Di enabled

-- -----

1 true

2 false

20.2 DIDO Event Description

[DiDo EventDescription \[<no_list>\] \[description\]](#)

Parameters

None: display the description of Digital Input/output.

<no_list>: number of DI/DO

Description: description of DI/DO

Description

display or modify the description of Digital Input/output.

Example

[>DIDO](#)

[DIDO> EventDescription](#)

Di description

-- -----

1

2

Description :

>DIDO

DIDO> EventDescription 1 test1

Di description

-- -----

1 test1

2

20.3 DIDO Enabled Dout

DiDo EnabledDout [<no_list>] [enable|disable]

Parameters

None: display the status of Digital Out.

<no_list>: number of DO.

enable|disable: enable or disable DO

Description

Display or modify the DO status.

Example

>DIDO

DIDO> EnabledDout

Dout enabled

1 false

2 false

>DIDO

DIDO> EnabledDout 1 true

Dout enabled

1 true

2 false

20.4 DIDO Input

DiDo Input [<no_list>] [lowtohigh | hightolow | both]

Parameters

None: display the status of Digital Input

<no_list>: number of DI.

enable|disable: enable or disable DI

Description

Display or modify the DI status.

Example

>DIDO

DIDO> Input

Din input

--- -----

1 hightolow

2 lowtohigh

>DIDO

DIDO> Input 1 lowtohigh

Dout input

--- -----

1 lowtohigh

2 both

20.5 DIDO Action

DiDo Action [<no_list>] [lowtohigh | hightolow]

Parameters

None: display the status of Digital Out.

<no_list>: number of DO.

lowtohigh: low voltage to high voltage

hightolow: high voltage to low voltage

Description

Display or modify the DO status.

Example

```
>DIDO
```

```
DIDO> Action
```

Dout action

1 lowtohigh

2 lowtohigh

```
>DIDO
```

```
DIDO> Action 1 hightolow
```

Dout action

1 hightolow

2 lowtohigh

21.1 G8032 Status

```
>g8032
Available Commands:
G8032 Status
G8032 Add <ID> <[enable|disable]> <Role [none|owner|neighbour]> <Type[major|sub]> <RingPort0> <RingPort1> <NodeFailProtection[enable|disable]> <MissConnectionEnabled[enable|disable]> <Control VLAN>
G8032 Delete <ID>
G8032 InternalRing [enable|disable] <RingPort0> <RingPort1>
G8032 CouplingRing [enable|disable] <InternalPort> <ExternalPort>
```

G8032 Status

Parameters

none

Description

Display the ITU-Ring status

Example

>G8032

G8032>Status

ID state RingPort0_blocking RingPort1_blocking

1 state_idle true false

21.2 G8032 Add

G8032 Add <ID>[enable|disable] Role [none|owner|neighbour]

Type[major|sub] Port1 Port2 NodeFailProtection[enable|disable]

Parameters

none : display the ITU-Ring status

[ID]: Ring ID

[enable|disable]: enable or disable ITU-Ring

Role: Owner/Neighbor/none

Type: major or sub

Port1 Port2: Ring port

NodeFailProtection[enable|disable]

G8032 ID: Ring ID

Description

Display or configure the ITU-Ring

21.3 G8032 Delete

[G8032 Delete <ID>](#)

Parameters

none

21.3 G8032 InternalRing

[G8032 InternalRing \[enable|disable\] <RingPort0> <RingPort1>](#)

Parameters

none

21.3 G8032 CouplingRing

G8032 CouplingRing [enable|disable] <InternalPort> <ExternalPort>

Parameters

none

22.1 Log Configuration Display

```
log
Available Commands:
Log ConfigurationShow
Log RecordShow
Log RecordClear
Log Local [enable|disable]
Log SMTPEnabled [enable|disable]
Log SMTPCloudEnabled [enable|disable]
Log SMTPSubject [<string>]
Log SMTPServer [<user>] [<password>] [<host>] [<ssl>] [<port>]
Log SMTPSender [<email>]
Log SMTPReceivers [add | delete] [<email>]
Log SMSEnabled [enable|disable]
Log SMSSenderText [<string>]
Log SMSUser [<user>]
Log SMSPassword [<password>]
Log SMSPhoneNumbers [add | delete] [<phone>]
Log RemoteSettingAdd [<host>ipaddr] [<tag>] [<facility>] [<hostname>]
Log RemoteSettingDelete [<host>]
Log EventBoot [add | delete] [<action> remote | sms | smtp | snmp]
Log EventAuth [add | delete] [<status> success | fail] [<action> remote | sms | smtp | snmp]
Log EventLinkChg [add | delete] [<port>] [<status> up | down] [<action> remote | sms | smtp | snmp | dout] [<dout_no>]
Log EventPower [add | delete] [<id> 1-2] [<status> on | off] [<action> remote | sms | smtp | dout] [<dout_no>]
Log EventDi [add | delete] [<di>] [<action> remote | sms | smtp | dout] [<dout_no>]
Log EventDDM [add | delete] [<action> remote | sms | smtp]
Log EventPOEAPowerChg [add | delete] [<port>] [<status> on | off] [<action> remote | sms | smtp]
Log EventPOEAPingFail [add | delete] [<action> remote | sms | smtp]
Log EventPOEBPingFail [add | delete] [<action> remote | sms | smtp]
Log EventEnvMon [add | delete] [<action> remote | sms | smtp]
Log EventRingTopology [add | delete] [<action> remote | sms | smtp | snmp]
```

Log ConfigurationDisplay

Parameters

none

Description

Display log information

Example

>Log

Log>ConfigurationDisplay

local enabled : true

remotesyslog enabled : true

remotesyslog host : 192.168.16.42

remotesyslog tag : node-event

remotesyslog facility : user

remotesyslog hostname : host

smtp enabled : false

smtp server user : user

smtp server password : password

smtp server host : smtp.gmail.com

smtp server ssl : false

smtp sender : test@gmail.com

smtp receivers :

event remotesyslog boot : false

event smtp boot : false

event remotesyslog auth : false

event smtp auth : false

event remotesyslog ring : false

event smtp ring : false

LinkChgPort RemoteSyslog Sntp SnmpTrap Dout_No Dout_Stats

1 both both both 1 disbale

1 both both both 2 disbale

2 both both both 1 disbale
2 both both both 2 disbale
3 both both both 1 disbale
3 both both both 2 disbale
4 both both both 1 disbale
4 both both both 2 disbale
5 both both both 1 disbale
5 both both both 2 disbale
6 both both both 1 disbale
6 both both both 2 disbale
7 both both both 1 disbale
7 both both both 2 disbale
8 both both both 1 disbale
8 both both both 2 disbale
9 both both both 1 disbale
9 both both both 2 disbale
10 both both both 1 disbale
10 both both both 2 disbale
11 both both both 1 disbale
11 both both both 2 disbale
12 both both both 1 disbale
12 both both both 2 disbale

Di_no RemoteSyslog Sntp SnmpTrap Dout_No Dout_Stats

1 false false false 1 false

1 false false false 2 false

2 false false false 1 false

2 false false false 2 false

Power RemoteSyslog Sntp SnmpTrap Dout_No Dout_Stats

1 false false false 1 false

1 false false false 2 false

2 false false false 1 false

2 false false false 2 false

22.2 Log Record Display

[Log RecordDisplay](#)

Parameters

none

Description

View the event of log

Example

>Log

Log> RecordDisplay

Time Type

Fri, 05 Jul 2013 06:27:44 GMT linkchg

Fri, 05 Jul 2013 06:27:48 GMT linkchg

msg

Phyport(5).linkChg: down

Phyport(1).linkChg: up

22.3 Log Record Clear

Log RecordClear

Parameters

none

Description

Clear the log event

Example

>Log

Log> RecordDisplay

Time Type

msg

22.4 Log Local

[Log Local \[enable|disable\]](#)

Parameters

none

enable|disable: enable or disable local logger

Description

Display or modify the local event logger

Example

[>Log](#)

[Log> Local](#)

Local enabled: false

[>Log](#)

[Log> Local enable](#)

Local enabled: true

22.5 Log SMTP Enabled

Log SMTPEnabled [enable|disable]

Parameters

none display the event trigger with SMTP

enable|disable enable or disable SMTP

Description

Display or modify the event trigger with SMTP

Example

```
>Log
```

```
Log> SMTPEnabled
```

```
smtp enabled: false
```

```
>Log
```

```
Log> SMTPEnabled enable
```

```
smtp enabled: true
```

22.6 Log SMTP Server

Log SMTPServer [<user>] [<password>] [<host>] [<ssl>] [<port>]

Parameters

none : display the status of SMTP client

<user>: user account

<password>: account password

<host>: SMTP server

<ssl>: SSL access

<port>: SMTP socket port

Description

Display of modify the status of SMTP client

Example

>Log

Log> SMTPServer

smtp server user : user

smtp server password : password

smtp server host : smtp.gmail.com

smtp server ssl : false

smtp server port : 25

>Log

Log> SMTPServer test abc123 smtp.gmail.com

smtp server user : test

smtp server password : abc123

smtp server host : smtp.gmail.com

smtp server ssl : false

smtp server port : 25

22.7 Log SMTP Sender

Log SMTPSender[<email>]

Parameters

None: display the email address or sender

<email> E-MAIL address.

Description

Display or modify the email address of sender

Example

>Log

Log> SMTPSender

smtp sender : test@gmail.com

>Log

Log> SMTPSender SMTP-SENDER@gmail.com

smtp sender : SMTP-SENDER@gmail.com

22.8 Log SMTP Receivers

[Log SMTPReceivers \[<email>\]](#)

Parameters

None: display the email address or receiver

<email> E-MAIL address

Description

Display or modify the email address of receiver

Example

[>Log](#)

[Log> SMTPReceivers \[<email>\]](#)

smtp receivers : user1@gmail.com

[>Log](#)

[Log> SMTPReceivers user2@gmail.com](#)

smtp receivers : user1@gmail.com user2@gmail.com

22.9 Log Remote Syslog

[Log RemoteSyslog \[enable|disable\]](#)

Parameters

Parameters ParametersDescription

none : display the status of remote sys logger

enable|disable enable or disable remote sys logger

Description

Display or modify the remote sys logger

Example

>Log

Log> RemoteSyslog

remotesyslog enabled: true

>Log

Log> RemoteSyslog disable

remotesyslog enabled: false

22.10 Log Remote Setting

Log RemoteSetting [<host>]

Parameters

none display the IP address or remote sys logger

<host> IP address of remote sys logger

Description

Display or modify the IP address of remote sys logger

Example

>Log

Log> RemoteSetting

remotesyslog host : 192.168.16.42

>Log

Log> RemoteSetting 192.168.16.123

remotesyslog host : 192.168.16.123

22.11 Log Event Remote Syslog Boot

Log EventRemoteSyslogBoot [enable|disable]

Parameters

None: display the boot event of remote sys logger

enable|disable enable or disable boot event

Description

Display or modify the boot event of remote sys logger

Example

>Log

Log> EventRemoteSyslogBoot

event remotesyslog boot : false

>Log

Log> EventRemoteSyslogBoot enable

event remotesyslog boot : true

22.12 Log Event Sntp Boot

Log EventSntpBoot [enable|disable]

None: display the boot event of SMTP server

enable|disable enable or disable boot event

Description

Display or modify the boot event of SMTP server

Example

>Log

Log> EventSntpBoot

event smtp boot : false

>Log

Log> EventSntpBoot enable

event smtp boot : true

22.13 Log Event Snmp Boot

[Log EventSnmpBoot \[enable|disable\]](#)

Parameters

None: display the boot event of SNMP service

enable|disable enable or disable boot event

Description

Display or modify the boot event of SNMP service

Example

```
>Log
```

```
Log> EventSnmpBoot
```

```
event snmp boot : false
```

```
>Log
```

```
Log> EventSnmpBoot enable
```

```
event snmp boot : true
```

22.14 Log Event Remote Syslog Auth

[Log EventRemoteSyslogAuth \[enable|disable\]](#)

Parameters

None: display the auth event of remote sys logger

enable|disable enable or disable auth event

Description

Display or modify the auth event of remote sys logger

Example

```
>Log
```

```
Log> EventRemoteSyslogAuth
```

```
event remotesyslog auth : false
```

```
>Log
```

```
Log> EventRemoteSyslogAuth enable
```

```
event remotesyslog auth : true
```

22.15 Log Event Smtplib Auth

```
Log EventSmtplibAuth [enable|disable]
```

Parameters

None: display the auth event of SMTP server

enable|disable enable or disable auth event

Description

Display or modify the auth event of SMTP server

Example

>Log

Log> EventSmtAuth

event smtp auth : false

>Log

Log> EventSmtAuth enable

event smtp auth : true

22.16 Log Event Snmp Auth

Log EventSnmpAuth [enable|disable]

None: display the auth event of SNMP service

enable|disable enable or disable auth event

Description

Display or modify the auth event of SNMP service

Example

>Log

Log> EventSnmpAuth

event snmp auth : false

>Log

Log> EventSnmpAuth enable

event snmp auth : true

22.17 Log Event Remote Syslog Ring

Log EventRemoteSyslogRing [enable|disable]

None: display the Ring event of remote sys logger

enable|disable enable or diable Ring event

Description

Display or modify the Ring event of remote sys logger

Example

>Log

Log> EventRemoteSyslogRing

event remotesyslog ring : false

>Log

Log> EventRemoteSyslogRing enable

event remotesyslog ring : true

22.18 Log Event Sntp Ring

Log EventSntpRing [enable|disable]

Parameters

None: display the Ring event of SMTP service

enable|disable enable or disable Ring event

Description

Display or modify the Ring event of SMTP service

Example

```
>Log
```

```
Log> EventSmtpRing
```

```
event smtp ring : false
```

```
>Log
```

```
Log> EventSmtpRing enable
```

```
event smtp ring : true
```

22.19 Log Event Snmp Ring

```
Log EventSnmpRing [enable|disable]
```

Parameters

None: display the Ring event of SNMP service

enable|disable enable or disable Ring event

Description

Display or modify the Ring event of SNMP service

Example

```
>Log
```

```
Log> EventSnmpRing
```

```
event snmp ring : false
```

```
>Log
```

```
Log> EventSnmpRing enable
```

```
event snmp ring : true
```

22.20 Log Event Remote Syslog Power

```
Log EventRemoteSyslogPower [<port_list>] [enable|disable]
```

Parameters

None: display the power event of remote sys logger

enable|disable enable or disable power event

Description

Display or modify the power event of sys logger

Example

```
>Log
```

```
Log> EventRemoteSyslogPower
```

```
Power RemoteSyslog
```

1 false

2 false

>Log

Log> EventRemoteSyslogPower 2

Power RemoteSyslog

2 false

>Log

Log> EventRemoteSyslogPower 2 enable

Power RemoteSyslog

1 false

2 true

22.21 Log Event Sntp Power

Log EventSntpPower [<port_list>] [enable|disable]

Parameters

None: display the power event of SMTP server

enable|disable enable or disable power event

Description

Display or modify the power event of SMTP server

Example

```
>Log
```

```
Log> EventSmtPower
```

```
Power SmtP
```

```
-----
```

```
1 false
```

```
2 false
```

```
>Log
```

```
Log> EventSmtPower 2
```

```
Power SmtP
```

```
-----
```

```
2 false
```

```
>Log
```

```
Log> EventSmtPower 2 enable
```

```
Power SmtP
```

```
-----
```

```
1 false
```

```
2 true
```

22.22 Log Event Dout Power

Log EventDoutPower [<port_list>] [<no_list>] [enable|disable]

Parameters

None: display the power event of DO

enable|disable enable or disable power event

Description

Display or modify the power event of DO

Example

>Log

Log> EventDoutPower

Power Dout_No Dout_Stats

1 1 false

1 2 false

2 1 false

2 2 false

>Log

Log> EventDoutPower 1

Power Dout_No Dout_Stats

1 1 false

1 2 false

>Log

Log> EventDoutPower 1 1

Power Dout_No Dout_Stats

1 1 false

>Log

Log> EventDoutPower 1 1 enable

Power Dout_No Dout_Stats

1 1 true

1 2 false

2 1 false

2 2 false

22.23 Log Event Snmp Power

Log EventSnmpPower [<port_list>] [enable|disable]

Parameters

None: display the power event of SNMP service

enable|disable enable or diable power event

Description

Display or modify the power event of SNMP service

Example

```
>Log
```

```
Log> EventSnmpPower
```

```
Power Snmp
```

```
-----
```

```
1 false
```

```
2 false
```

```
>Log
```

```
Log> EventSnmpPower 1
```

```
Power Snmp
```

```
-----
```

```
1 false
```

```
>Log
```

```
Log> EventSnmpPower 1 enable
```

```
Power Snmp
```

```
-----
```

```
1 true
```

```
2 false
```


22.24 Log Event Remote Syslog Link Chg

Log EventRemoteSyslogLinkChg [<port_list>][disable|both|linkup|linkdown]

Parameters

None: display the link up/down event of remote sys logger

enable|disable enable or disable link up/down event

Description

Display or modify the link up/down event of remote sys logger

Example

>Log

Log> EventRemoteSyslogLinkChg

LinkChgPort RemoteSyslog

1 both

2 both

3 both

4 both

5 both

6 both

7 both

8 both

9 both

10 both

11 both

12 both

>Log

Log> EventRemoteSyslogLinkChg 2

LinkChgPort RemoteSyslog

2 both

>Log

Log> EventRemoteSyslogLinkChg

LinkChgPort RemoteSyslog

1 both

2 linkup

3 both

4 both

5 both

6 both

7 both

8 both

9 both

10 both

11 both

12 both

22.25 Log Event Smtplink Chg

`Log EventSmtplinkChg [<port_list>] [disable|both|linkup|linkdown]`

Parameters

None: display the link up/down event of SMTP server

enable|disable enable or disable link up/down event

Description

Display or modify the link up/down event of SMTP server

Example

`>Log`

`Log> EventSmtplinkChg`

LinkChgPort Smtplink

1 both

2 both

3 both

▪

▪

12 both

>Log

Log> EventSmtplinkChg 1

LinkChgPort Smtplink

1 both

>Log

Log> EventSmtplinkChg 1 linkup

LinkChgPort Smtplink

1 linkup

2 both

3 both

▪

▪

12 both

22.26 Log Event Dout Link Chg

Log EventDoutLinkChg [<port_list>] [<no_list>] [disable|both|linkup|linkdown]

Parameters

None: display the link up/down event of DO

enable|disable enable or disable link up/down event

Description

Display or modify the link up/down event of DO

Example

>Log

Log> EventDoutLinkChg

LinkChgPort Dout_No Dout_Stats

1 1 disabled

1 2 disabled

2 1 disabled

.

.

12 1 disabled

12 2 disabled

>Log

Log> EventDoutLinkChg 2

LinkChgPort Dout_No Dout_Stats

2 1 disabled

2 2 disabled

>Log

Log> EventDoutLinkChg 2

LinkChgPort Dout_No Dout_Stats

2 1 disabled

>Log

Log> EventDoutLinkChg 2 both

LinkChgPort Dout_No Dout_Stats

1 1 disabled

1 2 disabled

2 1 both

.

.

12 1 disabled

22.27 Log Event Snmp Link Chg

Log EventSnmpLinkChg [<port_list>] [disable|both|linkup|linkdown]

Parameters

None: display the link up/down event of SNMP service

enable|disable enable or disable link up/down event

Description

Display or modify the link up/down event of SNMP service

Example

>Log

Log> EventSnmpLinkChg

LinkChgPort Snmp

1 both

2 both

3 both

.

.

12 both

>Log

Log> EventSnmpLinkChg 1

LinkChgPort Snmp

1 both

>Log

Log> EventSnmpLinkChg 1 linkup

LinkChgPort Snmp

1 linkup

2 both

3 both

.

.

12 both

22.28 Log Event Remote Syslog Di

Log EventRemoteSyslogDi [<no_list>] [enable|disable]

Parameters

None: display the DI event of remote sys logger

enable|disable enable or diable DI event

Description

Display or modify the DI event of remote sys logger

Example

>Log

Log> EventRemoteSyslogDi

Di RemoteSyslog

1 false

2 false

>Log

Log> EventRemoteSyslogDi 2

Di RemoteSyslog

2 false

>Log

Log> EventRemoteSyslogDi 2 enable

Di RemoteSyslog

1 false

2 true

22.29 Log Event Smtп Di

[Log EventSmtпDi \[<no_list>\] \[enable|disable\]](#)

Parameters

None: display the DI event of SMTP server

enable|disable enable or disable DI event

Description

Display or modify the DI event of SMTP server

Example

Example

[>Log](#)

[Log> EventSmtпDi](#)

Di Smtп

1 false

2 false

[>Log](#)

[Log> EventSmtпDi 1](#)

Di Sntp

1 false

>Log

Log> EventSntpDi 1 enable

Di Sntp

1 true

2 false

22.30 Log Event Snmp Di

Log EventSnmpDi [<no_list>] [enable|disable]

Parameters

None: display the DI event of SNMP service

enable|disable enable or disable DI event

Description

Display or modify the DI event of SNMP service

Example

>Log

Log> EventSnmpDi

Di Snmp

1 false

2 false

>Log

Log> EventSnmpDi 1

Di Snmp

1 false

>Log

Log> EventSnmpDi 1 enable

Di Snmp

1 true

2 false

22.31 Log Event Dout Di

Log EventDoutDiEventDoutDi [<no_list>] [<no_list>] [enable|disable]

Parameters

None: display the DI event of DO

enable|disable enable or diable DI event

Description

Display or modify the DI event of DO

Example

>Log

Log> EventDoutDi

Di Dout_No Dout_Stats

1 1 false

1 2 false

2 1 false

2 2 false

>Log

Log> EventDoutDi 1

Di Dout_No Dout_Stats

1 1 false

1 2 false

>Log

Log> EventDoutDi 1 2

254

Di Dout_No Dout_Stats

1 2 false

>Log

Log> EventDoutDi 1 2 enable

Di Dout_No Dout_Stats

1 1 false

1 2 true

2 1 false

2 2 false

23.1 Qos Policy Weighted Scheme

```
>qos
Available Commands:
Qos PolicyWeightedScheme [enable|disable]
Qos PolicyType [disabled | cos | tos_only | tos_first | port | vlan]
Qos WeightedRR [<queue_list> 0-7] [ratio 1-7 ]
Qos PortBasedPriority [<port_list>] [level 0-7 ]
Qos Cos [<priority_list> 0-7 ] [level 0-7 ]
Qos Tos [<priority_list> 0-63 ] [level 0-7 ]
Qos VlanAdd [<index> 1-7][<vid>] [level 0-7 ]
Qos VlanDelete [<index> 1-7]
```

[Qos PolicyWeightedScheme \[enable|disable\]](#)

Parameters

[enable|disable] enable or disable the QoS

Description

Enable or disable the Qos

255

Example

[>Qos](#)

[Qos>PolicyWeightedScheme enable](#)

Policy Scheme: true

23.2 Qos PolicyType

[Qos PolicyType \[disabled | cos_only | tos_only | cos_first |](#)

tos_first]

Parameters

none : display QoS policy

disabled: disable QoS Polict

cos_only: CoS priority

tos_only: ToS priority

cos_first: CoS at first

tos_first: ToS at first

Description

Set the priority of QoS

Example

>Qos

Qos>PolicyType cos_only

Policy Type: cos_only

24.1 POEA Status

POE Status

Parameters

none

Description

Display the information of PoE

Example

```
>POEA
```

```
POEA> Status
```

```
PoE system status
```

```
Mode: max
```

```
Maximum Power Available: 250 (W)
```

```
Vmain Boundary: 44 ~ 57 (V)
```

```
Vmain: 47.9 (V)
```

```
Imain: 0.605 (A)
```

```
Actual Power Consumption: 29 (W)
```

```
Port Link POE Enabled Priority Status
```

```
-----
```

```
1 Down true low On(1)
```

```
2 Down true low Detecting(27)
```

```
3 Down true low Detecting(27)
```

```
4 Down true low Detecting(27)
```

```
5 Down true low On(1)
```

6 Up true low Detecting(27)

7 Down true low Detecting(27)

8 Down true low Detecting(27)

Class Consumption(W) Current(mA) Voltage(V)

0 5 97 51.5

none 0 0 0

none 0 0 0

none 0 0 0

4 24.3 507 47.9

none 0 0 0

none 0 0 0

none 0 0 0

24.2 POEA Configuration

[POEA Configuration \[<port_list>\]](#)

Parameters

none : display the configuration of PoE

<port_list> choose dedicated PoE port

Description

display the configuration of PoE

Example

>POEA

POEA> Configuration

Port POE Enabled Priority Power Limit (mW)

1 true low 36000

2 true low 36000

3 true low 36000

4 true low 36000

5 true low 36000

6 true low 36000

7 true low 36000

8 true low 36000

>POEA

POEA> Configuration 2

Port POE Enabled Priority Power Limit (mW)

2 true low 36000

24.3 POEA Budget

POEA Budget [0-360(W)]

Parameters

None: display PoE budget(Default 250W)

Description

Display or modify the PoE budget.

Example

```
>POEA
```

```
POEA> Budget
```

Maximum Power Available: 250 (W)

```
>POEA
```

```
POEA> Budget 300
```

Maximum Power Available: 300 (W)

24.4 POEA Enabled

POEA Enabled [<port_list>] [enable|disable]

Parameters

none display the PoE port status

<port_list>: choose the dedicated port.

enable|disable: Enable or disable PoE

Description

Display or modify the PoE function of dedicated port

Example

```
>POEA
```

```
POEA> Enabled
```

```
Port POE Enabled
```

```
-----
```

```
1 true
```

```
2 true
```

```
3 true
```

```
4 true
```

```
5 true
```

```
6 true
```

```
7 true
```

```
8 true
```

```
>POEA
```

```
POEA> Enabled 2
```

```
Port POE Enabled
```

```
-----
```

```
2 true
```

>POEA

POEA> Enabled 2 disable

Port POE Enabled

2 false

24.5 POEA Priority

POEA Priority [<port_list>] [critical|high|low]

Parameters

none : display the PoE priority.

<port_list>: choose dedicated port

critical |high |low : PoE priority

Example

>POEA

POEA> Priority

Port Priority

1 low

2 low

3 low

4 low

5 low

6 low

7 low

8 low

>POEA

POEA> Priority 3

Port Priority

3 low