

HR-AFM-2422GS
Managed PoE Switch
WEB MANUAL

| | |
|--|----|
| 1 Login Web Interface..... | 1 |
| 1.1 Login Network Management Client..... | 1 |
| 2 Administrator..... | 1 |
| 2.1 System Information..... | 2 |
| 2.2 Account/Password..... | 2 |
| 2.3 IP Configuration..... | 2 |
| 2.4 SNMP Settings..... | 3 |
| 2.5 NTP Settings..... | 3 |
| 2.6 syslog Settings..... | 3 |
| 2.7 Configuration..... | 4 |
| 2.8 Load Factory Default..... | 4 |
| 2.9 Firmware Update..... | 5 |
| 2.10 Reboot Device..... | 5 |
| 3 PoE Configuration..... | 5 |
| 3.1 PoE Settings..... | 5 |
| 3.2 PoE Auto Check..... | 6 |
| 3.3 PoE Power Delay..... | 7 |
| 3.4 PoE Scheduling..... | 8 |
| 3.5 PoE Event..... | 9 |
| 4 Basic Configuration..... | 10 |
| 4.1 Port Link State..... | 10 |
| 4.2 Port Mirror Function..... | 11 |
| 4.3 Broadcast Storm Protection..... | 12 |
| 4.4 Bandwidth Control..... | 12 |
| 5 VLAN Configuration..... | 13 |
| 5.1 VLAN Setting..... | 13 |
| 6 QoS Configuration..... | 15 |
| 6.1 QoS Group Member..... | 15 |
| 6.2 QoS Mode Set..... | 16 |
| 6.3 QoS Out Queue Aging..... | 16 |
| 6.4 QoS Remap..... | 17 |
| 6.5 Class of Service..... | 18 |
| 6.6 802.1p Base..... | 18 |
| 6.7 DSCP Base..... | 18 |
| 6.8 TCP/UDP Port Base..... | 19 |
| 7 ACL Configuration..... | 19 |
| 7.1 ACL Profile List..... | 20 |
| 7.2 ACL Ctag Settings..... | 20 |
| 7.3 ACL Stag Settings..... | 20 |
| 7.4 ACL VLAN Settings..... | 21 |
| 7.5 ACL Bandwidth Settings..... | 21 |
| 7.6 ACL DSCP Settings..... | 22 |
| 8 Security..... | 22 |
| 8.1 Port-MAC-IP Port Setting..... | 22 |
| 8.2 Port-MAC-IP Table..... | 23 |
| 8.3 DHCP Snooping Table..... | 23 |
| 8.4 MAC Binding Table..... | 24 |
| 9 Advanced Features..... | 24 |
| 9.1 Spanning Tree Protocol..... | 25 |

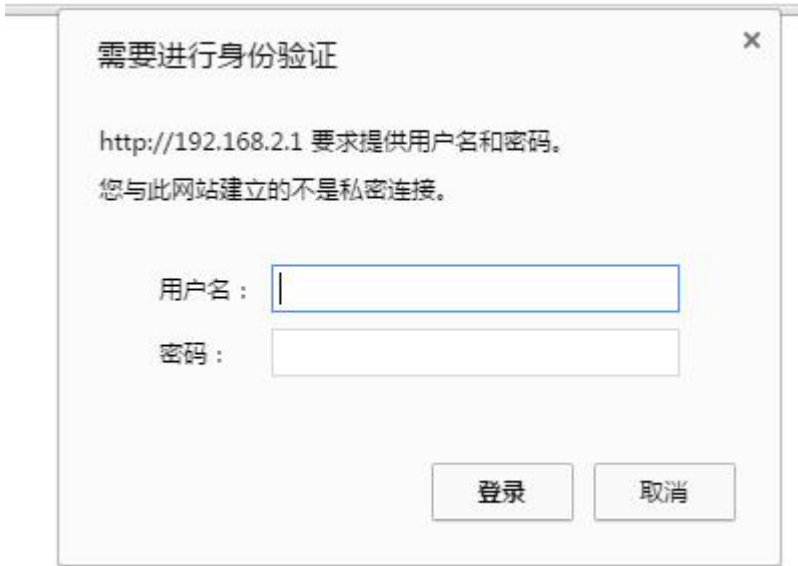
| | |
|--|----|
| 9.1.1 STP Global Settings..... | 25 |
| 9.1.2 STP Port Settings..... | 25 |
| 9.1.3 MST Configuration Identification..... | 26 |
| 9.1.4 STP Instance Settings..... | 26 |
| 9.1.5 MSTP Port Information..... | 26 |
| 9.2 Trunk & Link Aggregation..... | 27 |
| 9.3 IGMP Snooping..... | 27 |
| 9.3.1 IGMP Snooping Settings..... | 27 |
| 9.3.2 IGMP Snooping Router Ports Settings..... | 27 |
| 9.3.3 IGMP Snooping Groups..... | 28 |
| 9.3.4 IGMP Snooping Ports..... | 28 |
| 9.4 MLD Snooping..... | 29 |
| 9.4.1 MLD Snooping Settings..... | 29 |
| 9.4.2 MLD Snooping Router Ports Settings..... | 29 |
| 9.4.3 MLD Snooping Groups..... | 29 |
| 9.4.4 MLD Snooping Ports..... | 30 |
| 9.4 DHCP Relay Agent..... | 30 |
| 9.5 Loop Detect..... | 31 |
| 9.6 GVRP..... | 32 |
| 9.7 Neighbor MACID Settings..... | 32 |
| 9.8 Voice VLAN..... | 33 |
| 9.8.1 Voice VLAN State..... | 33 |
| 9.8.2 Voice VLAN Port Setting..... | 33 |
| 9.8.3 OUI List..... | 34 |
| 9.9 LLDP..... | 34 |
| 9.9.1 LLDP Global Setting..... | 34 |
| 9.9.2 LLDP Port Setting..... | 35 |
| 10 Monitoring..... | 35 |
| 10.1 Mib Counter..... | 35 |
| 10.2 Scan MACID Lookup Table..... | 36 |
| 10.3 LLDP Remote MIB..... | 37 |
| 10.4 Syslog..... | 37 |
| 10.5 CPU Resource Utilization..... | 37 |

1 Login Web Interface

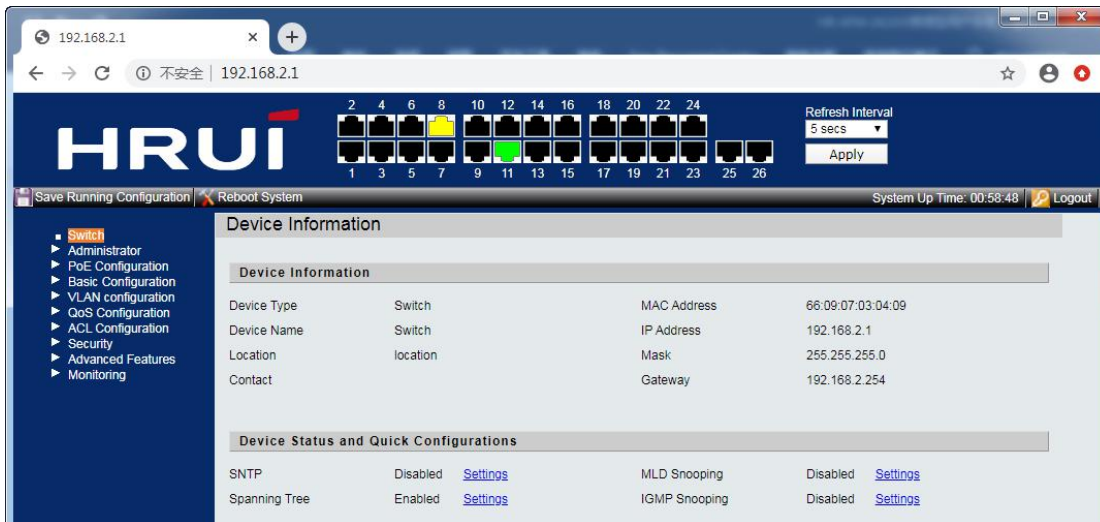
1.1 Login Network Management Client

Users can access the switch through the Web browser, and input the default address of system: `http://192.168.2.1`, press enter button.

As shown below, input the user name: admin and password: admin. Click (Log in) button, you'll see the switch system information.



Login Interface



2 Administrator

2.1 System Information

Users can set the name of the switch, location, contacts.

Operating Steps:

1. Click the "Administrator > System Information" menu in the navigation bar, enter "System Information" interface. As shown in the below figure:



The screenshot shows the "System Information" configuration page. It displays the following fields and values:

| | |
|------------------|---------------------------------------|
| MAC Address | 66:09:07:03:04:09 |
| Serial Number | 12345678901234567890 |
| Device Model | IP1829A-24E4G |
| Firmware Version | v2.14.10 |
| Uptime | 01:14:50 |
| Device Name | <input type="text" value="Switch"/> |
| Comment | <input type="text"/> |
| Location | <input type="text" value="location"/> |
| Contact | <input type="text"/> |

An "Apply" button is located at the bottom right of the form.

2.2 Account/Password

User can set user's name and password.

Operating Steps:

1. Click the "Administrator > Account/Password" menu in the navigation bar, enter "Account/Password" interface. As shown in the below figure:



The screenshot shows the "User Account" configuration page. It displays the following fields and values:

| | |
|------------------|------------------------------------|
| User Name | <input type="text" value="admin"/> |
| Password | <input type="password"/> |
| Confirm Password | <input type="password"/> |

An "Apply" button is located at the bottom right of the form.

2.3 IP Configuration

Users can modify the switch management IPV4 and IPV6 address.

Operating Steps:

1. Click the "Administrator > IP Configuration > IPv4" menu in the navigation bar, enter "IPv4" interface. As shown in the below figure:

IPv4

Static IPv4 Address

IPv4 Address:

Subnet Mask:

Default Gateway:

DNS Server:

DHCPv4

DHCPv4 Enable:

2.4 SNMP Settings

Users can modify the SNMP.

Operating Steps:

1. Click the " Administrator > SNMP Settings > SNMP View Table " menu in the navigation bar, as shown in the below figure:

SNMP View Settings

View Name:

Subtree OID:

View Type:

| View Name | Subtree | Type | Action |
|------------|---------------|----------|---------------------------------------|
| systemview | 1.3.6.1.2.1.1 | included | <input type="button" value="Delete"/> |

2.5 NTP Settings

Users can set NTP time, proofreading the switch time.

Operating Steps:

1. Click the " Administrator > NTP Settings " menu in the navigation bar, as shown in the below figure:

NTP Settings

System Time: 1970/01/01 Thursday, 09:16:44 UTC+0800

State:

Time Zone: UTC + :

Primary Server IP:

Secondary Server IP:

2.6 syslog Settings

Users can set the syslog, to know the switch running.

Operating Steps:

1. Click the " Administrator > Syslog Settings " menu in the navigation bar, as shown in the below

figure:

Syslog Settings

Global Setting

Syslog state Apply

Facility Setting

| Name | State | Facility |
|-------------------|-------------------------------------|----------|
| dhcpd | <input checked="" type="checkbox"/> | local1 ▼ |
| gvrp | <input checked="" type="checkbox"/> | local2 ▼ |
| stp_lacp_d | <input checked="" type="checkbox"/> | local3 ▼ |
| multicast_table_d | <input checked="" type="checkbox"/> | local4 ▼ |
| misc_app | <input checked="" type="checkbox"/> | local5 ▼ |

Apply

Remote Server Setting

| Index | Server Info. | | Priority | | | | | | | |
|-------|--------------|------|----------|--------|--------|--------|--------|--------|--------|--------|
| | IP | port | Loacl0 | Loacl1 | Loacl2 | Loacl3 | Loacl4 | Loacl5 | Loacl6 | Loacl7 |
| 1 | 192.168.2.99 | 514 | 7 ▼ | 7 ▼ | 7 ▼ | 7 ▼ | 7 ▼ | 7 ▼ | 7 ▼ | 7 ▼ |
| 2 | | | --- ▼ | --- ▼ | --- ▼ | --- ▼ | --- ▼ | --- ▼ | --- ▼ | --- ▼ |
| 3 | | | --- ▼ | --- ▼ | --- ▼ | --- ▼ | --- ▼ | --- ▼ | --- ▼ | --- ▼ |
| 4 | | | --- ▼ | --- ▼ | --- ▼ | --- ▼ | --- ▼ | --- ▼ | --- ▼ | --- ▼ |

Apply

2.7 Configuration

Users can do backup and import the configuration file of the switch.

Operating Steps:

1. Click the " Administrator > Configuration > Backup " menu in the navigation bar, as shown in the below figure:

Backup

Click "Apply" to download configuration file Apply

2. Click the " Administrator > Configuration > Restore " menu in the navigation bar, as shown in the below figure:

Recovery

Select File 选择文件 未选择任何文件 Apply

(Note: IP setting is excluded)

2.8 Load Factory Default

Users can restore the factory settings

Operating Steps:

1. Click the "Administrator > Load Factory Default" menu in the navigation bar, enter "Load Factory Default" interface. As shown in the below figure:

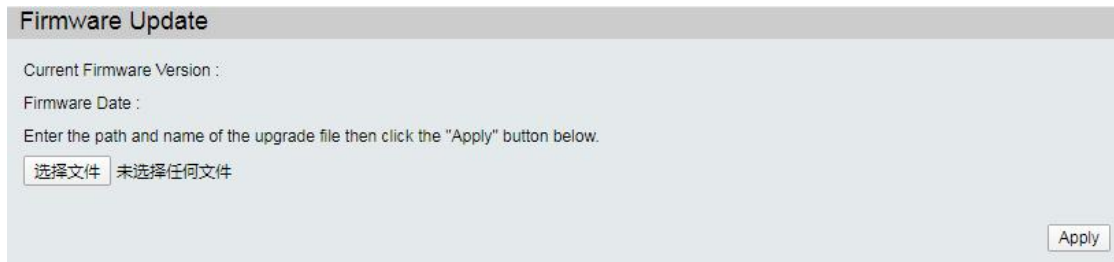


2.9 Firmware Update

Users can upgrade the firmware of the switch

Operating Steps:

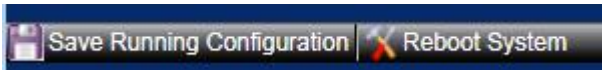
1. Click the "Administrator > Firmware Update" menu in the navigation bar, enter "Firmware Update" interface. As shown in the below figure:



2.10 Reboot Device

Users can restart the switch and save the switch configuration

Operating Interface:



3 PoE Configuration

3.1 PoE Settings

If the network equipment deployment is flexible and requires wiring in a variety of complex environments, the PoE power function of the switch can be used to solve this problem.

1. Click the "PoE Configuration > PoE Settings" menu in the navigation bar, enter "PoE Settings" interface. As shown in the below figure:

PoE Settings

Total available Power Watt (max 864)

| Port Selection | | | | | | | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

State Mode Budget Watt (max 36)

| Total consumption | 10.7 Watt | | | | |
|-------------------|-----------|---------------|-------|--------|--------------------|
| Port | Settings | | | Status | |
| | State | Budget (Watt) | AT/AF | Class | Consumption (Watt) |
| 01 | Enabled | 32 | AT | - | - |
| 02 | Enabled | 32 | AT | - | - |
| 03 | Enabled | 32 | AT | - | - |
| 04 | Enabled | 32 | AT | - | - |
| 05 | Enabled | 32 | AT | - | - |
| 06 | Enabled | 32 | AT | - | - |
| 07 | Enabled | 32 | AT | - | - |

Description of interface:

| Configuration items | Description |
|---------------------|---|
| Max available power | Input maximum power output: Range:0-864 watts. |
| State | The status of the PoE Switch |
| Mode | POE and POE+mode |
| Budget | Maximum power of single port is 36 watts |

- 2.Fill in the corresponding configuration items;
- 3.Click "Apply" to complete the configuration.

3.2 PoE Auto Check

In practical applications, the users may encounter problems such as PD device crashes, temporary failures, etc., such as normal power supply but abnormal data, which are often difficult to find out, cost more time and labor costs; In order to solve these problems more efficiently and accurately, PoE Auto Check supports automatic monitoring of PD working status and flow running status through PING data packets, so as to achieve accurate and effective management without manual intervention, shorten the time of fault detection and recovery, and improve work efficiency.

1.Click the "PoE Configuration > PoE Auto Check" menu in the navigation bar, enter "PoE Auto Check" interface. As shown in the below figure:

PoE AutoCheck

Global Settings

Check every Seconds (10-600) Wake up after Seconds (1-255)

Port Settings

Port: State: IP of device to check:

| Port | State | IP of device to check |
|------|----------|-----------------------|
| 01 | Disabled | - |
| 02 | Disabled | - |
| 03 | Disabled | - |
| 04 | Disabled | - |
| 05 | Disabled | - |
| 06 | Disabled | - |
| 07 | Disabled | - |
| 08 | Disabled | - |

Global Settings

| Configuration items | Description |
|---------------------|---|
| Check | Automatic monitoring of PD interval time, default 60 seconds, range 10-600 seconds |
| Wake up | PoE port power supply automatic restart delay time, default 10 seconds, range 1-255 seconds |

Port Settings

| Configuration Items | Description |
|-----------------------|--|
| Port | PoE Port Selection List |
| State | enable: enable the corresponding PoE port Auto Check function. disable: disable the corresponding PoE port Auto Check function. |
| IP of device to check | IP address of the PD device connected to the PoE port |
| Application | Application configuration |

3.3 PoE Power Delay

1. Click the "POE Configuration > PoE Power Delay" menu in the navigation bar, enter "PoE Power Delay" interface. As shown in the below figure:

PoE Power Delay

| Port Selection | | | | | | | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

State: ----- ▼ Delay: Seconds (max 300)

| Port | State | Delay Time (Seconds) |
|------|----------|----------------------|
| 01 | Disabled | 0 |
| 02 | Disabled | 0 |
| 03 | Disabled | 0 |
| 04 | Disabled | 0 |
| 05 | Disabled | 0 |
| 06 | Disabled | 0 |
| 07 | Disabled | 0 |
| 08 | Disabled | 0 |

Description of interface:

| Configuration items | Description |
|---------------------|--|
| Delay Mode | Individual choice, enable and disable for optional The default is to enable, PoE delay is valid only when configured in the enabled state |
| Delay Time (0~300) | 0-300s |
| Port No. | Support multiple choice |

- 2.Fill in the corresponding configuration items;
- 3.Click “Apply” to complete the configuration.

3.4 PoE Scheduling

1.Click the "POE Configuration >PoE Schedule" menu in the navigation bar, enter “ PoE Schedule” interface. As shown in the below figure:

PoE Schedule

| Port Selection | | | | | | | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Port: 1 State: Disabled change to -----

| All | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Mon <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Tue <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Wed <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Thu <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Fri <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Sat <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Sun <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

Description of interface:

| | |
|---------------------|--|
| Configuration items | Description |
| Schedule on Port | Support multiple choice |
| Schedule Mode | Individual choice, enable and disable for optional |
| Schedule AM/PM | Choose AM/PM |
| Time configuration | The valid time of PoE you can choose |

- 2.Fill in the corresponding configuration items;
- 3.Click “Apply” to complete the configuration.

3.5 PoE Event

1 Click the "POE Configuration > PoE Event" menu in the navigation bar, enter “PoE Event” interface. As shown in the below figure:

PoE Event

| Port NO | E0 | E1 | E2 | E3 | E4 | E5 | E6 | E7 | E8 |
|---------|----|----|----|----|----|----|----|----|----|
| 01 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 02 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 03 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 04 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 06 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |

Refresh Clear

E0:Port Overload (ICUT) Event
 E1:Port Short Circuit Limit (ILIM) Event
 E2:Port MPS Error (DC Disconnect) Event
 E3:Port Thermal Shutdown Event
 E4:Main Power Overload Event
 E5:Port Voltage Limit Event
 E6:Port Temperature Limit Event
 E7:PoE Auto Check Timeout Event
 E8:PoE Schedule Event

4 Basic Configuration

4.1 Port Link State

Users can check the status of configured port

1 Click the "Basic Configuration > Port Link State" menu in the navigation bar. As shown in the below figure:

Port Link State

| Port Selection | | | | | | | | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

State:
 Speed/Duplex:
 Auto Negotiation:
 Flow Control:
 Address Learning:
 Name:

| Port | Settings | | | | Status | | | Name |
|------|----------|--------------|------------|--------------|----------|--------------|--------------|-------|
| | State | Speed/Duplex | Auto Nego. | Flow Control | Learning | Speed/Duplex | Flow Control | |
| 01 | Enabled | 100M Full | Enabled | Enabled | Enabled | ---- | ---- | port1 |
| 02 | Enabled | 100M Full | Enabled | Enabled | Enabled | ---- | ---- | port2 |
| 03 | Enabled | 100M Full | Enabled | Enabled | Enabled | ---- | ---- | port3 |
| 04 | Enabled | 100M Full | Enabled | Enabled | Enabled | ---- | ---- | port4 |
| 05 | Enabled | 100M Full | Enabled | Enabled | Enabled | ---- | ---- | port5 |
| 06 | Enabled | 100M Full | Enabled | Enabled | Enabled | ---- | ---- | port6 |
| 07 | Enabled | 100M Full | Enabled | Enabled | Enabled | ---- | ---- | port7 |
| 08 | Enabled | 100M Full | Enabled | Enabled | Enabled | 100M Full | Pause Frame | port8 |

| Configuration items | Description |
|---------------------|--|
| Tx/Rx Ability | Enable and disable for optional , the default is to enable |
| Auto-Negotiation | Enable and disable for optional , the default is to enable |
| Speed | Ethernet port support 10Mbps/s、100Mbps/s、1000Mbit/s |
| Duplex | The definition of Full-duplex Mode: Full-duplex Mode and Half-duplex Mode, the default is full duplex mode |
| Pause | The state of flow control can be enabled or disabled, the default is enable |
| Backpressure | The state of flow control can be enabled or disabled, the default is enable |
| Address Learning | Enable and disable for optional , the default is to enable |

- 2.Fill in the corresponding configuration items;
- 3.Click “Apply” to complete the configuration.

4.2 Port Mirror Function

Users can check and configure port mirroring

1 Click the "Basic Configuration > Port Mirror Function" menu in the navigation bar. As shown in the below figure:

Port Mirror Function

| Source Port Selection | | | | | | | | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

| Destination Port Selection | | | | | | | | | | | | |
|----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

State: Disable ▾ Method: Both ▾ Apply

4.3 Broadcast Storm Protection

Users can set the storm suppression of the port

1 Click the "Basic Configuration > Broadcast Storm Protection " menu in the navigation bar. As shown in the below figure:

Broadcast Storm Protection

Storm Control Settings

| Type | Threshold (0-255) | Period for (Giga/100/10) |
|-----------------------------|--------------------------------|-----------------------------------|
| Broadcast / Multicast / DLF | <input type="text" value="0"/> | 200us / 2ms / 20ms ▾ |
| ARP | <input type="text" value="0"/> | 200us / 2ms / 20ms ▾ |
| ICMP | <input type="text" value="0"/> | 200us / 2ms / 20ms ▾ |

Apply

Storm Control State

| Port Selection | | | | | | | | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Broadcast: ----- ▾ Multicast: ----- ▾ DLF: ----- ▾ ARP: ----- ▾ ICMP: ----- ▾ Apply

| Port NO | Broadcast | Multicast | DLF | ARP | ICMP |
|---------|-----------|-----------|-----|-----|------|
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |

4.4 Bandwidth Control

Users can set port speed limit

1 Click the "Basic Configuration > Bandwidth Control" menu in the navigation bar. As shown in the below figure:

Bandwidth Control

| Port Selection | | | | | | | | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Ingress Rate (kbps) (1~1000000) Egress Rate (kbps) (1~1000000)

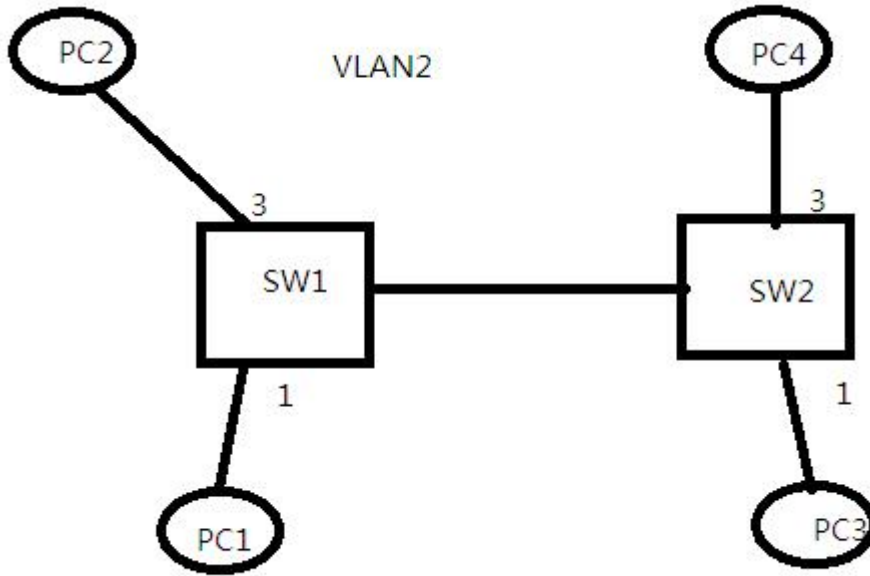
| Port | Ingress Rate (kbps) | Egress Rate (kbps) |
|------|---------------------|--------------------|
| 01 | unlimited | unlimited |
| 02 | unlimited | unlimited |
| 03 | unlimited | unlimited |
| 04 | unlimited | unlimited |
| 05 | unlimited | unlimited |
| 06 | unlimited | unlimited |
| 07 | unlimited | unlimited |
| 08 | unlimited | unlimited |
| 09 | unlimited | unlimited |
| 10 | unlimited | unlimited |

5 VLAN Configuration

5.1 VLAN Setting

Configuration environment

In order to allow the link between Sw1 and Sw2 to support both user communication in VLAN 1 and user communication in VLAN 2, you need to configure the connection interface to join two VLANs at the same



time.

Change VLAN mode

1 Click the " VLAN configuration > VLAN Mode " menu in the navigation bar. As shown in the below figure:

VLAN Mode

| | |
|--------------|--|
| VLAN Mode | <input checked="" type="radio"/> Tag VLAN <input type="radio"/> Group VLAN |
| Tag Method | <input checked="" type="radio"/> by Tag <input type="radio"/> by Port |
| Egress Frame | <input type="checkbox"/> Multicast <input type="checkbox"/> Unicast <input type="checkbox"/> ARP |

Apply

Add vlan2

2 Click the " VLAN configuration > VLAN Tag-based Entry config " menu in the navigation bar. As shown in the below figure:

VLAN Tag-based Entry config

Add

| Name | State | VID | Don't care | Add Tag | Remove Tag | Forbidden | Priority | GVRP forward | Action | |
|----------------|--------|------|------------|---------|------------|-----------|----------|--------------|--------|--------|
| default | static | 1 | 1-26 | 0 | 0 | 0 | 0 | Deny | Edit | Delete |
| protocol_vlan1 | static | 4081 | 1-26 | 0 | 0 | 0 | 0 | Deny | Edit | Delete |
| protocol_vlan2 | static | 4082 | 1-26 | 0 | 0 | 0 | 0 | Deny | Edit | Delete |
| protocol_vlan3 | static | 4083 | 1-26 | 0 | 0 | 0 | 0 | Deny | Edit | Delete |
| protocol_vlan4 | static | 4084 | 1-26 | 0 | 0 | 0 | 0 | Deny | Edit | Delete |
| voice-vlan | static | 4080 | 0 | 0 | 0 | 0 | 0 | Deny | Edit | Delete |
| 2 | static | 2 | 0 | 0 | 3 | 0 | 0 | Deny | Edit | Delete |

Port 1 set to remove, PVID set to 1, Port 3 configured as VLAN2 by default

3 Click the " VLAN configuration > VLAN port config " menu in the navigation bar. As shown in the below figure:

VLAN port config

| Port Selection | | | | | | | | | | | | |
|--------------------------|--------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

PVID:
 Tag:
 Force:
 Uplink:
 Exclusive:
 Egress:
 Ingress-check:
 GVRP:
 Ingress-frame:

| Port | PVID | Tagging | Force VLAN Group | Uplink | Exclusive | Egress | Ingress Check | GVRP | Ingress Frame |
|------|------|---------|------------------|--------|-----------|--------|---------------|------|---------------|
| 1 | 1 | none | | | | | v | | all |
| 2 | 1 | none | | | | | v | | all |
| 3 | 1 | none | | | | | v | | all |
| 4 | 1 | none | | | | | v | | all |
| 5 | 1 | none | | | | | v | | all |
| 6 | 1 | none | | | | | v | | all |
| 7 | 1 | none | | | | | v | | all |
| 8 | 1 | none | | | | | v | | all |

Port 10 set to vlan1、vlan2 with tag

4 Click the " VLAN configuration > VLAN Tag-based Entry config " menu in the navigation bar. As shown in the below figure:

VLAN Tag-based Entry config

| Name | State | VID | Don't care | Add Tag | Remove Tag | Forbidden | Priority | GVRP forward | Action | |
|----------------|--------|------|------------|---------|------------|-----------|----------|--------------|--------|--------|
| default | static | 1 | 1-9,11-26 | 10 | 0 | 0 | 0 | Deny | Edit | Delete |
| protocol_vlan1 | static | 4081 | 1-26 | 0 | 0 | 0 | 0 | Deny | Edit | Delete |
| protocol_vlan2 | static | 4082 | 1-26 | 0 | 0 | 0 | 0 | Deny | Edit | Delete |
| protocol_vlan3 | static | 4083 | 1-26 | 0 | 0 | 0 | 0 | Deny | Edit | Delete |
| protocol_vlan4 | static | 4084 | 1-26 | 0 | 0 | 0 | 0 | Deny | Edit | Delete |
| voice-vlan | static | 4080 | 0 | 0 | 0 | 0 | 0 | Deny | Edit | Delete |
| 2 | static | 2 | 0 | 10 | 3 | 0 | 0 | Deny | Edit | Delete |

5. Verify configuration results

Configure PC1 and PC3 on one network segment, such as 192.168.100.0/24. Configure PC2 and PC4 on a network segment, such as 192.168.200.0/24.

PC1 and PC3 can ping each other, but they cannot ping PC2 and PC4. PC2 and PC4 can ping each other, but they cannot ping PC1 and PC3.

6 QoS Configuration

6.1 QoS Group Member

Check and edit port grouping

1 Click the " QoS Configuration > QoS Group Member " menu in the navigation bar. As shown in the below figure:

QoS Group Member

| Port | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
|------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Group A ^[1] | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> |
| Group B | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Port | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| Group A ^[1] | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> |
| Group B | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

| Group | Member Port |
|-------|-------------|
| A | 1-26 |
| B | 0 |

6.2 QoS Mode Set

1 Click the " QoS Configuration > QoS Mode Set" menu in the navigation bar. As shown in the below figure:

QoS Mode Set

| Group | Queue Mode ^[2] | Queue Method | Queue Ratio | Queue Max Bandwidth ^[1] | Unit |
|-------|---------------------------|--------------|-------------|------------------------------------|---|
| | | | (0-255) | (0-255) | (BW throttle period / TWRR tickle unit) |
| A | First-In-First-Out ▼ | WRR ▼ | Q0:0 | Q0:0 | 64Kbps / 51.2ms ▼ |
| | | | Q1:0 | Q1:0 | |
| | | | Q2:0 | Q2:0 | |
| | | | Q3:0 | Q3:0 | |
| | | | Q4:0 | Q4:0 | |
| | | | Q5:0 | Q5:0 | |
| | | | Q6:0 | Q6:0 | |
| | | | Q7:0 | Q7:0 | |
| B | First-In-First-Out ▼ | WRR ▼ | Q0:0 | Q0:0 | 64Kbps / 51.2ms ▼ |
| | | | Q1:0 | Q1:0 | |
| | | | Q2:0 | Q2:0 | |
| | | | Q3:0 | Q3:0 | |
| | | | Q4:0 | Q4:0 | |
| | | | Q5:0 | Q5:0 | |
| | | | Q6:0 | Q6:0 | |
| | | | Q7:0 | Q7:0 | |

6.3 QoS Out Queue Aging

Check and edit queue configuration

1 Click the " QoS Configuration > QoS Out Queue Aging" menu in the navigation bar. As shown in the below figure:

QoS Out Queue Aging

Aging Time

Out Queue Aging Time : (1~2)*0 *100ms. (the value range is 0-255)

Fast Aging Time Enable (unit: 1.638ms) Apply

QoS Out Queue Aging

| Port Selection | | | | | | | | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Q0 Q1 Q2 Q3 Q4 Q5 Q6 Q7

----- ▼ ----- ▼ ----- ▼ ----- ▼ ----- ▼ ----- ▼ ----- ▼ ----- ▼ Apply

| Port NO | Q0 | Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 |
|---------|----|----|----|----|----|----|----|----|
| 01 | | | | | | | | |
| 02 | | | | | | | | |
| 03 | | | | | | | | |
| 04 | | | | | | | | |
| 05 | | | | | | | | |
| 06 | | | | | | | | |
| 07 | | | | | | | | |
| 08 | | | | | | | | |

6.4 QoS Remap

Check and edit remap

1 Click the " QoS Configuration > QoS Remap" menu in the navigation bar. As shown in the below figure:

QoS Remap

| Port Selection | | | | | | | | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Mode Q0 Q1 Q2 Q3 Q4 Q5 Q6 Q7

Tx&Rx ▼ -- ▼ -- ▼ -- ▼ -- ▼ -- ▼ -- ▼ -- ▼ Apply

| Port NO | Tx Remap | | | | | | | Rx Remap | | | | | | | | |
|---------|----------|----|----|----|----|----|----|----------|----|----|----|----|----|----|----|----|
| | Q0 | Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q0 | Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 |
| 01 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 02 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 03 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 04 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 05 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 06 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 07 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 08 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |

6.5 Class of Service

Check and edit service level configuration

1 Click the " QoS Configuration > Class of Service" menu in the navigation bar. As shown in the below figure:

Class of Service

| Port Selection | | | | | | | | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

ACL IGMP IP Addr MAC Addr VID TCP/UDP port DSCP 802.1p Physical port

| Port NO | ACL | IGMP | IP Addr | MAC Addr | VID | TCP/UDP port | DSCP | 802.1p | Physical port |
|---------|-----|------|---------|----------|-----|--------------|------|--------|---------------|
| 01 | | | | | | | | | Queue0 |
| 02 | | | | | | | | | Queue0 |
| 03 | | | | | | | | | Queue0 |
| 04 | | | | | | | | | Queue0 |
| 05 | | | | | | | | | Queue0 |
| 06 | | | | | | | | | Queue0 |
| 07 | | | | | | | | | Queue0 |
| 08 | | | | | | | | | Queue0 |

6.6 802.1p Base

Check and edit 802.1P configuration

1 Click the " QoS Configuration > 802.1p Base" menu in the navigation bar. As shown in the below figure:

802.1p Base

Earlier Edition
 2005 Edition Exchange the priority of 3'b000 and 3'b001 for 2005 Edition^[1]

| Priority Field | Q0 | Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 |
|-----------------|----|----|----|----|----|----|----|----|
| Earlier Edition | 2 | 0 | 1 | 3 | 4 | 5 | 6 | 7 |
| 2005 Edition | 1 | 0 | 2 | 3 | 4 | 5 | 6 | 7 |

6.7 DSCP Base

Check and edit DSCP configuration

1 Click the " QoS Configuration > DSCP Base" menu in the navigation bar. As shown in the below figure:

DSCP Base

Priority For DSCP Not Match

Regard as low priority (priority 0)
 Ignore IP priority (priority will according to tag/port)

IP ToS/DSCP CoS Base Priority

DSCP List: Value(0-63): Priority:

| List | Value | Priority |
|-------|-------|----------|
| DSCP1 | 0 | Queue7 |
| DSCP2 | 0 | Queue7 |
| DSCP3 | 0 | Queue7 |
| DSCP4 | 0 | Queue7 |
| DSCP5 | 0 | Queue7 |
| DSCP6 | 0 | Queue7 |
| DSCP7 | 0 | Queue7 |
| DSCP8 | 0 | Queue7 |

6.8 TCP/UDP Port Base

Check and edit TCP/UDP configuration

1 Click the " QoS Configuration > TCP/UDP Port Base" menu in the navigation bar. As shown in the below figure:

TCP/UDP Port Base

TCP/UDP Port Base Priority

NOTE:
 (1)Q0~Q7 options are effective for the selected physical port only.
 (2)"Drop" option is the global setting for all physical ports.
 (3)"BOOTP/DHCP" is not effective when DHCP relay agent enabled.

| Protocol | Priority | Protocol | Priority | Protocol | Priority | Protocol | Priority |
|----------------|---------------------------------|----------------|---------------------------------|----------------|---------------------------------|----------------|---------------------------------|
| FTP | <input type="text" value="Q0"/> | SSH | <input type="text" value="Q0"/> | TELNET | <input type="text" value="Q0"/> | SMTP | <input type="text" value="Q0"/> |
| DNS | <input type="text" value="Q0"/> | BOOTP/DHCP | <input type="text" value="Q0"/> | TFTP | <input type="text" value="Q0"/> | HTTP_0,1 | <input type="text" value="Q0"/> |
| POP3 | <input type="text" value="Q0"/> | NEWS | <input type="text" value="Q0"/> | SNTP | <input type="text" value="Q0"/> | NETBIOS_0,1,2 | <input type="text" value="Q0"/> |
| IMAP_0,1 | <input type="text" value="Q0"/> | SNMP_0,1 | <input type="text" value="Q0"/> | HTTPS | <input type="text" value="Q0"/> | User defined A | <input type="text" value="Q0"/> |
| User defined B | <input type="text" value="Q0"/> | User defined C | <input type="text" value="Q0"/> | User defined D | <input type="text" value="Q0"/> | | |

User Define TCP/UDP Port Number

NOTE:
 These user-defined TCP/UDP port are the same as that used in TCP/UDP filter.

| User defined A | User defined B | User defined C | User defined D |
|--------------------------------------|--------------------------------------|--|--|
| Port: <input type="text" value="1"/> | Port: <input type="text" value="1"/> | From Port: <input type="text" value="1"/> To Port: <input type="text" value="1"/> | From Port: <input type="text" value="1"/> To Port: <input type="text" value="1"/> |

7 ACL Configuration

7.1 ACL Profile List

Check and edit ACL list

1 Click the " ACL Configuration > ACL Profile List" menu in the navigation bar. As shown in the below figure:

ACL Profile List

Used Entries : 0 / 128

Profile Name

Type

| Profile Name | Type | Action |
|--------------|------|--------|
|--------------|------|--------|

7.2 ACL Ctag Settings

Check and edit ACL internal label setting

1 Click the " ACL Configuration > ACL Ctag Settings" menu in the navigation bar. As shown in the below figure:

ACL Ctag Settings

Index (1 ~ 24)

Value 0x (0x0000-0x7FFF)

| Index | Value | Index | Value |
|-------|--------|-------|--------|
| 1 | 0x0000 | 13 | 0x0000 |
| 2 | 0x0000 | 14 | 0x0000 |
| 3 | 0x0000 | 15 | 0x0000 |
| 4 | 0x0000 | 16 | 0x0000 |
| 5 | 0x0000 | 17 | 0x0000 |
| 6 | 0x0000 | 18 | 0x0000 |
| 7 | 0x0000 | 19 | 0x0000 |
| 8 | 0x0000 | 20 | 0x0000 |
| 9 | 0x0000 | 21 | 0x0000 |
| 10 | 0x0000 | 22 | 0x0000 |
| 11 | 0x0000 | 23 | 0x0000 |
| 12 | 0x0000 | 24 | 0x0000 |

7.3 ACL Stag Settings

Check and edit ACL external label setting

1 Click the " ACL Configuration > ACL Stag Settings" menu in the navigation bar. As shown in the below figure:

ACL Stag Settings

Index (1 ~ 24)
 Value 0x (0x0000~0xFFFF)

| Index | Value | Index | Value |
|-------|--------|-------|--------|
| 1 | 0x0000 | 13 | 0x0000 |
| 2 | 0x0000 | 14 | 0x0000 |
| 3 | 0x0000 | 15 | 0x0000 |
| 4 | 0x0000 | 16 | 0x0000 |
| 5 | 0x0000 | 17 | 0x0000 |
| 6 | 0x0000 | 18 | 0x0000 |
| 7 | 0x0000 | 19 | 0x0000 |
| 8 | 0x0000 | 20 | 0x0000 |
| 9 | 0x0000 | 21 | 0x0000 |
| 10 | 0x0000 | 22 | 0x0000 |
| 11 | 0x0000 | 23 | 0x0000 |
| 12 | 0x0000 | 24 | 0x0000 |

7.4 ACL VLAN Settings

Check and edit ACL VLAN setting

1 Click the " ACL Configuration > ACL VLAN Settings" menu in the navigation bar. As shown in the below figure:

ACL VLAN Settings

Index 1 ▾

| Member Port | | | | | | | | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

| Index | Member Port | Index | Member Port |
|-------|-------------|-------|-------------|
| 1 | | 13 | |
| 2 | | 14 | |
| 3 | | 15 | |
| 4 | | 16 | |
| 5 | | 17 | |
| 6 | | 18 | |
| 7 | | 19 | |
| 8 | | 20 | |
| 9 | | 21 | |
| 10 | | 22 | |
| 11 | | 23 | |
| 12 | | 24 | |

7.5 ACL Bandwidth Settings

Check and edit ACL speed limit setting

1 Click the " ACL Configuration > ACL Bandwidth Settings" menu in the navigation bar. As shown in the below figure:

ACL Bandwidth Settings

Index (1 ~ 15)
 Value (0~2540)(0.1Mbps)

| Index | Value |
|-------|-------|
| 1 | 0 |
| 2 | 0 |
| 3 | 0 |
| 4 | 0 |
| 5 | 0 |
| 6 | 0 |
| 7 | 0 |
| 8 | 0 |
| 9 | 0 |
| 10 | 0 |
| 11 | 0 |
| 12 | 0 |
| 13 | 0 |
| 14 | 0 |
| 15 | 0 |

7.6 ACL DSCP Settings

Check and edit ACL DSCP setting

1 Click the " ACL Configuration > ACL DSCP Settings" menu in the navigation bar. As shown in the below figure:

ACL DSCP Settings

Index (1 ~ 8)
 Value 0x (0x0-0x3F)

| Index | Value |
|-------|-------|
| 1 | 0x00 |
| 2 | 0x00 |
| 3 | 0x00 |
| 4 | 0x00 |
| 5 | 0x00 |
| 6 | 0x00 |
| 7 | 0x00 |
| 8 | 0x00 |

8 Security

8.1 Port-MAC-IP Port Setting

Check and edit Port-MAC-IP Port, binding global configuration

1 Click the " Security > Port-MAC-IP Binding > Port-MAC-IP Port Setting " menu in the navigation bar. As shown in the below figure:

Port-MAC-IP Port Setting

IMP Ports Configure

| Port Selection | | | | | | | | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Status: All

Max learning entry:

Recovery learning entry:

Port Status

| Port | State | Max learning entry | Recovery learning entry |
|------|----------|--------------------|-------------------------|
| 01 | Disabled | 3 | Disabled |
| 02 | Disabled | 3 | Disabled |
| 03 | Disabled | 3 | Disabled |
| 04 | Disabled | 3 | Disabled |
| 05 | Disabled | 3 | Disabled |
| 06 | Disabled | 3 | Disabled |
| 07 | Disabled | 3 | Disabled |
| 08 | Disabled | 3 | Disabled |

8.2 Port-MAC-IP Table

Check and edit Port-MAC-IP, whitelist setting

1 Click the " Security > Port-MAC-IP Binding > Port-MAC-IP Table" menu in the navigation bar. As shown in the below figure:

Port-MAC-IP Table

Create IMP Entry

IPv4

IMP Entry Management

IP:

check port:

Port:

check MAC:

MAC:

Action:

Priority:

IP Table Monitor

| IP | Type | port | MAC | Action | Priority | Action |
|----|------|------|-----|--------|----------|--------|
| | | | | | | |

8.3 DHCP Snooping Table

Check and edit DHCP Snooping configuration

1 Click the " Security > Port-MAC-IP Binding > DHCP Snooping Entry Setting" menu in the navigation bar. As shown in the below figure:

DHCP Snooping Table

DHCP Snooping Configure

DHCP Snooping ▾
 ARP Inspection ▾
 MAC Verification ▾

Snooping Table

| Port | IP | MAC | Leavetime | Action |
|------|----|-----|-----------|--------|
| | | | | |

8.4 MAC Binding Table

MAC address table binding

1 Click the " Security > MAC Address Binding" menu in the navigation bar. As shown in the below figure:

MAC Binding Table

MAC Table Binding [1]

| Port Selection | | | | | | | | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Binding Enable

Aging Time Range:1~1,800,000. (Unit: second)

Create MAC Entry

MAC Address Port ▾

MAC Entry Management

MAC Drop
 port ▾ Sniffer
 Priority ▾ Sflow

MAC Table Monitor

Entry number: 0

| MAC | State | Port | Drop | Sniffer | Sflow | Priority | Action |
|-----|-------|------|--------------------------|--------------------------|--------------------------|----------|---|
| | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | <input type="button" value="Edit"/> <input type="button" value="Delete"/> |

9 Advanced Features

9.1 Spanning Tree Protocol

9.1.1 STP Global Settings

Enable or disable the STP protocol globally

1 Click the " Advanced Features > Spanning Tree Protocol > STP Global Settings" menu in the navigation bar. As shown in the below figure:

STP Global Settings

STP State: ▾

STP Version: ▾

Bridge Max Age (6-40): sec

Bridge Hello Time (1-10): sec

Bridge Forward Delay (4-30): sec

Max Hops (6-40): sec

TC Counts (5-30):

STP BPDU Filter: ▾

Note:

$2 \times (\text{Bridge_Forward_Delay} - 1.0 \text{ seconds}) \geq \text{Bridge_Max_Age}$

$\text{Bridge_Max_Age} \geq 2 \times (\text{Bridge_Hello_Time} + 1.0 \text{ seconds})$

9.1.2 STP Port Settings

Enable or disable the STP protocol under the port

1 Click the " Advanced Features > Spanning Tree Protocol > STP Port Settings" menu in the navigation bar. As shown in the below figure:

stp_port_settings.htm

| Port Selection | | | | | | | | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

State: ▾
 Edge Port: ▾
 BPDU Protect: ▾
 Root Protect: ▾
 Loop Protect: ▾

| Port | State | Edge Port | BPDU Protect | Root Protect | Loop Protect |
|------|---------|-----------|--------------|--------------|--------------|
| 01 | Enabled | Disabled | Disabled | Disabled | Disabled |
| 02 | Enabled | Disabled | Disabled | Disabled | Disabled |
| 03 | Enabled | Disabled | Disabled | Disabled | Disabled |
| 04 | Enabled | Disabled | Disabled | Disabled | Disabled |
| 05 | Enabled | Disabled | Disabled | Disabled | Disabled |
| 06 | Enabled | Disabled | Disabled | Disabled | Disabled |
| 07 | Enabled | Disabled | Disabled | Disabled | Disabled |
| 08 | Enabled | Disabled | Disabled | Disabled | Disabled |
| 09 | Enabled | Disabled | Disabled | Disabled | Disabled |
| 10 | Enabled | Disabled | Disabled | Disabled | Disabled |

9.1.3 MST Configuration Identification

MST domain configuration

1 Click the " Advanced Features > Spanning Tree Protocol > MST Configuration" menu in the navigation bar. As shown in the below figure:

MST Configuration Identification

MST Configuration Identification Settings

Configuration Name
Revision Level(0-65535)

Instance ID Settings

MSTI ID (1-4094)
Action

| MSTI ID | VID List | Action |
|---------|----------|---|
| CIST | 1-4094 | <input type="button" value="Edit"/> <input type="button" value="Delete"/> |

9.1.4 STP Instance Settings

CIST instance configuration

1 Click the " Advanced Features > Spanning Tree Protocol > STP Instance Settings" menu in the navigation bar. As shown in the below figure:

STP Instance Settings

MSTI ID Priority (0-61440)

| Instance Type | Instance Priority | Action |
|---------------|-------------------|---|
| CIST | 32768 | <input type="button" value="Edit"/> <input type="button" value="View"/> |

STP Instance Operational Status

| | | | |
|--------------------|----|------------------------|----|
| MSTP ID | -- | Designated Root Bridge | -- |
| External Root Cost | -- | Regional Root Bridge | -- |
| Internal Root Cost | -- | Designated Bridge | -- |
| Root Port | -- | Max Age | -- |
| Forward Delay | -- | Max Hops | -- |

9.1.5 MSTP Port Information

Check the STP role of the port

1 Click the " Advanced Features > Spanning Tree Protocol > MSTP Port Information" menu in the navigation bar. As shown in the below figure:

MSTP Port Information

Port

MSTP Port Settings

Instance ID Internal Path Cost (0-200000000,0=Auto) Priority (0-240)

Port 1 Settings

| MSTI | Designated Bridge | Internal Path Cost | Priority | Status | Role | Action |
|------|-------------------------|--------------------|----------|----------|---------------|-------------------------------------|
| 0 | 32768/66-09-07-03-04-09 | 200000(Auto) | 128 | Disabled | Disabled Port | <input type="button" value="Edit"/> |

9.2 Trunk & Link Aggregation

Enable or disable static and dynamic port aggregation

1 Click the " Advanced Features > Trunk & Link Aggregation" menu in the navigation bar. As shown in the below figure:

Trunk & Link Aggregation

Link Aggregation Algorithm:

| Group | Group1 | | | | Group2 | | | | Group3 | | | | Group4 | | | | Group5 | |
|---------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Combine Group | <input type="checkbox"/> | | | | | | | | <input type="checkbox"/> | | | | | | | | | |
| Port Select | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 25 | 26 |
| | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Status | | | | | | | | | | | | | | | | | | |
| State | Disable ▾ | | | | Disable ▾ | | | | Disable ▾ | | | | Disable ▾ | | | | Disable ▾ | |
| Trunk Type | LACP ▾ | | | | LACP ▾ | | | | LACP ▾ | | | | LACP ▾ | | | | LACP ▾ | |
| Mode | Passive ▾ | | | | Passive ▾ | | | | Passive ▾ | | | | Passive ▾ | | | | Passive ▾ | |
| Time Out | Short ▾ | | | | Short ▾ | | | | Short ▾ | | | | Short ▾ | | | | Short ▾ | |

9.3 IGMP Snooping

9.3.1 IGMP Snooping Settings

Enable or disable IGMP-Snooping

1 Click the " Advanced Features > IGMP Snooping > IGMP Snooping Settings" menu in the navigation bar. As shown in the below figure:

IGMP Snooping Settings

IGMP Snooping State:

Version:

IGMP Group Aged Out:

GMI (10-65535)^[1]: sec

Router Aging Time (10-65535): sec

IGMP Immediate Leave^[2]:

9.3.2 IGMP Snooping Router Ports Settings

Set routing port

1 Click the " Advanced Features > IGMP Snooping > IGMP Snooping Router Ports Settings" menu in the navigation bar. As shown in the below figure:

IGMP Snooping Router Ports Settings

| IGMP Snooping Static Router Ports | | | | | | | | | | | | |
|-----------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

| IGMP Snooping Dynamic Router Ports | | | | | | | | | | | | |
|------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

9.3.3 IGMP Snooping Groups

Establish a static multicast table

1 Click the " Advanced Features > IGMP Snooping > IGMP Snooping Groups" menu in the navigation bar. As shown in the below figure:

IGMP Snooping Groups

IGMP Snooping Static Group Configuration

Group Address Priority

| Member Port | | | | | | | | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

IGMP Snooping Group Information

| Group | State | Member Port | Priority | Action |
|-------|-------|-------------|----------|--------|
|-------|-------|-------------|----------|--------|

9.3.4 IGMP Snooping Ports

Check the status of IGMP Snooping under the port

1 Click the " Advanced Features > IGMP Snooping > IGMP Snooping Ports" menu in the navigation bar. As shown in the below figure:

IGMP Snooping Ports

IGMP Snooping Port Information

Port

| Group | State | Mode | Uptime | Expires | Source List |
|-------|-------|------|--------|---------|-------------|
|-------|-------|------|--------|---------|-------------|

9.4 MLD Snooping

9.4.1 MLD Snooping Settings

Enable or disable MLD Snooping

1 Click the " Advanced Features > MLD Snooping > MLD Snooping Settings" menu in the navigation bar. As shown in the below figure:

9.4.2 MLD Snooping Router Ports Settings

Set the static routing port

1 Click the " Advanced Features > MLD Snooping > MLD Snooping Router Ports Settings" menu in the navigation bar. As shown in the below figure:

| MLD Snooping Static Router Ports | | | | | | | | | | | | |
|----------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

| MLD Snooping Dynamic Router Ports | | | | | | | | | | | | |
|-----------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

9.4.3 MLD Snooping Groups

Establish a static multicast table

1 Click the " Advanced Features > MLD Snooping > MLD Snooping Groups" menu in the navigation bar. As shown in the below figure:

MLD Snooping Groups

MLD Snooping Static Group Configuration

Group Address Priority

Member Port

| | | | | | | | | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

MLD Snooping Group Information

| Group | State | Member Port | Priority | Action |
|-------|-------|-------------|----------|--------|
|-------|-------|-------------|----------|--------|

9.4.4 MLD Snooping Ports

Check the status of MLD Snooping

1 Click the " Advanced Features > MLD Snooping > MLD Snooping Ports" menu in the navigation bar. As shown in the below figure:

MLD Snooping Ports

MLD Snooping Port Information

Port

| Group | State | Mode | Uptime | Expires | Source List |
|-------|-------|------|--------|---------|-------------|
|-------|-------|------|--------|---------|-------------|

9.4 DHCP Relay Agent

Enable DHCP relay globally

1 Click the " Advanced Features > DHCP RelayAgent" menu in the navigation bar. As shown in the below figure:

DHCP RelayAgent

Global Setting

DHCP relay-agent state Apply

DHCPv4 Setting

Hops Limit

| DHCPv4 Server Setting | | |
|-----------------------|-------------------------------------|--|
| Index | State | Address |
| 1 | <input checked="" type="checkbox"/> | <input type="text" value="192.168.2.111"/> |
| 2 | <input type="checkbox"/> | <input type="text"/> |
| 3 | <input type="checkbox"/> | <input type="text"/> |
| 4 | <input type="checkbox"/> | <input type="text"/> |
| 5 | <input type="checkbox"/> | <input type="text"/> |

Apply

DHCPv6 Setting

| DHCPv6 Server Setting | | |
|-----------------------|-------------------------------------|---|
| Index | State | Address |
| 1 | <input checked="" type="checkbox"/> | <input type="text" value="2001:1000::1"/> |
| 2 | <input type="checkbox"/> | <input type="text"/> |
| 3 | <input type="checkbox"/> | <input type="text"/> |
| 4 | <input type="checkbox"/> | <input type="text"/> |
| 5 | <input type="checkbox"/> | <input type="text"/> |

Apply

9.5 Loop Detect

Enable loop detection the port

1 Click the " Advanced Features > Loop Detect" menu in the navigation bar. As shown in the below figure:

Loop Detect Information

Loop Detect Setting

Loop Detection State: ▾

LDP Interval Time: , unit:500ms

Block Release Time: , unit:500ms

LDP MAC Destination Address:

Loop Detect Port Setting

Loop Detect Port Enabled

| | | | | | | | | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Loop Detect Port State

| Port | State |
|------|-------|
| 1 | --- |
| 2 | --- |
| 3 | --- |
| 4 | --- |
| 5 | --- |
| 6 | --- |
| 7 | --- |
| 8 | --- |

9.6 GVRP

Enable GVRP in global mode

1 Click the " Advanced Features > GVRP" menu in the navigation bar. As shown in the below figure:

GVRP Settings

GVRP Settings

GVRP Settings: ▾

Join Time: (second, >=2sec)

Leave Time: (second, >=2*Join Time)

Leaveall Time: (second, >=Leave Time)

9.7 Neighbor MACID Settings

Check the mac address of the IPV6 neighbor

1 Click the " Advanced Features > Neighbor MACID Settings" menu in the navigation bar. As shown in the below figure:

Neighbor MACID Settings

Status: ▾
Send Period:
Aging Time:

Neighbor MACID Information

| Port NO | MAC Addr | Aging Time |
|---------|----------|------------|
|---------|----------|------------|

9.8 Voice VLAN

9.8.1 Voice VLAN State

Enable voice VLAN globally

1 Click the " Advanced Features > Voice VLAN Setting> Voice VLAN State" menu in the navigation bar. As shown in the below figure:

Voice VLAN State

State: ▾
Voice VLAN ID:
Aging Time: (5 ~ 43200minute.)
VLAN Priority:

9.8.2 Voice VLAN Port Setting

Enable Voice VLAN on the port

1 Click the " Advanced Features > Voice VLAN Setting> Voice VLAN Port Setting" menu in the navigation bar. As shown in the below figure:

Voice VLAN Port Setting

| Port Selection | | | | | | | | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Mode
----- ▾

| Port | Mode |
|------|--------|
| 1 | Manual |
| 2 | Manual |
| 3 | Manual |
| 4 | Manual |
| 5 | Manual |
| 6 | Manual |
| 7 | Manual |
| 8 | Manual |

9.8.3 OUI List

Set the OUI list globally

1 Click the " Advanced Features > Voice VLAN Setting> OUI List" menu in the navigation bar. As shown in the below figure:

OUI List

OUI MAC

OUI Mask ----- ▾

Description

| OUI MAC | OUI mask | Description | Action |
|---------|----------|-------------|--------|
|---------|----------|-------------|--------|

9.9 LLDP

9.9.1 LLDP Global Setting

Enable or disable LLDP in global mode

1 Click the " Advanced Features > LLDP> LLDP Global Setting" menu in the navigation bar. As shown in the below figure:

LLDP Global Setting

Global Setting

LLDP state: ▾

Tx Interval (5~32768): sec

Tx Hold Multiplier (2~10):

Re-Init Delay (1~10): sec

Tx Delay (1~8192): sec

Note: Tx Interval must bigger than (4 * Tx Delay)

9.9.2 LLDP Port Setting

Enable or disable LLDP on the port

1 Click the " Advanced Features > LLDP> LLDP Port Setting" menu in the navigation bar. As shown in the below figure:

LLDP Port Setting

Port Selection

| | | | | | | | | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Admin Status Port Description System Name System Description Capability Management Address

----- ▾ ----- ▾ ----- ▾ ----- ▾ ----- ▾ ----- ▾

| Port | Admin Status | Port Description | System Name | System Description | Capability | Management Address |
|------|--------------|------------------|-------------|--------------------|------------|--------------------|
| 01 | Tx & Rx | Disable | Disable | Disable | Disable | Disable |
| 02 | Tx & Rx | Disable | Disable | Disable | Disable | Disable |
| 03 | Tx & Rx | Disable | Disable | Disable | Disable | Disable |
| 04 | Tx & Rx | Disable | Disable | Disable | Disable | Disable |
| 05 | Tx & Rx | Disable | Disable | Disable | Disable | Disable |
| 06 | Tx & Rx | Disable | Disable | Disable | Disable | Disable |
| 07 | Tx & Rx | Disable | Disable | Disable | Disable | Disable |
| 08 | Tx & Rx | Disable | Disable | Disable | Disable | Disable |
| 09 | Tx & Rx | Disable | Disable | Disable | Disable | Disable |
| 10 | Tx & Rx | Disable | Disable | Disable | Disable | Disable |

10 Monitoring

10.1 Mib Counter

Check the traffic statistics on the port

1 Click the " Monitoring > Mib Counter" menu in the navigation bar. As shown in the below figure:

Mib Counter

| Port NO | Receive | | Transmit | | Action | <input type="checkbox"/> |
|---------|---------|----------|----------|----------|------------------------|--------------------------|
| | Packets | Bytes | Packets | Bytes | | |
| 01 | 0 | 0 | 0 | 0 | Detail | <input type="checkbox"/> |
| 02 | 0 | 0 | 0 | 0 | Detail | <input type="checkbox"/> |
| 03 | 0 | 0 | 0 | 0 | Detail | <input type="checkbox"/> |
| 04 | 0 | 0 | 0 | 0 | Detail | <input type="checkbox"/> |
| 05 | 0 | 0 | 0 | 0 | Detail | <input type="checkbox"/> |
| 06 | 0 | 0 | 0 | 0 | Detail | <input type="checkbox"/> |
| 07 | 0 | 0 | 0 | 0 | Detail | <input type="checkbox"/> |
| 08 | 3288 | 368371 | 97253 | 10616165 | Detail | <input type="checkbox"/> |
| 09 | 0 | 0 | 0 | 0 | Detail | <input type="checkbox"/> |
| 10 | 0 | 0 | 0 | 0 | Detail | <input type="checkbox"/> |
| 11 | 107702 | 11950825 | 17549 | 10528028 | Detail | <input type="checkbox"/> |
| 12 | 0 | 0 | 0 | 0 | Detail | <input type="checkbox"/> |
| 13 | 0 | 0 | 0 | 0 | Detail | <input type="checkbox"/> |
| 14 | 0 | 0 | 0 | 0 | Detail | <input type="checkbox"/> |

10.2 Scan MACID Lookup Table

Check the mac address of the port

1 Click the " Monitoring > Scan MACID Lookup Table" menu in the navigation bar. As shown in the below figure:

Scan MACID Lookup Table

MAC Table Clear

| Port Selection | | | | | | | | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

MAC Table Monitor

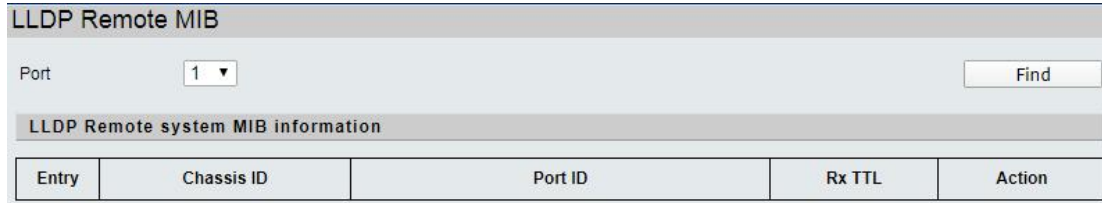
Entry number: 65

| MAC Address | Port |
|-------------------|------|
| ac:22:0b:2a:b2:ca | 11 |
| 00:e0:4d:36:99:e4 | 11 |
| 60:45:cb:73:55:b3 | 11 |
| 00:e0:4c:2e:2d:4c | 11 |
| 00:e0:70:71:d5:b4 | 11 |
| 54:75:95:d0:f2:81 | 11 |
| 9c:06:1b:92:dc:40 | 11 |
| 74:d0:2b:26:db:15 | 11 |
| 04:d4:c4:8e:a4:f1 | 11 |

10.3 LLDP Remote MIB

Check the status of LLDP remotes MIB

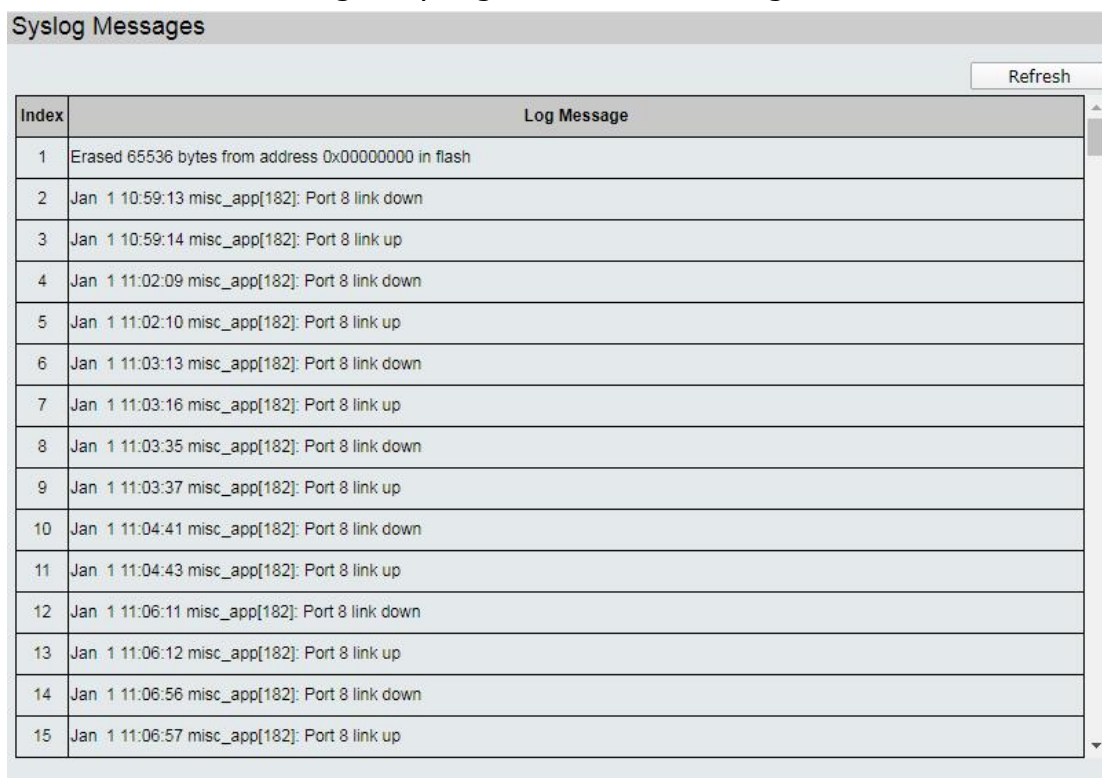
1 Click the " Monitoring > LLDP Remote MIB" menu in the navigation bar. As shown in the below figure:



10.4 Syslog

Check the syslog of the switch

1 Click the " Monitoring > Syslog" menu in the navigation bar. As shown in the below figure:



10.5 CPU Resource Utilization

Check the utilization rate of the CPU

1 Click the " Monitoring > CPU Resource Utilization" menu in the navigation bar. As shown in the below figure:

CPU Resource Utilization

| | |
|---------------|-------|
| Free Memory : | 3308K |
| CPU Usage : | 18% |

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