

Web User Manual

L3

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Getting Start

This section provides an introduction to the web-based configuration utility, and covers the following topics:

- Powering on the device
- Connecting to the network
- Starting the web-based configuration utility

● Power

Connecting to Power



Power down and disconnect the power cord before servicing or wiring a switch.



Do not disconnect modules or cabling unless the power is first switched off. The device only supports the voltage outlined in the type plate. Do not use any other power components except those specifically designated for the switch.



Disconnect the power cord before installation or cable wiring.

The switch is powered by the AC 100-240 V 50/60Hz internal high-performance power supply. It is recommended to connect the switch with a single-phase three-wire power source with a neutral outlet, or a multifunctional computer professional source.

Connect the AC power connector on the back panel of the switch to the external power source with the included power cord, and check the power LED is on.



Rear View AC Power Socket

● Connecting to the Network

To connect the switch to the network:

1. Connect an Ethernet cable to the Ethernet port of a computer
2. Connect the other end of the Ethernet cable to one of the numbered Ethernet ports of the switch. The LED of the port lights if the device connected is active.
3. Repeat Step 1 and Step 2 for each device to connect to the switch.



We strongly recommend using CAT-5E or better cable to connect network devices. When connecting network devices, do not exceed the maximum cabling distance of 100 meters (328 feet). It can take up to one minute for attached devices or the LAN to be operational after it is connected. This is normal behavior.

Connect the switch to end nodes using a standard Cat 5/5e Ethernet cable (UTP/STP) to connect the switch to end nodes as shown in the illustration below.

Switch ports will automatically adjust to the characteristics (MDI/MDI-X, speed, duplex) of the device to which the switch is connected.

● Starting the Web-based Configuration Utility

This section describes how to navigate the web-based switch configuration utility. Be sure to disable any pop-up blocker.

Browser Restrictions

- If you are using older versions of Internet Explorer, you cannot directly use an IPv6 address to access the device. You can, however, use the DNS (Domain Name System) server to create a domain name that contains the IPv6 address, and then use that domain name in the address bar in place of the IPv6 address.
- If you have multiple IPv6 interfaces on your management station, use the IPv6 global address instead of the IPv6 link local address to access the device from your browser.

Launching the Configuration Utility

To open the web-based configuration utility:

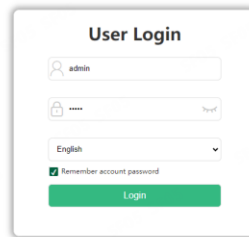
1. Open a Web browser.
2. Enter the IP address of the device you are configuring in the address bar on the browser (factory default IP address is 192.168.2.1) and then press Enter.



When the device is using the factory default IP address, its power LED flashes continuously. When the device is using a DHCP assigned IP address or an administrator-configured static IP address, the power LED is lit a solid color. Your computer's IP address must be in the same subnet as the switch. For example, if the switch is using the factory default IP address, your

computer's IP address can be in the following range: 192.168.2.x (whereas x is a number from 2 to 254).

After a successful connection, the login window displays.



Login Window

● Logging In

The default username is admin and the default password is admin. The first time that you log in with the default username and password, you are required to enter a new password.

To log in to the device configuration utility:

1. Enter the default user ID (admin) and the default password (admin).
2. If this is the first time that you logged on with the default user ID (admin) and the default password (admin) it is recommended that you change your password immediately.

When the login attempt is successful, the System Information window displays.

Reboot Reset Save Logout

System Config

System Homepage

Device Info

IP Config

Web Config

User Management

Firmware Upgrade

Management Config

NTP

SNTP

Device Management

Monitor Management

Switch Config

VLAN Config

POE Config

DHCP Config

ACL Config

Ring Network

3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Electric Optical

Collapse

| Device Info | |
|-----------------------|--------------------------|
| Hostname | Switch |
| CPU MAC Address | B4-E5-D8-E0-2B-D4 |
| IP Address | 192.168.2.1 |
| Serial Num | B0A313400002 |
| Current System Time | Tue Jul 11 00:53:14 2023 |
| Device Type | Switch |
| VLAN MAC Address | B4-E5-D8-E0-2B-D3 |
| Uptime | 0d 00h 53min 55s |
| Software Version | V2000P10230711 |
| Firmware Compile Date | 2023-07-11 17:37:20 |

| Port Status | | Speed/Duplex | | Flow Control | MDI | PoE Config | |
|----------------|--------------|--------------|------------|--------------|------|-------------------|-------------------|
| Port | Admin Status | Config | Actual | | | Power(mW) | Monitor Status |
| Ethernet1/0/1 | Enabled | Auto/Auto | Link Down | Disabled | auto | 0 | Disabled |
| Ethernet1/0/2 | Enabled | Auto/Auto | Link Down | Disabled | auto | 0 | Disabled |
| Ethernet1/0/3 | Enabled | Auto/Auto | Link Down | Disabled | auto | 0 | Disabled |
| Ethernet1/0/4 | Enabled | Auto/Auto | Link Down | Disabled | auto | 0 | Disabled |
| Ethernet1/0/5 | Enabled | Auto/Auto | Link Down | Disabled | auto | 0 | Disabled |
| Ethernet1/0/6 | Enabled | Auto/Auto | Link Down | Disabled | auto | 0 | Disabled |
| Ethernet1/0/7 | Enabled | Auto/Auto | Link Down | Disabled | auto | 0 | Disabled |
| Ethernet1/0/8 | Enabled | Auto/Auto | 1000M/Full | Disabled | auto | 0 | Disabled |
| Ethernet1/0/9 | Enabled | Auto/Auto | Link Down | Disabled | auto | 0 | Disabled |
| Ethernet1/0/10 | Enabled | Auto/Auto | Link Down | Disabled | auto | 0 | Disabled |
| Ethernet1/0/11 | Enabled | Auto/Auto | Link Down | Disabled | auto | 0 | Disabled |
| Ethernet1/0/12 | Enabled | Auto/Auto | Link Down | Disabled | auto | 0 | Disabled |
| Ethernet1/0/13 | Enabled | Auto/Auto | Link Down | Disabled | auto | 0 | Disabled |
| Ethernet1/0/14 | Enabled | Auto/Auto | Link Down | Disabled | auto | 0 | Disabled |
| Ethernet1/0/15 | Enabled | Auto/Auto | Link Down | Disabled | auto | 0 | Disabled |
| Ethernet1/0/16 | Enabled | Auto/Auto | Link Down | Disabled | auto | 0 | Disabled |
| Ethernet1/0/17 | Enabled | Auto/Auto | Link Down | Disabled | auto | Not Supported POE | Not Supported POE |
| Ethernet1/0/18 | Enabled | Auto/Auto | Link Down | Disabled | auto | Not Supported POE | Not Supported POE |
| Ethernet1/0/19 | Enabled | Auto/Auto | Link Down | Disabled | auto | Not Supported POE | Not Supported POE |
| Ethernet1/0/20 | Enabled | Auto/Auto | Link Down | Disabled | auto | Not Supported POE | Not Supported POE |

System Information

If you entered an incorrect username or password, an error message appears and the Login page remains displayed on the window. If you are having problems logging in, please see the Launching the Configuration Utility section in the Administration Guide for additional information.

● Logging Out

By default, the application logs out after ten minutes of inactivity.

To logout, click Logout in the top right corner of any page. The system logs out of the device.

When a timeout occurs or you intentionally log out of the system, a message appears and the Login page appears, with a message indicating the logged-out state. After you log in, the application returns to the initial page.

Web-based Switch Configuration

The smart switch software provides rich Layer 2 functionality for switches in your networks. This chapter describes how to use the web-based management interface (Web UI) to configure the switch's features.

For the purposes of this manual, the user interface is separated into four sections, as shown in the following figure:

The screenshot shows the web-based switch configuration interface. The interface is divided into four sections:

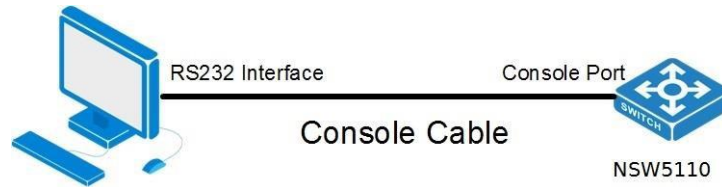
- System Configuration Menu (left sidebar):** Includes System Config, System Homepage, Device Info, IP Config, Web Config, User Management, Firmware Upgrade, Management Config, NTP, SNMP, Device Management, Monitor Management, Switch Config, VLAN Config, PoE Config, DHCP Config, ACL Config, and Ring Network.
- Device Information (top right):** Shows Hostname: Switch, Device Type: Switch, CPU MAC Address: 84-E5-C8-ED-1F-5F, VLAN MAC Address: 84-E5-C8-ED-1F-5E, IP Address: 192.168.2.1, System: Sptone, Serial Num: PCMS328F2110001E, Software Version: V3005P10230718, Current System Time: Tue Jul 18 02:48:07 2023, and Firmware Compile Date: 2023-07-18 10:01:02.
- Port Status (middle table):** A table with columns for Port, Admin Status, Speed/Duplex (Config, Actual), Flow Control, MDI, Power(mW), and Monitor Status. All ports are listed as Link Down.
- PoE Config (right table):** A table with columns for Port, Admin Status, Power(mW), and Monitor Status. All ports are listed as Disabled.

A diagram of the switch ports is shown at the top center, with ports 2-24 labeled as Electric and ports 25-27 labeled as Optical.

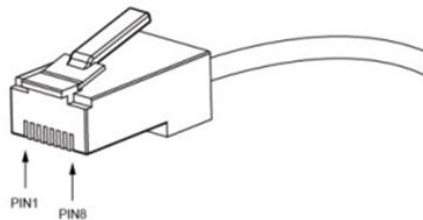
Console Port Interface

The PoE smart switch has a monitor port(Console port). Rate 9600bps, standard RJ45 plug.

Use a dedicated monitoring cable to lead the port to the PC serial port connection, as follows:



The RJ45 connector used by the Console port is shown in the figure below, and the RJ45 plug corresponds to the RJ45 socket, from left to right numbered from 1 to 8.



This cable is used to connect the console port of the switch to the external monitoring terminal. One end of the RJ45 eight-pin plug, the other end is a 25-hole plug(DB25) and 9-hole plug(DB9), RJ45 head into the switch's console port socket, DB25 and DB9 can be used according to the requirements of the terminal serial port, the cable internal connection schematic as follows:

| | RJ45 | <===> | DB9 | |
|---|-------|-------|-----|-------|
| [| RTS 1 | ~ | 8 | CTS] |
| [| DTR 2 | ~ | 6 | DSR] |
| [| TXD 3 | ~ | 2 | RXD] |
| [| GND 4 | ~ | 5 | GND] |
| [| GND 5 | ~ | 5 | GND] |
| [| RXD 6 | ~ | 3 | TXD] |
| [| DSR 7 | ~ | 4 | DTR] |
| [| CTS 8 | ~ | 7 | RTS] |

1. System Config

1.1. System Homepage

The system homepage contains **Device Info** and **Port Status**

| Device Info | | | |
|---------------------|--------------------------|-----------------------|---------------------|
| Hostname | Switch | Device Type | Switch |
| CPU MAC Address | 84-E5-D8-E0-1F-5F | VLAN MAC Address | 84-E5-D8-E0-1F-5E |
| IP Address | 192.168.2.1 | Uptime | 0d 02h 48min 14s |
| Serial Num | PCMS328GF2110001E | Software Version | V300SP10230718 |
| Current System Time | Tue Jul 18 02:48:07 2023 | Firmware Compile Date | 2023-07-18 10:01:02 |

| Port Status | | | | | PoE Config | | |
|---------------|--------------|--------------|-----------|--------------|------------|-----------|----------------|
| Port | Admin Status | Speed/Duplex | | Flow Control | MDI | Power(mW) | Monitor Status |
| | | Config | Actual | | | | |
| Ethernet1/0/1 | Enabled | Auto/Auto | Link Down | Disabled | auto | 0 | Disabled |
| Ethernet1/0/2 | Enabled | Auto/Auto | Link Down | Disabled | auto | 0 | Disabled |
| Ethernet1/0/3 | Enabled | Auto/Auto | Link Down | Disabled | auto | 0 | Disabled |
| Ethernet1/0/4 | Enabled | Auto/Auto | Link Down | Disabled | auto | 0 | Disabled |
| Ethernet1/0/5 | Enabled | Auto/Auto | Link Down | Disabled | auto | 0 | Disabled |
| Ethernet1/0/6 | Enabled | Auto/Auto | Link Down | Disabled | auto | 0 | Disabled |
| Ethernet1/0/7 | Enabled | Auto/Auto | Link Down | Disabled | auto | 0 | Disabled |
| Ethernet1/0/8 | Enabled | Auto/Auto | Link Down | Disabled | auto | 0 | Disabled |

Click on **Device Info** or **Port Status** to enter the corresponding page.

1.2. Device Info

The Device Info page allows you to view device information and also set the Hostname, Device Contact, Device Location of the device and the Current System Time.

| Device Info | |
|-----------------------|---|
| Hostname | <input type="text" value="Switch"/> |
| Device Contact | <input type="text" value="Default"/> |
| Device Location | <input type="text" value="Default"/> |
| Device Type | Switch |
| CPU MAC Address | 84-E5-D8-E0-00-01 |
| VLAN MAC Address | 84-E5-D8-E0-00-00 |
| IP Address | 192.168.20.90 |
| Client IP Address | 192.168.20.121 |
| Serial Num | UNPV102022010001 |
| Software Version | V300SP10230911 |
| BootRom Version | V2.00 |
| Firmware Compile Date | 2023-09-11 08:48:22 |
| Uptime | 0W 0D 00H:59M:31S |
| Current System Time | <input type="text" value="00"/> Hour <input type="text" value="59"/> Min <input type="text" value="23"/> Sec <input type="text" value="2023"/> Year <input type="text" value="09"/> Month <input type="text" value="11"/> Day |

| | |
|----------------------------|--|
| Hostname | Fill in the new Hostname of the switch to be changed, 1-64 characters |
| Device Contact | Fill in the new Device Contact of the switch to be changed, 0-255 characters |
| Device Location | Fill in the new Device Location of the switch to be changed, 0-255 characters |
| Current System Time | Manually changing the current system time, When the switch restart will invalidate. |

1.3. IP Config

1.3.1. IPv4 Config

The page can be used to configure IP address and subnet mask for the VLAN interface.

To display the “IPv4 Config” page, click System Config ->IP Config->IPv4 Config, click “Apply” to configure.

IPv4 Config

| | | | |
|----------------|-----------|-----------------------|--|
| VLAN Interface | VLAN0001 | | |
| IP Mode | Static IP | | |
| IP Address | | Example:10.10.10.1 | |
| Netmask | | Example:255.255.255.0 | |

[Apply](#)

| | VLAN Interface | IP Mode | IP Address | Netmask |
|--------------------------|----------------|-----------|-------------|---------------|
| <input type="checkbox"/> | VLAN0001 | Static IP | 192.168.2.1 | 255.255.255.0 |

[Delete](#)

| | |
|-----------------------|---|
| VLAN Interface | VLAN ID of layer 3 interface created |
| IP Mode | Static IP : User self configuration Dynamic: dhcp-client Automatic acquisition |
| IP Address | IP Address, e. g. A. B. C. D |
| Netmask | Netmask:for example :255. 255. 255. 0 |
| Operation | Action: Apply/Delete |

1.3.2. IPv6 Config

The page can be used to configure IPv6 address and subnet mask for the VLAN interface.

To display the “IPv6 Config” page, click System Config ->IP Config->IPv6 Config, click “Apply” to configure.

IPv6 Config

| | | | |
|----------------|----------|--------------------|--|
| VLAN Interface | VLAN0001 | | |
| IPv6 Address | | Example:2001::1234 | |
| Prefix-length | | Example:48 | |

[Apply](#)

Showing Entries Showing 1 to 1 of 1 entries

| | No. | VLAN Interface | IPv6 Address |
|--------------------------|-----|----------------|----------------------------|
| <input type="checkbox"/> | 1 | VLAN0001 | fe80::86e5d8fffee0:1f5e/64 |

[Delete](#) [First](#) [Previous](#) [1](#) [Next](#) [Last](#)

| | |
|----------------|--|
| VLAN Interface | VLAN ID of layer 3 interface created |
| IPv6 Address | IPv6 Address, Example:2001::1234 |
| Prefix-length | Prefix length is 3 to 127, Example :48 |
| Operation | Action: Apply/Delete |

1.4. Web Config

1.4.1. Web Timeout

The page can be used to configure Web Login Timeout time.

Login Timeout

Login Timeout
 (1-60 minutes)

Apply

| | |
|-------------------|---|
| Web Login Timeout | Web Login Timeout: 1-60 minutes, default 10 minutes |
|-------------------|---|

1.4.2. HTTP

HTTP Server Config module, the user can start or stop the HTTP service of the switch by using this module again. Default is On.

HTTP Server Config

HTTP Server Status
 On

1.4.3. HTTPS

HTTPS Server Config module, the user can start or stop the HTTPS service of the switch by using this module again. Default is Off.

HTTPS Config

HTTPS Status
 Off

HTTPS Config

HTTPS Status
 On

HTTPS Protocol Port
 (1025-65535, default 443)

Encryption Type
 aes256-sha ecdhe-rsa-aes256-sha

Apply

| | |
|---------------------|---|
| HTTPS Protocol Port | HTTPS Protocol Port: 1025-65535 , default 443 |
| Encryption Type | Type: aes256-sha ecdhe-rsa-aes256-sha |

1. 4. 4. Security IP

Login user security IP configuration module, where users can configure the security IPv4 address for login switch. Login methods include Telnet/HTTP/HTTPS.

Login user Security IP Set

To configure the trusted IP address for Telnet and HTTP/HTTPS login method

Security IP Address

Apply

| <input type="checkbox"/> | No. | Login user Security IPv4 List |
|--------------------------|-----|-------------------------------|
| Delete | | |

| | | | |
|-------------------------|-----------|---|--|
| Security address | IP | Fill in the specified security IPv4 address | |
| Operation | Apply | Add address or list number | |
| | Delete | Delete address or list number | |

1. 4. 5. ACL

Login user login access control list module, where users can configure the IPV4 access control list. Login methods include Telnet/SSH/Web.

Login Access Control List Set

Configure standard IP ACL protocol binding through Telnet/SSH/Web login

Access Control List

Binding Method web

Apply

| | Access Control List | Binding Method |
|--------|---------------------|----------------|
| Delete | | |

| | | |
|---------------------------------|--------|---|
| IPv4 access control list | | Standard access control list number, scope 1-64 characters or number 1-99 |
| Binding Method | | Binding Method include web/ssh/telnet/all |
| Operation | Apply | Add address or list number |
| | Delete | Delete address or list number |

1.5. User Management

1.5.1. User Management

User Management

| | | |
|----------|----------------------|---|
| Username | <input type="text"/> | 1-32 characters |
| Password | <input type="text"/> | <input type="checkbox"/> Encrypted Text 1-32 characters |
| Priority | <input type="text"/> | (number 1-15) |

| | No. | Username | Password | State | Priority |
|--------------------------|-----|----------|----------|------------|----------|
| <input type="checkbox"/> | 1 | admin | admin | Plain Text | 15 |

User Management module, users in this module can add or delete user operations.

| | |
|-----------------|---|
| Username | User name to operate ,1-32 characters |
| Password | User password, choose the password encryption, otherwise no encryption of 1-32 characters |
| Priority | Used to specify permission level. |

WEB Privilege Config module, users can configure permissions for user accounts to login in the web.

WEB Privilege Config

| | |
|------------------------|------------|
| Login Privilege Enable | Disabled ▼ |
| Privilege Priority | 15 ▼ |

| | |
|-------------------------------|--|
| Login Privilege Enable | Change the way users log in to web pages with permissions, When the user priority is lower than the privilege priority, it changes from being unable to log in to being able to log in to the web page but not configure information, and can only view the configuration. Default is disable. |
| Privilege Priority | Used to specify permission level, default level 15, only the user with the level that is equal to or higher than it can login in the switch by web. |

1.5.2. Authentication Method

User Login Authentication Method Configure module, the user can configure console.vty.web authentication method used in login, authentication method can be any one or combination of Local.RADIUS and TACACS preferences from left to right when the login method is combined configuration. If the user has passed the authentication method, the authentication method of the lower preference is ignored. As long as you pass an authentication method, the user can log in.AAA functions and RADIUS servers should be configured before using RADIUS authentication. If local authentication is configured without configuring a local user, the user will be able to log on to the switch through the console method.

User Login Authentication Method Configure

| | |
|------------------------|---------------|
| Login Method | Console |
| Authentication Method1 | None |
| Authentication Method2 | None |
| Authentication Method3 | None |
| Operation Type | Configuration |

Apply

| Login Method | Authentication Method1 | Authentication Method2 | Authentication Method3 |
|--------------|------------------------|------------------------|------------------------|
| console | local | None | None |
| vty | local | None | None |
| web | local | None | None |

| Login method | Authentication method | Description |
|--------------|--|--|
| console | local | Authentication using the local user account database |
| vty | radius | Authentication using remote Radius server |
| web | tacacs | Authentication using remote Tacas server |
| Default | Default console no authentication , vty and web local authentication | |

Only when the console authentication mode is 'none', can the login authentication mode be configured.

| | |
|-------------------------------|--------------------------------|
| Login Authentication | Disabled |
| Login Authentication Password | Encrypted Text 1-32 characters |

Apply

| Login Authentication | Description |
|-------------------------------|---|
| Login Authentication | Default is Disable. |
| Login Authentication Password | Login Authentication password, choose the password encryption, otherwise no encryption of 1-32 characters |

1.6. Firmware Upgrade

1.6.1. TFTP Service

TFTP client service module, the user can upload or download files by TFTP way, and can upgrade the firmware of the switch by this method.

TFTP Service

| | | |
|-------------------|----------------------|------------------------------------|
| Server IP Address | <input type="text"/> | Example:10.10.10.1 |
| Server File Name | <input type="text"/> | 1-100 characters, Example: nos.img |
| Operation Type | Upload ▼ | |
| Transmission Type | binary ▼ | |

| | | |
|--------------------------|--|---|
| Server IP address | TFTP address IP peer server, point decimal | |
| Server File name | Source name to upload or download , 1-100 characters | |
| Operation type | Upload | Upload upgrade files from the switch to the TFTP server |
| | Download | Download upgrade files from TFTP server to switch |
| Transmission type | binary | Transfer files in binary format (default) |
| | ascii | Transfer files in ascii format |

1.6.2. FTP Service

FTP client service module, the user can upload or download files by FTP way, and can upgrade the firmware of the switch by this method.

FTP Service

| | | |
|-------------------|----------------------|------------------------------------|
| Server IP Address | <input type="text"/> | Example:10.10.10.1 |
| Username | <input type="text"/> | 1-100 characters |
| Password | <input type="text"/> | 1-100 characters |
| Server File Name | <input type="text"/> | 1-100 characters, Example: nos.img |
| Operation Type | Upload ▼ | |
| Transmission Type | binary ▼ | |

| | | |
|--------------------------|--|---|
| Server IP Address | FTP address IP peer server, point decimal | |
| Username | FTP server-to-server username , 1-100 characters | |
| Password | FTP server-side user password 1-100 characters | |
| Server File Name | Source name to upload or download , 1-100 characters | |
| Operation Type | Upload | Upload upgrade files from the switch to the TFTP server |
| | Download | Download upgrade files from TFTP server to switch |
| Transmission Type | binary | Transfer files in binary format (default) |
| | ascii | Transfer files in ascii format |

1.6.3. HTTP Upgrade

HTTP Upgrade module, the user can select file by HTTP way, and can upgrade the firmware of the switch by this method.

Local Upgrade

Select File

Decompress the package and select the img file for upgrade.

1.7. Management Config

1.7.1. TFTP

TFTP module, the user can import or export switch configuration by tftp.

Import Configuration

| | | |
|-------------------|----------------------|--|
| Server IP Address | <input type="text"/> | Example:10.10.10.1 |
| Server File Name | <input type="text"/> | 1-100 characters, Example: startup.cfg |
| Transmission Type | binary | |

Apply

Export Configuration

| | | |
|-------------------|----------------------|--|
| Server IP Address | <input type="text"/> | Example:10.10.10.1 |
| Server File Name | <input type="text"/> | 1-100 characters, Example: startup.cfg |

Apply

| | | |
|-------------------|--|---|
| Server IP Address | TFTP address IP peer server, point decimal | |
| Server File Name | Source name to upload or download , 1-100 characters | |
| Transmission Type | binary | Transfer files in binary format (default) |
| | ascii | Transfer files in ascii format |

1.7.2. HTTP

HTTP module, the user can **Download** or **Upload** switch **Running Configuration** or **Startup Configuration** by http.

HTTP Upload or Download File

| | | |
|----------------|-----------------------|--|
| Operation Type | Download | |
| File Type | Running Configuration | |

Apply

| | | |
|----------------|-----------------------|------------------------------|
| Operation Type | Download | To download files |
| | Upload | To upload files |
| File Type | Running Configuration | Switch running configuration |
| | Startup Configuration | Switch startup configuration |

1.8.NTP

1.8.1.NTP Config

NTP Config module, user can NTP service global switch operation.

NTP Global Config

NTP Global Config
 Off

| | | |
|-----------------------------|-----|--------------------------|
| NTP Global config Operation | Off | Close operation(default) |
| | On | Start |

NTP the server configuration module, the user can configure the specified time server of the switch time source in this module.

NTP Server Config

| | | |
|----------------|----------------------|--|
| Server Address | <input type="text"/> | IP address type,for example:10.10.10.1 |
| Version | <input type="text"/> | Version Range:1-4 |
| Key ID | <input type="text"/> | Key ID Range:1-4294967295 |

Apply

Showing 10 Entries Showing 1 to 1 of 1 entries Search

| <input type="checkbox"/> | No. | Server Address | Version | Key ID | |
|--------------------------|-----|-----------------|---------|--------|--|
| <input type="checkbox"/> | 1 | 162.159.200.123 | 4 | 0 | |

Delete
First
Previous
1
Next
Last

| | | |
|----------------|---|-------------------|
| Server address | The specified time server address decimal point | |
| Version | Version number, range 1-4, default 4 | |
| Key ID | Secret key value, range 1-4294967295 | |
| Operation | Apply | Add operations |
| | Delete | Delete operations |

1.8.2.NTP Authentication Config

NTP verification configuration module, the user can configure the switch NTP authentication related items.

NTP Authentication Config

| | | |
|-----------------------------|---------------------------------------|---------------------------|
| NTP Authentication Function | <input type="text" value="Disabled"/> | |
| Key ID | <input type="text"/> | Key ID Range:1-4294967295 |
| MD5 For Key ID | <input type="text"/> | 1-16 Characters ASCII |

Apply

Showing 10 Entries Showing 0 to 0 of 0 entries Search

| <input type="checkbox"/> | No. | Key ID | MD5 For Key ID | |
|--------------------------|-----|--------|----------------|--|
| 0 results found. | | | | |

Delete
First
Previous
Next
Last

| | | |
|-------------------------|---|--------------------------------|
| NTP authenticate switch | Disable | Close NTP validation (default) |
| | Enable | Enable NTP validation |
| Key ID | Secret key value, range 1-4294967295 | |
| MD5 For Key ID | The MD5 value of the secret key, which ranges from 1-16 of ascii code | |
| Operation | Apply | Add operations |
| | Delete | Delete operations |

1.9. SNTP

1.9.1. Server Config

SNTP the server settings module, the user can add or delete the specified time server as the clock source.

SNTP Server Config

| | | |
|----------------|----------------------|---|
| Server Address | <input type="text"/> | <small>IP address type, for example: 10.10.10.1</small> |
| Version | <input type="text"/> | <small>Version Range: 1-4</small> |

| <input type="checkbox"/> | No. | Server Address | Version | State |
|--------------------------|-----|----------------|---------|-------|
| | | | | |

| | | |
|----------------|---|-------------------|
| Server address | The specified time server address decimal point | |
| Version | Version number, range 1-4, default 4 | |
| Operation | Apply | Add operations |
| | Delete | Delete operations |

1.9.2. Time Zone Config

SNTP the time zone and UTC time difference setting module where the client is located, the user can set the switch's current time zone and name it.

Time Zone Config

| | | |
|-----------------|---|---------------------------------|
| Time Zone | <input type="text" value="UTC"/> | <small>(1-16 character)</small> |
| Time Difference | <input checked="" type="radio"/> After-utc <input type="radio"/> Before-utc | |
| Time Value | <input type="text" value="00"/> | <input type="text" value="00"/> |
| | <small>Range: 0-23, 0-59</small> | |
| Operation Type | <input type="text" value="Add"/> | |

| | | |
|-----------------|--------------------------------------|---|
| Time zone | Time zone name , 1-16 characters | |
| Time difference | After-utc | Increased time zone behavior |
| | Before-utc | Reduced time zone behavior |
| Time value | Time zone specific change hours 0-23 | Time zone specific change minute value 0-59 |
| Operation | Add | Add operations |
| | Default | Restore time zone default configuration |

1. 10. Device Management

1. 10. 1. Device Reboot/Reset

Device Reboot/Reset module, the user can restart the switch by **Reboot** button. can also leave the factory initial settings restart by **Reset** button, but also can save the current set configuration by **Save** button.

Device Management

| | | |
|---------|--------|--|
| Reboot | Reboot | Reboot the switch. |
| Default | Reset | Restore factory configuration and reboot the switch. |
| Save | Save | Save current device configure. |

1. 10. 2. System Utilization

This module is used to display resource usage cpu current system but also display the current system memory resource usage.

Show cpu usage

| | |
|--------------------------|-----|
| Last 5 second CPU usage | 35% |
| Last 30 second CPU usage | 32% |
| Last 1 minute CPU usage | 32% |
| Last 5 minute CPU usage | 33% |
| From running CPU usage | 33% |

Show memory usage

| | |
|------------------|-----------------|
| The memory total | 512 MB |
| Free | 439259136 Bytes |
| Usage | 18.18% |

1. 10. 3. View System Config

This module is used to display configuration information in the current system run.

Current System Operation Configuration

```
!
no service password-encryption
!
hostname Switch
sysLocation Default
sysContact Default
!
multi config access
!
username admin privilege 15 password 0 admin
!
authentication line console login local
authentication securityip6 2002::c0a8:101
!
!
!
!
!
!
ip http secure-server
!
!
!
!
!
```

1. 10. 4. View Logging Buffer

This module is used to display system logging information in the current system run.

```
System Buffer Log
Current messages in SDRAM:17
8 %Sep 21 00:02:00.120 2023 <critical> DEFAULT[zIMJ]:System warm restart...
1 %Sep 21 00:00:00.000 2023 <critical> DEFAULT[UsrRoot]:Switch is start, software version is V300SP10230921
```

1. 10. 5. View Logging Flash

This module is used to display system flash log information in the current system run.

```
System Flash Log
Allowed max messages:655,Current messages:31
31 %May 22 00:02:07 2023 <critical> DEFAULT[zIMJ]:System cold restart...
30 %May 22 00:00:00 2023 <critical> DEFAULT[UsrRoot]:Switch is start, software version is V200SP10230522
29 %May 22 00:02:07 2023 <critical> DEFAULT[zIMJ]:System cold restart...
28 %May 22 00:00:00 2023 <critical> DEFAULT[UsrRoot]:Switch is start, software version is V200SP10230522
27 %May 22 00:01:56 2023 <critical> DEFAULT[zIMJ]:System warm restart...
26 %May 22 00:00:00 2023 <critical> DEFAULT[UsrRoot]:Switch is start, software version is V200SP10230522
25 %May 22 08:13:26 2023 <critical> DEFAULT[zIMJ]:System will be rebooted, reason: reload by CLI
24 %May 22 00:05:07 2023 <critical> MODULE_UTILS_FILESYSTEM[zIMJ]:fs_write_file 1728: FS_DEV_UNLOCK Slot: 1 dev_name:flash: file_name:flash/startup.cfg
23 %May 22 00:05:07 2023 <critical> MODULE_UTILS_FILESYSTEM[zIMJ]:fs_write_file 1710: FS_DEV_LOCK_NO_WAIT Slot: 1 dev_name:flash: file_name:flash/startup.cfg
22 %May 22 00:02:07 2023 <critical> DEFAULT[zIMJ]:System cold restart...
21 %May 22 00:00:00 2023 <critical> DEFAULT[UsrRoot]:Switch is start, software version is V200SP10230522
20 %May 22 00:02:08 2023 <critical> DEFAULT[zIMJ]:System cold restart...
19 %May 22 00:00:00 2023 <critical> DEFAULT[UsrRoot]:Switch is start, software version is V200SP10230522
18 %May 22 00:01:53 2023 <critical> DEFAULT[zIMJ]:System warm restart...
17 %May 22 00:00:00 2023 <critical> DEFAULT[UsrRoot]:Switch is start, software version is V200SP10230522
16 %May 19 00:04:52 2023 <critical> DEFAULT[WebCfg]:Write file nos.img OK
15 %May 19 00:04:52 2023 <critical> MODULE_UTILS_FILESYSTEM[WebCfg]:fs_write_file 1728: FS_DEV_UNLOCK Slot: 1 dev_name:flash: file_name:flash/nos.img
14 %May 19 00:04:04 2023 <critical> MODULE_UTILS_FILESYSTEM[WebCfg]:fs_write_file 1710: FS_DEV_LOCK_NO_WAIT Slot: 1 dev_name:flash: file_name:flash/nos.img
13 %May 19 00:04:04 2023 <critical> DEFAULT[WebCfg]:Begin to write file nos.img.
12 %May 19 00:01:55 2023 <critical> DEFAULT[zIMJ]:System warm restart...
11 %May 19 00:00:00 2023 <critical> DEFAULT[UsrRoot]:Switch is start, software version is V200SP10230519
10 %May 19 00:04:02 2023 <critical> DEFAULT[zIMJ]:System will be rebooted, reason: reload by CLI
9 %May 19 00:01:22 2023 <critical> DEFAULT[zIMJ]:System warm restart...
8 %May 19 00:00:00 2023 <critical> DEFAULT[UsrRoot]:Switch is start, software version is V200SP10230519
7 %May 19 00:02:29 2023 <critical> DEFAULT[zIMJ]:System will be rebooted, reason: reload by CLI
6 %May 19 00:01:22 2023 <critical> DEFAULT[zIMJ]:System warm restart...
```

2. Monitor Management

2.1. SSH Config

SSH Config module, the user can configure the SSH status and SSH timeout.

SSH Config

Enabled Off

SSH Config

Enabled On

SSH Server Configuration

| | | |
|--------------------|-----|-------------------------|
| Timeout Time | 180 | (10-600s, Default:180s) |
| Maximum Connection | 5 | (1-16, Default:5) |

Apply

| | | |
|---------------------------|--|----------------|
| Enabled Operation | Off: Close operation (default) | |
| | On: Start | |
| Timeout Time | Timeout of exit SSH login status, 10-600 seconds (default 180s) | |
| Maximum Connection | Maximum number of connections logged in by SSH, range 1-16 (default 5) | |
| Operation | Apply | Add operations |

2.2. Telnet Config

Telnet server status module, where users can enabled on or off login switches by Telnet.

Telnet Server State

Enabled On

Maximum Connection

| | | |
|--------------------------|---|-------------------|
| Telnet Connection Number | 5 | (1-16, Default:5) |
|--------------------------|---|-------------------|

Apply

| | | |
|--|---|----------------|
| Telnet access connection number | Maximum number of connections logged in by Telnet, range 1-16 (default 5) | |
| Operation | Apply | Add operations |

2.3. Port Statistics

This page displays port statistics information.

| Port Statistics | | | | | | | | | | | | | | | | | | | | |
|--------------------------|----------------|-----------------|-----------------|-----------------------|-------------------------|-------------------------|---------------|---------------|---------|---------------------|-------------|-------------|-----------|------------------|---------------|------------|---------------|----------------|--------------------|---|
| PORT | Link Status | Rate(Bps) (R/T) | Rate(pps) (R/T) | unicast packets (R/T) | multicast packets (R/T) | broadcast packets (R/T) | input errors | output errors | CRC (R) | frame alignment (R) | overrun (R) | ignored (R) | abort (R) | length error (R) | undersize (R) | jabber (R) | fragments (R) | collisions (T) | late collision (T) | |
| <input type="checkbox"/> | Ethernet1/0/1 | Disconnect | 0/0 | 0/0 | 0.0/0.0 | 0.0/0.0 | 0.0/0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <input type="checkbox"/> | Ethernet1/0/2 | Connected | 0/1884 | 0/2 | 148.0/367.0 | 2.0/194678.0 | 0.0/16824.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <input type="checkbox"/> | Ethernet1/0/3 | Disconnect | 0/0 | 0/0 | 0.0/0.0 | 0.0/0.0 | 0.0/0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <input type="checkbox"/> | Ethernet1/0/4 | Disconnect | 0/0 | 0/0 | 0.0/0.0 | 0.0/0.0 | 0.0/0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <input type="checkbox"/> | Ethernet1/0/5 | Disconnect | 0/0 | 0/0 | 0.0/0.0 | 0.0/0.0 | 0.0/0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <input type="checkbox"/> | Ethernet1/0/6 | Disconnect | 0/0 | 0/0 | 0.0/0.0 | 0.0/0.0 | 0.0/0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <input type="checkbox"/> | Ethernet1/0/7 | Disconnect | 0/0 | 0/0 | 0.0/0.0 | 0.0/0.0 | 0.0/0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <input type="checkbox"/> | Ethernet1/0/8 | Disconnect | 941/91 | 1/0 | 0.0/0.0 | 172.0/29.0 | 88.0/0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <input type="checkbox"/> | Ethernet1/0/9 | Disconnect | 0/0 | 0/0 | 0.0/0.0 | 0.0/0.0 | 0.0/0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <input type="checkbox"/> | Ethernet1/0/10 | Connected | 528/204 | 1/0 | 5661.0/7712.0 | 5416.0/58820.0 | 8814.0/0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <input type="checkbox"/> | Ethernet1/0/11 | Disconnect | 0/0 | 0/0 | 0.0/0.0 | 0.0/0.0 | 0.0/0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <input type="checkbox"/> | Ethernet1/0/12 | Disconnect | 0/0 | 0/0 | 0.0/0.0 | 167.0/11.0 | 80.0/0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <input type="checkbox"/> | Ethernet1/0/13 | Disconnect | 0/0 | 0/0 | 0.0/0.0 | 0.0/0.0 | 0.0/0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <input type="checkbox"/> | Ethernet1/0/14 | Disconnect | 0/0 | 0/0 | 48061.0/55055.0 | 3887.0/57351.0 | 7883.0/3.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <input type="checkbox"/> | Ethernet1/0/15 | Disconnect | 0/0 | 0/0 | 0.0/0.0 | 0.0/0.0 | 0.0/0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <input type="checkbox"/> | Ethernet1/0/16 | Disconnect | 0/0 | 0/0 | 0.0/0.0 | 0.0/0.0 | 0.0/0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <input type="checkbox"/> | Ethernet1/0/17 | Connected | 1555/1592 | 2/2 | 115164.0/117485.0 | 116460.0/114824.0 | 350.0/5272.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <input type="checkbox"/> | Ethernet1/0/18 | Connected | 846/1024 | 1/1 | 300.0/222.0 | 115873.0/112437.0 | 4.0/1380.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <input type="checkbox"/> | Ethernet1/0/19 | Connected | 824/890 | 1/1 | 2225.0/217.0 | 116522.0/116130.0 | 34.0/10116.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <input type="checkbox"/> | Ethernet1/0/20 | Disconnect | 0/0 | 0/0 | 41.0/77.0 | 38934.0/37839.0 | 0.0/57.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <input type="checkbox"/> | Ethernet1/0/21 | Disconnect | 0/0 | 0/0 | 0.0/0.0 | 0.0/0.0 | 0.0/0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <input type="checkbox"/> | Ethernet1/0/22 | Disconnect | 0/0 | 0/0 | 0.0/0.0 | 0.0/0.0 | 0.0/0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <input type="checkbox"/> | Ethernet1/0/23 | Disconnect | 0/0 | 0/0 | 0.0/0.0 | 0.0/0.0 | 0.0/0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <input type="checkbox"/> | Ethernet1/0/24 | Connected | 28/495 | 0/1 | 3204.0/3408.0 | 62.0/33362.0 | 125.0/65.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <input type="checkbox"/> | Ethernet1/0/25 | Disconnect | 0/0 | 0/0 | 0.0/0.0 | 0.0/0.0 | 0.0/0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <input type="checkbox"/> | Ethernet1/0/26 | Disconnect | 0/0 | 0/0 | 0.0/0.0 | 0.0/0.0 | 0.0/0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <input type="checkbox"/> | Ethernet1/0/27 | Disconnect | 0/0 | 0/0 | 0.0/0.0 | 0.0/0.0 | 0.0/0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <input type="checkbox"/> | Ethernet1/0/28 | Disconnect | 0/0 | 0/0 | 0.0/0.0 | 0.0/0.0 | 0.0/0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <input type="checkbox"/> | Port-Channel1 | Connected | 3225/3506 | 4/5 | 235460.0/236002.0 | 775578.0/762460.0 | 776.0/33650.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <input type="checkbox"/> | Port-Channel2 | Connected | 528/204 | 1/0 | 5661.0/7712.0 | 5416.0/58820.0 | 8814.0/0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | |
|-------------------------|---|
| Port | physical ports |
| Link Status | Link Status: Connected; Disconnect |
| Rate (bps) (R/T) | Rate (bps) : Received/Transmit; |
| Rate (pps) (R/T) | Rate (pps) : Received/Transmit; |
| Unicast packets (R/T) | Unicast packets: Received/Transmit; |
| multicast packets (R/T) | multicast packets: Received/Transmit; |
| brocast packets (R/T) | brocast packets: Received/Transmit; |
| Input errors | Input erros |
| output errors | Output erros |
| CRC (R) | CRC(Cyclic Redundancy Check) Received; |
| frame alignment (R) | Frame Alignment Received; |
| overrun (R) | Overrun Received; |

| | |
|---------------------|--|
| ignored (R) | Ignored Received; |
| abort (R) | Abort Received; |
| length error (R) | Length error Received; |
| undersize (R) | Undersize Received; |
| jabber (R) | Jabber Received; |
| fragments (R) | Fragments Received; |
| collisions (T) | Collisions Transmit; |
| late collisions (T) | Late Collisions Transmit; |
| pause frame (R/T) | Pause Frame Received/Transmit; |
| Refresh | Refresh Port Statistics |
| Delete | Select the port and click delete to clear Port Statistics |

2.4. DDMI Status

This page displays fiber module information.

Fiber Module Table

| Port | Vendor Name | Part Number | TX Power (dBm) | RX Power (dBm) | Temperature (°C) | Voltage (V) | Bias (mA) |
|----------------|-------------|-------------|----------------|----------------|------------------|-------------|-----------|
| Ethernet1/0/25 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Ethernet1/0/26 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Ethernet1/0/27 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Ethernet1/0/28 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

Refresh

Fiber Module Table

| Port | Vendor Name | Part Number | TX Power (dBm) | RX Power (dBm) | Temperature (°C) | Voltage (V) | Bias (mA) |
|----------------|-------------|-----------------|----------------|----------------|------------------|-------------|-----------|
| Ethernet1/0/25 | OEM | SFP-1.25G-BX10U | -6.05 | -40.00(A-) | 7 | 3.31 | 19.46 |
| Ethernet1/0/26 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Ethernet1/0/27 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Ethernet1/0/28 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

Refresh

| | |
|------------------|---|
| Port | fiber ports |
| Temperature (°C) | Display the temperature of the fiber module |
| Bias (mA) | Display the Bias of the fiber module. |
| RX Power (dBm) | Display the RX Power of the fiber module. |
| TX Power (dBm) | Display the TX Power of the fiber module. |

2.5. Ping

The user can run ping command.

Ping

Server address

Ping Result

2.6. Traceroute

The user can run route tracking command.

Traceroute

Server address

Traceroute Result

2.7. Cable Diagnostics

This chapter can be used to detect port link lines.
 To display the “Cable Diagnostics” page, click Monitor Management
 ->Cable Diagnostics, click “Apply” to configure.

Cable Diagnostics

| <input type="checkbox"/> | Port | Test Result | Description | Cable Length(meters) |
|--------------------------|----------------|-------------|-------------|----------------------|
| <input type="checkbox"/> | Ethernet1/0/1 | - | - | - |
| <input type="checkbox"/> | Ethernet1/0/2 | - | - | - |
| <input type="checkbox"/> | Ethernet1/0/3 | - | - | - |
| <input type="checkbox"/> | Ethernet1/0/4 | - | - | - |
| <input type="checkbox"/> | Ethernet1/0/5 | - | - | - |
| <input type="checkbox"/> | Ethernet1/0/6 | - | - | - |
| <input type="checkbox"/> | Ethernet1/0/7 | - | - | - |
| <input type="checkbox"/> | Ethernet1/0/8 | - | - | - |
| <input type="checkbox"/> | Ethernet1/0/9 | - | - | - |
| <input type="checkbox"/> | Ethernet1/0/10 | - | - | - |
| <input type="checkbox"/> | Ethernet1/0/11 | - | - | - |
| <input type="checkbox"/> | Ethernet1/0/12 | - | - | - |
| <input type="checkbox"/> | Ethernet1/0/13 | - | - | - |
| <input type="checkbox"/> | Ethernet1/0/14 | - | - | - |
| <input type="checkbox"/> | Ethernet1/0/15 | - | - | - |
| <input type="checkbox"/> | Ethernet1/0/16 | - | - | - |
| <input type="checkbox"/> | Ethernet1/0/17 | - | - | - |
| <input type="checkbox"/> | Ethernet1/0/18 | - | - | - |
| <input type="checkbox"/> | Ethernet1/0/19 | - | - | - |
| <input type="checkbox"/> | Ethernet1/0/20 | - | - | - |
| <input type="checkbox"/> | Ethernet1/0/21 | - | - | - |
| <input type="checkbox"/> | Ethernet1/0/22 | - | - | - |
| <input type="checkbox"/> | Ethernet1/0/23 | - | - | - |
| <input type="checkbox"/> | Ethernet1/0/24 | - | - | - |

Cable Diagnostics

| <input type="checkbox"/> | Port | Test Result | Description | Cable Length(meters) |
|--------------------------|---------------|-------------|--|--|
| <input type="checkbox"/> | Ethernet1/0/1 | Disconnect | Please check whether the network cable is connectedAbnormal | (1, 2) 1 (3, 6) 1 (4, 5) 2 (7, 8) 1 |
| <input type="checkbox"/> | Ethernet1/0/2 | Normal | Normal(Correctly terminated pair) | (1, 2) 1 (3, 6) 1 (4, 5) 1 (7, 8) 1 |
| <input type="checkbox"/> | Ethernet1/0/3 | Disconnect | Please check whether the network cable is connected(Open pair,no link partner) | (1, 2) 2 (3, 6) 2 (4, 5) 1 (7, 8) 2 |
| <input type="checkbox"/> | Ethernet1/0/4 | Disconnect | Please check whether the network cable is connected(Open pair,no link partner) | (1, 2) 2 (3, 6) 2 (4, 5) 2 (7, 8) 1 |
| <input type="checkbox"/> | Ethernet1/0/5 | Disconnect | Please check whether the network cable is connected(Open pair,no link partner) | (1, 2) 2 (3, 6) 2 (4, 5) 2 (7, 8) 1 |
| <input type="checkbox"/> | Ethernet1/0/6 | Disconnect | Please check whether the network cable is connected(Open pair,no link partner) | (1, 2) 2 (3, 6) 2 (4, 5) 2 (7, 8) 1 |
| <input type="checkbox"/> | Ethernet1/0/7 | Disconnect | Please check whether the network cable is connected(Open pair,no link partner) | (1, 2) 1 (3, 6) 1 (4, 5) 2 (7, 8) 2 |
| <input type="checkbox"/> | Ethernet1/0/8 | Disconnect | Please check whether the network cable is connected(Open pair,no link partner) | (1, 2) 2 (3, 6) 1 (4, 5) 2 (7, 8) 2 |

2.8. SNMP Config

2.8.1. Global Config

SNMP network management function switch module, users can enable or disable SNMP functions. SNMP Agent State and Trap state default is disable. Security IP state

SNMP Management

| | | |
|-------------|----------|---|
| Agent State | Disabled | ▼ |
| RMON | Disabled | ▼ |
| Trap | Disabled | ▼ |
| Security IP | Disabled | ▼ |

[Save](#)

2.8.2. User Config

SNMP user management module, users can add or delete SNMP user operations in this module.

Users

| | | |
|--------------------------|----------------------|-------------------|
| Username | <input type="text"/> | (1-32 characters) |
| Group Name | <input type="text"/> | (1-32 characters) |
| Security Level | noAuthNoPriv | ▼ |
| IPv4 Access Control List | <input type="text"/> | (1-64 characters) |
| IPv6 Access Control List | <input type="text"/> | (1-64 characters) |

[Apply](#)

User Configuration Status Table

Showing 10 ▾ Entries Showing 0 to 0 of 0 entries

| <input type="checkbox"/> | Username | Group Name | Security Level | Authentication Protocol | Privacy Protocol | IPv4 Access Control List | IPv6 Access Control List |
|--------------------------|----------|------------|----------------|-------------------------|------------------|--------------------------|--------------------------|
| 0 results found. | | | | | | | |

[Delete](#) [First](#) [Previous](#) [Next](#) [Last](#)

| | | |
|---------------------------------|---|---|
| Username | User name to operate ,1-32 characters | |
| Group Name | User group to join ,1-32 characters | |
| Security Level | noAuthNoPriv | Uncertified non-encrypted level |
| | authNoPriv | Authentication but not encryption level |
| | authpriv | Authentication and encryption level |
| Authentication protocol: | MD5 | HMAC MD5 algorithm for authentication |
| | SHA | Authentication uses HMAC SHA algorithms |
| Authentication password: | Password for authentication | |
| Privacy protocol: | DES | Encryption DES algorithm |
| | AES | Encryption AES algorithm |
| | 3DES | Encryption with 3 DES algorithm |
| Privacy password: | Password for encryption | |
| IPv4 access control list | Standard IPv4 access control list number, range 1-64 characters | |
| IPv6 access control list | Standard IPv6 access control list number, range 1-64 characters | |

2.8.3. Group Config

SNMP group management module in which users can add or delete SNMP group operations.

Groups

| | | |
|------------------|----------------------|-------------------|
| Group Name | <input type="text"/> | (1-32 characters) |
| Security Level | noAuthNoPriv | |
| Read SNMP View | <input type="text"/> | (1-32 characters) |
| Write SNMP View | <input type="text"/> | (1-32 characters) |
| Notify SNMP View | <input type="text"/> | (1-32 characters) |

[Apply](#)

Snmp Group Table

Showing 10 Entries Showing 0 to 0 of 0 entries Search

| <input type="checkbox"/> | Group Name | Security Level | SNMP View | SNMP View | SNMP View |
|--------------------------|------------|----------------|-----------|-----------|-----------|
| 0 results found. | | | | | |

[Delete](#) [First](#) [Previous](#) [Next](#) [Last](#)

| | | |
|-------------------------|--|---|
| Group Name | User group name to operate ,1-32 characters | |
| Security level | noAuthNoPriv | Uncertified non-encrypted level |
| | authNoPriv | Authentication but not encryption level |
| | authpriv | Authentication and encryption level |
| Read SNMP view | Name of readable view, including 1-32 characters | |
| Write SNMP view | Name of writable view, including 1-32 characters | |
| Notify SNMP view | Notice the name of the view, including 1-32 characters | |
| Operation | Apply | Add SNMP groups |
| | Delete | Delete SNMP groups |

2.8.4. Community Config

The community management module where users can configure SNMP community management.

Community Managers

| | | |
|------------------------------------|---|--------------------|
| Community Name | <input type="text" value=""/> | (1-255 characters) |
| Access Priority | Readonly ▼ | |
| <input type="button" value="Add"/> | | |

Community Managers Status Table

| | | |
|---------------------------------------|----------------|-----------------|
| <input type="checkbox"/> | Community Name | Access Priority |
| <input type="button" value="Delete"/> | | |

| | | |
|------------------------|---|---------------------------------------|
| Community Name | Community string name ,1-255 characters | |
| Access Priority | Read only | Read-only permission level |
| | Read-write | Read and write permission level |
| Operation | Add | Do Community string add operations |
| | Delete | Do Community string delete operations |

2.8.5. Trap Config

The trap config where users can configure trap management settings.

TRAP Manager Config

| | | |
|------------------------------------|---|-----------------|
| TRAP Receiver | <input type="text" value=""/> | Example:1.1.1.5 |
| Version | V1 ▼ | |
| Community Name | <input type="text" value=""/> | |
| <input type="button" value="Add"/> | | |

TRAP Manager Status Table

| | | | | | |
|---------------------------------------|---------------|------------------|---------|----------------|-------------|
| <input type="checkbox"/> | TRAP Receiver | Community Config | Version | Security Level | User Config |
| <input type="button" value="Delete"/> | | | | | |

| | | |
|---|---|--|
| Trap Receiver | Recipient IPv4/IPv6 address of Trap information | |
| Community Name | Community string name, V1/V2 version :1-255 characters, V3 version :1-24 characters | |
| Version | Three versions:V1/V2C/V3 | |
| Security level (V3 version support only) | noAuthNoPriv | Uncertified non-encrypted level |
| | authNoPriv | Authentication but not encryption level |
| | authpriv | Authentication and encryption level |
| Operation | Add | For Trap information receiver add operation |
| | Delete | For Trap information receiver remove operation |

2.8.6. View Config

SNMP view management module in which users can add or delete SNMP view operations.

Views

| | | |
|-----------|--|-------------------------|
| SNMP View | <input type="text" value=""/> | (1-32 characters) |
| OID | <input type="text" value=""/> | Example:1.3.6.1.2.1.1.1 |
| Type | Include ▼ | |

Apply

View Table

Showing 10 Entries Showing 1 to 3 of 3 entries Search

| | SNMP View | OID | Type |
|--------------------------|-------------------|------|---------|
| <input type="checkbox"/> | v1defaultviewname | 1.0. | Include |
| <input type="checkbox"/> | v1defaultviewname | 1.2. | Include |
| <input type="checkbox"/> | v1defaultviewname | 1.3. | Include |

Delete First Previous 1 Next Last

| | | |
|------------------|--|------------------|
| SNMP view | User view name to operate, 1-32 characters | |
| OID | OID number to operate, decimal | |
| Type: | Include | Include this OID |
| | Exclude | Exclude this OID |
| Operation | Apply | Add view |
| | Delete | Delete View |

SNMP Engineid configuration module, the user can configure SNMP Engineid operation in this module.

SNMP engineid configuration

| | | |
|----------------|--|--------------------|
| Engineid | <input type="text" value="18c384E5D8E01F5F"/> | Example:18c30125fa |
| Operation Type | Configuration ▼ | |

Apply

| | | |
|------------------|----------------------------------|--|
| Engineid | Engine id, Hex , 1-32 characters | |
| Operation | configuration | Configuration operations |
| | Default | Restore default (default is company ID plus local MAC address) |

2.8.7. Security IP Config

The administrator IP the address setting module, where the user can add or delete the SNMP manager's safe IP address.

Manager Security IP Configuration

| | | |
|---------------------|-------------------------------|-----------------|
| Security IP Address | <input type="text" value=""/> | Example:1.1.1.5 |
|---------------------|-------------------------------|-----------------|

Apply

| | |
|--------------------------|---------------------|
| <input type="checkbox"/> | Security IP Address |
|--------------------------|---------------------|

Delete

| | | |
|-------------------------|-----------|--|
| Security address | IP | SNMP Management Security IPv4/IPv6 Address |
| Operation | Apply | Add a Security IP |
| | Delete | Delete a Security IP |

2.8.8. SNMP Statistics

SNMP statistical information module, users in this module can view the SNMP function feedback information.

SNMP Statistics

| | |
|---|----------|
| SNMP packets input | 0 |
| Bad SNMP version errors | 0 |
| Unknown community name | 0 |
| Illegal operation for community name supplied | 0 |
| Encoding errors | 0 |
| Number of requested variables | 0 |
| Number of altered variables | 0 |
| Get-request PDUs | 0 |
| Get-next PDUs | 0 |
| Set-request PDUs | 0 |
| SNMP packets output | 0 |
| Too big errors (Max packet size 1500) | 0 |
| No such name errors | 0 |
| Bad values errors | 0 |
| General errors | 0 |
| Get-response PDUs | 0 |
| SNMP trap PDUs | 0 |

[Refresh](#)

2.9. Onvif Config

2.9.1. Server Config

Onvif server global switch configuration module, user can Onvif server global switch operation.

Server Config

Server Config Off

| | |
|----------------------|-------------------------------|
| Server config | Off: Close operation(default) |
| Operation | On: Start |

2.9.2. Detect Config

Onvif detect config module, Click the **Send** button to send an Onvif detection packet to discover the device.

Detect Config

| <input type="checkbox"/> | MAC Address | IP Address | Port | Model | Description | Location |
|---|-------------|------------|------|-------|-------------|----------|
| Send Package Delete | | | | | | |

Detect Config

| <input type="checkbox"/> | MAC Address | IP Address | Port | Model | Description | Location |
|--------------------------|-------------------|---------------|------|---------------------|---------------------|----------|
| <input type="checkbox"/> | 48:ea:f3:28:a0:63 | 192.168.19.72 | 18 | IPC331S-IR3-PF40-DT | IPC331S-IR3-PF40-DT | Unknow |
| <input type="checkbox"/> | 48:ea:f3:60:69:83 | 192.168.19.8 | 18 | NVR304-32E-B-DT | NVR304-32E-B-DT | country |

[Send Package](#)
[Delete](#)

2.10. Loopback Detection

2.10.1. Port Mode

The configuration of the page is used to set the loop detection control method.

To display the “Port Mode” page, click Monitor Management ->Loopback Detection->Port Mode, click “Apply” to configure.

Port Mode

| | | |
|--|-------------------------|-------------------------------------|
| | Port | --Please select -- |
| | Loopback-detection Mode | No <input type="button" value="v"/> |

| | |
|--------------------------------|---|
| Port | Ethernet port name |
| Loopback-detection mode | Operation in case of loop: No: no control mode Shutdown: Disable port block : Block port |
| Operation | Operation of loop detection function: Apply: Configure control mode |

| Port | Loopback-detection Mode |
|----------------|-------------------------|
| Ethernet1/0/1 | No |
| Ethernet1/0/2 | No |
| Ethernet1/0/3 | No |
| Ethernet1/0/4 | No |
| Ethernet1/0/5 | No |
| Ethernet1/0/6 | No |
| Ethernet1/0/7 | No |
| Ethernet1/0/8 | No |
| Ethernet1/0/9 | No |
| Ethernet1/0/10 | No |
| Ethernet1/0/11 | No |
| Ethernet1/0/12 | No |

| | |
|--------------------------------|--|
| Port | Ethernet port name |
| Loopback-detection mode | Shutdown: Disable port block : Block port No:Disable port loop detection |

2.10.2. VLAN Loopback

This page can be used to configure VLAN loop detection function enabled or disabled.

To display the “VLAN Loopback” page, click Monitor Management ->Loopback Detection->VLAN Loopback, click “Apply” to configure.

VLAN Loopback

| | |
|------------------|------------------------------|
| Port | --Please select -- |
| VLAN List | (1-4094, for example: 1;3-6) |

| Port | VLAN List |
|---------------|-----------|
| Ethernet1/0/1 | |
| Ethernet1/0/2 | |
| Ethernet1/0/3 | |
| Ethernet1/0/4 | |
| Ethernet1/0/5 | |
| Ethernet1/0/6 | |
| Ethernet1/0/7 | |
| Ethernet1/0/8 | |

| | |
|------------------|--------------------------------|
| Port | Ethernet port name |
| VLAN ID | VLAN ID, range 1-4094 |
| Operation | Apply: Set VLAN loop detection |

2.10.3. Interval Time

This page can be used to configure the loop detection interval.

To display the “Interval Time” page, click Monitor Management ->Loopback Detection-> Interval Time, click “Apply” to configure.

Interval Time

| | | |
|-------------------------------------|---|----------------------|
| Loopback-detection Interval Time | 5 | (5-300s, Default:5s) |
| No Loopback-detection Interval Time | 3 | (1-30s, Default:3s) |

| | |
|--|---|
| Loopback-detection interval time | Interval time between loops, size 5-300 seconds, default is 5. |
| No Loopback-detection interval time | No loop interval, size 1-30 seconds, default is 3. |
| Operation | Configuration: Set the test time by yourself. Default: Restore the default configuration, there is a loop detection interval of 35 seconds, there is no loop detection interval of 15 seconds. |

2.10.4. Recovery Timeout

This page is used to configure loop detection to automatically return to an uncontrolled state.

To display the “Recovery Timeout” page, click Monitor Management -> Loopback Detection -> Recovery Timeout, click “Apply” to configure.

Recovery Timeout

| | | |
|-------------------------|-----|-------------------------|
| Recovery Switch Timeout | 600 | (0-3600s, Default:600s) |
|-------------------------|-----|-------------------------|

Apply

| | |
|--------------------------------|---|
| Recovery switch timeout | When a port is disabled or blocked due to a loop, it automatically recovers to an uncontrolled time, the size range is 0-3600 seconds. When it is configured as 0, the auto recovery function is disabled. Default is 600 |
|--------------------------------|---|

2.11. LLDP Config

2.11.1. Global Config

This page can be configured to enable or disable LLDP functionality, configure the interval between sending updates, configure the value of the message aging time multiplier, configure the sending delay time of the update message, configure the interval between sending Trap messages.

Global Config

This page is used to configure global properties of the LLDP function

| | | |
|--|----------|----------------------|
| Status | Disabled | |
| Hello Message Sending Time | 30 | (5-32768),Default:30 |
| Aging Multiple | 4 | (2-10),Default:4 |
| Delay Time ? | 2 | (1-8192),Default:2 |
| Trap Interval ? | 5 | (5-3600),Default:5 |
| Operation Type | Apply | |

Apply

| | |
|----------------------------|--|
| Status(lldp enable) | Enable: Global On LLDP Function Disable: Global Off LLDP Function |
|----------------------------|--|

| | |
|-----------------------------------|---|
| Hello Message Sending Time | Update message sending interval between 5-32768 seconds. the default configuration is 30 seconds. |
|-----------------------------------|---|

| | |
|-----------------------|--|
| Aging Multiple | Numerical magnitude between 2-10, the default configuration is 4 |
| Delay Time | Value between 1-8192 seconds, the default configuration is 2 |
| Trap Interval | Value between 5 and 3600 seconds, the default configuration is 5 |
| Operation Type | Apply: User self-configuration Default: Restore default configuration |

2.11.2. Port Config

This page can be configured to enable or disable LLDP Port functionality.

Trust Config

This page is used to set port attributes for the LLDP function

| | | |
|-------------------------|--------------------|---------------------|
| Port | --Please select -- | |
| LLDP Enable | Enabled | ▼ |
| Trap Enable | Disabled | ▼ |
| Agent State | both | ▼ |
| Operation Type ? | Discard | ▼ |
| Entry Max ? | 100 | (5-500,Default:100) |

Apply

| | |
|--------------------------------------|---|
| Port | Ethernet port name |
| LLDP port Enable type | Enable or disable LLDP functions |
| LLDP port Trap enable type | Enable or disable Trap functions |
| LLDP mode | Agent State: Send; Receive; Both; Disable; |
| LLDP too many neighbors value | Discard : Discard new neighbor information Delete : Delete the neighbor information with the least aging time in the remote table, and then add new neighbor information |
| LLDP neighbors max-num value | Remote table maximum save entry size 5-500 |

| Port | LLDP Enable | Trap Enable | Agent State | Operation Type | Entry Max |
|----------------|-------------|-------------|-------------|----------------|-----------|
| Ethernet1/0/1 | Enabled | Enabled | Both | Discard | 100 |
| Ethernet1/0/2 | Enabled | Disabled | Both | Discard | 100 |
| Ethernet1/0/3 | Enabled | Disabled | Both | Discard | 100 |
| Ethernet1/0/4 | Enabled | Disabled | Both | Discard | 100 |
| Ethernet1/0/5 | Enabled | Disabled | Both | Discard | 100 |
| Ethernet1/0/6 | Enabled | Disabled | Both | Discard | 100 |
| Ethernet1/0/7 | Enabled | Disabled | Both | Discard | 100 |
| Ethernet1/0/8 | Enabled | Disabled | Both | Discard | 100 |
| Ethernet1/0/9 | Enabled | Disabled | Both | Discard | 100 |
| Ethernet1/0/10 | Enabled | Disabled | Both | Discard | 100 |
| Ethernet1/0/11 | Enabled | Disabled | Both | Discard | 100 |
| Ethernet1/0/12 | Enabled | Disabled | Both | Discard | 100 |
| Ethernet1/0/13 | Enabled | Disabled | Both | Discard | 100 |
| Ethernet1/0/14 | Enabled | Disabled | Both | Discard | 100 |
| Ethernet1/0/15 | Enabled | Disabled | Both | Discard | 100 |
| Ethernet1/0/16 | Enabled | Disabled | Both | Discard | 100 |
| Ethernet1/0/17 | Enabled | Disabled | Both | Discard | 100 |
| Ethernet1/0/18 | Enabled | Disabled | Both | Discard | 100 |

2.11.3. TLV Config

This page can configure port TLV properties.

TLV Config

This page is used to set the properties of TLV

| | |
|-------------------|--------------------|
| Port | --Please select -- |
| TLV Config | --Please select -- |

Apply

| Port | TLV Config |
|---------------|------------|
| Ethernet1/0/1 | |
| Ethernet1/0/2 | |
| Ethernet1/0/3 | |
| Ethernet1/0/4 | |
| Ethernet1/0/5 | |
| Ethernet1/0/6 | |
| Ethernet1/0/7 | |
| Ethernet1/0/8 | |

| | |
|--------------------------------|--|
| Port | Ethernet port name |
| LLDP Port Description | Port description name information needs to be configured |
| LLDP System Capability | Information describing system capabilities |
| LLDP System Description | Message describing the system |
| LLDP System Name | System name information |

2.11.4. Neighbor Info

This page can be used to view LLDP configuration messages.

Neighbor Info

This page is used to view information about other neighbors

Neighbor Table

Showing 10 Entries Showing 1 to 1 of 1 entries

| Number | Local Port | Chassis ID | CID | Port ID | PID | Time Mark | System Name |
|--------|---------------|-------------------|-----|-------------------|-------------|-----------|-------------|
| 1 | Ethernet1/0/8 | 30-b4-9e-bc-b7-44 | 4 | 30-b4-9e-bc-b7-44 | MAC address | 3373 | - |

First
Previous
1
Next
Last

3. Switch Config

3.1. Port Config

3.1.1. Port Config

This page is mainly used to configure the basic of physical ports. To display the “Port Config” page, click Switch Config->Port Config->Port Config, click “Apply” to configure.

Port Config

This page is used to configure basic port parameters.

| | | |
|--------------|----------------------|--|
| Ports | Ethernet1/0/1 | |
| Port Alias | <input type="text"/> | (1-200 character) <input type="checkbox"/> ? |
| Admin Status | Enabled | |
| Speed | Auto | |
| Duplex | Auto | |
| Flow Control | Disabled | ? |
| MDI | auto | ? |

Apply

| | |
|---------------------|--|
| Ports | Select physical ports |
| Port Alias | Set port alias name, value 1-200 |
| Admin status | Port status: Enabled Disabled |
| Speed | Port Speed: Auto, 10M, 100M, 1000M |
| Duplex | Port Duplex: Auto, Half, Full |
| Flow Control | Port Flow Control: Disabled, Enabled |
| Mdi | Mdi: auto, across, normal, default is auto. |

| Port | Port Alias | Admin Status | Speed/Duplex | | Flow Control | MDI |
|----------------|------------|--------------|--------------|------------|--------------|------|
| | | | Config | Actual | | |
| Ethernet1/0/1 | | Enabled | Auto/Auto | Link Down | Disabled | auto |
| Ethernet1/0/2 | | Enabled | Auto/Auto | Link Down | Disabled | auto |
| Ethernet1/0/3 | | Enabled | Auto/Auto | 1000M/Full | Disabled | auto |
| Ethernet1/0/4 | | Enabled | Auto/Auto | Link Down | Disabled | auto |
| Ethernet1/0/5 | | Enabled | Auto/Auto | Link Down | Disabled | auto |
| Ethernet1/0/6 | | Enabled | Auto/Auto | Link Down | Disabled | auto |
| Ethernet1/0/7 | | Enabled | Auto/Auto | Link Down | Disabled | auto |
| Ethernet1/0/8 | | Enabled | Auto/Auto | 1000M/Full | Disabled | auto |
| Ethernet1/0/9 | | Enabled | Auto/Auto | Link Down | Disabled | auto |
| Ethernet1/0/10 | | Enabled | Auto/Auto | Link Down | Disabled | auto |
| Ethernet1/0/11 | | Enabled | Auto/Auto | Link Down | Disabled | auto |
| Ethernet1/0/12 | | Enabled | Auto/Auto | Link Down | Disabled | auto |
| Ethernet1/0/13 | | Enabled | Auto/Auto | Link Down | Disabled | auto |
| Ethernet1/0/14 | | Enabled | Auto/Auto | Link Down | Disabled | auto |
| Ethernet1/0/15 | | Enabled | Auto/Auto | Link Down | Disabled | auto |
| Ethernet1/0/16 | | Enabled | Auto/Auto | Link Down | Disabled | auto |

| | |
|--------------|---|
| Port | physical ports |
| Port Alias | Port alias description |
| Admin status | Port status: Enabled Disabled |
| Speed | Port rate: 10: 10M 100: 100M 1000: 1000M Auto: Automatic negotiation rate |
| Duplex | Duplex: Auto: Automatic negotiation mode Half: Half duplex mode Full: Full duplex mode |
| Flow control | Port Flow Control Status: |
| Mdi | Mdi: auto, across, normal, default is auto. |

3.1.2. Port Combo Mode (Specific)

This page is mainly used to configure the basic of combo ports.

Port Combo Mode

This page is used to configure port Combo mode.

| | |
|-----------------|------------------|
| Ports | Ethernet1/0/25 ▾ |
| Port Combo Mode | copper ▾ |

Apply

| Ports | Port Combo Mode |
|----------------|--------------------|
| Ethernet1/0/25 | sfp-preferred-auto |
| Ethernet1/0/26 | sfp-preferred-auto |

| | |
|-----------------|---|
| Port | Select physical ports |
| Port Combo Mode | copper: select copper fiber: select fiber sfp-preferred-auto: auto mode |

3.1.3. Port 10G Mode (Specific)

This page is mainly used to configure the basic of 10G ports.

Port 10G Mode

This page is used to configure 10G port mode.

| | |
|---------------|------------------|
| Ports | Ethernet1/0/25 ▾ |
| Port 10G Mode | dac-50cm ▾ |

Apply

| Ports | Port 10G Mode |
|----------------|---------------|
| Ethernet1/0/25 | fiber-auto |
| Ethernet1/0/26 | fiber-auto |
| Ethernet1/0/27 | fiber-auto |
| Ethernet1/0/28 | fiber-auto |

| | |
|---------------|--|
| Port | Select physical ports |
| Port 10G Mode | dac-50cm: DAC 50cm dac-100cm: DAC 100cm dac-300cm: DAC 300cm dac-500cm: DAC 500cm fiber-10g: Fiber forced 10G fiber-1g: Fiber forced 1G fiber-2500M: Fiber forced 2500M fiber-auto: Fiber Auto mode |

3.2. Port Mirror

This section can be used for port mirroring function configuration. To display the “Port Mirror” page, click Switch Config ->Port Mirror, click “Apply” to configure.

Port Mirror

This page is used to configure port mirror.

| | | |
|------------------|--------------------|----------|
| Session ID | 1 | |
| Destination Port | Ethernet1/0/1 | |
| Source Port | --Please select -- | |
| CPU Source | Disabled | |
| Access List | | (1-7999) |
| Mirror Direction | rx | |

Apply

Port Mirror Table

| ☐ | Session ID | Destination Port | Source Port | | Access List |
|---|------------|------------------|-------------|----|-------------|
| | | | Tx | Rx | |
| ☐ | 1 | | | | |
| ☐ | 2 | | | | |
| ☐ | 3 | | | | |
| ☐ | 4 | | | | |

Delete

| | |
|-------------------------|--|
| Session | Mirror Session |
| Destination port | Mirror destination port |
| Source port | Mirror Source Port |
| CPU Source | CPU Source: Disabled Enabled |
| Access list | The access control list set for the mirror source port |
| Mirror direction | What kind of data is needed to filter to the destination port: Both: Sending and receiving Rx: receive Tx: send |

3.3. Port Isolate

This page is mainly used to configure the port isolation.

Port Isolation Configuration

This page is used to configure port isolate.

| | | |
|-------------------------|----------------------|------------------|
| Isolate-Port Group Name | <input type="text"/> | (1-32 character) |
| Isolation Ports | --Please select -- | |

Add

Port Isolation Table

| | | |
|--------------------------|-------------------------|-----------------|
| <input type="checkbox"/> | Isolate-Port Group Name | Isolation Ports |
|--------------------------|-------------------------|-----------------|

Delete

| | |
|--------------------------------|--|
| Isolate-Port Group Name | The name of isolate-port Group, value 1-32 character |
| Isolation Ports | Select isolation ports to add isolate group |

3.4. Port Channel

3.4.1. Port Channel Group

This section can be used to create convergent groups.

To display the “Port Channel Group” page, click Port channel -> Port Channel Group, click “Apply” to configure.

Port Channel

This page is used to configure port channel.

| | |
|-------------------------|--------------------------------------|
| Load Balance Alogorithm | <input type="text" value="src-mac"/> |
|-------------------------|--------------------------------------|

Apply

| | |
|--------------------------|--|
| Load balance mode | <p>src-mac: Execute load balancing according to source MAC</p> <p>dst-mac: Execute load balancing according to target MAC</p> <p>src-dst-mac : Execute load balancing based on source and target MAC</p> <p>src-ip: Execute load balancing according to source IP</p> <p>dst-ip: Execute load balancing</p> |
|--------------------------|--|

| | |
|--|---|
| | <p>according to target IP</p> <p>dst-src-ip : Execute load balancing according to target IP source</p> <p>dst-src-mac-ip : Perform load balancing based on target and source Mac and source IP</p> <p>ingress-port : ingress port.</p> |
|--|---|

| | | |
|-------------|---|-------------------|
| LAG | <input type="text" value=""/> | (1-64) |
| Name | <input type="text" value=""/> | (1-200 character) |
| Mode | on | ▼ |
| State | Enabled | ▼ |
| Member Port | <input type="text" value="--Please select --"/> | |

Apply

Port Channel Table

| <input type="checkbox"/> | LAG | Name | Mode | State | Ports | Load Balance Alogorithm |
|--------------------------|-----|------|------|-------|-------|-------------------------|
|--------------------------|-----|------|------|-------|-------|-------------------------|

Delete

| | |
|--------------------|--|
| LAG | To create a convergent group number, value 1-8. |
| Name | The name of LAG group, value 1-32 character |
| mode | <p>On : force port to join port channel without LACP. enabled</p> <p>Active: Enable the LACP on the port and set it to Active mode;</p> <p>Passive: Enable LACP on the port and set it to passive mode</p> |
| State | <p>Enabled</p> <p>Disabled</p> |
| Member Port | Ethernet port name |

3. 4. 2. LACP

This page is available with setting system priority and port priority. To display the “LACP” page, click Switch Config -> Port channel->LACP,

LACP

This page is used to configure port channel LACP

| | | |
|--------------------------------------|------------------------------------|--------------------------|
| System Priority | <input type="text" value="32768"/> | (0-65535, default 32768) |
| <input type="button" value="Apply"/> | | |

| | |
|--------------------------------------|-----------------------------------|
| Port | --Please select -- |
| Port Priority | <input type="text"/> |
| (0-65535, default 32768) | |
| Timeout | <input type="text" value="long"/> |
| <input type="button" value="Apply"/> | |

LACP Port Setting Table

| <input type="checkbox"/> | Port | Status | Port Priority | FLAG 2 |
|---------------------------------------|------|--------|---------------|--|
| <input type="button" value="Delete"/> | | | | |

| | |
|----------------------|---|
| LACP system priority | Range :0-65535 |
| Port list | Ethernet port name added to convergence group |
| LACP port priority | Range :0-65535 |
| Timeout | long short |

3. 5. Jumbo Frame

This page is used to configure Jumbo Frame.

Jumbo Frame Configuration

This page is used to configure Jumbo Frame!

| | | |
|--------------------------------------|---------------------------------------|--------------------------|
| Status | <input type="text" value="Disabled"/> | |
| Jumbo Frame Size | <input type="text" value="1500"/> | 1500-12270 (Unit: Bytes) |
| <input type="button" value="Apply"/> | | |

| | |
|-------------------------------|-----------------------------------|
| Status | Disabled(default) Enabled |
| Jumbo Frame Size(Unit: Bytes) | Size 1500-12270, default is 1500. |

3.6. Port Rate

The page is configured for Port Rate.

To display the “Port Rate” page, click Switch Config → Port Rate, click “Apply” to configure.

Port Rate

This page is used to configure port rate.

| | | |
|-------------------|--------------------|-----------|
| Ports | --Please select -- | |
| Limit Type | Ingress | |
| Status | Disabled | |
| Rate(Kbps) | No Limit | 1-1000000 |

Apply

| | |
|-------------------|---|
| Ports | Ethernet port name |
| Limit Type | Limit type: Egress: send Ingress : receive All: send and receive |
| Status | Disabled Enabled |
| Rate | Bandwidth control rate in the range of Kbps 1-1000000 |

| Port | EgressRate(Kbps) | IngressRate(Kbps) |
|---------------|------------------|-------------------|
| Ethernet1/0/1 | 1000000 | 1000000 |
| Ethernet1/0/2 | 1000000 | 1000000 |
| Ethernet1/0/3 | 1000000 | 1000000 |
| Ethernet1/0/4 | 1000000 | 1000000 |
| Ethernet1/0/5 | 1000000 | 1000000 |
| Ethernet1/0/6 | 1000000 | 1000000 |
| Ethernet1/0/7 | 1000000 | 1000000 |
| Ethernet1/0/8 | 1000000 | 1000000 |

| | |
|--|--|
| Port | Ethernet port name |
| Ingress bandwidth threshold(Kb) | Displays the current received data bandwidth limit in the range of Kbps 1-1000000 |
| Engress bandwidth threshold(Kb) | Displays the bandwidth limit of the current sending data, ranging from 1-1000000kbps |

3.7. Storm Control

This page can be configured for the storm control function of the port. To display the “Storm Control” page, click Switch Config -> Storm Control, click “Apply” to configure.

Storm Control

This page is used to configure storm control.

| | |
|--------------------|--------------------|
| Ports | --Please select -- |
| Type | Broadcast ▼ |
| Status | Disabled ▼ |
| Rate(Kbits) | No Limit 1-1000000 |

Apply

| | |
|---------------|--|
| Port | Ethernet port name |
| Type | Broadcast/Multicast/Unicast |
| Status | Disabled: Disable Storm Control Enabled: Turn on the storm control function and configure the speed limit |
| Rate | storm control rate, ranging from 1-1000000 kbps or pps 1-1488095 |

| Port | Broadcast | Unknown Multicast | Unknown Unicast |
|---------------|-----------|-------------------|-----------------|
| Ethernet1/0/1 | Disabled | Disabled | Disabled |
| Ethernet1/0/2 | Disabled | Disabled | Disabled |
| Ethernet1/0/3 | Disabled | Disabled | Disabled |
| Ethernet1/0/4 | Disabled | Disabled | Disabled |
| Ethernet1/0/5 | Disabled | Disabled | Disabled |
| Ethernet1/0/6 | Disabled | Disabled | Disabled |
| Ethernet1/0/7 | Disabled | Disabled | Disabled |
| Ethernet1/0/8 | Disabled | Disabled | Disabled |

| | |
|---------------------------|-----------------------------|
| Port | Ethernet port name |
| storm-control type | Broadcast/Multicast/Unicast |

3.8. MAC Address Config

3.8.1. Static MAC

Configure Static MAC addresses, and establish the mapping relationship between MAC addresses and ports and VLANs.

MAC Address Config

| | |
|-------------|-------------------|
| MAC Address | 00-00-00-00-00-00 |
| VLAN ID | VLAN0001 |
| Port | Ethernet1/0/1 |

[Add](#)

Static MAC List

Showing 10 Entries Showing 0 to 0 of 0 entries Search

| <input type="checkbox"/> | No. | MAC Address | VLAN ID | Port |
|--------------------------|-----|-------------|---------|------|
| 0 results found. | | | | |

[Delete](#) [First](#) [Previous](#) [Next](#) [Last](#)

| | | |
|--------------------|--|--|
| MAC address | Hexadecimal MAC address, the format is xx-xx-xx-xx-xx-xx | |
| VLAN ID | Created VLAN ID | |
| Port | Mapped port | |
| Operation | Add | The mapping relationship between MAC address and port and VLAN will be added |
| | Remove | Delete the mapping relationship of the specified MAC address, VLAN, and port |

3.8.2. Black Hole MAC

Configure Blackhole MAC addresses, and establish the mapping relationship between MAC addresses and ports and VLANs.

Black Hole MAC

| | |
|---------|-------------------|
| VLAN ID | 00-00-00-00-00-00 |
| VLAN ID | VLAN0001 |
| Type | both |

[Add](#)

Black Hole MAC List

Showing 10 Entries Showing 0 to 0 of 0 entries Search

| <input type="checkbox"/> | No. | MAC Address | VLAN ID | Type |
|--------------------------|-----|-------------|---------|------|
| 0 results found. | | | | |

[Delete](#) [First](#) [Previous](#) [Next](#) [Last](#)

| | | |
|-----------------------------|--|---|
| MAC address | Hexadecimal MAC address, the format is xx-xx-xx-xx-xx-xx, packets with this address will be discarded and will not be forwarded to the network by the switch | |
| VLAN ID | Created VLAN ID | |
| Blackhole based type | source | Source based on source address filter |
| | destination | Target based on target address filter |
| | both | Both are based on source address and destination address filters, the default value is both |
| Operation | Add | The mapping relationship between MAC address and port and VLAN will be added |
| | Delete | Delete the mapping relationship of the specified MAC address, VLAN, and port |

| Black Hole MAC List | | | | |
|---------------------|-------------------|----------|------|--------------------------|
| No. | MAC Address | VLAN ID | Type | |
| 1 | 00-00-11-22-00-00 | VLAN0001 | both | <input type="checkbox"/> |

Delete

First Previous 1 Next Last

Display current existing MAC address, port, VALN mapping relationship

3.8.3. Aging-time

Each time the switch learns a MAC address, it will store the address and set the aging time. When the time is over, the address will be removed from the switch.

| Aging-time | |
|------------|--|
| Aging-time | 300 (10-1000000)Second, default is 300, 0:No Aging |

Apply

| | | |
|--------------------|--|------------------------------------|
| MAC address | The aging time range is 10-1000000, 0 means no aging | |
| Aging-time | | |
| Operation | Apply | Set the aging time into the switch |

3.8.4. MAC Address List

Quickly query the MAC address in the switch.

MAC Address List

Showing 10 Entries Showing 1 to 3 of 3 entries Search

| VLAN ID | MAC Address | Type | Creator | Port |
|---------|-------------------|---------|----------|--------------------|
| 1 | 00-00-11-22-00-00 | STATIC | User | (blackhole) (both) |
| 1 | 30-B4-9E-BC-B7-44 | DYNAMIC | Hardware | Ethernet1/0/12 |
| 1 | 84-E5-D8-E0-1F-5E | STATIC | System | CPU |

| | |
|--------------------|--|
| VLAN ID | The created VLAN ID, showing the address in the VLAN |
| MAC Address | Hexadecimal MAC address, the format is xx-xx-xx-xx-xx-xx |
| Type | MAC address type |
| Creator | MAC address creator |
| Port | Find the MAC address by port |

Note: Check the small box at the back to make the condition take effect. By default, there is no condition. When there is no condition, all MAC address information will be displayed.

3.9. AM

AM module, the user can set up AM IP segment and MAC-IP segment on the specified port, allowing / rejecting messages from within the segment to be forwarded through the port.

Access Management(AM)

Through the port binding feature of AM access management, network administrators can bind legitimate user IP (MAC-IP) addresses to specified ports. After the binding operation, only messages sent by users with specified IP (MAC-IP) addresses can be forwarded through this port, enhancing users' monitoring of network security.

| | |
|---|----------------------|
| Port | --Please select -- |
| Binding Type | IP |
| IP Address | <input type="text"/> |
| Number ? | 1 |

AM Configuration Table

| <input type="checkbox"/> | Port | Binding Type | MAC Address | IP Address | Number |
|---------------------------------------|------|--------------|-------------|------------|--------|
| <input type="button" value="Delete"/> | | | | | |

| | |
|---------------------|--|
| Port | Designated port number |
| Binding Type | Select IP or MAC-IP method |
| IP address | Beginning IP address, decimal point |
| Number | Number of consecutive addresses after starting IP address , 1-32 |
| MAC address | Source MAC address |

3. 10. AAA

3. 10. 1. Radius

Radius Global Configuration module, users in this module can configure the global Radius function services.

Radius Global Configuration

The user priority for Radius authentication login is 1

| | | |
|-------------------------|-----------|-----------------------------|
| Key Type | Plain Key | |
| Radius Global Key | | 1-64Characters |
| System Recovery Time | 5 | Range:1-255(Min),Default:5 |
| Radius Retransmit Times | 3 | Range:0-100,Default:3 |
| Radius Server Timeout | 3 | Range:1-1000(Sec),Default:3 |

Apply

| Radius Global Information | | | | |
|---------------------------|-------------------|----------------------|-------------------------|-----------------------|
| Key Type | Radius Global Key | System Recovery Time | Radius Retransmit Times | Radius Server Timeout |
| Plain Key | | 5 | 3 | 3 |

| | |
|--------------------------------|---|
| Key Type | Plain Key: 1-64 character Cipher Key: 1-64 character, input plaintext application to encrypt ciphertext. |
| Radius Global Key | Key string ,1-64 characters, select Use default and click Apply can set Radius Key default. |
| System Recovery Time | Radius service recovery time from downtime to accessibility, 1-255 minutes, default is 5. |
| Radius Retransmit Times | Radius authentication packet retransmission time, 1-100 seconds, default is 3. |
| Radius Server Timeout | The corresponding time of the radius server, 1-1000 seconds, default is 3. |

Radius Authentication Configuration module, users in this module can configure the Radius authentication server.

Radius Authentication Server Configuration

| | | |
|--------------------------------------|-----------------------------------|----------------------|
| Authentication Server IP | | IPv4 or IPv6 address |
| Authentication Server Port(optional) | | Range:0-65535 |
| Key Type | Plain Key | |
| Radius Key(optional) | | 1-64Characters |
| Access Mode | None | |
| Primary Authentication Server | Non-primary authentication server | |

Apply

Showing 10 Entries Showing 0 to 0 of 0 entries

| NO. | Server IP Address | Port Number | Primary Server | Key Type | Radius Key | Access Mode |
|------------------|-------------------|-------------|----------------|----------|------------|-------------|
| 0 results found. | | | | | | |

Delete First Previous Next Last

| | | |
|-------------------------------|--|--|
| Authentication Server IP | The address of IPv4 or IPv6 of the radius authentication server | |
| Authentication Server port | Port number of radius authentication server(optional), 0-65535 | |
| Key Type | Plain Key: 1-64 character | |
| | Cipher Key: 1-64 character, input plaintext application to encrypt ciphertext. | |
| Radius Key | Key string ,1-64 characters | |
| Access Mode | None: All services can use current RADIUS server by default | |
| | Telnet: RADIUS server only use telnet authentication | |
| | Dot1x: RADIUS server only use 802.1x authentication | |
| | Wireless: RADIUS server only use wireless authentication | |
| Primary Authentication Server | Primary authentication server | Specify radius server as primary authentication server |
| | Non-Primary authentication server | Specify radius server as non-primary authentication server |

3.10.2. Radius Accounting

Radius authentication and accounting module, users in this module can configure the Radius billing server.

Radius Accounting Server Configuration

| | | |
|--------------------------------------|--|----------------------|
| Accounting Server IP | <input type="text"/> | IPv4 or IPv6 address |
| Authentication Server Port(optional) | <input type="text"/> | Range:0-65535 |
| Key Type | Plain Key <input type="button" value="v"/> | |
| Radius Key(optional) | <input type="text"/> | 1-64Characters |
| Primary Authentication Server | Non-primary authentication server <input type="button" value="v"/> | |

Showing Entries Showing 0 to 0 of 0 entries

| <input type="checkbox"/> | NO. | Server IP Address | port number | Key Type | Radius Key | Primary Server |
|--------------------------|-----|-------------------|-------------|----------|------------|----------------|
| 0 results found. | | | | | | |

| | |
|------------------------|--|
| Accounting Server IP | Radius authentication server IPv4 or IPv6 address |
| Accounting Server Port | Radius authentication server port number (optional), 0-65535 |
| Key Type | Plain Key: 1-64 character |
| | Cipher Key: 1-64 character, input plaintext application to encrypt ciphertext. |
| Radius Key | Key string ,1-64 characters |

| | | |
|---------------------------|-------------------------------|--|
| Primary Accounting Server | Primary accounting server | Specify radius server as primary accounting server |
| | Non-Primary accounting server | Specify radius server as non-primary accounting server |

3.10.3. Tacacs

Tacacs global configuration module, users in this module can configure the global Tacacs function services.

Tacacs Global Configuration

The user priority for Tacacs authentication login is 1

| | | |
|------------------------------|----------------------|---------------------------|
| Key Type | Plain Key | |
| Tacacs Global Key | <input type="text"/> | 1-64 Characters |
| Tacacs Server Global Timeout | 3 | Range:1-60(Sec),Default:3 |

Apply

| Tacacs Global Information | | |
|---------------------------|-------------------|------------------------------|
| Key Type | Tacacs Global Key | Tacacs Server Global Timeout |
| Plain Key | | 3 |

| | |
|-------------------------------------|---|
| Key Type | Plain Key: 1-64 character Cipher Key: 1-64 character, input plaintext application to encrypt ciphertext. |
| Tacacs Global Key | Tacacs authentication global key ,1-64 characters |
| Tacacs Server Global Timeout | Tacacs authentication timeout ,1-60 seconds, default 3 seconds |

Tacacs server configuration module, users in this module can configure the Tacacs authentication server.

Tacacs Authentication Server Configuration

| | | |
|--------------------------------------|-----------------------------------|---------------------------|
| Authentication Server IP | <input type="text"/> | IPv4 or IPv6 address |
| Authentication Server Port(optional) | <input type="text"/> | Range:0-65535 |
| Key Type | Plain Key | |
| Tacacs Key(optional) | <input type="text"/> | 1-64Characters |
| Tacacs Server Timeout(optional) | <input type="text"/> | Range:1-60(Sec),Default:3 |
| Primary Authentication Server | Non-primary authentication server | |

Apply

Showing 10 Entries Showing 0 to 0 of 0 entries Search

| NO. | Server IP Address | port number | Primary Server | Key Type | Tacacs Key | Tacacs Server Timeout |
|------------------|-------------------|-------------|----------------|----------|------------|-----------------------|
| 0 results found. | | | | | | |

Delete First Previous Next Last

| | | |
|-------------------------------|--|--|
| Authentication Server IP | Tacacs authentication server IPv4 address, decimal point | |
| Authentication Server Port | Tacacs authentication server port number (optional), 0-65535 | |
| Key Type | Plain Key: 1-64 character | |
| | Cipher Key: 1-64 character, input plaintext application to encrypt ciphertext. | |
| Tacacs Key | Configure tacacs+ server encryption key 1-64 Characters | |
| Tacacs Server Timeout | Configure the tacacs+ server authentication time Interval <1-60> second Deafult is 3. | |
| Primary Authentication Server | Primary accounting server | Specify Tacacs server as primary accounting server |
| | Non-Primary accounting server | Specify Tacacs server as non-primary accounting server |

4. VLAN Config

4.1. VLAN Config

4.1.1. VLAN ID

VLAN configuration function module, users add or delete VLANs in this module.

VLAN Configuration Management

| | | |
|------------------------------------|----------------------|---|
| VLAN ID | <input type="text"/> | <small>(1-4094, for example: 1;3-6)</small> |
| VLAN Name | <input type="text"/> | |
| <input type="button" value="Add"/> | | |

Showing 10 Entries Showing 1 to 1 of 1 entries Search

| No. | VLAN ID | VLAN Name |
|-----|---------|-----------|
| 1 | 1 | default |

| | | |
|-----------|--|-------------|
| VLAN ID | The serial number of the VLAN, range: 2-4094 | |
| VLAN name | By default, the default is VLAN plus four-digit serial number, range: 1-64 characters. | |
| Operation | Add | Add VLAN |
| | Delete | Remove VLAN |

4.1.2. Show VLAN

Show VLAN function module, display VLANs in this module.

Show VLAN List

Showing 10 Entries Showing 1 to 1 of 1 entries Search

| VLAN ID | Name | Type | Media | Ports |
|---------|---------|--------|-------|---|
| 1 | default | Static | ENET | Ethernet1/0/1, Ethernet1/0/2 Ethernet1/0/3, Ethernet1/0/4 Ethernet1/0/5, Ethernet1/0/6 Ethernet1/0/7, Ethernet1/0/8 Ethernet1/0/9, Ethernet1/0/10 Ethernet1/0/11, Ethernet1/0/12 Ethernet1/0/13, Ethernet1/0/14 Ethernet1/0/15, Ethernet1/0/16 Ethernet1/0/17, Ethernet1/0/18 Ethernet1/0/19, Ethernet1/0/20 Ethernet1/0/21, Ethernet1/0/22 Ethernet1/0/23, Ethernet1/0/24 Ethernet1/0/25, Ethernet1/0/26 Ethernet1/0/27, Ethernet1/0/28 |

First Previous 1 Next Last

4.1.3. Port Config

Switch port type setting, the user can change the switch port type in this module.

Port Mode Configure

| | | |
|---------------|--------------------|---------------|
| Ports | --Please select -- | |
| Mode | Access | |
| Native Vlan | VLAN0001 | |
| Ingress Check | Enabled | |
| Tagged VLAN | Range(1-4094) | Example 1-3;8 |
| UnTagged VLAN | Range(1-4094) | Example 1-3;8 |

[Apply](#)

| Port | Mode | Native Vlan | Ingress Check | Tag Vlan List | Untag Vlan List |
|---------------|--------|-------------|---------------|---------------|-----------------|
| Ethernet1/0/1 | Access | VLAN0020 | Enabled | - | - |
| Ethernet1/0/2 | Trunk | VLAN0001 | Enabled | 1-4094 | - |
| Ethernet1/0/3 | Trunk | VLAN0001 | Enabled | - | - |
| Ethernet1/0/4 | Access | VLAN0001 | Enabled | - | - |
| Ethernet1/0/5 | Access | VLAN0001 | Enabled | - | - |
| Ethernet1/0/6 | Access | VLAN0001 | Enabled | - | - |
| Ethernet1/0/7 | Access | VLAN0001 | Enabled | - | - |
| Ethernet1/0/8 | Access | VLAN0001 | Enabled | - | - |

| | | |
|----------------------|--|--|
| Port | Port name | |
| Mode | Access | |
| | Trunk | |
| | Hybrid | |
| Native Vlan | Port PVID | |
| Ingress Check | Enabled | When a data packet enters the switch, the VLAN ingress filter checks whether the ingress port of the data packet belongs to the given (forwarded) VLAN |
| | Disabled | When a data packet enters the switch, the VLAN ingress filter does not check whether the ingress port of the data packet belongs to the given (forwarded) VLAN |
| Tagged VLAN | Tag VLAN range 1-4094, example 1-3;8 | |
| UnTagged VLAN | Untag VLAN range 1-4094, example 1-3;8 | |

4.2. GVRP Config

4.2.1. GVRP Config

The switch starts the global GVRP setting, and the user turns on or off the global GVRP.

GVRP Config

Enabled
 Off

| | | |
|----------------------------|---------|---|
| Enable/Disable global GVRP | Enable | Start the global GVRP module function |
| | Disable | Disable the global GVRP module function |

The switch configures GARP parameters, and the user sets the value of various timers to manage GARP.

GVRP Config

Enabled On

| | | |
|----------------|-------|---|
| Join Timer | 200 | Range:200-500 milli-second, default is 200 |
| Leave Timer | 600 | Range:500-1200 milli-second, default is 600 |
| Leaveall Timer | 10000 | Range:5000-60000 milli-second, default is 10000 |

Apply

| | | |
|----------------|-------------|-------------------------------|
| Join timer | 200-500ms | |
| Leave timer | 500-1200ms | |
| Leaveall timer | 500-60000ms | |
| Operation | Apply | Modify the value of the timer |

4.2.2. GVRP Port

The switch port starts GVRP settings, and the user opens or closes the port GVRP.

Enable GVRP On Port

Enable the port will not be able to change the port mode

| | |
|--------|--|
| Ports | --Please select -- |
| Status | Enabled <input type="button" value="v"/> |

Apply

| | |
|------|-------------|
| Port | GVRP Status |
|------|-------------|

| | | |
|---------------------|-----------|---------------------------------------|
| Port | Port name | |
| Enable/Disable GVRP | Enable | Start the port GVRP module function |
| | Disable | Disable the port GVRP module function |

4. 3. QINQ

4. 3. 1. Enable Dot1q Tunnel

Switch dot1q tunnel configuration, the user configures the port to enable the dot1q tunnel function.

Enable Dot1q Tunnel

Ports:

Showing 10 Entries Showing 0 to 0 of 0 entries Search:

| <input type="checkbox"/> | Port | Status |
|--------------------------|------|--------|
| 0 results found. | | |

| | | |
|------------------|-----------|----------------------|
| Port | Port name | |
| Operation | Apply | Enable dot1q tunnel |
| | Delete | Disable dot1q tunnel |

4. 3. 2. Dot1q Tunnel TPID

Switch port dot1q tunnel tpid configuration, users configure port dot1q tunnel tpid parameters.

Configure Dot1q Tunnel TPID

only configure for QINQ disable port

Ports:

Protocol:

Protocol ID:

| | | |
|--------------------|------------------------------|------------------------------|
| Port | Port name | |
| Protocol | 0x8100 | Set the outer TPID to 0x8100 |
| | 0x9100 | Set the outer TPID to 0x9100 |
| | 0x9200 | Set the outer TPID to 0x9200 |
| | protocol ID | Set a custom TPID |
| Protocol ID | The value of the custom TPID | |

| Port | GVRP Status |
|---------------|-------------|
| Ethernet1/0/1 | |
| Ethernet1/0/2 | |
| Ethernet1/0/3 | |
| Ethernet1/0/4 | |
| Ethernet1/0/5 | |
| Ethernet1/0/6 | |
| Ethernet1/0/7 | |
| Ethernet1/0/8 | |

4.4. Protocol VLAN

The switch protocol vlan settings, and the user can config the protocol vlan.

Protocol VLAN Configure

| | |
|---------------|------------------|
| Mode | ethernetII |
| Ethernet Type | Range:1536-65535 |
| VLAN Name | VLAN0001 |
| Priority | Range:0-7 |

[Add](#)

Showing 10 Entries Showing 0 to 0 of 0 entries Search

| No. | Protocol Type | VLAN Name | Priority |
|------------------|---------------|-----------|----------|
| 0 results found. | | | |

[First](#) [Previous](#) [Next](#) [Last](#)

[Delete](#)

| | | |
|----------------------|---|------------------------------------|
| Mode | ethernetII | Configure EthernetII Encapsulation |
| | snap | Configure LLC Encapsulation |
| | llc | Configure SNAP Encapsulation |
| Ethernet Type | Packet protocol type, Configure Packet protocol type number, 1536-65535 | |
| VLAN Name | Configure the VLAN ID. | |
| Priority | Configure priority value, 0-7 | |
| Operation | Add | Add the protocol vlan |
| | Delete | Delete the protocol vlan |

4.5. Voice VLAN

4.5.1. VLAN Config

The voice vlan configure module, and the user can select vlan to enable voice vlan

Voice VLAN Configure

| | |
|------------|------|
| Voice VLAN | None |
|------------|------|

[Apply](#)

| | |
|-------------------|----------------------------------|
| Voice VLAN | Select vlan to enable voice vlan |
|-------------------|----------------------------------|

The voice oui configure module, and the user can set voice oui

Voice VLAN Configure

Voice VLAN:

Voice OUI Configure

| MAC address | MAC Mask | Priority | Name |
|--|--|--|--|
| <input type="text" value="00-00-00-00-00-00"/> | <input type="text" value="FF-FF-FF-FF-FF-FF"/> | <input type="text" value="Range:0-7"/> | <input type="text" value="Up to 15 characters"/> |

Showing Entries Showing 0 to 0 of 0 entries Search

| No. | Name | MAC address | MAC Mask | Priority |
|------------------|------|-------------|----------|----------|
| 0 results found. | | | | |

| | |
|--------------------|---|
| MAC address | The voice equipment MAC address, shown in xx-xx-xx-xx-xx-xx format. |
| MAC Mask | The last eight digit of the mask code of the MAC address, the valid values are: 0xff, 0xfe, 0xfc, 0xf8, 0xf0, 0xe0, 0xc0, 0x80, 0x0 |
| Priority | The priority of the voice traffic, the valid range is 0 - 7 |
| Name | The voice-name is the name of the voice equipment, which is to facilitate the equipment management |

4.5.2. Port Config

The voice vlan port config module, and the user can select port to enable voice vlan

Port Config

Ports:

Status:

| Port | Status |
|------------------|---------|
| Ethernet1/0/1(A) | Enabled |
| Ethernet1/0/2(T) | Enabled |
| Ethernet1/0/3(T) | Enabled |
| Ethernet1/0/4(A) | Enabled |
| Ethernet1/0/5(A) | Enabled |
| Ethernet1/0/6(A) | Enabled |
| Ethernet1/0/7(A) | Enabled |
| Ethernet1/0/8(A) | Enabled |

| | | |
|---------------|-----------|--------------------|
| Port | Port name | |
| Status | Enable | Enable voice vlan |
| | Disable | Disable voice vlan |

4. 6. MAC VLAN

4. 6. 1. VLAN Config

The mac vlan configure module, and the user can select vlan to add mac vlan

| | |
|----------|-----------------------------|
| MAC VLAN | Select vlan to add mac vlan |
|----------|-----------------------------|

4. 6. 2. VLAN Member

the user can set mac vlan

| | |
|-------------|--|
| MAC address | The MAC address which is shown in the form of XX-XX-XX-XX-XX-XX |
| MAC Mask | The MAC address mask which is shown in the form of XX-XX-XX-XX-XX-XX |
| VLAN ID | Vlan-id is the ID of the VLAN with a valid range of 1-4094 |
| Priority | Priority-id is the level of priority and is used in the VLAN tag with a valid range of 0-7 |

4.6.3. Port Config

The mac vlan port config module, and the user can select port to enable mac vlan

Port Config

| | | |
|---------------|--------------------|--|
| Ports | --Please select -- | |
| Status | Enabled | |

Apply

| Port | Status |
|------------------|---------|
| Ethernet1/0/1(A) | Enabled |
| Ethernet1/0/2(T) | Enabled |
| Ethernet1/0/3(T) | Enabled |
| Ethernet1/0/4(A) | Enabled |
| Ethernet1/0/5(A) | Enabled |
| Ethernet1/0/6(A) | Enabled |
| Ethernet1/0/7(A) | Enabled |
| Ethernet1/0/8(A) | Enabled |

| | | |
|---------------|-----------|------------------|
| Port | Port name | |
| Status | Enable | Enable mac vlan |
| | Disable | Disable mac vlan |

5. DHCP Config

5.1. DHCP Server

5.1.1. Global Config

DHCP status configuration and query, the user configures the DHCP server status in this module, and checks the DHCP server status

Global Config

| | |
|--|---------------------------------------|
| | DHCP Server <input type="radio"/> Off |
|--|---------------------------------------|

Global Config

| | |
|--|---|
| | DHCP Server <input checked="" type="radio"/> On |
|--|---|

| | | |
|--------------------|-----|-------------------|
| DHCP server | Off | Close DHCP server |
| | On | Open DHCP server |

5.1.2. Create Address Pool

DHCP server address pool name configuration, user settings add and delete the address pool name.

Create Address Pool

Create Address Pool

Address Pool Name (1-32 character)

Add

DHCP Server Address Pool Table

Showing 10 Entries Showing 0 to 0 of 0 entries Search

| | Address Pool Name |
|------------------|-------------------|
| 0 results found. | |

Delete First Previous Next Last

| | | |
|-------------------------------|--------------------------------------|--|
| DHCP Address pool name | The name of the created address pool | |
| Operation type | Add pool | Add the address pool of the DHCP server |
| | Delete | Delete the address pool of the DHCP server |

DHCP Server Address Pool Table

Showing 10 Entries Showing 1 to 1 of 1 entries Search

| | Address Pool Name |
|---|-------------------|
| 1 | |

Delete First Previous 1 Next Last

Display the address pool of the current DHCP server

5.1.3. Dynamic Pool

Switch DHCP address pool configuration, the user configures the DHCP address pool parameters.

Dynamic Pool

Address Pool Name 1 ▼

Domain Name

IP Address

Netmask

DHCP Client Node Type Default ▼

Lease Time Not Configured ▼

Apply

Dynamic Pool Config Table

Showing 10 Entries Showing 0 to 0 of 0 entries Search

| | Address Pool Name | Domain Name | IP Address/Netmask | DHCP Client Node Type | Lease Time |
|------------------|-------------------|-------------|--------------------|-----------------------|------------|
| 0 results found. | | | | | |

Delete First Previous Next Last

| | | |
|-----------------------|--|---|
| DHCP pool name | The name of the created address pool | |
| DHCP pool domain name | The domain name of the currently selected address pool. After configuration, you need to tick the box at the back to apply the domain name to the switch during application. | |
| Address range | IP address | Network number of the address pool |
| | Network mask | Netmask of the address pool |
| DHCP client node type | b-node | Broadcast node |
| | p-node | For point-to-point nodes |
| | m-node | Used for hybrid nodes to perform point-to-point communication after broadcasting |
| | h-node | Hybrid nodes that broadcast after peer-to-peer communication |
| | Designate | Hexadecimal node type, from 0 to 255 |
| Address lease timeout | Infinite | The lease period of the address is unlimited, and the number of days/hours/minutes below do not need to be filled in |
| | Specified | There is a time limit for the lease of the address. You can rent it according to the lease time filled in below, and it will be automatically recovered if the time is exceeded |
| Operation | add | Add the above four parameters with check boxes to the switch, the parameters without check boxes will not be operated |
| | Delete | Restore the four parameters with check boxes to the default configuration, and the parameters without check boxes will not be operated |

Dynamic Pool Config Table

| | | | | | |
|--------------------------|-----------------------------|-------------|-----------------------|-----------------------|--|
| Showing 10 ▾ Entries | Showing 1 to 1 of 1 entries | | | | Search <input type="text"/> |
| <input type="checkbox"/> | Address Pool Name | Domain Name | IP Address/Netmask | DHCP Client Node Type | Lease Time |
| <input type="checkbox"/> | 1 | - | 1.1.1.0/255.255.255.0 | 0 | 1D 0H:0M |
| Delete | | | | | First Previous 1 Next Last |

Information display of the currently configured address pool

5.1.4. Manual Pool

Switch static address pool configuration, and manually bind client parameters.

Manual Pool

| | |
|-------------------|---------------------|
| Address Pool Name | 2 |
| IP Address | xxxx.xxxx.xxxx.xxxx |
| Netmask | xxxx.xxxx.xxxx.xxxx |
| Binding Type | Hardware Address |
| ARP Hardware Type | 1(ethernet) |
| MAC Address | xx-xx-xx-xx-xx-xx |

[Apply](#)

Static Pool Config Table

Showing 10 Entries Showing 0 to 0 of 0 entries

| <input type="checkbox"/> | Address Pool Name | MAC Address | IP Address/Netmask | Binding Type | ARP Hardware Type |
|--------------------------|-------------------|-------------|--------------------|--------------|-------------------|
| 0 results found. | | | | | |

[Delete](#) [First](#) [Previous](#) [Next](#) [Last](#)

| | |
|--------------------------|--|
| Address Pool Name | The name of the created address pool |
| IP address | IP address assigned by the DHCP server to the client |
| Netmask | The subnet mask assigned by the DHCP server to the client IP |
| Binding Type | Hardware Address Client identifier: The identifier of the client, |
| ARP Hardware Type | The protocol type used by the client is rfc\ethernet\ieee802. RFC ID: RFC protocol number, valid range is 1-255. |
| MAC address | MAC address, for example: 44-11-22-33-44-55 (MAC address) |
| Operation | Apply |
| | Delete |

5.1.5. Default Gateway

The switch DHCP client default gateway configuration, the user configures the gateway parameters of the DHCP address pool.

Default Gateway

| | | |
|-------------------|----------------------|---|
| Address Pool Name | 1 | ▼ |
| Gateway0 | <input type="text"/> | |
| Gateway1 | <input type="text"/> | |
| Gateway2 | <input type="text"/> | |
| Gateway3 | <input type="text"/> | |
| Gateway4 | <input type="text"/> | |
| Gateway5 | <input type="text"/> | |
| Gateway6 | <input type="text"/> | |
| Gateway7 | <input type="text"/> | |
| Operation | Add | ▼ |

Apply

| | | |
|-----------------------|--|---|
| DHCP pool name | The name of the created address pool | |
| Gateway0-7 | Gateway IP address in dotted decimal format. Gateway 0 has the highest priority. The smaller the number, the higher the priority. The gateway can be set to zero or more, but the setting must start with 0 and no vacancies can appear in the middle, otherwise the gateway will be Ignore the following parameters, such as setting gateway 0-1 and gateway 7, only gateway 0-1 takes effect | |
| Operation | Add | Add the gateway effectively set above to the currently selected DHCP address pool |
| | Delete | Clear all gateways and restore to the default state |

5.1.6. DNS Server

The switch DHCP client DNS server configuration, the user configures the DNS server parameters of the DHCP address pool.

DNS Server

| | | |
|-------------------|----------------------|---|
| Address Pool Name | 1 | ▼ |
| DNS Server0 | <input type="text"/> | |
| DNS Server1 | <input type="text"/> | |
| DNS Server2 | <input type="text"/> | |
| DNS Server3 | <input type="text"/> | |
| DNS Server4 | <input type="text"/> | |
| DNS Server5 | <input type="text"/> | |
| DNS Server6 | <input type="text"/> | |
| DNS Server7 | <input type="text"/> | |
| Operation | Add | ▼ |

Apply

| | | |
|-----------------------|---|--|
| DHCP pool name | The name of the created address pool | |
| DNS server 0-7 | For the IP address in dotted decimal format, DNS server 0 has the highest priority. The smaller the number, the higher the priority. The DNS server can be set to zero or more, but the setting must start from 0 and there can be no vacancies in the middle, otherwise the DNS server The following parameters will be ignored, such as setting DNS server 0-1 and DNS server 7, only DNS server 0-1 takes effect | |
| Operation | Add | Add the DNS server effectively set above to the currently selected DHCP address pool |
| | Delete | Clear all DNS servers and restore to the default state |

5.1.7. Excluded Address

Excluding the dynamic allocation address configuration, the user configures the addresses that are not used for dynamic allocation

Excluded Address

| | |
|--------------------------------------|----------------------|
| Starting address | <input type="text"/> |
| Ending address | <input type="text"/> |
| <input type="button" value="Apply"/> | |

Exclude Address Table

Showing Entries Showing 0 to 0 of 0 entries

| | Starting address | Ending address |
|--------------------------|------------------|----------------|
| <input type="checkbox"/> | 0 results found. | |

| | | |
|-------------------------|---|---|
| Starting address | Start address not used for dynamic allocation | |
| Ending address | End address not used for dynamic allocation | |
| Operation type | Apply | Add the address range that is not used and dynamically allocated to the switch |
| | Delete | Delete the address range that is not used and dynamically allocated from the switch |

Exclude Address Table

Showing Entries Showing 1 to 1 of 1 entries

| | Starting address | Ending address |
|--------------------------|------------------|----------------|
| <input type="checkbox"/> | 1.1.1.10 | 1.1.1.20 |

Display the address range currently not used for dynamic allocation

5.1.8. Packet Statistics

DHCP server data packet statistics, users can view DHCP data packets.

Packet Statistics

| Address Pools | Database Agents | Automatic Bindings | Manual Bindings | Conflict Bindings | Expired Bindings | Malformed Message |
|---------------|-----------------|--------------------|-----------------|-------------------|------------------|-------------------|
| 1 | 0 | 0 | 0 | 0 | 0 | 0 |

Message Received

| BOOT REQUEST | DHCP Discover | DHCP Request | DHCP Decline | DHCP Release | DHCP Inform |
|--------------|---------------|--------------|--------------|--------------|-------------|
| 0 | 0 | 0 | 0 | 0 | 0 |

Message Send

| BOOT Reply | DHCP Offer | DHCP ACK | DHCP NAK | DHCP Relay | DHCP Forward |
|------------|------------|----------|----------|------------|--------------|
| 0 | 0 | 0 | 0 | 0 | 0 |

[Clear Statistics](#)

It can be viewed in real time by clicking "Clear Statistics"

5.1.9. Client List

The DHCP server's IP and MAC binding status, the user can view the binding entries and the relationship between the bound IP and MAC.

Client List

| IP Address | Hardware Address | Lease Expiration | Type |
|------------|------------------|------------------|------|
|------------|------------------|------------------|------|

| | | | |
|-------------------------|---|--------------------|--|
| IP address | Client's IP address | | |
| Hardware address | The hardware address or MAC address of the client | | |
| Lease expiration | Client IP expiration time | | |
| Type | Manual | Manual binding | |
| | Dynamic | Dynamic allocation | |

5.2. DHCP Snooping

5.2.1. Global Config

With the enabling and disabling of the DHCP Snooping module, users can view and operate the status of DHCP Snooping.

Global Config

| | |
|----------------------|---------------------------|
| DHCP Snooping Status | <input type="radio"/> Off |
|----------------------|---------------------------|

| | | |
|-----------------------------|-----|-----------------------|
| DHCP Snooping status | Off | Disable DHCP Snooping |
| | On | Enable DHCP Snooping |

Global Config

| | | |
|----------------------|-------------------------------------|------------------------|
| DHCP Snooping Status | <input checked="" type="radio"/> On | |
| Action Num | <input type="text" value="10"/> | (1-200,default 10) |
| Limit Rate | <input type="text" value="100"/> | pps(0-100,default 100) |

Display the current DHCP Snooping status

DHCP Snooping defense action number configuration, if the number of alarm messages is greater than the set number, it will force the restoration of the earliest defense measures to send new defense measures.

DHCP Snooping packet receiving rate limit sets the number of DHCP messages sent per second.

| | | |
|---------------------------------------|--|--|
| DHCP Snooping action Num | Set the maximum number of defense actions to avoid exhaustion of switch resources caused by attacks. | |
| Limit Rate (Packet per second) | Range: 0-100 | |
| Operation | Apply | Configure the number of defense actions filled in above, default is 10, Configure the number of packets per second |

| | | |
|------------|---------------------------------|--------------------|
| Action Num | <input type="text" value="10"/> | (1-200,default 10) |
|------------|---------------------------------|--------------------|

Display the current number of DHCP Snooping defense actions

| | | |
|------------|----------------------------------|------------------------|
| Limit Rate | <input type="text" value="100"/> | pps(0-100,default 100) |
|------------|----------------------------------|------------------------|

Display the number of packets per second configured for the current DHCP Snooping.

5.2.2. VLAN Config

With the enabling and disabling of the DHCP Snooping VLAN module, users can view and operate the status of DHCP Snooping VLAN.

VLAN Config

| | | |
|-------------|---|--|
| VLAN ID | <input type="text" value="--Please select --"/> | |
| VLAN Enable | <input type="button" value="Disabled"/> | |

| | |
|----------|----------|
| VLAN ID | Trust |
| VLAN0001 | Disabled |

| | | |
|--------------------|-----------|----------------------------|
| Port | Port name | |
| VLAN Enable | Enable | Enable DHCP Snooping VLAN |
| | Disable | Disable DHCP Snooping VLAN |

5.2.3. Static User Binding

When DHCP Snooping binding is enabled and disabled, users can view and operate the status of DHCP Snooping. When configuring this binding, users must ensure that the binding status is in the on state.

Static User Binding

Binding Status Off

| | | |
|-------------------------------------|-----|--|
| DHCP Snooping binding status | Off | Disable DHCP Snooping binding function |
| | On | Enable DHCP Snooping binding function |

Static User Binding

Binding Status On

| | |
|-------------|--|
| MAC Address | <input type="text"/> |
| IP Address | <input type="text"/> |
| VLAN ID | <input type="text" value="VLAN0001"/> |
| Port | <input type="text" value="Ethernet1/0/1"/> |

Apply

DHCP Snooping Binding Table

Showing Entries Showing 0 to 0 of 0 entries Search

| | MAC Address | IP Address | Port | VLAN ID | Type |
|------------------|-------------|------------|------|---------|------|
| 0 results found. | | | | | |

Delete
First
Previous
Next
Last

Shows whether the current DHCP Snooping binding status function is enabled.

When DHCP Snooping binding is enabled and disabled, users can view and operate the status of DHCP Snooping. When configuring this binding, users must ensure that the binding status is in the on state.

| | | |
|------------------------|---|--|
| MAC address | The MAC address of the statically bound user is the only index of the bound user | |
| User IP address | Statically bind the user's IP address | |
| User mask | Statically bind the user's subnet mask | |
| VLAN ID | Statically bind the VLAN ID of the user | |
| Port | Bind the user's access port statically, the port is associated with the VLAN ID, and the port is required to allow the VLAN to pass | |
| Operation | Apply | Add DHCP Snooping binding user relationship |
| | Delete | Delete DHCP Snooping binding user relationship |

5.2.4. Helper-server Config

DHCP SNOOPING will send the monitored binding information to HELPER SERVER for storage. If the switch starts abnormally, you can recover the bound data from the HELPER SERVER

Helper-server Config

| | |
|------------------------|--|
| Helper-server Address | <input type="text"/> |
| Helper-server UDP Port | 9119 <small>(1-65535,default 9119)</small> |
| Local IP Address | <input type="text"/> |
| Server Address Type | Primary ▼ |

| | | | | |
|--------------------------|-----------------------|------------------------|------------------|---------------------|
| <input type="checkbox"/> | Helper-server Address | Helper-server UDP Port | Local IP Address | Server Address Type |
|--------------------------|-----------------------|------------------------|------------------|---------------------|

| | | |
|-------------------------------|--|--|
| Helper-server address | HELPER server address | |
| Helper-server UDP port | DHCP SNOOPING and HELPER SERVER use UDP protocol for communication, the port range is 1-65535. | |
| Local IP address | The effective management IP address of the switch | |
| Second address | Two HELPER server addresses are allowed, DHCP SNOOPING will first try to connect to the PRIMARY server. Only when the PRIMARY server cannot be accessed, the switch HELPER server will connect to the SECONDARY server. Set the PRIMARY server before setting up the SECONDARY server. | |
| Operation | Apply | Add HELPER server address |
| | Delete | Delete the HELPER server address, you can leave it blank when deleting |

| | | | | |
|--------------------------|-----------------------|------------------------|------------------|---------------------|
| <input type="checkbox"/> | Helper-server Address | Helper-server UDP Port | Local IP Address | Server Address Type |
| <input type="checkbox"/> | 192.168.2.11 | 9119 | 192.168.2.113 | Primary |

Display the process and error messages or results generated during application execution

5.2.5. Port Binding

DHCP SNOOPING will notify the DOT1X module of the binding information captured by the user controlled by the DOT1X. DHCP Snooping port binding dot1x function needs to enable DHCP Snooping binding configuration first.

Port Binding

| | | |
|-------|--------------------|---------|
| Port | --Please select -- | |
| Dot1x | Disabled | |
| User | Disabled | Enabled |

Apply

| Port | Dot1x | User |
|---------------|----------|----------|
| Ethernet1/0/1 | Disabled | Disabled |
| Ethernet1/0/2 | Disabled | Disabled |
| Ethernet1/0/3 | Disabled | Disabled |
| Ethernet1/0/4 | Disabled | Disabled |
| Ethernet1/0/5 | Disabled | Disabled |
| Ethernet1/0/6 | Disabled | Disabled |
| Ethernet1/0/7 | Disabled | Disabled |
| Ethernet1/0/8 | Disabled | Disabled |

| Port | Port name | |
|---|-----------|--|
| DHCP Snooping binding dot1x status | Enable | Enable the dot1x status of DHCP Snooping port binding |
| | Disable | Disable the dot1x binding status of the DHCP Snooping port |

Display the dot1x binding status of each DHCP Snooping port of the switch

When this function is enabled on the port, DHCP SNOOPING will treat the captured binding information as a trusted user who is allowed to access all resources. The DHCP Snooping port binding user status function needs to enable the DHCP Snooping binding configuration first.

Port Binding

| | | |
|-------|--------------------|---------|
| Port | --Please select -- | |
| Dot1x | Disabled | |
| User | Disabled | Enabled |

Apply

| Port | Dot1x | User |
|---------------|----------|----------|
| Ethernet1/0/1 | Disabled | Disabled |
| Ethernet1/0/2 | Disabled | Disabled |
| Ethernet1/0/3 | Disabled | Disabled |
| Ethernet1/0/4 | Disabled | Disabled |
| Ethernet1/0/5 | Disabled | Disabled |
| Ethernet1/0/6 | Disabled | Disabled |
| Ethernet1/0/7 | Disabled | Disabled |
| Ethernet1/0/8 | Disabled | Disabled |

| Port | Port name | |
|--|-----------|--|
| DHCP Snooping binding user status | Enable | Enable DHCP Snooping port binding user status |
| | Disable | Disable DHCP Snooping port binding user status |

Display the status of users bound to each DHCP Snooping port of the switch

5.2.6. Trust Port

When a port changes from an untrusted port to a trusted port, the original defense action of the port will be automatically deleted; all security history records will be cleared.

Trust Port

| | |
|-------|--------------------|
| Port | --Please select -- |
| Trust | Disabled |

Apply

| Port | Trust |
|---------------|----------|
| Ethernet1/0/1 | Disabled |
| Ethernet1/0/2 | Disabled |
| Ethernet1/0/3 | Disabled |
| Ethernet1/0/4 | Disabled |
| Ethernet1/0/5 | Disabled |
| Ethernet1/0/6 | Disabled |
| Ethernet1/0/7 | Disabled |
| Ethernet1/0/8 | Disabled |

| Port | Port name | |
|------------------------------------|-----------|--|
| DHCP Snooping binding trust status | Enable | Enable DHCP Snooping port trust attribute status |
| | Disable | Disable the trust attribute status of the DHCP Snooping port |

Display the trust attribute status of each DHCP Snooping port of the switch

5.3. DHCP Relay Config

5.3.1. DHCP Relay Config

The switch DHCP relay configuration, the user configures the port range, and the switch sends UDP broadcast messages to the port.

DHCP Relay Config

DHCP Broadcast Suppress ? Off

DHCP Relay Forwarding ? On

Interface VLAN0001

Helper-server Address xxxxxxx.xxxx.xxx

Add

DHCP Forward Protocol Table

Showing 10 Entries
Showing 1 to 1 of 1 entries
Search

| | Forward Protocol | Interface | Helper-server Address |
|--------------------------|------------------|-----------|-----------------------|
| <input type="checkbox"/> | 67(active) | Vlan20 | 192.168.20.80 |

Delete
First
Previous
1
Next
Last

| | | |
|--------------------------------|--|--|
| DHCP Broadcast Suppress | On: Enable DHCP broadcast suppress function Off: Disable DHCP broadcast suppress function Default is off | |
| DHCP Relay Forwarding | On: Sets DHCP relay to forward UDP broadcast packets on the port Off: Disable DHCP Relay Forwarding Default is off | |
| Interface | Established Layer 3 interface | |
| Helper-server Address | IP address of the Layer 3 interface | |
| Operation | Add | Add a Layer 3 interface for DHCP to forward UDP packets |
| | Delete | Delete the Layer 3 interface through which DHCP forwards UDP packets |

6. ACL Config

6.1. Time Range Config

Time Range configuration module, the user can add or delete the operation of in this module, which can be applied to various ACL.

In the absolute mode you must input the start-time , end-time is not necessary.

You must input the weeks, start-time and end-time, but need not input the date including start and end time in the absolute-periodic.

You must input the weeks, start-time and end-time, but need not input the date including start and end time, and may input multi-week values, separate them with ",", such as:1-7:monday-sunday;31:daily;96:weekdays;127:weekend.

Input date format: YYYY.MM.DD. Input week format: number (1:Monday etc.),if input multi-week values,separate them with ",",such as:1,2 identify monday&tuesday..Input time format: HH:MM:SS.

Time Range Config

In the "Absolute" type, the start time and end time must be selected. If the start time and end time are the same time, only the start time can be worked in the "Absolute-period" type, a week value must be selected, including the start and end times, but cannot be the same in the "Period" type, you must select a week value, including start and end times.

| | | |
|-----------------|-----------------------------|-------------------|
| Time Range Name | <input type="text"/> | (1-64 characters) |
| Time Range Type | Absolute | |
| Start Time | 2023 - 01 - 01 00 : 00 : 00 | |
| End Time | 2023 - 01 - 01 00 : 00 : 00 | |

[Apply](#)

Time Range Table

Showing 10 Entries Showing 0 to 0 of 0 entries Search

| <input type="checkbox"/> | Time Range Name | Absolute | Periodic | Absolute-periodic |
|--------------------------|-----------------|----------|----------|-------------------|
| 0 results found. | | | | |

[Delete](#) [First](#) [Previous](#) [Next](#) [Last](#)

| | | |
|------------------------|---|-------------------|
| Time range name | Time period names must begin with alphabetic or numeric characters , 1-64 characters | |
| Time range type | absolute | Absolutely |
| | absolute-periodic | Absolute-periodic |
| | periodic | periodic |
| Week | Start or end weeks, "1-7": "monday-sunday"; "31": "daily"; "96": "weekdays"; "127": "weekend" | |
| Time | Start or end time, HH:MM:SS | |
| Date | Start or end date, YYYY.MM.DD, range 2001.1.1-2038.12.31 | |
| Operation type | Apply | Add operations |
| | Delete | Delete operations |

6.2. IP ACL

6.2.1. IP Standard ACL

The digital standard IP access list configuration module, where users can create or modify parameters for the digital standard IP access list.

IP Standard ACL

| | | |
|---------------------|----------------------|-----------------------------------|
| ACL Name | <input type="text"/> | (1-64 string or number 1-99) |
| ACL Action | Permit | |
| Source Address Type | Any IP | |
| TPID | <input type="text"/> | (0-65535, Optional configuration) |
| VLANID | Not Configured | |
| DSCP | Not Configured | |

[Apply](#)

IP Standard ACL Configuration Status Table

Showing 10 Entries Showing 0 to 0 of 0 entries Search

| <input type="checkbox"/> | ACL Name | Source IP/Mask | TPID | VLANID/Mask | DSCP | ACL Action |
|--------------------------|----------|----------------|------|-------------|------|------------|
| 0 results found. | | | | | | |

[Delete](#) [First](#) [Previous](#) [Next](#) [Last](#)

| | | |
|----------------------|---|-----------------------------|
| List name | Digital Standard IP Access List Number 1-99 | |
| Rule | permit | Rule permit |
| | deny | Rule deny |
| Source address type | Any IP | Match any IP address |
| | Specified IP | Match IP specified address |
| | Host IP | Match the specified host IP |
| Source IP | Source IP address, decimal point | |
| Reverse network mask | Source IP address mask, decimal point | |
| tpid | Label Protocol Identification ,0-65535 | |
| VLANID | VLAN ID, 1-4094 | |
| VLANID mask | VLAN mask, 0-4095 | |
| dcsp | IP message priority ,0-63 | |

6.2.2. IP Extended ACL

Digital extension IP access list configuration module, where users can create or modify parameters for digital extension IP access list.

IP Extended ACL

| | | |
|--------------------------|----------------------|---------------------------------|
| ACL Name | <input type="text"/> | (1-64 string or number 100-299) |
| Operation Type | ICMP | ▼ |
| ACL Action | Permit | ▼ |
| Fragment Packet | Disabled | ▼ |
| Source Address Type | Any IP | ▼ |
| Destination Address Type | Any IP | ▼ |
| IP Precedence | Not Configured | ▼ |
| TOS | Not Configured | ▼ |
| Time Range Name | Not Configured | ▼ |
| ICMP Type | Not Configured | ▼ |
| ICMP Code | Not Configured | ▼ |

[Apply](#)

IP Extended ACL Configuration Status Table

Showing 10 Entries Showing 0 to 0 of 0 entries Search

| <input type="checkbox"/> | ACL Name | Operation Type | Source IP/Mask | Destination IP/Mask | Fragment Packet | IP Precedence | TOS | Operation Type Paramer | Time Range Name | ACL Action |
|--------------------------|----------|----------------|----------------|---------------------|-----------------|---------------|-----|------------------------|-----------------|------------|
| 0 results found. | | | | | | | | | | |

[Delete](#) [First](#) [Previous](#) [Next](#) [Last](#)

| | | |
|---------------------|---|----------------------------|
| List name | Digital extensions IP access list numbers ,100-199 | |
| Operation type | Extended operation type:ICMP. IGMP. TCP. UDP. EIGRP. GRE. IGRP. IPINIP. OSPF. IP. or Specified_protocol | |
| ACL Action | permit | Rule permit |
| | deny | Rule deny |
| Fragment packet | Optional whether long messages are transmitted in pieces | |
| Source address type | Any IP | Match any IP address |
| | Specified IP | Match IP specified address |

| | | |
|--------------------------|---|-----------------------------|
| | Host IP | Match the specified host IP |
| Source IP | Source IP address, decimal point | |
| Reverse network mask | Source IP address mask, decimal point | |
| Destination address type | Any IP | Match any IP address |
| | Specified IP | Match IP specified address |
| | Host IP | Match the specified host IP |
| Destination IP | Destination IP, decimal points | |
| Reverse network mask | Destination IP address mask, decimal point | |
| IP precedence | IP priority ,0-7 | |
| TOS | Service type ,0-15 | |
| Time range name | Time period names to be applied must begin with alphabetic or numeric characters ,1-64 characters | |
| ICMP type | ICMP message type ,0-255 | |
| ICMP code | ICMP message code ,0-255 | |

6.3. MAC ACL

6.3.1. MAC Standard ACL

The digital standard MAC access list configuration module, where users can create or modify parameters for the digital standard MAC access list.

MAC Standard ACL

| | | |
|--------------------------------------|--|----------------------------------|
| ACL Name | <input type="text" value="(700-799)"/> | |
| ACL Action | Permit | <input type="button" value="v"/> |
| Source Address Type | Any MAC | <input type="button" value="v"/> |
| <input type="button" value="Apply"/> | | |

MAC Standard ACL Configuration Status Table

| | | |
|---|-----------------------------|--|
| Showing <input type="text" value="10"/> Entries | Showing 0 to 0 of 0 entries | Search <input type="text"/> |
| <input type="checkbox"/> | ACL Name | Source MAC/Mask |
| 0 results found. | | <input type="button" value="First"/> <input type="button" value="Previous"/> <input type="button" value="Next"/> <input type="button" value="Last"/> |
| <input type="button" value="Delete"/> | | |

| | | |
|---------------------|---|------------------------------|
| List name | Digital Standard MAC Access List Number 700-799 | |
| ACL Action | permit | Rule permit |
| | deny | Rule deny |
| Source address type | Any MAC | Match any MAC address |
| | Specified MAC | Match MAC specified address |
| | Host MAC | Match the specified host MAC |
| Source MAC | Source MAC address | |

| | |
|----------------------|---------------------------------|
| Reverse network mask | source MAC address inverse mask |
|----------------------|---------------------------------|

6.3.2. MAC Extended ACL

Name extension MAC access list configuration module, where users can create or modify parameters for named extension MAC access list.

MAC Extended ACL

| | | |
|--------------------------|----------------------|-----------------------------------|
| ACL Name | <input type="text"/> | (1-64 string or number 1100-1199) |
| ACL Action | Permit | ▼ |
| Source Address Type | Any MAC | ▼ |
| Destination Address Type | Any MAC | ▼ |
| Packet Type | None | ▼ |
| Cos | Not Configured | ▼ |
| Cos Mask | Not Configured | ▼ |
| VLANID | Not Configured | ▼ |
| EtherType | <input type="text"/> | (1536-65535, Optional configure) |
| EtherType Mask | Not Configured | ▼ |

[Apply](#)

MAC Extended ACL Configuration Status Table

Showing 10 Entries Showing 0 to 0 of 0 entries Search

| <input type="checkbox"/> | ACL Name | Source MAC/Mask | Destination MAC/Mask | Packet Type | Cos/Mask | VLANID/Mask | EtherType/Mask | ACL Action |
|--------------------------|----------|-----------------|----------------------|-------------|----------|-------------|----------------|------------|
| 0 results found. | | | | | | | | |

[Delete](#) [First](#) [Previous](#) [Next](#) [Last](#)

| | | |
|--------------------------|---|---|
| List name | Digital Extension MAC-IP Access List Number , 3100-3199 | |
| ACL Action | permit | Rule permit |
| | deny | Rule deny |
| Source address type | Any MAC | Match any MAC address |
| | Specified MAC | Match MAC specified address |
| | Host MAC | Match the specified host MAC |
| Source MAC | Source MAC address | |
| Reverse network mask | source MAC address inverse mask | |
| Destination address type | Any MAC | Match any MAC address |
| | Specified MAC | Match MAC specified address |
| | Host MAC | Match the specified host MAC |
| Destination MAC | Destination MAC address | |
| Reverse network mask | Destination MAC address inverse mask | |
| Packet type | none | none |
| | tagged-802-3 | Format of marked Ethernet 802-3 packets |
| | tagged-eth2 | Format of marked Ethernet II packets |

| | | |
|----------------|---|---|
| | untagged-802-3 | Format of unmarked Ethernet 802-3 packets |
| | untagged-eth2 | Format of unmarked Ethernet II packets |
| cos | cos, 0-7 | |
| cos mask | cos mask, 0-7 | |
| VLANID | VLAN ID, 1-4094 | |
| VLANID mask | VLAN mask, 0-4095 | |
| etherType | Ethernet type field value, 1536-65535 | |
| etherType mask | Ethernet type field value mask, 0-65535 | |

6.4. MAC-IP Extended ACL

Name extension MAC-IP access list configuration module, where users can create or modify parameters for named extension MAC-IP access list.

MAC-IP Extended ACL

| | | |
|--------------------------|----------------------|-----------------------------------|
| ACL Name | <input type="text"/> | (1-64 string or number 3100-3299) |
| Operation Type | ICMP | ▼ |
| ACL Action | Permit | ▼ |
| Source Address Type | Any MAC | ▼ |
| Destination Address Type | Any MAC | ▼ |
| Source Address Type | Any IP | ▼ |
| Destination Address Type | Any IP | ▼ |
| Paramer Options | Not Configured | ▼ |
| TPID | <input type="text"/> | (0-65535,Optional configuration) |
| VLANID | Not Configured | ▼ |
| Time Range Name | Not Configured | ▼ |
| ICMP Type | Not Configured | ▼ |
| ICMP Code | Not Configured | ▼ |

[Apply](#)

MAC-IP Extended ACL Configuration Status Table

Showing 10 Entries Showing 0 to 0 of 0 entries Search

| <input type="checkbox"/> | ACL Name | Operation Type | Source MAC/Mask | Destination MAC/Mask | Source IP/Mask | Destination IP/Mask | TPID | VLANID/Mask | DSCP | IP Precedence | TOS | Operation Type Paramer | Time Range Name | ACL Action |
|--------------------------|----------|----------------|-----------------|----------------------|----------------|---------------------|------|-------------|------|---------------|-----|------------------------|-----------------|------------|
| 0 results found. | | | | | | | | | | | | | | |

[Delete](#) [First](#) [Previous](#) [Next](#) [Last](#)

| | | |
|---------------------|--|-----------------------------|
| List name | Digital Extension MAC-IP Access List Number , 3100-3199 | |
| Operation type | Extension operation type : ICMP. IGMP. TCP. UDP. EIGRP. GRE. IGRP. IPINIP. OSPF. IP. or Specified_protocol | |
| ACL Action | permit | Rule permit |
| | deny | Rule deny |
| Source address type | Any MAC | Match any MAC address |
| | Specified | Match MAC specified address |

| | | |
|--------------------------|---|------------------------------|
| | MAC | |
| | Host MAC | Match the specified host MAC |
| Source MAC | Source MAC address | |
| Reverse network mask | source MAC address inverse mask | |
| Destination address type | Any MAC | Match any MAC address |
| | Specified MAC | Match MAC specified address |
| | Host MAC | Match the specified host MAC |
| Destination MAC | Destination MAC address | |
| Reverse network mask | Destination MAC address inverse mask | |
| Source address type | Any IP | Match any IP address |
| | Specified IP | Match IP specified address |
| | Host IP | Match the specified host IP |
| Source IP | Source IP address, decimal point | |
| Reverse network mask | Source IP address mask, decimal point | |
| Destination address type | Any IP | Match any IP address |
| | Specified IP | Match IP specified address |
| | Host IP | Match the specified host IP |
| Destination IP | Destination IP, decimal points | |
| Reverse network mask | Destination IPaddress mask, decimal point | |
| tpid | Label Protocol Identification ,0-65535 | |
| VLANID | VLAN ID, 1-4094 | |
| VLANID mask | VLAN mask, 0-4095 | |
| dcsp | IP message priority 0-63 | |
| IP precedence | IP priority ,0-7 | |
| TOS | Service type ,0-15 | |
| Time range name | Time period names to be applied must begin with alphabetic or numeric characters ,1-64 characters | |
| ICMP type | ICMP message type ,0-255 | |
| ICMP code | ICMP message code ,0-255 | |

6.5. ACL Binding

6.5.1. Binding Port

ACL port binding module, the user can bind and delete the access list of the specified port.

Binding Port

| | |
|--------------------|---|
| Port | <input type="text" value="--Please select --"/> |
| ACL Type | <input type="text" value="IP"/> |
| ACL Name | <input type="text"/> |
| Attached Direction | <input type="text" value="Ingress"/> |

Port Binding Status Table

Showing 10 Entries Showing 0 to 0 of 0 entries

| <input type="checkbox"/> | Port | ACL Name | ACL Type | Attached Direction |
|--------------------------|------|----------|----------|--------------------|
| 0 results found. | | | | |

| | | |
|-------------------------------|--|-------------------------------------|
| Port | Designated port number | |
| ACL type | IP | IP type |
| | MAC | MAC type |
| | MAC-IP | MAC-IP type |
| List name | Specify access list name , 1-64 characters | |
| ACL Attached Direction | in | Application ACL only |
| | in and traffic-statistics | Application ACL and flow monitoring |
| Operation type | Apply | Add operations |
| | Delete | Delete operations |

6.5.2. Binding Vlan

ACL vlan binding module, where users can bind and delete access lists to specified VLAN.

Binding Vlan

| | |
|--------------------|---|
| VLAN Interface | <input type="text" value="--Please select --"/> |
| ACL Type | <input type="text" value="IP"/> |
| ACL Name | <input type="text"/> |
| Attached Direction | <input type="text" value="Ingress"/> |

VLAN Binding Status Table

Showing 10 Entries Showing 0 to 0 of 0 entries

| <input type="checkbox"/> | VLAN Interface | ACL Name | ACL Type | Attached Direction |
|--------------------------|----------------|----------|----------|--------------------|
| 0 results found. | | | | |

| | | |
|------------------------|--|-------------------------------------|
| VLAN interface | Specifies the VLAN number to operate on | |
| ACL type | Specifies the type of ACL to bind: IP.MAC.MAC-IP | |
| List name | Specify access list name ,1-64 characters | |
| ACL Attached Direction | in | Application ACL only |
| | in and traffic-statistics | Application ACL and flow monitoring |
| Operation type | Add | Add operations |
| | Remove | Delete operations |

7. Ring Network

7.1. Spanning-tree

7.1.1. Global Properties

This page uses the build tree function with global enable.

To display the “Global Properties” page, click Ring Network -> Spanning-tree -> Global Properties, click “Apply” to configure.

Global Properties

This page is used to configure the global basic parameters of the spanning tree.

Enabled Off

| entry | describe |
|-----------|--|
| Operation | On: enable spanning tree function Off: disables spanning tree functionality |

Global Properties

This page is used to configure the global basic parameters of the spanning tree.

Enabled

Mode: Mstp

Cost Format: dot1t

Forward Time: 15 (Sec(4-30, default 15))

Hello Time: 2 (Sec(1-10, default 2))

Max Age Time: 20 (Sec(6-40, default 20))

Max Hop Time: 20 (1-40, default 20)

Priority: 32768 (0-61440, default 32768)

TC Flush: Flush

Apply

| | |
|---------------------|---|
| Mode | Generating tree protocol type: Mstp. Stp. Rstp |
| Cost Format | Path cost format:Dot1t.Dot1d |
| Forward Time | Size range :4-30, in seconds, the following conditions shall be met: $2 * (\text{Bridge_Forward_Delay} - 1.0 \text{ seconds}) \geq \text{Bridge_Max_Age}$ $\text{Bridge_Max_Age} \geq 2 * (\text{Bridge_Hello_Time} + 1.0 \text{ seconds})$ |
| Hello Time | Size range :1-10, in seconds, the following conditions shall be met: $2 * (\text{Bridge_Forward_Delay} - 1.0 \text{ seconds}) \geq \text{Bridge_Max_Age}$ $\text{Bridge_Max_Age} \geq 2 * (\text{Bridge_Hello_Time} + 1.0 \text{ seconds})$ |
| Max Age Time | Size range :6-40, in seconds, the following conditions shall be met: $2 * (\text{Bridge_Forward_Delay} - 1.0 \text{ seconds}) \geq \text{Bridge_Max_Age}$ $\text{Bridge_Max_Age} \geq 2 * (\text{Bridge_Hello_Time} + 1.0 \text{ seconds})$ |
| Max Hop Time | Numerical range :1-40 |
| Priority | Numerical range :0-61440, and an integer multiple of 4096 |

7.1.2. Instance Mapping

This page can be used to configure the mapping relationship between the spanning tree instance and the VLAN.

Instance Mapping

This page is used to generate tree instance mapping vlan configuration.

| Instance Mapping Configuration | |
|--------------------------------------|---|
| Instance | 0 <input type="button" value="v"/> |
| Operation | Add <input type="button" value="v"/> |
| VLAN List | <input type="text"/> (1-4094, for example: 1;3-6) |
| <input type="button" value="Apply"/> | |

Instance Mapping Status

Showing Entries Showing 1 to 1 of 1 entries

| Instance | VLAN List |
|----------|-----------|
| 0 | 1-4094 |

| | |
|----------------------|--|
| entry | describe |
| Instance name | Generating tree instance ID, range 0-64 |
| Operation | Add: Add the above configuration information Delete: Delete the above configuration information |
| VLAN name | VLAN ID, range : 1-4094 |

Instance Mapping Status

Showing Entries Showing 1 to 1 of 1 entries

| Instance | VLAN List |
|----------|-----------|
| 0 | 1-4094 |

| | |
|----------------------|--|
| entry | describe |
| Instance name | Generating tree instance ID, size range 0-64 |
| VLAN name | VLAN ID, range : 1-4094 |

7.1.3. Instance Properties

This page can be used to configure MSTP domain name and MSTP revision level.

Instance Properties

This page is used for spanning tree instance parameter configuration.

| Instance Properties Configuration | |
|--------------------------------------|---|
| Field Name | <input type="text"/> (1-32 characters, and cannot special char(!%#\$%&<>?*\'\"), not entering indicates deletion) |
| Revision-level | <input type="text"/> (0-65535) |
| <input type="button" value="Apply"/> | |

| Field Name | Revision-level |
|------------|----------------|
| | 0 |

| | |
|-----------------------|---|
| entry | describe |
| Field name | MSTP domain name, the length is 1-32 characters |
| Revision-level | Range :0-65535 |
| Operation | Apply: Use the above configuration |

7.1.4. Port Config

This page can be used to configure enable or disable the tree generation function under the port.

Port Config

This page is used to generate tree port parameter configuration.

| | |
|------------------------|---|
| Port | --Please select -- |
| Status | Enabled <input type="button" value="v"/> |
| BPDU | Disabled <input type="button" value="v"/> |
| Edge Port | Disabled <input type="button" value="v"/> |
| Point-to-Point | Auto <input type="button" value="v"/> |
| Packet Format | Auto <input type="button" value="v"/> |
| Digest Snooping | Disabled <input type="button" value="v"/> |
| TC Flush | Default <input type="button" value="v"/> (Default to global TC FLUSH value) |

| Port | Status | BPDU | Edge Port | Point-to-Point | Packet Format | Digest Snooping | TC Flush |
|---------------|---------|----------|-----------|----------------|---------------|-----------------|----------|
| Ethernet1/0/1 | Enabled | Disabled | Disabled | Auto | Auto | Disabled | Flush |
| Ethernet1/0/2 | Enabled | Disabled | Disabled | Auto | Auto | Disabled | Flush |
| Ethernet1/0/3 | Enabled | Disabled | Disabled | Auto | Auto | Disabled | Flush |
| Ethernet1/0/4 | Enabled | Disabled | Disabled | Auto | Auto | Disabled | Flush |
| Ethernet1/0/5 | Enabled | Disabled | Disabled | Auto | Auto | Disabled | Flush |
| Ethernet1/0/6 | Enabled | Disabled | Disabled | Auto | Auto | Disabled | Flush |
| Ethernet1/0/7 | Enabled | Disabled | Disabled | Auto | Auto | Disabled | Flush |
| Ethernet1/0/8 | Enabled | Disabled | Disabled | Auto | Auto | Disabled | Flush |

| | |
|-----------------------|--|
| Port | Ethernet port name |
| Status | Enable: Port enable spanning tree function Disable: Port disables spanning tree functionality |
| BPDU | Disabled; VLAN:1-4094 |
| Edge Port | Disabled; Enabled; BPDU Filter; BPDU Guard; |
| Point-to-Point | Auto; Disabled; Enabled; |
| Packet Format | Auto; Privacy; |

| | |
|-----------------|------------------------------|
| | Standard; |
| Digest Snooping | Disabled; Enabled; |
| TC Flush | no Flush; Flush; Limit |
| Operation | Apply |
| | Protocol Migration Check |

7.1.5. Port Instance

This page can be used for configuration of instance port priority.

Port Instance

This page is used to generate tree port instance parameter configuration.

| | | | | | |
|------------|--------------------|------------------------|--|--|--|
| Instance | 0 | | | | |
| Port | --Please select -- | | | | |
| Path Cost | 0 | (0-200000000)(0=>Auto) | | | |
| Priority | 0 | | | | |
| Port Guard | Auto | | | | |

Apply

| Instance | Port | Path Cost | Priority | Port Guard |
|----------|---------------|-----------|----------|------------|
| 0 | Ethernet1/0/1 | Auto | 128 | Auto |
| 0 | Ethernet1/0/2 | Auto | 128 | Auto |
| 0 | Ethernet1/0/3 | Auto | 128 | Auto |
| 0 | Ethernet1/0/4 | Auto | 128 | Auto |
| 0 | Ethernet1/0/5 | Auto | 128 | Auto |
| 0 | Ethernet1/0/6 | Auto | 128 | Auto |
| 0 | Ethernet1/0/7 | Auto | 128 | Auto |
| 0 | Ethernet1/0/8 | Auto | 128 | Auto |

| | |
|---------------|---|
| Instance name | Generate tree instance name |
| Port | Ethernet port name |
| Cost | Size range :0-200000000 |
| Priority | The size range is :0-240, multiple of 16 |
| Priority | Auto; Root Guard; Loop Guard; |
| Operation | Configuration: Apply the above configuration |

7.1.6. Status

This page can be used to view information for the spanning-tree status.

Runing Status Information

| MSTP Bridge Config Info | | | | | | | |
|-------------------------|---------------|--------------|------------|--------------|---------------|--|--|
| Mode | Bridge MAC | Max Age Time | Hello Time | Forward Time | Force Version | | |
| RSTP(IEEE 802.1s) | 84e5d8e0:1cb1 | 20s | 2s | 15s | 3 | | |

| Instance0 | |
|------------------|---------------------|
| Self Bridge ID | 32768.84e5d8e0:1cb1 |
| Root ID | this switch |
| Ext.RootPathCost | 0 |
| Region Root ID | this switch |
| Int.RootPathCost | 0 |
| Root Port ID | 0 |

| Port | ID | Max Age Time | Int.RootPathCost | State | Role | DsgBridge | DsgPort |
|---------------|---------|--------------|------------------|---------|------|---------------------|---------|
| Ethernet1/0/2 | 128.002 | 0 | 0 | Forward | DSGN | 32768.84e5d8e0:1cb1 | 128.002 |

7.2. ERPS

7.2.1. ERPS Ring Config

This page can be used for configuration of ERPS Ring.

ERPS Ring Config

Create or delete ERPS ring.

Topology Change Propagation None

Apply

| | | |
|-----------------------|--|------------------|
| Ring Name | <input type="text"/> | (1-64 character) |
| Version | V2 | |
| Ring-topo | major-ring | |
| Port1 Configure | Yes | |
| Port0 | Ethernet1/0/1 | |
| Port1 | Ethernet1/0/2 | |
| R-APS Virtual-Channel | Without | |

Apply

ERPS Configuration Status Table

Showing 10 Entries Showing 0 to 0 of 0 entries Search

| <input type="checkbox"/> | Ring Name | Port0 | Port1 | Ring-topo | R-APS Virtual-Channel | Version | Instance Count |
|--------------------------|-----------|-------|-------|-----------|-----------------------|---------|----------------|
| 0 results found. | | | | | | | |

Delete First Previous Next Last

| | |
|------------------------------------|---|
| Topology Change Propagation | None; ERPS; STP; |
| Ring Name | The ERPS ring name created, 1-64 character |
| Version | If configured ERPS ring to support v1, this ring will not support multi-instance. ERPS ring instance does not support |

| | |
|------------------------------|---|
| | <p>the management commands of MS, FS.</p> <p>If configured ERPS ring to support v2, the instance of this ring will deal with the ERPS packets according to the v1 format. Package the R-APS packets and resolve the fields according to v1 format. The fields defined by v2 will not be dealt.</p> <p>V1: Means to support v1 which is released in 2008-06 and the amendment (2009-04)</p> <p>V2: Means to support v2 which is released in 2010-03 and the amendment (2010-06)</p> |
| Ring-topo | <p>major-ring: Configure the ERPS ring as the major ring</p> <p>open-ring: Configure the ERPS ring as the open ring</p> |
| Port1 Configure | <p>No: Port1 is not allowed to be configured.</p> <p>Yes: Port1 is allowed to be configured.</p> |
| Port0 | Select port as Port 0 for ERPS |
| Port1 | Select port as Port 1 for ERPS |
| R-APS Virtual-Channel | <p>Configure if there is the R-APS virtual channel in ERPS ring according to the configuration.</p> <p>Inputting: Success or error. If there is not R-APS virtual channel on the ERPS ring, the R-APS channel of all the instances of ERPS ring will be unblocked forever and it only blocks the data channel; otherwise, the R-APS channel and the data channel will be blocked at the same time.</p> <p>Without: The R-APS virtual channel is not existed in this ERPS ring.</p> <p>With: The R-APS virtual channel is existed in this ERPS ring.</p> |

| | |
|-----------|--------|
| Operation | Apply |
| | Delete |

7.2.2. ERPS Instance Config

This page can be used for configuration of ERPS Instance.

ERPS Instance Config

| | | |
|--------------------|-----------|---|
| Ring Name | 1 | |
| Instance ID | 1 | |
| Control VLAN | VLAN0002 | |
| Ring ID | 1 | |
| R-APS MEL | 7 | |
| Description | | (1-64 characters) |
| Revertive Mode | Revertive | |
| Protected Instance | | (0-64,use '-' and ':' splice,for example:1;3-6) |
| WTR Timer | 5 | (1-12min,default 5) |
| Guard Timer | 50 | (1-200ms,default 50) |
| Holdoff Timer | 0 | (0-10s,default 0) |
| Port0 Role | Common | |
| Port1 Role | Common | |

[Apply](#)

ERPS Configuration Status Table

Showing 10 Entries Showing 0 to 0 of 0 entries

| <input type="checkbox"/> | Ring Name | Instance ID | Control VLAN | Ring ID | R-APS MEL | Description | Revertive Mode | Protected Instance | WTR Timer | Guard Timer | Holdoff Timer | Port0 Role | Port1 Role |
|--------------------------|-----------|-------------|--------------|---------|-----------|-------------|----------------|--------------------|-----------|-------------|---------------|------------|------------|
| 0 results found. | | | | | | | | | | | | | |

[Delete](#) [First](#) [Previous](#) [Next](#) [Last](#)

| | |
|-----------------------|---|
| Ring Name | Select the ERPS ring you created |
| Instance ID | Create the ERPS ring instance ID, id of ERPS ring, the range is 1 to 16 |
| Control Vlan | vlan id of R-APS packets, range is from 2 to 4094 |
| Ring ID | ERPS ring id and the range is 1 to 64 |
| R-APS MEL | The level value of APS packets, range is from 1 to 7 |
| Description | ERPS instance name, the maximum string is 64, and it is made up with letters, numbers and underlines; the first and last characters cannot be underlines. |
| Revertive Mode | Configure the ERPS ring instance as non-revertive. If this ERPS ring supports v1, then cannot be configured. Only configured on the RPL owner node of the sub ring. Non-Reviertive; Reviertive; |

| | |
|----------------------|---|
| Protect ID | The MSTP instance list protected by ERPS ring instance |
| WTR Timer | WTR timer is used to avoid the frequent protection switching of RPL owner node because of the periodic (intermittent) default. The interval is 1min and the range is from 1 to 12min, default is 5min. |
| Guard Timer | The guard timer is used for the Ethernet node to avoid the error handling and the close loop according to the outdated R-APS packets. The interval is 10ms and the range is 10ms to 2s, default is 500ms. |
| Holdoff Timer | The interval is 1s and the range is 0 to 10s, default is 0s. |
| Port0 Role | Common is default config, it is the ordinary transmission node type. |
| Port1 Role | <ul style="list-style-type: none"> • Owner • Neighbour • Common |
| Operation | Apply |
| | Delete |

7.2.3. View ERPS Statistics

This page can be used for configuration of ERPS Statistics.

View ERPS Statistics

| ERPS Instance Table | | | | | | | | | | | | | | | | | | | | | |
|---------------------|-------------|---------------|-----------|-------------|---------------|---------|-----|------|------|------|------|------|------|------|------|------|------|---------|---------|---------|---------|
| Ring Name | Instance ID | Instance Port | Port Role | Port Status | Signal Status | Node Id | BPR | nrTx | nrRx | rbTx | rbRx | fsTx | fsRx | msTx | msRx | sfTx | sfRx | eventTx | eventRx | totalTx | totalRx |
| 0 results found. | | | | | | | | | | | | | | | | | | | | | |

| | |
|--------------|--|
| Ring Name | The ERPS ring name whe you created |
| Instance ID | The ERPS ring instance ID when you |
| Intance Port | The ERPS ring member ports |
| Port Role | ERPS ring node roles: RPL Owner, RPL neighbor, |
| Port States | Blocked: port is in block status forwarding: port is in forwarding status |

| | |
|---------------|---|
| Signal Status | ERPS ring port fault status: Non-failed: no fault Failed: fault happened |
| Last NodeID | The node ID information is the last bit of the |
| Last Bpr | The block link information carried by the receiving last R-APS saved by ERPS ring port, it is port0 or port1 which was blocked. |
| rbTX | RB transport statistics |
| rbRX | RB receive statistics |
| nrTX | NR transport statistics |
| nrRX | NR receive statistics |
| fsTX | FS transport statistics |
| fsRX | FS receive statistics |
| msTX | MS transport statistics |
| msRX | MS receive statistics |
| sfTX | SF transport statistics |
| sfRX | SF receive statistics |
| eventTX | Event transport statistics |
| eventRX | Event receive statistics |
| totalTX | Total transport statistics |
| totalRX | Total receive statistics |

8. Route Config

8.1. Static Route

This page can be used for the basic configuration of static routing.

Static Route

| | |
|------------------------|------------------------|
| Destination IP Address | <input type="text"/> |
| Mask Or Prefix-length | <input type="text"/> |
| Nextthop Or null0 | <input type="text"/> |
| Distance | 1 <input type="text"/> |

[Apply](#)

Static Routing Configuration Status Table

Showing Entries Showing 0 to 0 of 0 entries

| <input type="checkbox"/> | Destination IP Address/Mask | Nextthop Or null0 | Distance | State |
|--------------------------|-----------------------------|-------------------|----------|-------|
| 0 results found. | | | | |

[Delete](#) [First](#) [Previous](#) [Next](#) [Last](#)

| | |
|--------------------------------------|--|
| Destination IP address | IP address, format :10.10.11.11 |
| Network mask or prefix-length | Subnet mask in the following format :255.255.255.0; or mask length |
| Nextthop or Interface null0 | IP address, format :10.10.11.11. or null0 |
| Distance | Range :1-255 |
| Operation type | Apply: Add the above settings Delete: Delete the above |

8.2. RIP Route

8.2.1. Keychain

This page can be used for config keychain function.

Keychain

| | | |
|---------------|----------------------|-------------------|
| Keychain Name | <input type="text"/> | (1-80 characters) |
| Key ID | <input type="text"/> | (0-2147483647) |
| Key | <input type="text"/> | (1-256 character) |

[Add](#)

Keychain Information Table

Showing Entries Showing 0 to 0 of 0 entries

| <input type="checkbox"/> | No. | Keychain Name | Key ID | Key |
|--------------------------|-----|---------------|--------|-----|
| 0 results found. | | | | |

[Delete Keychain](#) [Delete Key ID](#) [First](#) [Previous](#) [Next](#) [Last](#)

| | |
|---------------|--------------------------------------|
| Keychain Name | Keychain Name, range 1-80 characters |
| Key ID | Key ID, range 0-2147483647 |
| Key | Key, range 1-256 character. |

8.2.2. Basic Config

This page can be used for enable RIP function.

Basic Config

RIP Status Off

Basic Config

| | | |
|-------------------|-------------------------------------|----------------------------------|
| RIP Status | <input checked="" type="radio"/> On | |
| Add Default Route | Disabled | |
| Default Metric | 1 | |
| Version | V2 | |
| Recv Buffer Size | 0 | (8192-2147483647 Byte,default:0) |
| Update | 30 | (5-2147483647 Sec) |
| Timeout | 180 | (5-2147483647 Sec) |
| Garbage | 120 | (5-2147483647 Sec) |
| Maximum Prefix | 10000 (1-65535) | 75% |

| | |
|--------------------------|--|
| Add Default Route | Control distribution of default route, distribute a default route. |
| Default Metric | Set a metric of redistribute routes, range is 1-16, default is 1. |
| Version | Config RIP version v1/v2, default is v2. |
| Recv Buffer Size | The RIP UDP receive buffer size value, default is 8192. |
| Update | Routing table update timer value in second. Default is 30. |
| Timeout | Routing information timeout timer. Default is 180. |
| Garbage | Garbage collection timer. Default is 120. |
| Maximum Prefix | Maximum number of RIP routes, default is 10000. Percentage of maximum routes to generate a warning (Default 75%) |

8.2.3. Network Config

This page can be used for RIP network config.

Network Config

| | |
|-----------------|----------|
| Interface Type | VLAN |
| Interface Value | (1-4094) |

[Add](#)

Network Config Table

Showing 10 Entries Showing 0 to 0 of 0 entries Search

| | No. | Network Interface Configured |
|------------------|-----|------------------------------|
| 0 results found. | | |

[Delete](#)
[First](#)
[Previous](#)
[Next](#)
[Last](#)

Network Config

| | |
|-----------------|--------|
| Interface Type | Tunnel |
| Interface Value | (1-50) |

[Add](#)

Network Config Table

Showing 10 Entries Showing 0 to 0 of 0 entries Search

| | No. | Network Interface Configured |
|------------------|-----|------------------------------|
| 0 results found. | | |

[Delete](#)
[First](#)
[Previous](#)
[Next](#)
[Last](#)

Network Config

| | |
|-----------------|----------|
| Interface Type | Loopback |
| Interface Value | (1-1024) |

[Add](#)

Network Config Table

Showing 10 Entries Showing 0 to 0 of 0 entries Search

| | No. | Network Interface Configured |
|------------------|-----|------------------------------|
| 0 results found. | | |

[Delete](#)
[First](#)
[Previous](#)
[Next](#)
[Last](#)

Network Config

| | |
|-----------------|---------------------|
| Interface Type | IP Prefix |
| Interface Value | IP Address / Prefix |

[Add](#)

Network Config Table

Showing 10 Entries Showing 0 to 0 of 0 entries Search

| | No. | Network Interface Configured |
|------------------|-----|------------------------------|
| 0 results found. | | |

[Delete](#)
[First](#)
[Previous](#)
[Next](#)
[Last](#)

| | |
|------------------------------|--|
| <p>Interface Type</p> | <p>VLAN: vlan Tunnel: Tunnel interface Loopback: loopback IP Prefix: IP prefix <network>/<length>, e. g., 35. 0. 0. 0/8</p> |
|------------------------------|--|

| | |
|------------------------|--|
| Interface Value | VLAN: interface name, 1-4094. Tunnel: Tunnel interface number, 1-50. Loopback: Loopback ID <1-1024> IP Prefix: IP prefix <network>/<length>, e. g., 35. 0. 0. 0/8 |
|------------------------|--|

8.2.4. Passive Interface

This page can be used for RIP passive interface.

Passive Interface

The configured interface only receives and does not send data packets.

| | |
|------------------------|----------|
| Interface Type | VLAN |
| Interface Value | VLAN0001 |

[Add](#)

Passive Interface Config Table

Showing 10 Entries Showing 0 to 0 of 0 entries Search

| | No. | Passive Interface |
|--------------------------|-----|-------------------|
| <input type="checkbox"/> | | 0 results found. |

[Delete](#) [First](#) [Previous](#) [Next](#) [Last](#)

Passive Interface

The configured interface only receives and does not send data packets.

| | |
|------------------------|--------------------------------------|
| Interface Type | Tunnel |
| Interface Value | <input type="text" value=""/> (1-50) |

[Add](#)

Passive Interface Config Table

Showing 10 Entries Showing 0 to 0 of 0 entries Search

| | No. | Passive Interface |
|--------------------------|-----|-------------------|
| <input type="checkbox"/> | | 0 results found. |

[Delete](#) [First](#) [Previous](#) [Next](#) [Last](#)

| | |
|------------------------|---|
| Interface Type | VLAN: vlan Tunnel: Tunnel interface |
| Interface Value | VLAN: interface name, 1-4094. Tunnel: Tunnel interface number, 1-50. |

8.2.5. Neighbor Config

This page can be used for RIP neighbor config.

Neighbor Config

Neighbor Address

[Add](#)

Neighbor Config Table

Showing Entries Showing 0 to 0 of 0 entries

| No. | Neighbor Address |
|------------------|------------------|
| 0 results found. | |

[Delete](#) [First](#) [Previous](#) [Next](#) [Last](#)

| | |
|-------------------------|------------------------------|
| Neighbor Address | Neighbor address: A. B. C. D |
|-------------------------|------------------------------|

8.2.6. Interface Config

This page can be used for RIP interface config.

Interface Config

| | |
|-----------------------|-------------------------------|
| VLAN Interface | VLAN0001 <input type="text"/> |
| Send Version | Disabled <input type="text"/> |
| Send Packet | Enabled <input type="text"/> |
| Recv Version | Disabled <input type="text"/> |
| Recv Packet | Enabled <input type="text"/> |
| Authentication Mode | None <input type="text"/> |
| Compatible With Cisco | Disabled <input type="text"/> |
| Split Horizon | Poisoned <input type="text"/> |

[Apply](#)

Interface Config Table

Showing Entries Showing 0 to 0 of 0 entries

| No. | VLAN Interface | Send Version | Send Packet | Recv Version | Recv Packet | Authentication Mode | Key | Keychain Name | Compatible With Cisco | Split Horizon |
|------------------|----------------|--------------|-------------|--------------|-------------|---------------------|-----|---------------|-----------------------|---------------|
| 0 results found. | | | | | | | | | | |

[First](#) [Previous](#) [Next](#) [Last](#)

| | |
|------------------------------|--|
| VLAN Interface | Select Interface VLAN |
| Send Version | Advertisement transmission 1: RIP version 1 1 2: RIP version 1 RIP version 2 1-compatible: RIPv1-compatible 2: RIP version 2 2 1: RIP version 2 RIP version 1 |
| Recv Version | Advertisement reception 1: RIP version 1 2: RIP version 2 |
| Authentication Mode | None: Not config MD5: Keyed message digest Plaintext: Clear text authentication |
| Compatible With Cisco | Compatible with cisco |

| | |
|---------------|---|
| Split Horizon | Poisoned: means configure the split horizon with poison reverse., Split Horizon with poison reverse by default. |
| | Enabled: enable split horizon |
| | Disabled: disable split horizon |

8.2.7. Redistribute Router

This page can be used for RIP Redistribute Router config.

Redistribute Router

| | |
|--------------|------------------|
| Routing Type | Connected ▼ |
| Metric | Not Configured ▼ |

[Add](#)

Redistribute Router Table

Showing 10 ▼ Entries Showing 0 to 0 of 0 entries

| | No. | Routing Type | OSPF Process ID | Metric |
|------------------|-----|--------------|-----------------|--------|
| 0 results found. | | | | |

[Delete](#) [First](#) [Previous](#) [Next](#) [Last](#)

| | |
|------------------------|---|
| Routing Type | Connected: redistribute connected routes |
| | Kernel: redistribute kernel routes |
| | OSPF Route: redistribute ospf routes |
| | BGP Route: redistribute bgp routes |
| | Static Route: redistribute static routes |
| Metric | 0-16, default is not configured |
| OSPF Process ID | Redistribute OSPF Process ID, 1-65535, No parameters indicate the default process |

8.2.8. View RIP Information

This page can be used for view RIP information.

View RIP Information

RIP Entries RIP Information ▾

RIP Routing Information Table

Codes: R - RIP, K - Kernel, C - Connected, S - Static, O - OSPF, I - IS-IS,
 B - BGP, a - aggregate, s - suppressed

| Network | Next Hop | Metric | From | If | Time | Supplf |
|---------|----------|--------|------|----|------|--------|
| | | | | | | |

| | | |
|--------------------|-----------------|---|
| RIP Entries | RIP Information | Show the RIP related messages |
| | RIP Interface | Show the routes in the RIP route database |
| | RIP Protocol | Show the RIP process parameter and statistics information |

8.3. OSPF Route

8.3.1. Basic Config

This page can be used for OSPF basic config.

Basic Config

| | | |
|------------|---|--|
| Process ID | <input type="text" value="0-65535"/> | |
| Router ID | <input type="text" value="IP Address"/> | |

[Add](#)

OSPF Process ID Table

Showing 10 ▾ Entries Showing 1 to 1 of 1 entries Search

| | No. | Process ID | Router ID |
|--------------------------|-----|------------|-------------|
| <input type="checkbox"/> | 1 | 1 | 192.168.2.1 |

[Delete](#) [First](#) [Previous](#) [1](#) [Next](#) [Last](#)

| | |
|-------------------|---|
| Process ID | OSPF process ID, 0-65535. |
| Router ID | OSPF router-id in IP address format: A. B. C. D |

8.3.2. Network Config

This page can be used for OSPF network config.

Network Config

| | |
|-----------------|----------------------|
| Process ID | 1 |
| Network Address | IP Address / Prefix |
| Area Number | (0-4294967295 or IP) |

[Add](#)

OSPF Area Network Table

Showing 10 Entries Showing 1 to 1 of 1 entries Search

| | No. | Process ID | Network Address | Area Number |
|--------------------------|-----|------------|-----------------|-------------|
| <input type="checkbox"/> | 1 | 1 | 1.1.1.0/24 | 0 |

[Delete](#) [First](#) [Previous](#) [1](#) [Next](#) [Last](#)

| | |
|------------------------|--|
| Process ID | Select OSPF process ID. |
| Network Address | OSPF network prefix:A. B. C. D/M |
| Area Number | Set the OSPF area ID OSPF area ID as a decimal value:0-4294967295 OSPF area ID in IP address format: A. B. C. D |

8.3.3. Passive Interface

This page can be used for OSPF passive interface.

Passive Interface

The configured interface only receives and does not send data packets.

| | |
|------------|-------|
| Process ID | 1 |
| Interface | Vlan1 |

[Add](#)

Passive Interface Config Table

Showing 10 Entries Showing 0 to 0 of 0 entries Search

| | No. | Process ID | Interface |
|------------------|-----|------------|-----------|
| 0 results found. | | | |

[Delete](#) [First](#) [Previous](#) [Next](#) [Last](#)

| | |
|------------------------|-------------------------|
| Process ID | Select OSPF process ID. |
| Interface Value | Interface name |

8.3.4. Area Config

This page can be used for OSPF area config.

Area Config

| | |
|---------------------|----------------|
| Process ID | 1 |
| Area Number | 0 |
| Operation Type | Authentication |
| Authentication Mode | None |

Apply

OSPF Area Basic Config Table

| Process ID | Area Number | Authentication Mode | Cost |
|------------|-------------|---------------------|------|
| 1 | 0 | None | 1 |

OSPF Area Range Config Table

Showing 10 Entries Showing 0 to 0 of 0 entries Search

| No. | Process ID | Area Number | Range Prefix | Type | Substitute Range Prefix |
|------------------|------------|-------------|--------------|------|-------------------------|
| 0 results found. | | | | | |

[First](#)
[Previous](#)
[Next](#)
[Last](#)

Delete

| | |
|----------------------------|--|
| Process ID | Select OSPF process ID. |
| Area Number | Select the OSPF area ID |
| Operation Type | Authentication: Enable authentication Default-Cost: Set the summary-default cost of a NSSA or stub area Range: Summarize routes matching address/mask (border routers only) |
| Authentication Mode | None: Not config MD5: Use message-digest authentication Plaintext: Use text authentication |
| Cost | Stub's advertised default summary cost, 0-16777215 |
| Range Prefix | Area range prefix: A. B. C. D/M |
| Type | Advertise: Advertise this range (default) Not-Advertise: DoNotAdvertise this range Substitute: Announce area range as another prefix |

8. 3. 5. Interface Config

This page can be used for OSPF interface config.

Interface Config

| | |
|----------------|--------------|
| Interface Name | Disable OSPF |
| Vlan1 | Disabled |

Interface Config

| | |
|----------------|--------------|
| Interface Name | Disable OSPF |
| Vlan40 | Disabled |

Basic Configuration of OSPF Interface

| | | | | | |
|---------------------|------|--------------------------|-----------------|-----------|----------------------|
| Cost | 1 | (1-65535,default 1) | Priority | 1 | (0-255, default 1) |
| Hello Interval | 10 | (1-65535s,default:10s) | Transmit Delay | 1 | (1-3600s,default:1s) |
| Dead Interval | 40 | (1-65535s,default:40s) | Ignore MTU | Disabled | |
| Retransmit Interval | 5 | (1-3600s,default:5s) | Database Filter | Disabled | |
| MTU | 1500 | (576-65535,default:1500) | Network Type | Broadcast | |

| | |
|----------------------------|--|
| Interface Name | Select Interface VLAN name |
| Disable OSPF | Enabled: Set Disable OSPF. Disabled: Set Enable OSPF. |
| Cost | Interface cost, <1-65535> |
| Priority | Router priority, <0-255> |
| Hello Interval | Time between HELLO packets, <1-65535> Seconds |
| Transmit Delay | Link state transmit delay <1-3600> Seconds |
| Dead Interval | Interval after which a neighbor is declared dead, <1-65535> Seconds |
| Ignore MTU | Ignores the MTU in DBD packets Disabled: Set disable ignore mtu Enabled: Set enable ignore mtu |
| Retransmit Interval | Time between retransmitting lost link state advertisements, <1-3600> Seconds |
| Database Filter | Filter OSPF LSA during synchronization and flooding Disabled: Set disable database filter. Enabled: Set enable database filter. |
| MTU | OSPF interface MTU, <576-65535> MTU size |
| Network Type | Network type |

| | |
|--|--|
| | Broadcast: Specify OSPF broadcast multi-access network non-broadcast: Specify OSPF NBMA network point-to-multipoint: Specify OSPF point-to-multipoint network point-to-point: Specify OSPF point-to-point network |
|--|--|

OSPF Interface Status Table

| Link State | Process ID | Router ID | Area Number | Network Address | Hello | State |
|--------------------------|-----------------|------------|---------------|-----------------|---------------|--------------------|
| Down | 1 | 20.10.0.10 | 0.0.0.1 | 80.1.1.1/24 | 00:00:04 | Backup |
| Neighbor/Adjacent | Hello(RX/TX) | DD(RX/TX) | LS-Req(RX/TX) | LS-Upd(RX/TX) | LS-Ack(RX/TX) | Sequence/Discarded |
| 1/1 | 18132/18812 | 22/40 | 11/11 | 122/769 | 769/122 | 0/0 |
| Designated Router | | | | | | |
| Router ID | Network Address | | | | | |
| 20.10.0.30 | 80.1.1.20 | | | | | |
| Backup Designated Router | | | | | | |
| Router ID | Network Address | | | | | |
| 20.10.0.10 | 80.1.1.1 | | | | | |

| | |
|--------------------------|---|
| Link State | Interface vlan link state |
| Process ID | OSPF process ID |
| Router ID | OSPF router ID |
| Area Number | OSPF interface area number |
| Network Address | OSPF interface network address |
| Hello | OSPF Hello due |
| State | OSPF interface state |
| Neighbor/Adjacent | OSPF interface Neighbor Count/ Adjacent neighbor count |
| Hello(RX/TX) | Hello received/sent |
| DD(RX/TX) | DD received/sent |
| LS-Req(RX/TX) | LS-Req received/sent |
| LS-Upd(RX/TX) | LS-Upd received/sent |
| LS-Ack(RX/TX) | LS-Ack received/sent |
| Sequence/Discarded | Crypt Sequence Number/Discarded |
| Designated Router | OSPF interface Designated Router |
| Router ID | Designated Router ID |
| Network Address | Designated Router Network Address |
| Backup Designated Router | OSPF interface Backup Designated Router |
| Router ID | Backup Designated Router ID |
| Network Address | Backup Designated Router Network Address |

8.3.6. Interface Authentication

This page can be used for OSPF interface authentication config.

Interface Authentication

Interface Name:

Interface Authentication Method

Authentication Method:

[Apply](#)

Key Config

Encryption Type:

Key Type:

Key: (1-8 characters)

[Apply](#)

OSPF Interface Authentication Status Table

| Authentication Method | |
|-----------------------|--|
| None | |

[Delete Simple Authentication Key](#)

OSPF Interface MD5 Key Table

Showing 10 Entries Showing 0 to 0 of 0 entries Search

| No. | Key ID | Key Type | Key |
|------------------|--------|----------|-----|
| 0 results found. | | | |

[Delete](#) [First](#) [Previous](#) [Next](#) [Last](#)

| | |
|------------------------------|--|
| Interface Name | Select interface vlan name |
| Authentication Method | None: No Authentication |
| | Simple: Simple Authentication |
| | MD5: MD5 Authentication |
| Simple Key | Simple Authentication Key, 1-8 characters |
| MD5 Key | MD5 Authentication Key, 1-16 characters |
| Plain key | 1-8 characters |
| Cipher Key | 1-16 characters, input plaintext application to encrypt ciphertext |
| Key ID | MD5 Key ID, 1-255 |

8.3.7. Default Route Originate

This page can be used for OSPF default route originate config.

Default Route Originate

| | | |
|-------------------------------|---|---|
| OSPF Process ID | 0 | ▼ |
| Default-Information Originate | Enabled | ▼ |
| Always | Disabled | ▼ |
| Metric Type | External Type 2 | ▼ |
| Metric | (0-16777214, No parameter indicates no setting) | |

Apply

| | |
|--------------------------------------|--|
| OSPF Process ID | Select OSPF Process ID |
| Default-Information Originate | Create a default external route to OSPF route area, Enabled/Disabled |
| Always | Whether default route exist in the software or not, the default route is always advertised. Enabled/Disabled |
| Metric Type | External Type 1: Set the OSPF external type 1 metric value External Type 2: Set the OSPF External Type 2 metric value, default is External Type 2 |
| Metric | Set the metric value for creating default route, Ranges between 0-16777214 |

8.3.8.Redistribute Router

This page can be used for OSPF redistribute router config.

Redistribute Router

| | | |
|-----------------|-----------------|---|
| OSPF Process ID | 0 | |
| Routing Type | Connected | |
| Tag Value | | (0-4294967295, Default is 0, No parameters indicates default value) |
| Metric Type | External Type 2 | |
| Metric | | (0-16777214, No parameter indicates no setting) |

[Add](#)

Redistribute Router Table

Showing 10 Entries Showing 0 to 0 of 0 entries Search

| <input type="checkbox"/> | No. | Routing Type | Redistribute OSPF Process ID | Tag Value | Metric Type | Metric |
|--------------------------|-----|--------------|------------------------------|-----------|-------------|--------|
| 0 results found. | | | | | | |

[Delete](#) [First](#) [Previous](#) [Next](#) [Last](#)

| | |
|-------------------------------------|--|
| OSPF Process ID | Select OSPF Process ID |
| Routing Type | Connected: introduce from direct route |
| | Kernel: introduce from kernel route |
| | BGP Route: introduce from BGP route |
| | RIP Route: introduce from the RIP route |
| | OSPF Route: introduce from OSPF route |
| | Static Route: introduce from static route |
| Tag Value | External identification number of the external route, ranging between 0-4294967295, defaulted at 0 |
| Redistribute OSPF Process ID | OSPF process ID, 0 by default |
| Metric Type | External Type 1: Set the OSPF external type 1 metric value |
| | External Type 2: Set the OSPF External Type 2 metric value, default is External Type 2 |
| Metric | Set the metric value for creating default route, Ranges between 0-16777214 |

8.3.9. View OSPF Information

This page can be used for view OSPF Information config.

View OSPF Information

OSPF Routing Information Table

```

Routing Process "ospf 0" with ID 192.168.20.70
Process bound to VRF default
Process uptime is 16 hours 48 minutes
Conforms to RFC2328, and RFC1583Compatibility flag is disabled
Supports only single TOS(TOS0) routes
Supports opaque LSA
Supports Graceful Restart
Grace period for Graceful Restart 60 secs
Supports helper mode for Graceful Restart
SPF schedule delay 5 secs, Hold time between two SPFs 10 secs
    
```

| | | |
|---------------------|------------------|---------------------------------------|
| OSPF Entries | OSPF Information | Display OSPF main messages |
| | OSPF Database | Display the OSPF link state data base |

| | |
|---------------|--|
| | messages |
| OSPF Neighbor | Display the OSPF adjacent point messages |

8.4. BGP Route

8.4.1. Basic Config

This page can be used for BGP basic config.

Basic Config

| BGP Global Config | |
|-------------------------|---|
| Aggregate Nexthop Check | Disabled <input type="button" value="v"/> |
| RFC1771 Path Select | Disabled <input type="button" value="v"/> |
| RFC1771 Strict | Disabled <input type="button" value="v"/> |

| Create AS | |
|-----------|---|
| AS Number | <input type="text" value=""/> (Number:1-4294967295) |

| AS Table | | |
|---|-----------------------------|--------------------------------------|
| Showing <input type="text" value="10"/> Entries | Showing 1 to 1 of 1 entries | Search <input type="text" value=""/> |
| <input type="checkbox"/> | No. | AS Number |
| <input type="checkbox"/> | 1 | 1000 |

| | |
|--------------------------------|---|
| Aggregate Nexthop Check | Configures whether BGP checks all the route next-hop in aggregating. When check is enabled, the aggregate will not be performed if the next-hop of the covered routes are not in accordance. When checking is disabled, all covered route will be aggregated into the aggregate route. Default is disabled |
| RFC1771 Path Select | After this attribute is set, path selecting will follow the way defined in rfc 1771, namely not checking the AS internal metric, when different AS exist, which should be perform without this attribute set |

| | |
|-----------------------|--|
| | Default is disabled |
| RFC1771 Strict | Set whether strictly follows the rfc1771 restrictions. With this attribute set, generation types of routes from protocols such as RIP, OSPF, ISIS, etc will be regarded as IGP(internal generated), or else as incomplete. |
| AS Number | AS number, ranging from 1 to 4294967295, it can be shown in decimal notation(such as 6553700) or delimiter method(such as 100.100) |

8.4.2. Network Config

This page can be used for BGP network config.

Network Config

| | |
|-------------------|---------------------|
| AS Number | 1000 |
| IP Prefix | IP Address / Prefix |
| BACKDOOR ? | Disabled |

[Add](#)

BGP Network Table

Showing 10 Entries Showing 0 to 0 of 0 entries

| | No. | IP Prefix | BACKDOOR |
|------------------|-----|-----------|----------|
| 0 results found. | | | |

[Delete](#) [First](#) [Previous](#) [Next](#) [Last](#)

| | |
|------------------|--------------------------|
| AS Number | AS Number |
| IP Prefix | Network prefix identifie |
| BACKDOOR | back door parameters |

8.4.3. Aggreate Address

This page can be used for BGP aggregate address config.

Aggregate Address

| | | |
|--------------|---------------------|--|
| AS Number | 1000 | |
| IP Prefix | IP Address / Prefix | |
| Summary-Only | Enabled | |
| AS | Enabled | |

[Add](#)

Address Aggregation Configuration Table

Showing 10 Entries Showing 0 to 0 of 0 entries

| | No. | IP Prefix | Summary-Only | AS |
|------------------|-----|-----------|--------------|----|
| 0 results found. | | | | |

[Delete](#) [First](#) [Previous](#) [Next](#) [Last](#)

| | |
|---------------------|---|
| AS Number | AS Number |
| IP Prefix | IP address, length of mask. |
| Summary-Only | Send summary only ignoring specific route. |
| AS | Show AS on the path in list, each AS is shown once. |

8.4.4. Redistribute Router

This page can be used for BGP redistribute router config. Route from other ways will be distributed into the BGP route table

Redistribute Router

| | | |
|--------------|-----------|--|
| AS Number | 1000 | |
| Routing Type | Connected | |

[Add](#)

Redistribute Router Table

Showing 10 Entries Showing 0 to 0 of 0 entries

| | No. | Routing Type | OSPF Process ID |
|------------------|-----|--------------|-----------------|
| 0 results found. | | | |

[Delete](#) [First](#) [Previous](#) [Next](#) [Last](#)

| | | |
|---------------------|--------------|------------------------------|
| AS Number | AS Number | |
| Routing Type | Connected | redistribute connected route |
| | Kernel | Redistribute kernel route |
| | OSPF Route | redistribute OSPF Route |
| | RIP Route | redistribute RIP Route |
| | Static Route | redistribute Static Route |

8.4.5. Neighbor Config

This page can be used for BGP neighbor config.

Neighbor Config

| | | |
|------------------|------|--------------------------------------|
| AS Number | 1000 | |
| Neighbor Address | | (IPv4/IPv6,exp:1.1.1.1 or 2112:1111) |
| AS Number | | (Number:1-4294967295) |

[Add](#)

Neighbor Config Table

Showing 10 Entries Search

| | No. | Neighbor Address | AS Number |
|--------------------------|-----|------------------|-----------|
| <input type="checkbox"/> | 1 | 2.1.1.1 | 1000 |

[Delete](#)
[First](#)
[Previous](#)
[1](#)
[Next](#)
[Last](#)

| | |
|-------------------------|--|
| AS Number | AS Number |
| Neighbor Address | Neighbor IP address |
| AS Number | Neighbor AS number, ranging from 1 to 4294967295, it can be shown in decimal notation (such as 6553700) or delimiter method (such as 100.100). |

8.4.6. BGP Correlative Config

This page can be used for BGP correlative config.

BGP Correlative Config

| | | |
|-----------------|------|--------------------|
| AS Number | 1000 | |
| Command | | always-compare-med |
| Command Enabled | | Enabled |

[Apply](#)

| Command | Command Value |
|----------------------------------|---------------|
| always-compare-med | Disabled |
| bestpath as-path ignore | Disabled |
| bestpath compare-confed-aspath | Disabled |
| bestpath compare-routerid | Disabled |
| client-to-client reflection | Enabled |
| cluster-id | - |
| deterministic-med | Disabled |
| enforce-first-as | Disabled |
| fast-external-failover | Enabled |
| log-neighbor-changes | Disabled |
| network | Disabled |
| router-id | - |
| scan-time | 60 |
| graceful-restart | Disabled |
| graceful-restart restart-time | - |
| graceful-restart stale-path-time | - |
| selection-deferral-time | - |

| | | |
|------------------|--------------------|--|
| AS Number | AS Number | |
| Command | always-compare-med | Configures If MED comparison is always performed |

| | |
|--------------------------------|---|
| bestpath as-path ignore | Set to ignore the AS-PATH length |
| bestpath compare-confed-aspath | Set to concern the confederation AS-PATH length |
| bestpath compare-routerid | Compare route ID |
| client-to-client reflection | Configures whether the route reflection is performed |
| cluster-id | Configure the route reflection ID during the route reflection |
| deterministic-med | Use the best MED for the same prefix in the AS to compare with other AS |
| enforce-first-as | Enforces the first AS position of the route AS-PATH contain the neighbor AS number or else disconnect this peer when the BGP is reviving the external routes |
| fast-external-failover | Fast reset when the BGP neighbor connection varies at the interface other than wait for TCP timeout |
| log-neighbor-changes | Output log message when BGP neighbor changes |
| network | Set whether check the IGP accessibility of the BGP network route or not |
| router-id | Configure the router ID manually |
| scan-time | Set the time interval of the periodical next-hop validation |
| graceful-restart | Enable BGP to support GR and set restart-time and stale-path-time as the default value |
| graceful-restart restart-time | Configure BGP GR's restart-time (Receiving Speaker enables a timeout timer for a neighbor, it uses the restart-time as the timeout.) A restart-time specifies the longest waiting |

| | | |
|------------------------|-------------------------------------|---|
| | | time from Receiving Speaker finds restarting to the received OPEN messages. If Receiving Speaker does not receive OPEN messages after exceed the time, it can delete SATLE route saved by neighbor. Default is 120s. |
| | graceful-restart stale-path-time | Configure stale-path-time for BGP GR. Specify the longest waiting time that delete stale route from the received OPEN messages to the received EOR for Receiving Speaker. Default is 360s. |
| | selection-deferral-time | Configure selection-deferral-time for BGP GR. Specify the longest waiting time that start to count selection route from the received OPEN messages to the received EOR for Restarting Speaker. If Restarting Speaker does not receive EOR after exceed the time, it can count selection route. Default is 120s. |
| Command Enabled | Enable Disable | |

8.4.7. Timer Config

This page can be used for BGP Timer config.

Timer Config

| | | |
|--------------------|------|--------------------------|
| AS Number | 1000 | |
| Keepalive Interval | 60 | (0-65535s, Default:60s) |
| Holdtime | 240 | (0-65535s, Default:240s) |

[Apply](#)

| | |
|---------------------------|-------------------------------------|
| AS Number | AS Number |
| Keepalive Interval | KEEPALIVE interval, default is 60s. |
| Holdtime | Hold Time, default is 240s. |

8.4.8. View BGP Information

This page can be used for view BGP Information.

BGP Information

BGP Entries
Status ▼

BGP Neighbor
BGP Status Table

BGP table version is 532, local router ID is 192.168.20.70
 Status codes: s suppressed, d damped, h history, * valid, > best, i - internal,
 S Stale
 Origin codes: i - IGP, e - EGP, ? - Incomplete
 Network Next Hop Metric LocPrf Weight Path
 *>i35.0.0.0 2.1.1.1 100 0 i
 Total number of prefixes 1

| | | |
|--------------------|----------------------|---|
| BGP Entries | BGP Routing Messages | For displaying the routing messages permitted by BGP |
| | BGP Neighbor | Show neighbor information of specified BGP or total BGP processes |

8.5. Routing Table

This page can be view for the basic status of routing table.

Routing Table

Routing-Table Entries
Status ▼

Routing Status Table

Codes: K - kernel, C - connected, S - static, R - RIP, B - BGP
 O - OSPF, IA - OSPF inter area
 N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
 E1 - OSPF external type 1, E2 - OSPF external type 2
 i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
 * - candidate default

C 127.0.0.0/8 is directly connected, Loopback tag:0
 C 192.168.2.0/24 is directly connected, Vlan1 tag:0

Total routes are : 2 item(s)

| | |
|------------------------------|---|
| Routing-Table Entries | Status; Database; Connect Route; RIP Roue; |
|------------------------------|---|

| | |
|--|--|
| | Static Route; Statistics; OSPF Route; Kernel Route; FIB; |
|--|--|

9. Multicast Manage

9.1. IGMP Snooping Config

9.1.1. Basic Config

Switch IGMP Snooping global switch, snooping IGMP messages

Basic Config

This page is used to configure the basic parameters of the IGMP SNOOPING function

| | |
|--|---|
| Status | Disabled ▼ |
| VLAN ID ? | --Please select-- |

Apply

IGMP VLAN List

Showing 10 Entries Showing 0 to 0 of 0 entries Search

| | VLAN ID | Status |
|------------------|---------|--------|
| 0 results found. | | |

Delete
First
Previous
Next
Last

| | | |
|------------------------------------|-----------------|---|
| Switch on-off IGMP Snooping | Enable | Turn on the global switch of IGMP Snooping on the switch |
| | Disable | Turn off the global switch of IGMP Snooping on the switch |
| VLAN ID | Created VLAN ID | |

IGMP VLAN List

Showing 10 Entries Showing 1 to 1 of 1 entries Search

| | VLAN ID | Status |
|--------------------------|---------|--------|
| <input type="checkbox"/> | 1 | OPEN |

Delete
First
Previous
1
Next
Last

Display the current existing VLAN interface and the running status of IGMP Snooping under the VLAN interface

9.1.2. Static Router Port

IGMP Snooping mrouter port parameter configuration.

Static Router Port Config

This page is used to configure static routing ports and corresponding aging time

| | | |
|---|--|-----------------------|
| VLAN ID | --Please select -- | |
| Static Router Port | --Please select -- | |
| Operation Type ? | Not Set ▼ | |
| Alive Time | 255 | (1-65535,Default:255) |

Apply

VLAN Based Static Routing Port List

Showing 10 Entries Showing 1 to 1 of 1 entries Search

| VLAN ID | Static Router Port | Alive Time |
|---------|--------------------|------------|
| 1 | | 255 |

First
Previous
1
Next
Last

| | | |
|--------------------------------|--|--|
| VLAN ID | Created VLAN ID | |
| Mrouter port | Port name | |
| Mrouter port alive time | Time to live of the port, range: 1-65535 | |
| Operation type | Apply | Add the mrouter port parameter configuration checked under the selected VLAN |

VLAN Based Static Routing Port List

Showing 10 Entries Showing 1 to 1 of 1 entries Search

| VLAN ID | Static Router Port | Alive Time |
|---------|--------------------|------------|
| 1 | 1 | 255 |

First
Previous
1
Next
Last

Display current configuration information

9.1.3. VLAN Config

Configure IGMP Snooping based on VLAN interface.

VLAN Config

This page is used to configure IGMP SNOOPING VLAN related parameters

| | | |
|----------------------------|--------------------|--------------------------|
| VLAN ID | --Please select -- | |
| Immediate leave | Enabled | <input type="checkbox"/> |
| L2-general-Querier | Enabled | <input type="checkbox"/> |
| Group number | 50 | (1-65535,Default:50) |
| Source Table Number | 40 | (1-65535,Default:40) |

IGMP VLAN Configuration List

Showing 10 Entries Showing 1 to 1 of 1 entries Search

| VLAN ID | Immediate leave | L2-general-Querier | Group number | Source Table Number |
|---------|-----------------|--------------------|--------------|---------------------|
| 1 | Disable | Disable | 50 | 40 |

| | | |
|---|--|---|
| VLAN ID | Created VLAN ID | |
| Immediate leave configuration | IGMP fast leave function in VLAN | |
| L2-general-querier configuration | Used to send regular queries regularly to help switches in this network segment learn the mrouter port | |
| Group number | The upper limit of the total number of groups. When the number of joined groups reaches the limit, the newly joined groups will be rejected to prevent hostile attacks. The default is 50, and the range: 1-65535. | |
| Source table number | The maximum number of source entries in each group, including include sources and exclude sources. The default is 40, and the range: 1-65535. | |
| Operation | Configuration | Configure the checked parameters into the selected VLAN |

Note: Whether it is to configure parameters or restore the default state, it is required to check the box at the back to take effect. The group number and the number of source table entries are unified functions, so the two function parameters will take effect together (when one parameter is set, the other will be set to the default value).

IGMP VLAN Configuration List

Showing 10 Entries Showing 1 to 1 of 1 entries Search

| VLAN ID | Immediate leave | L2-general-Querier | Group number | Source Table Number |
|---------|-----------------|--------------------|--------------|---------------------|
| 1 | Disable | Disable | 50 | 40 |

Display the configuration parameters of the existing VLAN

9.1.4. Querier Config

IGMP Snooping query parameter configuration.

Querier Config

This page is used to configure query related parameters

| | | |
|------------------------|--------------------|-----------------------|
| VLAN ID | --Please select -- | |
| Query-Interval | 125 | (1-65535,Default:125) |
| Query-Mrsp-Max | 10 | (1-25,Default:10) |
| Query-Robustness | 2 | (2-10,Default:2) |
| Suppression-Query-Time | 255 | (1-65535,Default:255) |

Apply

Querier Configuration List

Showing 10 Entries Showing 1 to 1 of 1 entries Search

| VLAN ID | Query-Interval | Query-Mrsp-Max | Query-Robustness | Suppression-Query-Time |
|---------|----------------|----------------|------------------|------------------------|
| 1 | 125 | 10 | 2 | |

First Previous 1 Next Last

| | | |
|--------------------------------------|--|--|
| VLAN ID | Created VLAN ID | |
| Query-Interval | IGMP Snooping query interval, range: 1-65535 | |
| Query-mrsp configuration | Maximum response time for group query | |
| Query-robustness configuration | IGMP Snooping robustness, range: 2-10 | |
| Suppression-query-time configuration | Prohibited query time, range: 1-65535 | |
| Operation type | Apply | Add the mrouter port parameter configuration checked under the selected VLAN |

Querier Configuration List

Showing 10 Entries Showing 1 to 1 of 1 entries Search

| VLAN ID | Query-Interval | Query-Mrsp-Max | Query-Robustness | Suppression-Query-Time |
|---------|----------------|----------------|------------------|------------------------|
| 1 | 125 | 10 | 2 | |

First Previous 1 Next Last

Display current configuration information

9.1.5. Multicast Table

The page displayed multicast table information.

Multicast Table

This page is used to view the multicast table

VLAN ID: VLAN0001

Apply

Multicast table

Showing 10 Entries Showing 0 to 0 of 0 entries Search

| Number | Group IP | Member Port | Exptime | Source MAC | Version |
|------------------|----------|-------------|---------|------------|---------|
| 0 results found. | | | | | |

First Previous Next Last

9.2. MLD Snooping Config

9.2.1. Basic Config

Switch MLD Snooping global switch, MLD snooping messages

Basic Config

This page is used to configure the basic parameters of the MLD SNOOPING function

| | | |
|---------|--------|-------------------|
| | Status | Disabled |
| VLAN ID | | --Please select-- |

[Apply](#)

MLD VLAN List

Showing 10 Entries Showing 0 to 0 of 0 entries Search

| | VLAN ID | Status |
|--------------------------|---------|--------|
| <input type="checkbox"/> | | |

0 results found.

[Delete](#)
[First](#)
[Previous](#)
[Next](#)
[Last](#)

| | | |
|------------------------------------|-----------------|---|
| Switch on-off IGMP Snooping | Enable | Turn on the global switch of IGMP Snooping on the switch |
| | Disable | Turn off the global switch of IGMP Snooping on the switch |
| VLAN ID | Created VLAN ID | |

MLD VLAN List

Showing 10 Entries Showing 1 to 1 of 1 entries Search

| | VLAN ID | Status |
|--------------------------|---------|--------|
| <input type="checkbox"/> | 1 | OPEN |

[Delete](#)
[First](#)
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[1](#)
[Next](#)
[Last](#)

Display the current existing VLAN interface and the running status of IGMP Snooping under the VLAN interface

9.2.2. Static Router Port

MLD Snooping mrouter port parameter configuration.

Static Router Port Config

This page is used to configure static routing ports and corresponding aging time

| | | |
|--------------------|--------------------|-----------------------|
| VLAN ID | --Please select -- | |
| Static Router Port | --Please select -- | |
| Operation Type | Not Set | |
| Alive Time | 255 | (1-65535,Default:255) |

[Apply](#)

VLAN Based Static Routing Port List

Showing 10 Entries Showing 1 to 1 of 1 entries Search

| VLAN ID | Static Router Port | Alive Time |
|---------|--------------------|------------|
| 1 | | 255 |

[First](#) [Previous](#) [1](#) [Next](#) [Last](#)

| | | |
|-------------------------|--|--|
| VLAN ID | Created VLAN ID | |
| Mrouter port | Port name | |
| Mrouter port alive time | Time to live of the port, range: 1-65535 | |
| Operation type | Apply | Add the mrouter port parameter configuration checked under the selected VLAN |

VLAN Based Static Routing Port List

Showing 10 Entries Showing 1 to 1 of 1 entries Search

| VLAN ID | Static Router Port | Alive Time |
|---------|--------------------|------------|
| 1 | 1 | 255 |

[First](#) [Previous](#) [1](#) [Next](#) [Last](#)

Display current configuration information

9.2.3. VLAN Config

Configure MLD Snooping based on VLAN interface.

VLAN Config

This page is used to configure MLD SNOOPING VLAN related parameters

| | | |
|---------------------|--------------------|----------------------|
| VLAN ID | --Please select -- | |
| Immediate leave | Enabled | |
| L2-general-Querier | Enabled | |
| Group number | 50 | (1-65535,Default:50) |
| Source Table Number | 40 | (1-65535,Default:40) |

[Apply](#)

MLD VLAN Configuration List

Showing 10 Entries Showing 1 to 1 of 1 entries Search

| VLAN ID | Immediate leave | L2-general-Querier | Group number | Source Table Number |
|---------|-----------------|--------------------|--------------|---------------------|
| 1 | Disable | Disable | 50 | 40 |

[First](#) [Previous](#) [1](#) [Next](#) [Last](#)

| | |
|-------------------------------|---------------------------------|
| VLAN ID | Created VLAN ID |
| Immediate leave configuration | MLD fast leave function in VLAN |

| | | |
|---|--|---|
| L2-general-querier configuration | Used to send regular queries regularly to help switches in this network segment learn the mrouter port | |
| Group number | The upper limit of the total number of groups. When the number of joined groups reaches the limit, the newly joined groups will be rejected to prevent hostile attacks. The default is 50, and the range: 1-65535. | |
| Source table number | The maximum number of source entries in each group, including include sources and exclude sources. The default is 40, and the range: 1-65535. | |
| Operation | Configuration | Configure the checked parameters into the selected VLAN |

Note: Whether it is to configure parameters or restore the default state, it is required to check the box at the back to take effect. The group number and the number of source table entries are unified functions, so the two function parameters will take effect together (when one parameter is set, the other will be set to the default value).

MLD VLAN Configuration List

Showing 10 Entries Showing 1 to 1 of 1 entries Search

| VLAN ID | Immediate leave | L2-general-Querier | Group number | Source Table Number |
|---------|-----------------|--------------------|--------------|---------------------|
| 1 | Disable | Disable | 50 | 40 |

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Display the configuration parameters of the existing VLAN

9.2.4. Querier Config

MLD Snooping query parameter configuration.

Querier Config

This page is used to configure query related parameters

| | | |
|---|-------------------|-----------------------|
| VLAN ID | --Please select-- | |
| Query-Interval | 125 | (1-65535,Default:125) |
| Query-Mrsp-Max | 10 | (1-25,Default:10) |
| Query-Robustness | 2 | (2-10,Default:2) |
| Suppression-Query-Time ? | 255 | (1-65535,Default:255) |

[Apply](#)

Querier Configuration List

Showing 10 Entries Showing 1 to 1 of 1 entries Search

| VLAN ID | Query-Interval | Query-Mrsp-Max | Query-Robustness | Suppression-Query-Time ? |
|---------|----------------|----------------|------------------|---|
| 1 | 125 | 10 | 2 | |

[First](#) [Previous](#) [1](#) [Next](#) [Last](#)

| | |
|-----------------------|---|
| VLAN ID | Created VLAN ID |
| Query-Interval | MLD Snooping query interval, range: 1-65535 |

| | | |
|--------------------------------------|---------------------------------------|--|
| Query-mrsp configuration | Maximum response time for group query | |
| Query-robustness configuration | MLD Snooping robustness, range: 2-10 | |
| Suppression-query-time configuration | Prohibited query time, range: 1-65535 | |
| Operation type | Apply | Add the mrouter port parameter configuration checked under the selected VLAN |

Querier Configuration List

| VLAN ID | Query-Interval | Query-Mrsp-Max | Query-Robustness | Suppression-Query-Time |
|---------|----------------|----------------|------------------|------------------------|
| 1 | 125 | 10 | 2 | |

[First](#)
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[Next](#)
[Last](#)

Display current configuration information

9.2.5. Multicast Table

The page displayed multicast table information.

Multicast Table

This page is used to view the multicast table

VLAN ID:

Multicast table

| Number | Group IP | Member Port | Exptime | Version |
|------------------|----------|-------------|---------|---------|
| 0 results found. | | | | |

[First](#)
[Previous](#)
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[Last](#)

10. QoS Config

10.1. Port Config

10.1.1. Trust Config

Configure port trust rules

Trust Config

This page is used to set port trust configuration

| | |
|----------------|---|
| Port | <input type="text" value="--Please select --"/> |
| Trust Class | <input type="text" value="COS"/> |
| Operation Type | <input type="text" value="Add"/> |

| Port | Trust Class |
|---------------|-------------|
| Ethernet1/0/1 | COS |
| Ethernet1/0/2 | COS |
| Ethernet1/0/3 | COS |
| Ethernet1/0/4 | COS |
| Ethernet1/0/5 | COS |
| Ethernet1/0/6 | COS |
| Ethernet1/0/7 | COS |
| Ethernet1/0/8 | COS |

| | | |
|--------------------|---|--|
| Port | To configure the port name, click to expand the remaining ports | |
| Trust class | COS | Cos to int mapping based on intp field |
| | DSCP | Intp field based on dscp to intp mapping |
| Operation | add | Add a trust rule for the port |
| | Delete | Remove a trust rule for the port |

10.1.2. Weight Config

Configure the port to process the priority of packets according to different queue scheduling algorithms

Weight Config

This page is used to set the port scheduling mode and queue weights

| | |
|-----------------|---|
| Scheduling Type | <input type="text" value="sp"/> |
| Port | <input type="text" value="--Please select --"/> |
| Weight1 | <input type="text" value="1"/> weight(0-127) |
| Weight2 | <input type="text" value="2"/> weight(0-127) |
| Weight3 | <input type="text" value="3"/> weight(0-127) |
| Weight4 | <input type="text" value="4"/> weight(0-127) |
| Weight5 | <input type="text" value="5"/> weight(0-127) |
| Weight6 | <input type="text" value="6"/> weight(0-127) |
| Weight7 | <input type="text" value="7"/> weight(0-127) |
| Weight8 | <input type="text" value="8"/> weight(0-127) |

| | | |
|---------------------------------|---|---|
| Port | To configure the port name, click to expand the remaining ports | |
| Queue schedule algorithm | sp | Strict queuing priority, packet transmission in order of priority. |
| | wrr | Weighted round-robin scheduling. Rotate scheduling between queues to ensure that each queue gets a certain amount of service time |

| | | |
|--|------|--|
| | wdrr | Weighted difference round-robin scheduling, based on message length transmission, based on the combined effect of weight and K value to generate the length of transmission in the message queue |
|--|------|--|

Configure the weight value of the eight queues of each port, and allocate the number of packets according to the weight value

Weight Config

This page is used to set the port scheduling mode and queue weights

| | | |
|-----------------|--------------------|---------------|
| Scheduling Type | wrr | |
| Port | --Please select -- | |
| Weight1 | 1 | weight(0-127) |
| Weight2 | 2 | weight(0-127) |
| Weight3 | 3 | weight(0-127) |
| Weight4 | 4 | weight(0-127) |
| Weight5 | 5 | weight(0-127) |
| Weight6 | 6 | weight(0-127) |
| Weight7 | 7 | weight(0-127) |
| Weight8 | 8 | weight(0-127) |

Apply

| | | |
|------------------|---|---|
| Port | To configure the port name, click to expand the remaining ports | |
| Weight1 | The weight value of queue 1, the range is 0-127 | |
| Weight2 | The weight value of queue 2, the range is 0-127 | |
| Weight3 | The weight value of queue 3, the range is 0-127 | |
| Weight4 | The weight value of queue 4, the range is 0-127 | |
| Weight5 | The weight value of queue 5, the range is 0-127 | |
| Weight6 | The weight value of queue 6, the range is 0-127 | |
| Weight7 | The weight value of queue 7, the range is 0-127 | |
| Weight8 | The weight value of queue 8, the range is 0-127 | |
| Operation | Apply | Add the weight of each queue to the port, and fill in all the weights of each queue before adding |

| Port | Queue Weight |
|----------------|-----------------|
| Ethernet1/0/1 | 1 2 3 4 5 6 7 8 |
| Ethernet1/0/2 | 1 2 3 4 5 6 7 8 |
| Ethernet1/0/3 | 1 2 3 4 5 6 7 8 |
| Ethernet1/0/4 | 1 2 3 4 5 6 7 8 |
| Ethernet1/0/5 | 1 2 3 4 5 6 7 8 |
| Ethernet1/0/6 | 1 2 3 4 5 6 7 8 |
| Ethernet1/0/7 | 1 2 3 4 5 6 7 8 |
| Ethernet1/0/8 | 1 2 3 4 5 6 7 8 |
| Ethernet1/0/9 | 1 2 3 4 5 6 7 8 |
| Ethernet1/0/10 | 1 2 3 4 5 6 7 8 |

Information feedback window

Configure the weight value of the eight queues of each port, transmit based on the length of the message, and generate the transmission length in the message queue based on the combined action of the weight and the K value

Weight Config

This page is used to set the port scheduling mode and queue weights

| | | |
|-----------------|---------------------------------------|---------------|
| Scheduling Type | wdrr <input type="button" value="v"/> | |
| Port | --Please select -- | |
| Weight1 | 1 | weight(0-127) |
| Weight2 | 2 | weight(0-127) |
| Weight3 | 4 | weight(0-127) |
| Weight4 | 8 | weight(0-127) |
| Weight5 | 16 | weight(0-127) |
| Weight6 | 32 | weight(0-127) |
| Weight7 | 64 | weight(0-127) |
| Weight8 | 64 | weight(0-127) |

| | | |
|------------------|---|---|
| Port | To configure the port name, click to expand the remaining ports | |
| Weight1 | The weight value of queue 1, the range is 0-32767 | |
| Weight2 | The weight value of queue 2, the range is 0-32767 | |
| Weight3 | The weight value of queue 4, the range is 0-32767 | |
| Weight4 | The weight value of queue 8, the range is 0-32767 | |
| Weight5 | The weight value of queue 16, the range is 0-32767 | |
| Weight6 | The weight value of queue 32, the range is 0-32767 | |
| Weight7 | The weight value of queue 64, the range is 0-32767 | |
| Weight8 | The weight value of queue 64, the range is 0-32767 | |
| Operation | Apply | Add the weight of each queue to the port, and fill in all the weights of each queue before adding |

| Port | Queue Weight |
|----------------|---------------------|
| Ethernet1/0/1 | 1 2 4 8 16 32 64 64 |
| Ethernet1/0/2 | 1 2 4 8 16 32 64 64 |
| Ethernet1/0/3 | 1 2 4 8 16 32 64 64 |
| Ethernet1/0/4 | 1 2 4 8 16 32 64 64 |
| Ethernet1/0/5 | 1 2 4 8 16 32 64 64 |
| Ethernet1/0/6 | 1 2 4 8 16 32 64 64 |
| Ethernet1/0/7 | 1 2 4 8 16 32 64 64 |
| Ethernet1/0/8 | 1 2 4 8 16 32 64 64 |
| Ethernet1/0/9 | 1 2 4 8 16 32 64 64 |
| Ethernet1/0/10 | 1 2 4 8 16 32 64 64 |

Information feedback window

10.1.3. CoS-To-IntP Config

Configure the value mapped from the CoS value to the internal priority (queue).

CoS-To-IntP Map

This page is used to set the mapping relationship between CoS and internal priority

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| CoS | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| IntP ? | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |

Apply

| | | |
|-----------------------|--|------------------------------------|
| CoS value | The CoS value carried in the message or the default CoS value assigned when entering | |
| IntP value | The value of the internal priority (queue) to which the CoS value will be mapped | |
| Operation type | Configuration | Configure the value of CoS to IntP |

Display the execution process and the current mapping relationship

10.1.4. DSCP-To-IntP Config

Configure the value mapped from the DSCP value to the IntP value.

DSCP-To-IntP Map

This page is used to set the mapping relationship between DSCP and internal priority

| | |
|--|--------------------|
| DSCP | --Please select -- |
| IntP ? | 0 |

Apply

| | | |
|--|--|------------------------------|
| DSCP value1-DSCP value8(optional) | Up to eight DSCP values can be configured to the new IntP value, among which DSCP value1 is required, DSCP value2-8 is optional, range: 0-63 | |
| IntP value | New IntP value, range: 0-7 | |
| Operation type | Apply | Configure DSCP to IntP value |

| DSCP | Internal Priority | DSCP | Internal Priority | DSCP | Internal Priority | DSCP | Internal Priority |
|------|-------------------|------|-------------------|------|-------------------|------|-------------------|
| 0 | 0 | 16 | 2 | 32 | 4 | 48 | 6 |
| 1 | 0 | 17 | 2 | 33 | 4 | 49 | 6 |
| 2 | 0 | 18 | 2 | 34 | 4 | 50 | 6 |
| 3 | 0 | 19 | 2 | 35 | 4 | 51 | 6 |
| 4 | 0 | 20 | 2 | 36 | 4 | 52 | 6 |
| 5 | 0 | 21 | 2 | 37 | 4 | 53 | 6 |
| 6 | 0 | 22 | 2 | 38 | 4 | 54 | 6 |
| 7 | 0 | 23 | 2 | 39 | 4 | 55 | 6 |
| 8 | 1 | 24 | 3 | 40 | 5 | 56 | 7 |
| 9 | 1 | 25 | 3 | 41 | 5 | 57 | 7 |
| 10 | 1 | 26 | 3 | 42 | 5 | 58 | 7 |
| 11 | 1 | 27 | 3 | 43 | 5 | 59 | 7 |
| 12 | 1 | 28 | 3 | 44 | 5 | 60 | 7 |
| 13 | 1 | 29 | 3 | 45 | 5 | 61 | 7 |
| 14 | 1 | 30 | 3 | 46 | 5 | 62 | 7 |
| 15 | 1 | 31 | 3 | 47 | 5 | 63 | 7 |

Shows the execution process and the current mapping relationship. The vertical d1 represents the tens digit of DSCP, and the horizontal d2 represents the single digit of DSCP. The value of the intersection of the two is the mapping value.

10.1.5. Policy Config

Configure the port's policy table, and the port will process packets according to the rules of the classification table in the policy table.

Policy Config

This page is used to set policy configuration on the port.

| | |
|------------------------|---|
| Port | <input type="text" value="--Please select --"/> |
| Policy-Map Name | <input type="text" value=""/> |
| Operation Type | <input type="text" value="Add"/> |

| Port | Policy-Map Name |
|---------------|-----------------|
| Ethernet1/0/1 | none |
| Ethernet1/0/2 | none |
| Ethernet1/0/3 | none |
| Ethernet1/0/4 | none |
| Ethernet1/0/5 | none |
| Ethernet1/0/6 | none |
| Ethernet1/0/7 | none |
| Ethernet1/0/8 | none |

| | | |
|------------------------|---|-------------------------|
| Port | To configure the port name, click to expand the remaining ports | |
| Policy map name | The name of the policy table, added by the policy table configuration | |
| Operation | Add | policy for adding ports |
| | Delete | Delete port policy |

10.2. Class-Map Config

10.2.1. Class-Map Config

Create and delete classification tables, view the currently configured classification tables

Class-Map Config

This page is used to set class map entries

Class-Map Name Length(1-64)

Apply

Class-Map List

Showing 10 Entries Showing 0 to 0 of 0 entries Search

| | Entries | Class-Map Name |
|------------------|---------|----------------|
| 0 results found. | | |

Delete
First
Previous
Next
Last

| | | |
|-----------------------|--------------------------------------|------------------|
| Class-map name | Class-map name, range:1-64 character | |
| Operation | Add | Add Class-map |
| | Delete | Remove Class-map |

Class-Map List

Showing 10 Entries Showing 1 to 1 of 1 entries Search

| | Entries | Class-Map Name |
|--------------------------|---------|----------------|
| <input type="checkbox"/> | 1 | 1 |

Delete
First
Previous
1
Next
Last

Display the currently created class-map name

10.2.2. Class-Map Rule Config

Set the rules and corresponding parameters for classification matching

Class-Map Rule Config

This page is used to set the matching rules for class map

Class-Map Name 1 ▼

Match Rule Access Group ▼

ACL list name Length(1-64)

Operation Type Add ▼

Apply

| | | |
|-------------------------------------|---------------|--|
| Classification criteria rule | accesss-group | Match the specified IP ACL, MAC ACL or IPv6 standard ACL or MAC-IP ACL |
|-------------------------------------|---------------|--|

| | | |
|-----------------------|--|-----------------------|
| Class-map name | The name of the created class-matching table, select by clicking the drop-down | |
| ACL list name | Created ACL name, 1-64 characters | |
| Operation | Add | Add matching rules |
| | Del | Remove matching rules |

Class-Map Rule Config

This page is used to set the matching rules for class map

| | | |
|----------------|----------------------|--------------|
| Class-Map Name | 1 | ▼ |
| Match Rule | IP DSCP | ▼ |
| IP DSCP 0 | <input type="text"/> | Length(0-63) |
| IP DSCP 1 | <input type="text"/> | Length(0-63) |
| IP DSCP 2 | <input type="text"/> | Length(0-63) |
| IP DSCP 3 | <input type="text"/> | Length(0-63) |
| IP DSCP 4 | <input type="text"/> | Length(0-63) |
| IP DSCP 5 | <input type="text"/> | Length(0-63) |
| IP DSCP 6 | <input type="text"/> | Length(0-63) |
| IP DSCP 7 | <input type="text"/> | Length(0-63) |
| Operation Type | Add | ▼ |

| | | |
|-------------------------------------|--|---|
| Classification criteria rule | ip dscp | Match the specified DSCP value, this parameter is the DSCP list |
| Class-map name | The name of the created class-matching table, select by clicking the drop-down | |
| IP dscp0-7 | One or more DSCP values can be set, up to 8 DSCP values can be set, the range is 0~63; | |
| Operation | Add | Add matching rules |
| | Del | Remove matching rules |

Class-Map Rule Config

This page is used to set the matching rules for class map

| | | |
|----------------|----------------------|-------------|
| Class-Map Name | 1 | ▼ |
| Match Rule | IP Precedence | ▼ |
| IP Precedence0 | <input type="text"/> | Length(0-7) |
| IP Precedence1 | <input type="text"/> | Length(0-7) |
| IP Precedence2 | <input type="text"/> | Length(0-7) |
| IP Precedence3 | <input type="text"/> | Length(0-7) |
| IP Precedence4 | <input type="text"/> | Length(0-7) |
| IP Precedence5 | <input type="text"/> | Length(0-7) |
| IP Precedence6 | <input type="text"/> | Length(0-7) |
| IP Precedence7 | <input type="text"/> | Length(0-7) |
| Operation Type | Add | ▼ |

| | | |
|-------------------------------------|---|---|
| Classification criteria rule | ip precedence | Match the specified ip priority, this parameter is the IP priority list |
| Class-map name | The name of the created class-matching table, select by | |

| | | |
|------------------|--|-----------------------|
| | clicking the drop-down | |
| IP precedence0-7 | One or more ip priority values can be set, the list contains up to 8 IP priority values, and the valid range is 0~7; | |
| Operation | Add | Add matching rules |
| | Del | Remove matching rules |

Class-Map Rule Config

This page is used to set the matching rules for class map

| | | |
|----------------|----------------------|----------------|
| Class-Map Name | 1 | |
| Match Rule | VLAN | |
| VLAN 0 | <input type="text"/> | Length(1-4094) |
| VLAN 1 | <input type="text"/> | Length(1-4094) |
| VLAN 2 | <input type="text"/> | Length(1-4094) |
| VLAN 3 | <input type="text"/> | Length(1-4094) |
| VLAN 4 | <input type="text"/> | Length(1-4094) |
| VLAN 5 | <input type="text"/> | Length(1-4094) |
| VLAN 6 | <input type="text"/> | Length(1-4094) |
| VLAN 7 | <input type="text"/> | Length(1-4094) |
| Operation Type | Add | |

| | | |
|------------------------------|---|---|
| Classification criteria rule | vlan | Match the specified vlan, this parameter is a list of vlan id |
| Class-map name | The name of the created class-matching table, select by clicking the drop-down | |
| Vlan0-7 | One or more VLAN IDs can be set, including 8 VLAN IDs at most, ranging from 1 to 4094 | |
| Operation | Add | Add matching rules |
| | Del | Remove matching rules |

Class-Map Rule Config

This page is used to set the matching rules for class map

| | | |
|----------------|----------------------|-------------|
| Class-Map Name | 1 | |
| Match Rule | COS | |
| COS 0 | <input type="text"/> | Length(0-7) |
| COS 1 | <input type="text"/> | Length(0-7) |
| COS 2 | <input type="text"/> | Length(0-7) |
| COS 3 | <input type="text"/> | Length(0-7) |
| COS 4 | <input type="text"/> | Length(0-7) |
| COS 5 | <input type="text"/> | Length(0-7) |
| COS 6 | <input type="text"/> | Length(0-7) |
| COS 7 | <input type="text"/> | Length(0-7) |
| Operation Type | Add | |

| | | |
|------------------------------|--|--|
| Classification criteria rule | cos | Match the specified CoS value, this parameter is a list of vlan id |
| Class-map name | The name of the created class-matching table, select by clicking the drop-down | |

| | | |
|------------------|---|-----------------------|
| Cos 0-7 | One or more cos values can be set, the parameter is a CoS list composed of up to 8 CoS, the range is 0~7; | |
| Operation | Add | Add matching rules |
| | Del | Remove matching rules |

Class-Map Rule Config

This page is used to set the matching rules for class map

| | | |
|----------------|----------------------|--------------|
| Class-Map Name | 1 | |
| Match Rule | IPv6 DSCP | |
| IPv6 DSCP 0 | <input type="text"/> | Length(0-63) |
| IPv6 DSCP 1 | <input type="text"/> | Length(0-63) |
| IPv6 DSCP 2 | <input type="text"/> | Length(0-63) |
| IPv6 DSCP 3 | <input type="text"/> | Length(0-63) |
| IPv6 DSCP 4 | <input type="text"/> | Length(0-63) |
| IPv6 DSCP 5 | <input type="text"/> | Length(0-63) |
| IPv6 DSCP 6 | <input type="text"/> | Length(0-63) |
| IPv6 DSCP 7 | <input type="text"/> | Length(0-63) |
| Operation Type | Add | |

Apply

| | | |
|-------------------------------------|---|---|
| Classification criteria rule | ipv6 dscp | Match the specified ipv6 DSCP value, this parameter is the ipv6 DSCP list |
| Class-map name | The name of the created class-matching table, select by clicking the drop-down | |
| IPv6 dscp0-7 | One or more ipv6 DSCP values can be set, up to 8 DSCP values can be set, the range is 0~63; | |
| Operation | Add | Add matching rules |
| | Del | Remove matching rules |

Class-Map Rule Config

This page is used to set the matching rules for class map

| | | |
|------------------|----------------------|-------------------|
| Class-Map Name | 1 | |
| Match Rule | IPv6 Flowlabel | |
| IPv6 Flowlabel 0 | <input type="text"/> | Length(0-1048575) |
| IPv6 Flowlabel 1 | <input type="text"/> | Length(0-1048575) |
| IPv6 Flowlabel 2 | <input type="text"/> | Length(0-1048575) |
| IPv6 Flowlabel 3 | <input type="text"/> | Length(0-1048575) |
| IPv6 Flowlabel 4 | <input type="text"/> | Length(0-1048575) |
| IPv6 Flowlabel 5 | <input type="text"/> | Length(0-1048575) |
| IPv6 Flowlabel 6 | <input type="text"/> | Length(0-1048575) |
| IPv6 Flowlabel 7 | <input type="text"/> | Length(0-1048575) |
| Operation Type | Add | |

Apply

| | | |
|-------------------------------------|--|---|
| Classification criteria rule | ipv6 flowlabel | Match the specified IPv6 flow label, this parameter is the value of the IPv6 flow label DSCP list |
| Class-map name | The name of the created class-matching table, select by clicking the drop-down | |
| IPv6 | One or more IPv6 flowlabel values can be set, ranging from | |

| | | |
|---------------|---------------|-----------------------|
| flowlabel10-7 | 0 to 1048575; | |
| Operation | Add | Add matching rules |
| | Remove | Remove matching rules |

Class-Map matching rule table

Showing 10 Entries Showing 1 to 1 of 1 entries Search

| Class-Map Name | ACL list name | VLAN | COS | IP DSCP | IP Precedence | IPv6 DSCP | IPv6 Flowlabel |
|----------------|---------------|------|------|---------|---------------|-----------|----------------|
| 1 | none | none | none | none | none | none | none |

First Previous 1 Next Last

10.3. Policy-Map Config

10.3.1. Policy Name Config

Create and delete policy tables, and collaborate with classification tables to create packet in and out rules

Policy Name Config

This page is used to set policy map entries

Policy-Map Name Length(1-64)

| | | |
|-----------------|---------------------------------------|-------------------|
| Policy-map name | Policy-map name, range:1-64 character | |
| Operation | Apply | Add policy-map |
| | Delete | Remove policy-map |

Policy-Map List

Showing 10 Entries Showing 1 to 1 of 1 entries Search

| <input type="checkbox"/> | Entries | Policy-Map Name |
|--------------------------|---------|-----------------|
| <input type="checkbox"/> | 1 | 1 |

 First Previous 1 Next Last

Display the currently created policy-map.

10.3.2. Policy Class Config

Apply the class-map to the policy-map.

Policy Class Config

This page is used to set policy classification rules

| | |
|------------------------------------|---|
| Policy-Map Name | 1 |
| Class-Map Name | 1 |
| Inserted Before The Class-Map Name | 1 |

[Apply](#)

| | | |
|---|---|--|
| policy-map name | The name of the created policy-map | |
| class-map name | The name of the classification table created by the classification matching table, this table will be applied to the policy -map | |
| Inserted before the class-map name | Prior to the insertion of the classification matching table, the name of the classification table that has been applied to the strategy table, and the priority of the newly applied classification matching table is increased | |
| Operation | Add | Add an association between the strategy table and the classification table |

Policy-Map-Class List

Showing 10 Entries Showing 1 to 1 of 1 entries Search

| | Policy-Map Name | Class-Map Name |
|--------------------------|-----------------|----------------|
| <input type="checkbox"/> | 1 | 1 |

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Display the association between the created policy table and the classification matching table

10.3.3. Policy Mark Config

Configure the priority of packets in the policy mapping configuration mode. Assign a new DSCP and IP priority to the classified traffic. Only the classified traffic that meets the matching criteria will be assigned a new value.

Policy Mark Config

This page is used to set policy tags

| | |
|-----------------|----------------------------------|
| Policy-Map Name | 1 |
| Class-Map Name | 1 |
| Mark Type | COS |
| COS | <input type="text"/> Length(0-7) |
| Operation Type | Add |

[Apply](#)

| | | |
|-------------------------------------|---------------|---|
| Classification criteria rule | ip dscp | Set the DSCP value again according to the rules defined in the policy-map and class-map |
| | ip precedence | Set the IP priority again |

| | | |
|--------------------------|--------------------------------------|--|
| | | according to the rules defined in the policy-map and class-map |
| | drop-precedence | Set the discarding priority again according to the rules defined in the policy-map and class-map |
| | internal-priority | Set the internal priority again according to the rules defined by the policy-map and class-map |
| | cos | Set the COS value again according to the rules defined by the policy table and the classification matching table |
| Policy-map name | The name of the created policy table | |
| Class-map name | Created classification match table | |
| DSCP | DSCP value, range: 0-63 | |
| Precedence | IP priority, range:0-7 | |
| Drop-precedence | drop priority, range: 0-2 | |
| Internal-priority | internal priority, range: 0-7 | |
| COS | COS value, range: 0-7 | |
| Operation | Add | Add the priority and queue value associated with the strategy table and the classification matching table |
| | Delete | Remove the priority and queue value associated with the strategy table and the classification matching table |

Policy Mark List

Showing 10 Entries Showing 1 to 1 of 1 entries Search

| Policy-Map Name | Class-Map Name | COS | IP DSCP | IP Precedence | Internal Priority | Drop Precedence |
|-----------------|----------------|-----|---------|---------------|-------------------|-----------------|
| 1 | 1 | 0 | none | none | none | none |

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10.3.4. Policy Bandwidth

Configure the new aggregation strategy and the information rate and burst id of the aggregation strategy.

Policy Bandwidth

This page is used to set policy bandwidth configuration

| | | |
|-----------|------|----------------|
| Burst ID1 | 1024 | Length(1-8192) |
| Burst ID2 | 1024 | Length(1-8192) |

[Apply](#)

| | | |
|-----------------|-----|--------------------|
| Policy-Map Name | 1 | |
| Class-Map Name | 1 | |
| Burst ID | 1 | |
| Bandwidth Rate | | Length(1-10000000) |
| Operation Type | Add | |

[Apply](#)

| | | |
|--------------------------------------|--|--------------------------|
| Aggregate policer name | New aggregate policer name, range: 1-64 character. | |
| Committed Information Rate | Information Rate, range: 1-10000000kbit/s | |
| Policy burst id configuration | Burst id configuration, range: 1-2 | |
| Operation | Add | Add aggregate policer |
| | Remove | Remove aggregate policer |

Policy Bandwidth List

Showing 10 Entries Showing 0 to 0 of 0 entries

| Policy-Map Name | Class-Map Name | Burst ID(Kbps) | Bandwidth Rate |
|------------------|----------------|----------------|----------------|
| 0 results found. | | | |

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10.3.5. Policy VLAN

Configure VLAN Association Policy.

Policy VLAN

This page is used to set policy configurations on VLANs

| | | |
|-----------------|-----|-------------------|
| Policy-Map Name | 1 | |
| Vlan List ? | | (1-100)characters |
| Operation Type | Add | |

[Apply](#)

| | | |
|------------------------|--|--------------------------|
| Policy-map name | The name of the created strategy, select by clicking the drop-down | |
| VLAN List | VLAN ID, range: 1-4094 | |
| Operation | Add | Add VLAN-based policy |
| | Remove | Remove VLAN-based policy |

VLAN Policy List

Showing 10 Entries

Showing 0 to 0 of 0 entries

Search

| VLAN ID | Policy-Map Name |
|------------------|-----------------|
| 0 results found. | |

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