HR-AFM-2422GS

Managed PoE Switch

WEB MANUAL

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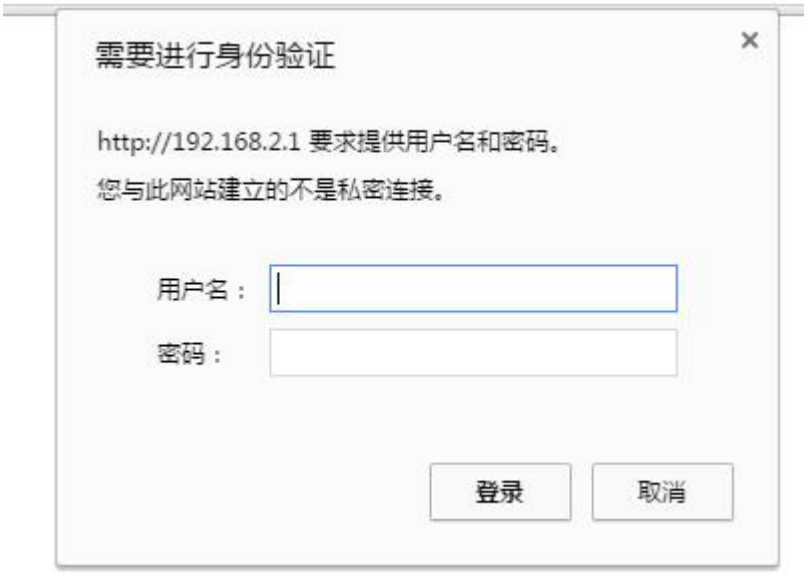
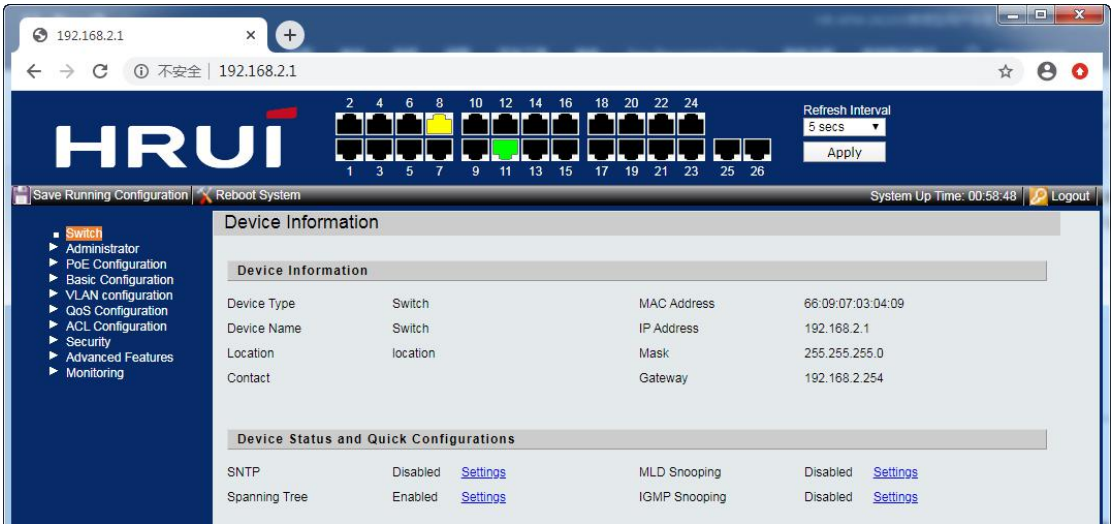
1 Login Web Interface

1.1 Login Network Management Client

Users can access the switch through the Web browser, and input the default address of system：http://192.168.2.1，press enter button.
As shown below, input the user name: admin and password: admin. Click (Log in) button, you'll see the switch system information.



Login Interface

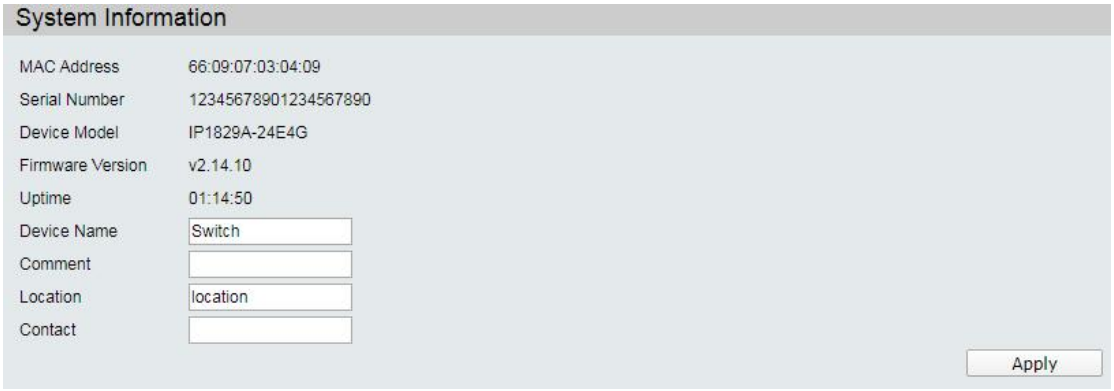


2 Administrator

2.1 System Information

Users can set the name of the switch, location, contacts.
Operating Steps:

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

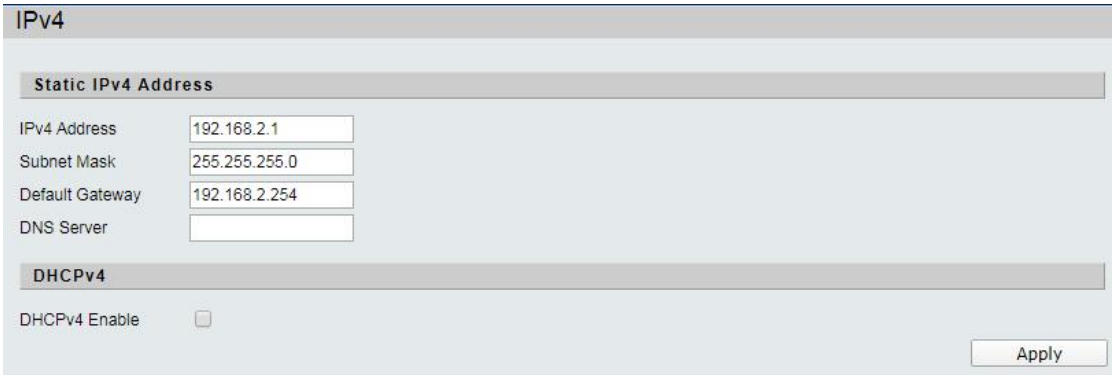


2.2 Account/Password

User can set user's name and password.
Operating Steps:
1.Click the "Administrator > Account/Password" menu in the navigation bar, enter "Account/Password" interface. As shown in the below figure:

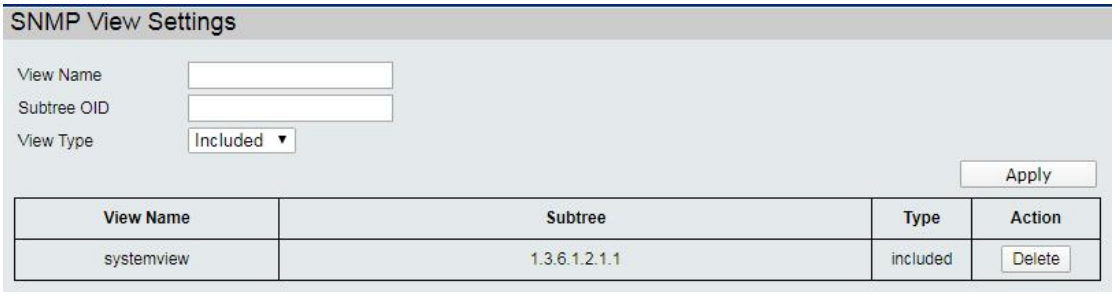
2.3 IP Configuration

Users can modify the switch management IPV4 and IPV6 address.
Operating Steps:
1.Click the "Administrator > IP Configuration > IPv4" menu in the navigation bar, enter "IPv4" interface. As shown in the below figure:



2.4 SNMP Settings

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



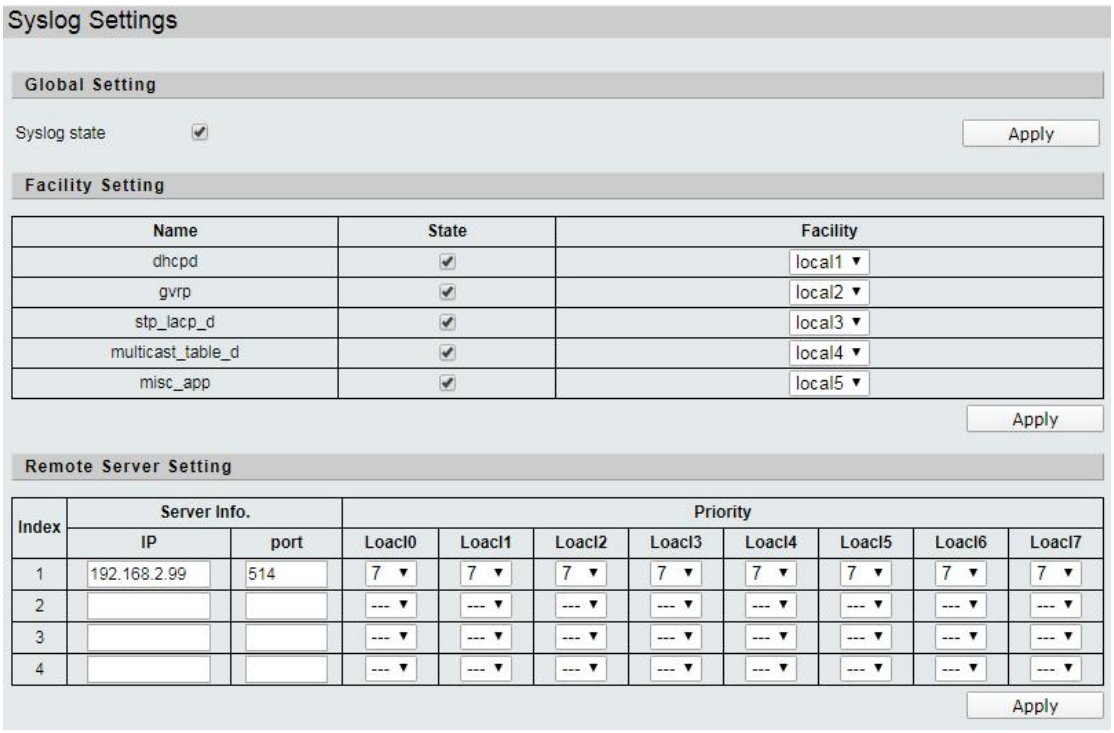
2.5 NTP Settings

Users can set NTP time, proofreading the switch time.
Operating Steps:
1.Click the " Administrator > NTP Settings" menu in the navigation bar, as shown in the below figure:

2.6 syslog Settings

Users can set the syslog, to know the switch running.
Operating Steps:
1.Click the " Administrator > Syslog Settings" menu in the navigation bar, as shown in the below

figure:



2.7 Configuration

Users can do backup and import the configuration file of the switch.
Operating Steps:
1.Click the " Administrator > Configuration > Backup " menu in the navigation bar, as shown in the below figure:

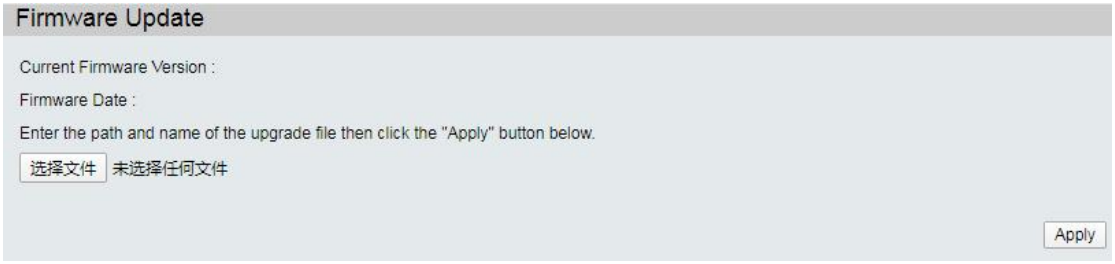
2.Click the " Administrator > Configuration > Restore " menu in the navigation bar, as shown in the below figure:

2.8 Load Factory Default

Users can restore the factory settings
Operating Steps:
1.Click the "Administrator > Load Factory Default" menu in the navigation bar, enter “Load Factory Default” interface. As shown in the below figure:

2.9 Firmware Update

Users can upgrade the firmware of the switch
Operating Steps:
1.Click the "Administrator> Firmware Update" menu in the navigation bar, enter “Firmware Update” interface. As shown in the below figure:



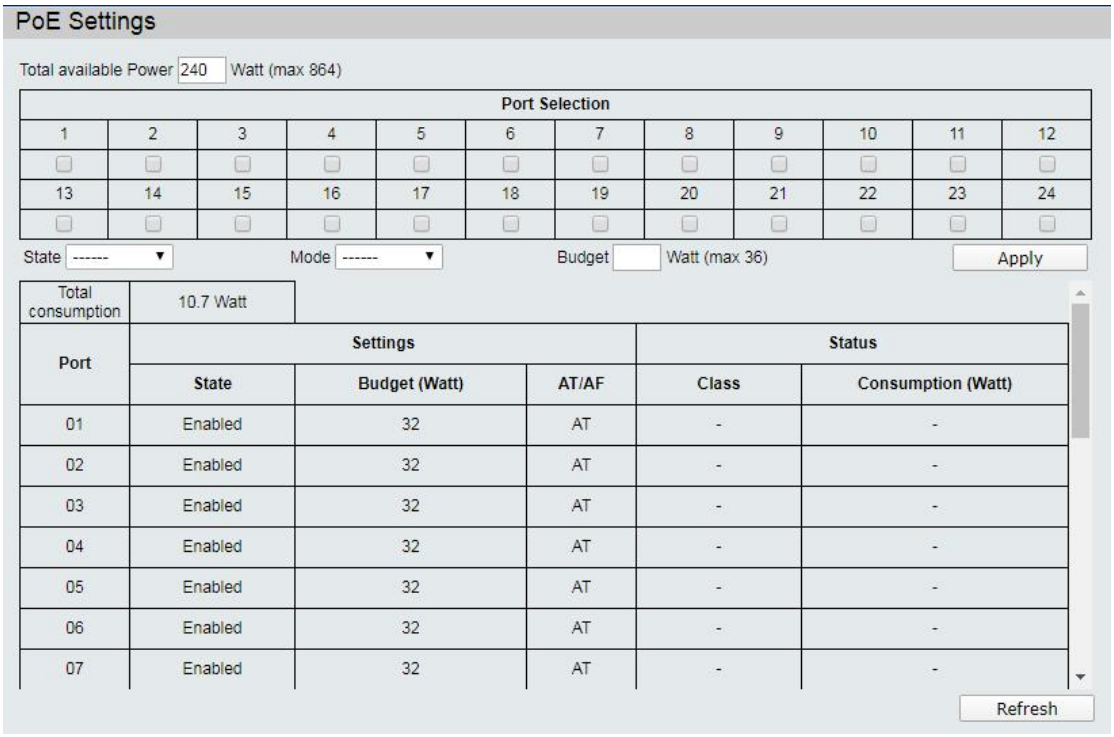
2.10 Reboot Device

Users can restart the switch and save the switch configuration
Operating Interface:

3 PoE Configuration

3.1 PoE Settings

If the network equipment deployment is flexible and requires wiring in a variety of complex environments, the PoE power function of the switch can be used to solve this problem.
1.Click the "PoE Configuration > PoE Settings" menu in the navigation bar, enter “PoE Settings” interface. As shown in the below figure:



Description of interface:

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

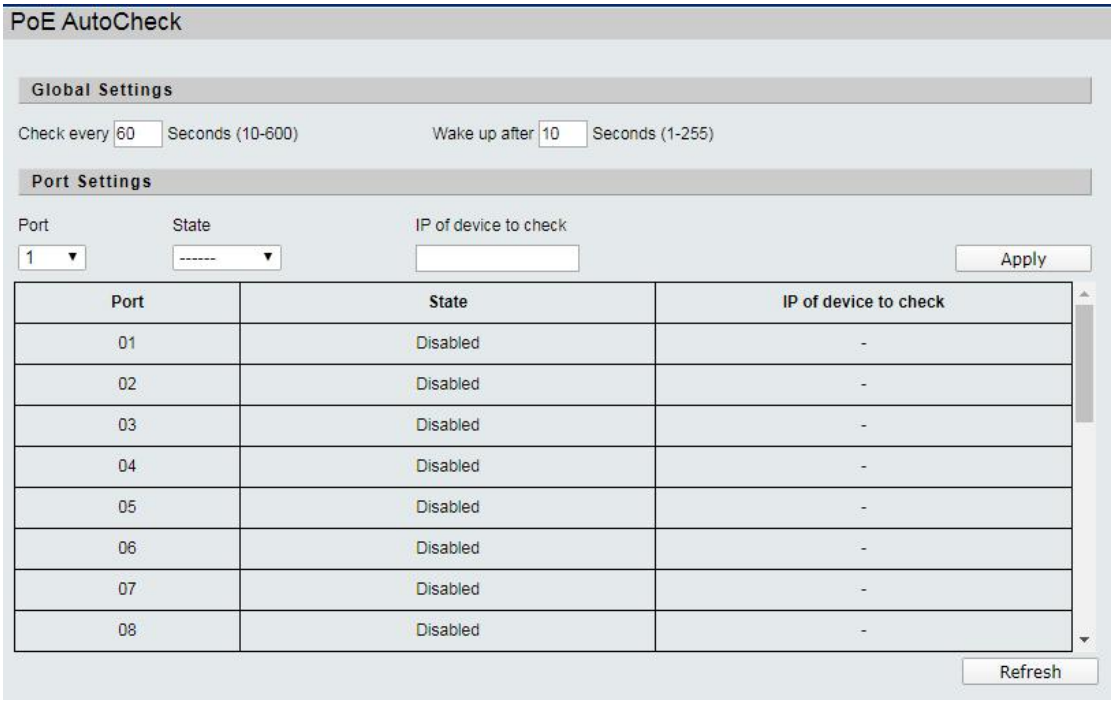
2.Fill in the corresponding configuration items;

3.Click “Apply” to complete the configuration.

3.2 PoE Auto Check

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

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



Global Settings

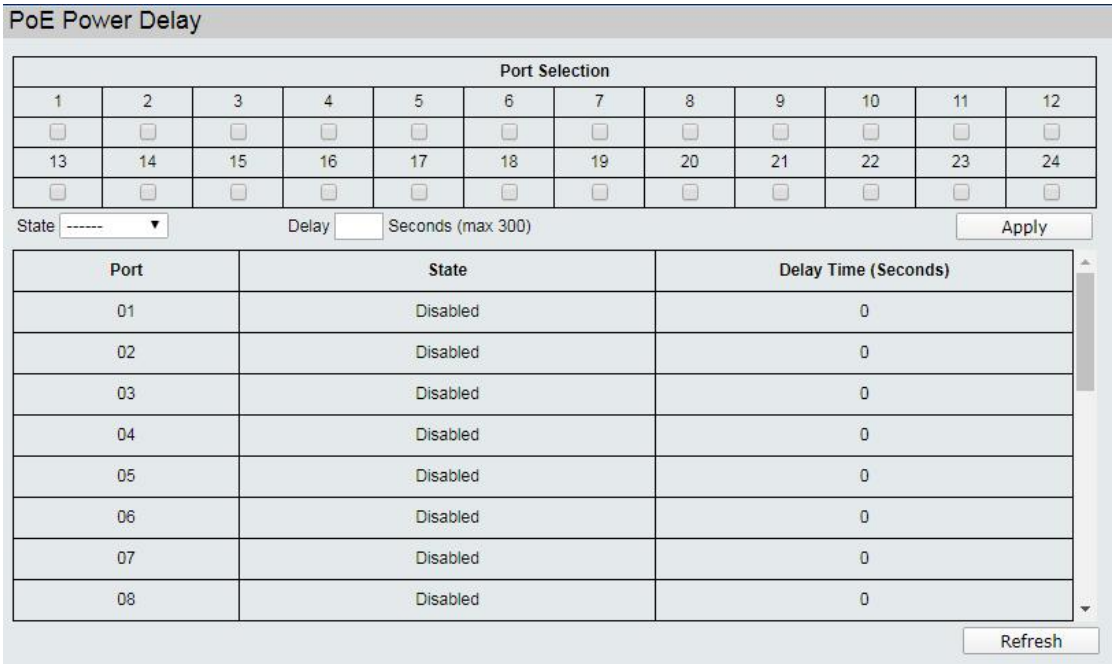
Configuration items	Description
Check	Automatic monitoring of PD interval time, default 60 seconds, range 10-600 seconds
Wake up	PoE port power supply automatic restart delay time, default 10 seconds, range 1-255 seconds

Port Settings

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

3.3 PoE Power Delay

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



Description of interface:

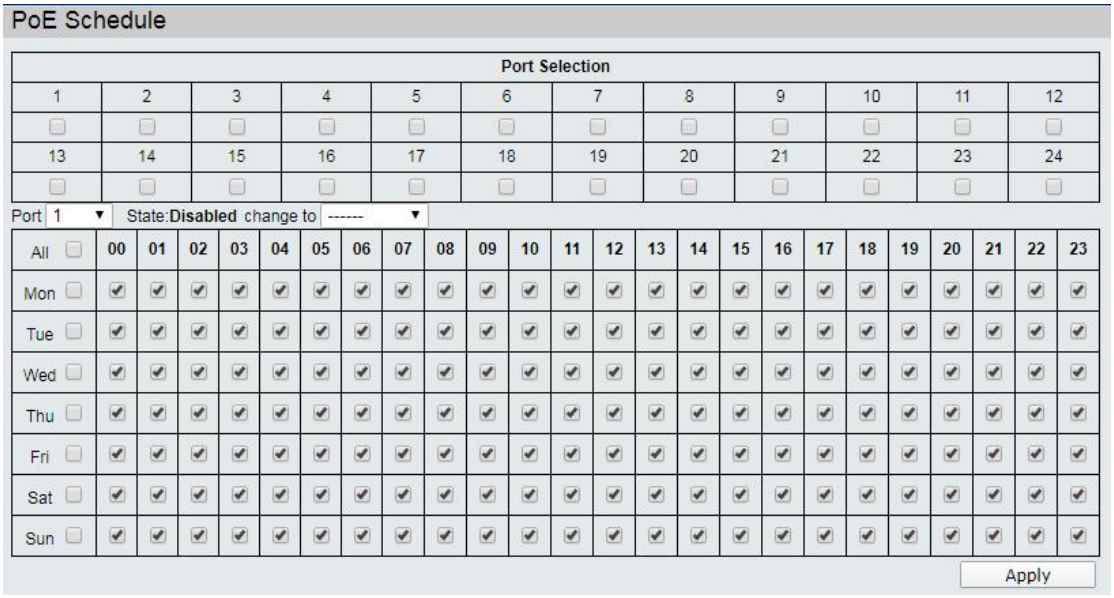
Configuration items	Description
Delay Mode	Individual choice，enable and disable for optional The default is to enable, PoE delay is valid only when configured in the enabled state
Delay Time (0~300)	0-300s
Port No.	Support multiple choice

2.Fill in the corresponding configuration items;

3.Click “Apply” to complete the configuration.

3.4 PoE Scheduling

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



Description of interface:

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

2.Fill in the corresponding configuration items;

3.Click “Apply” to complete the configuration.

3.5 PoE Event

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

PoE Event

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

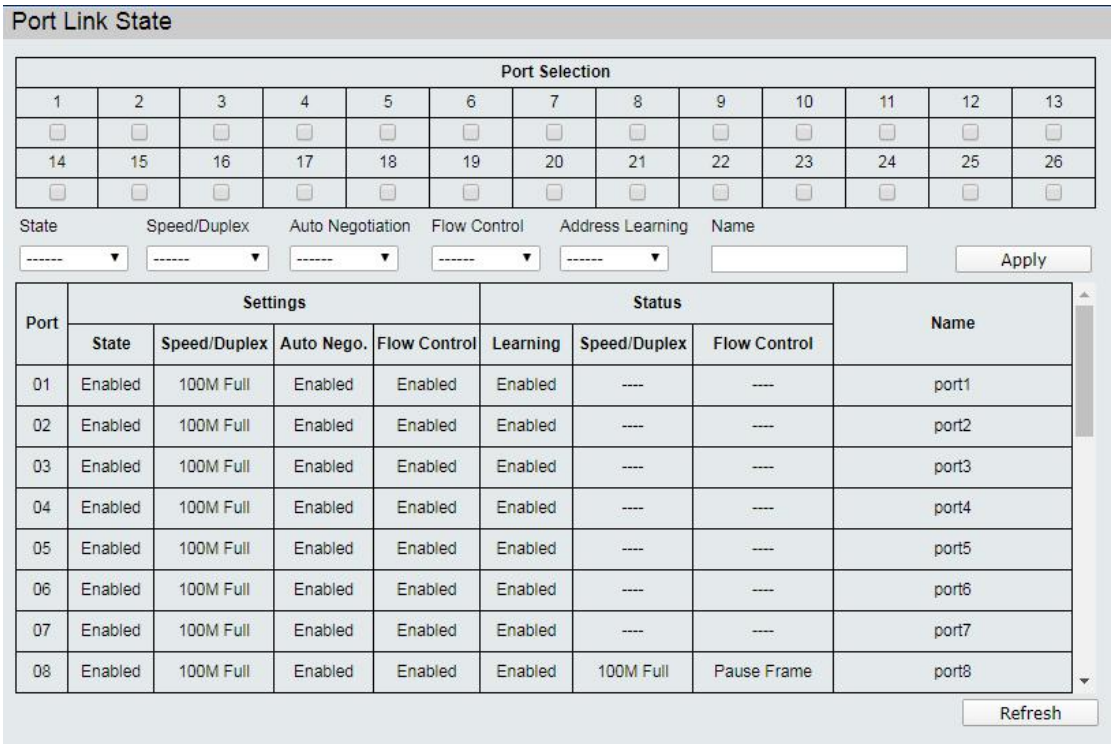
Refresh Clear

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

4 Basic Configuration

4.1 Port Link State

Users can check the status of configured port
1 Click the "Basic Configuration > Port Link State" menu in the navigation bar. As shown in the below figure:

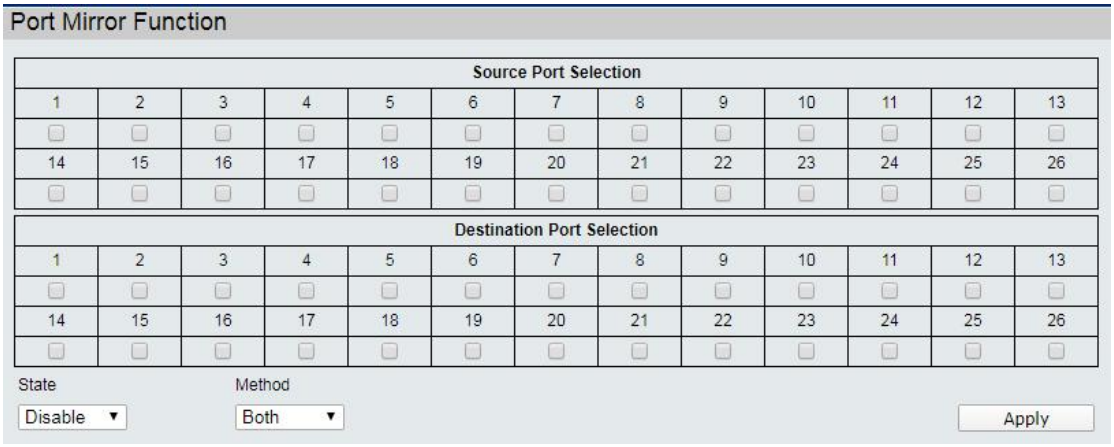


Configuration items	Description
Tx/Rx Ability	Enable and disable for optional , the default is to enable
Auto-Negotiation	Enable and disable for optional , the default is to enable
Speed	Ethernet port support 10Mbits/s、100Mbits/s、1000Mbit/s
Duplex	The definition of Full-duplex Mode：Full-duplex Mode and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

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

4.2 Port Mirror Function

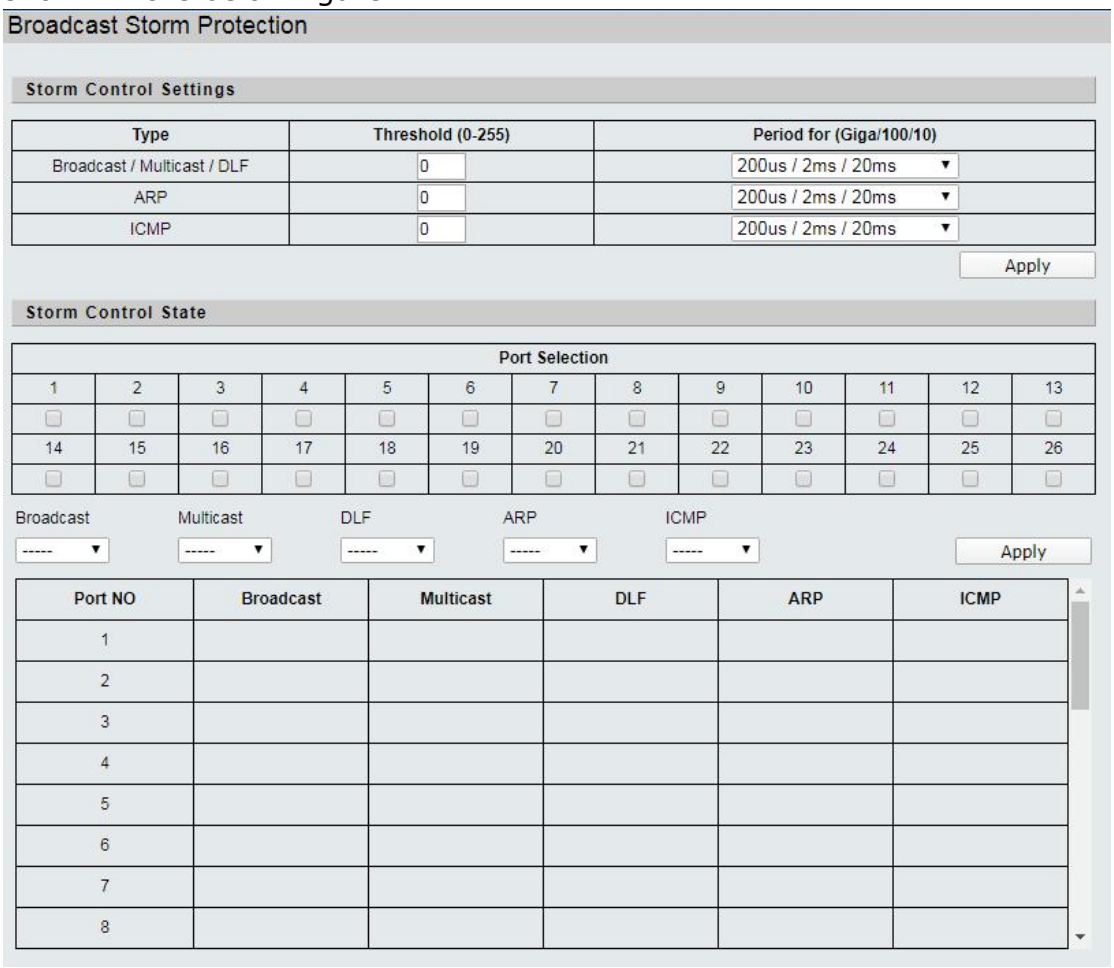
Users can check and configure port mirroring
1 Click the "Basic Configuration > Port Mirror Function" menu in the navigation bar. As shown in the below figure:



4.3 Broadcast Storm Protection

Users can set the storm suppression of the port

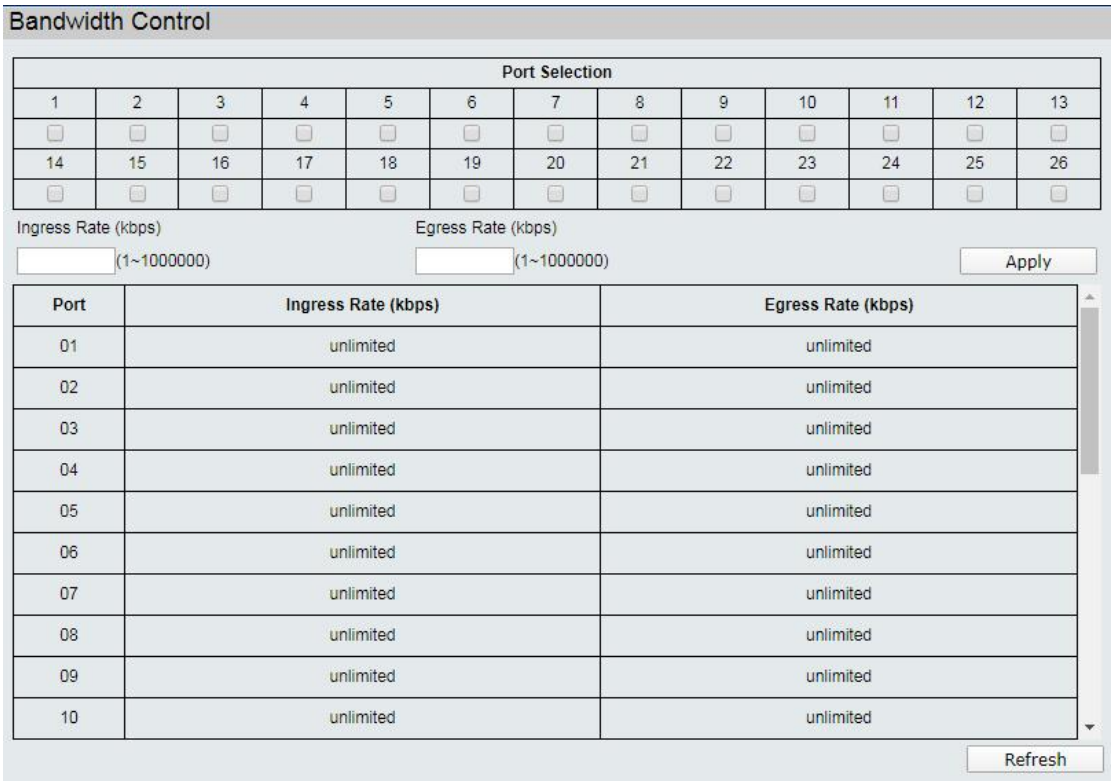
1 Click the "Basic Configuration > Broadcast Storm Protection " menu in the navigation bar. As shown in the below figure:



4.4 Bandwidth Control

Users can set port speed limit

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

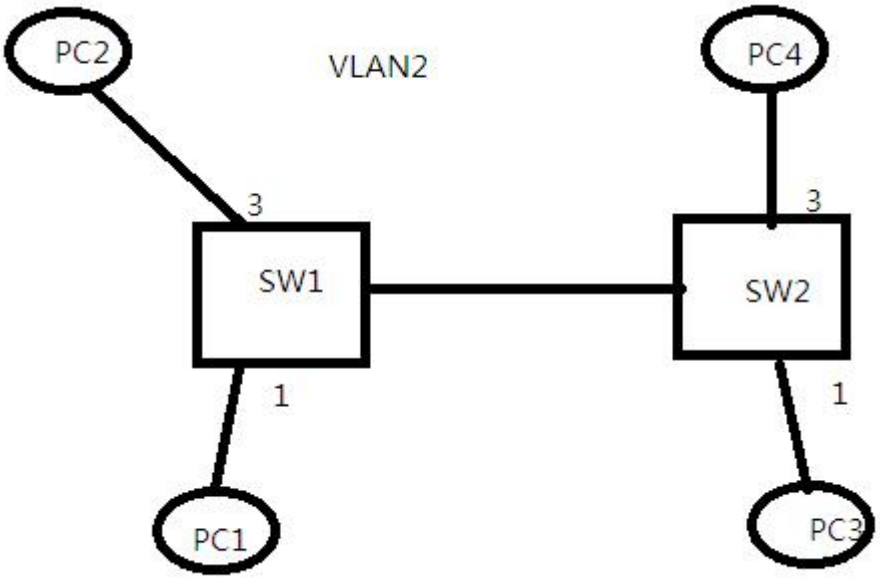


5 VLAN Configuration

5.1 VLAN Setting

Configuration environment

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



time.

Change VLAN mode

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

VLAN Mode

VLAN Mode	Tag VLAN / Group VLAN
Tag Method	by Tag / by Port
Egress Frame	Multicast / Unicast / ARP

Apply

Add vlan2

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

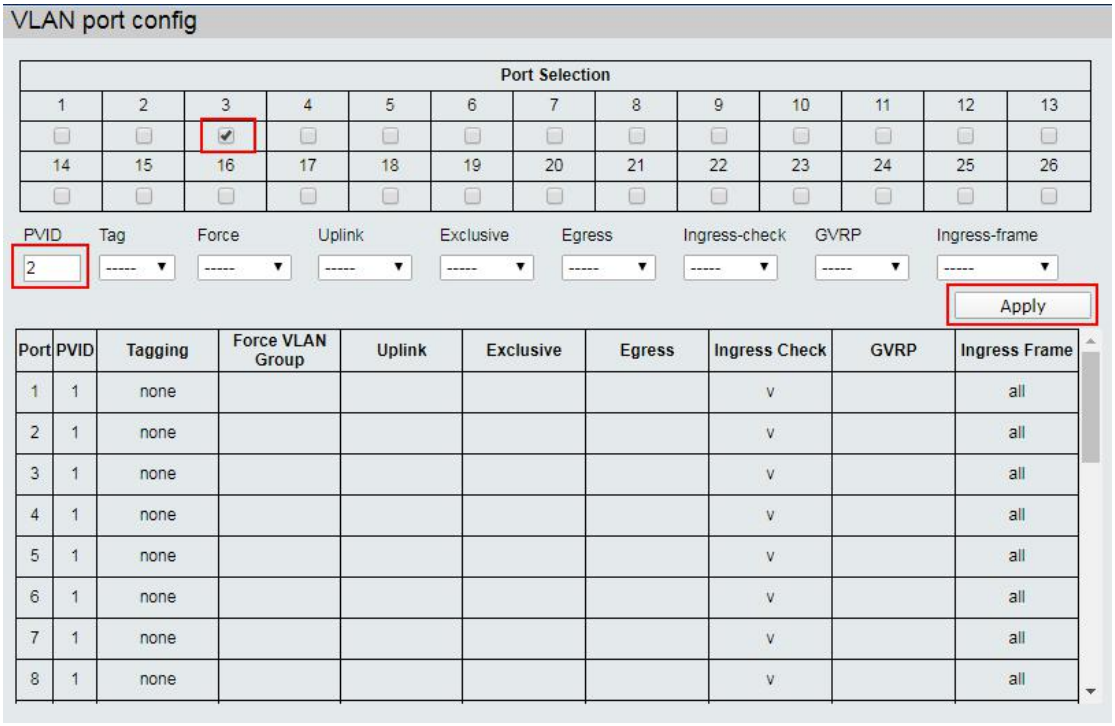
VLAN Tag-based Entry config

Add

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

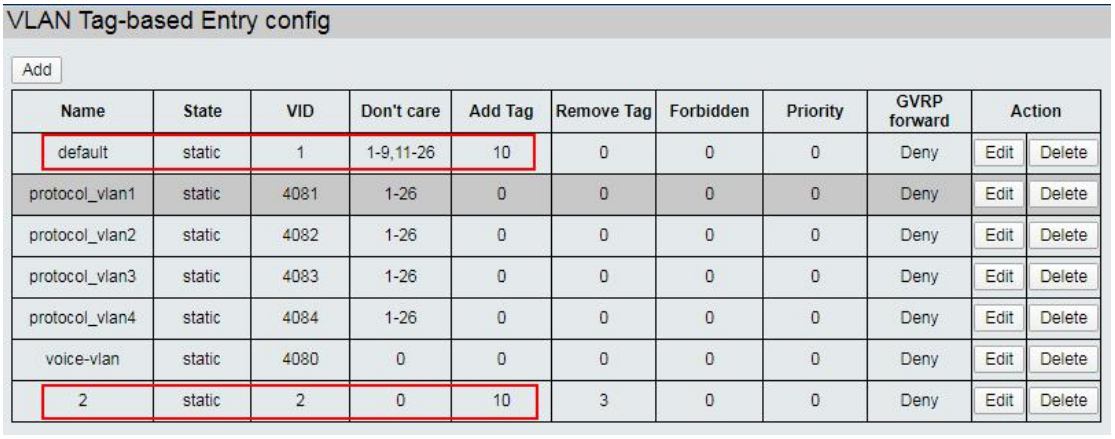
Port 1 set to remove, PVID set to 1, Port 3 configured as VLAN2 by default

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



Port 10 set to vlan1、vlan2 with tag

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



5.Verify configuration results

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

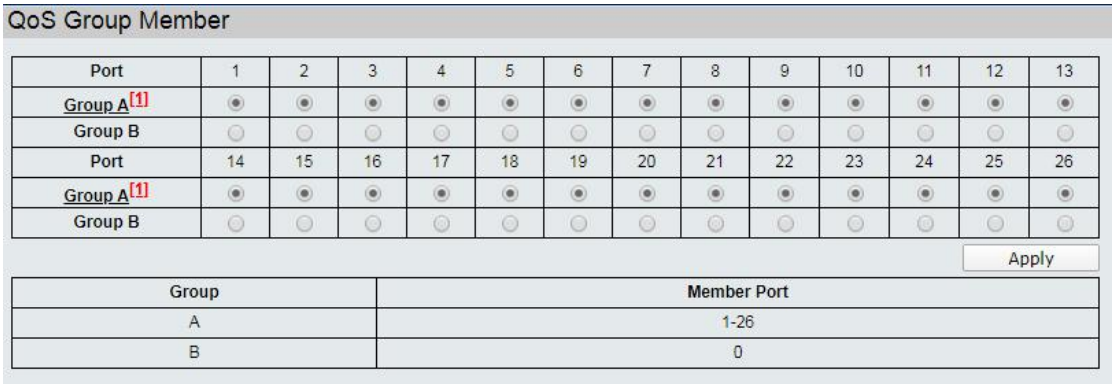
PC1 and PC3 can ping each other, but they cannot ping PC2 and PC4. PC2 and PC4 can ping each other, but they cannot ping PC1 and PC3.

6 QoS Configuration

6.1 QoS Group Member

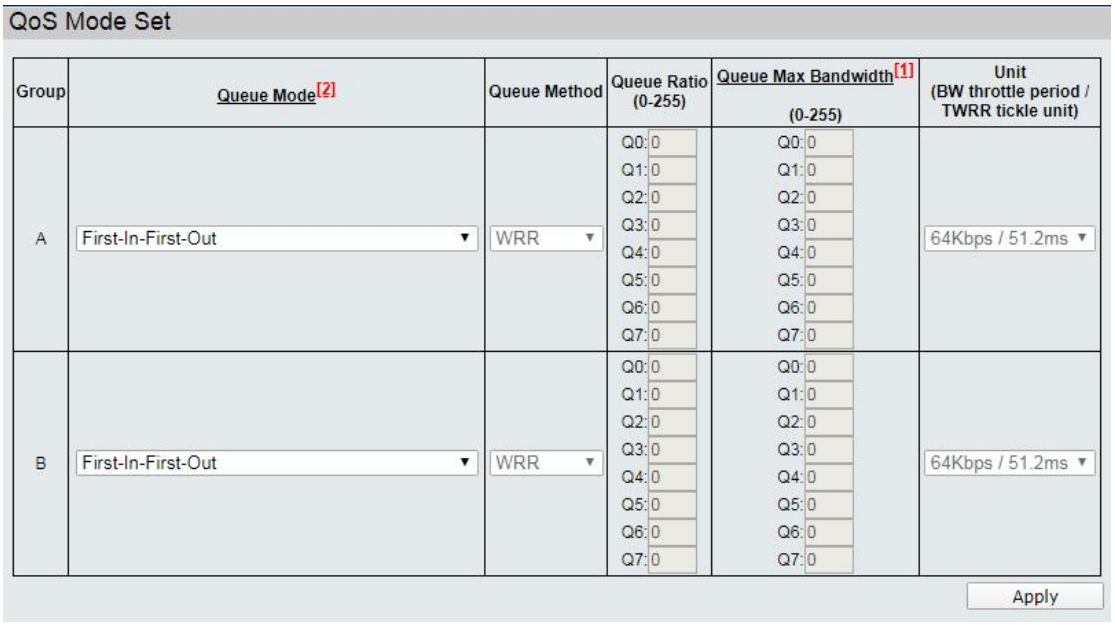
Check and edit port grouping

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



6.2 QoS Mode Set

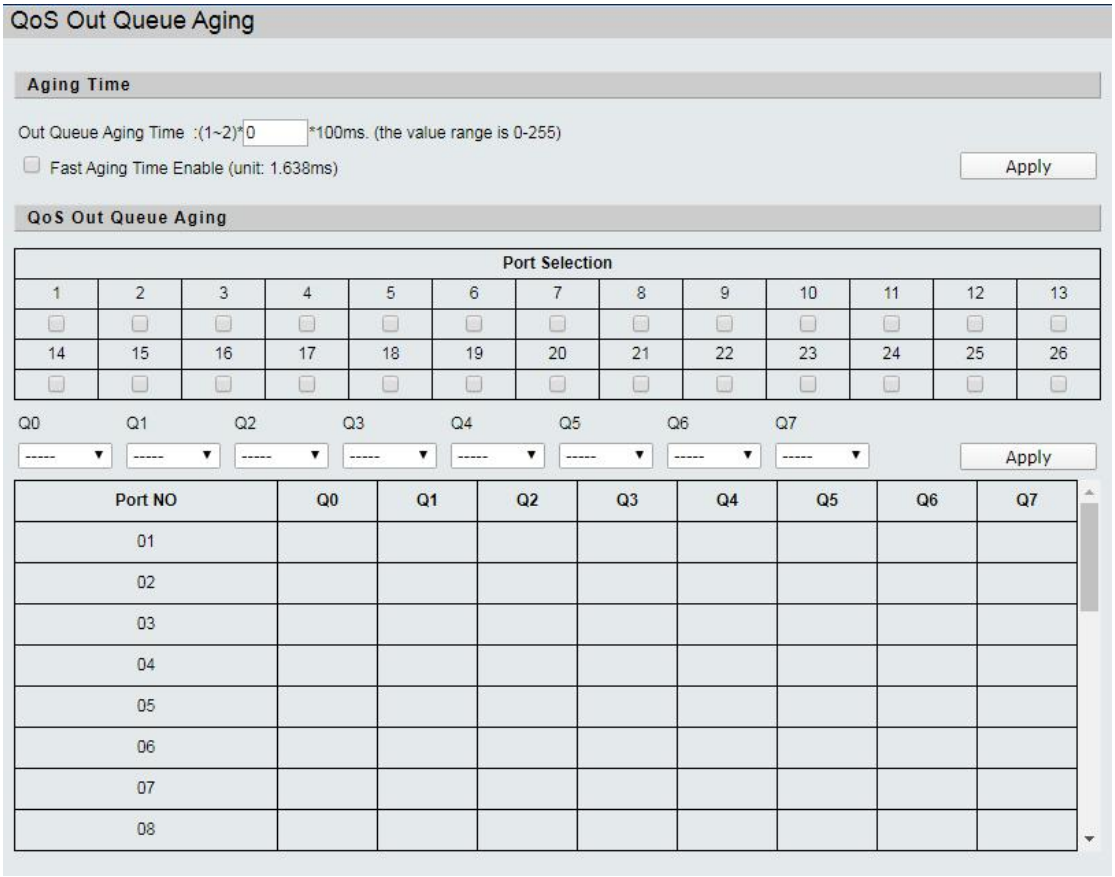
1 Click the " QoS Configuration > QoS Mode Set" menu in the navigation bar. As shown in the below figure:



6.3 QoS Out Queue Aging

Check and edit queue configuration

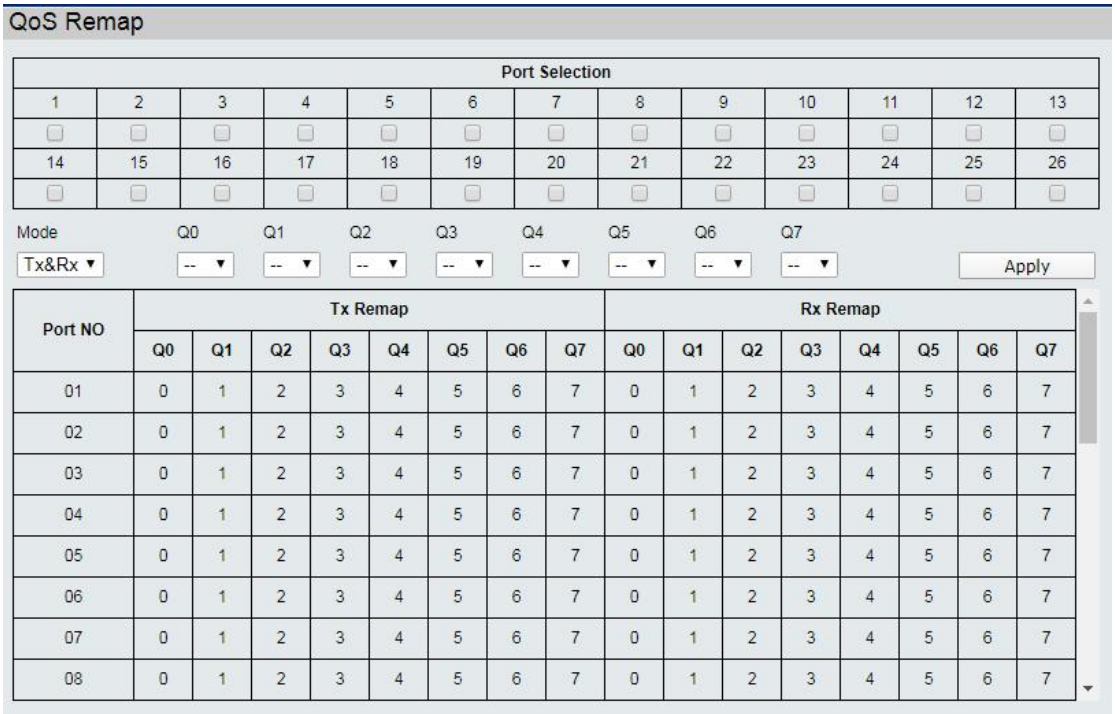
1 Click the " QoS Configuration > QoS Out Queue Aging" menu in the navigation bar. As shown in the below figure:



6.4 QoS Remap

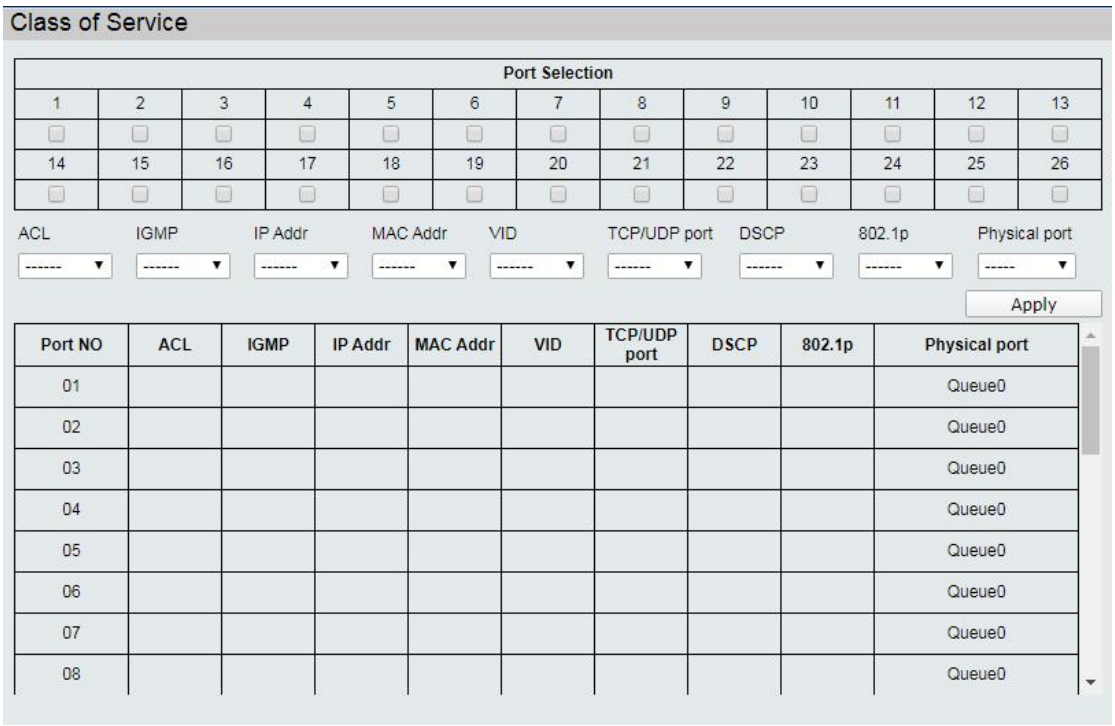
Check and edit remap

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



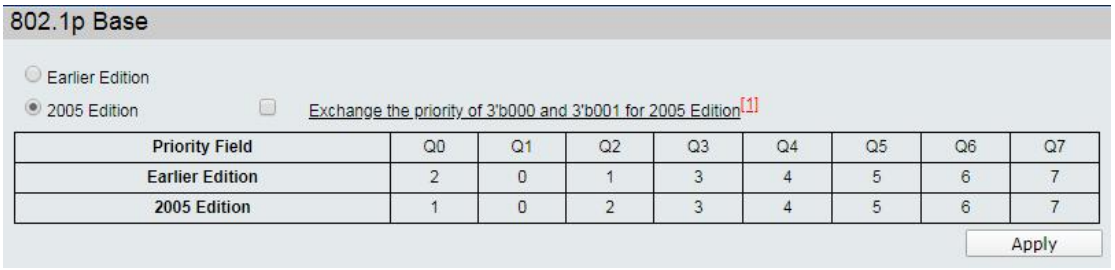
6.5 Class of Service

Check and edit service level configuration
1 Click the " QoS Configuration > Class of Service" menu in the navigation bar. As shown in the below figure:



6.6 802.1p Base

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



6.7 DSCP Base

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

DSCP Base

Priority For DSCP Not Match

Regard as low priority (priority 0)

Ignore IP priority (priority will according to tag/port) Apply

IP ToS/DSCP CoS Base Priority

DSCP List: DSCP1 | Value(0-63): | Priority: Q0 | Apply

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

6.8 TCP/UDP Port Base

Check and edit TCP/UDP configuration

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

TCP/UDP Port Base

TCP/UDP Port Base Priority

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

Protocol	Priority	Protocol	Priority	Protocol	Priority	Protocol	Priority
FTP	Q0	SSH	Q0	TELNET	Q0	SMTP	Q0
DNS	Q0	BOOTP/DHCP	Q0	TFTP	Q0	HTTP_0,1	Q0
POP3	Q0	NEWS	Q0	SNTP	Q0	NETBIOS_0,1,2	Q0
IMAP_0,1	Q0	SNMP_0,1	Q0	HTTPS	Q0	User defined A	Q0
User defined B	Q0	User defined C	Q0	User defined D	Q0		

User Define TCP/UDP Port Number

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

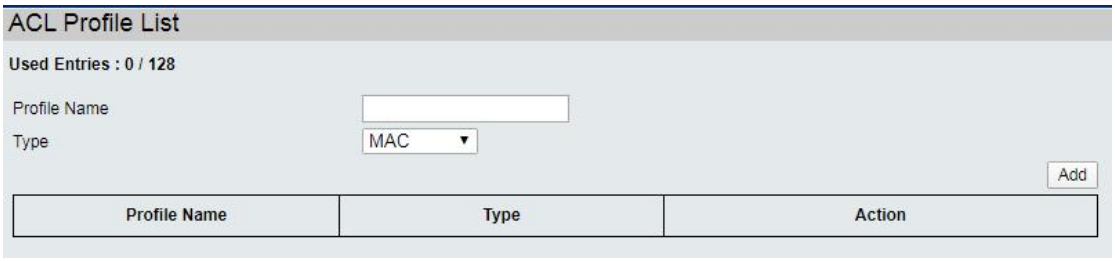
User defined A	User defined B	User defined C	User defined D
Port: 1	Port: 1	From Port: 1 To Port: 1	From Port: 1 To Port: 1

Apply

7 ACL Configuration

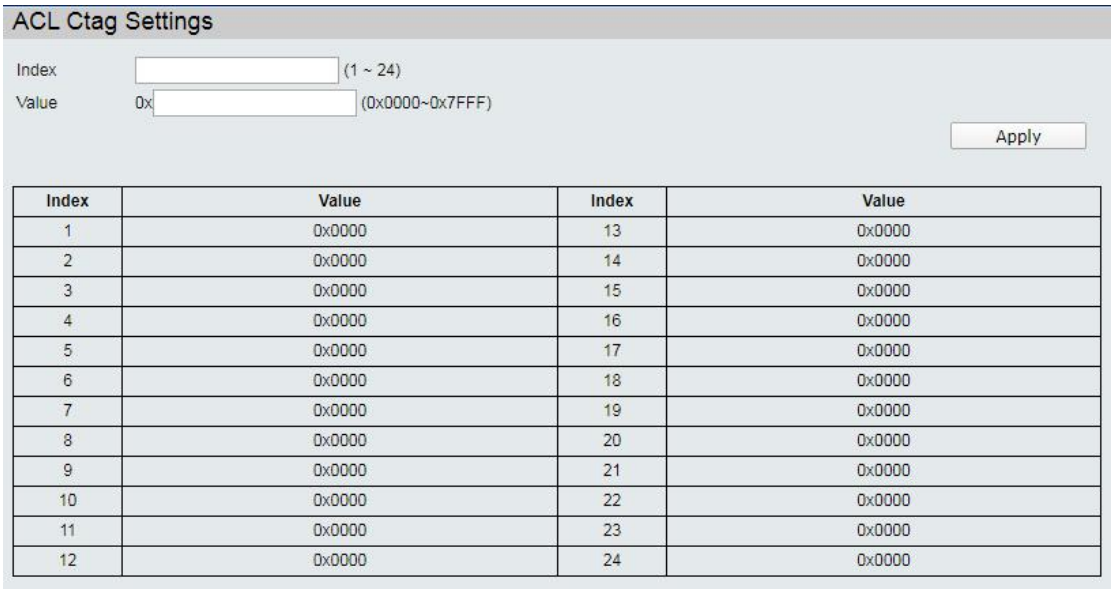
7.1 ACL Profile List

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



7.2 ACL Ctag Settings

Check and edit ACL internal label setting
1 Click the " ACL Configuration > ACL Ctag Settings" menu in the navigation bar. As shown in the below figure:



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

7.3 ACL Stag Settings

Check and edit ACL external label setting
1 Click the " ACL Configuration > ACL Stag Settings" menu in the navigation bar. As shown in the below figure:

ACL Stag Settings

Index (1 ~ 24)

Value 0x (0x0000~0xFFFF)

Apply

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

7.4 ACL VLAN Settings

Check and edit ACL VLAN setting

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

ACL VLAN Settings

Index 1

Member Port

1	2	3	4	5	6	7	8	9	10	11	12	13
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
14	15	16	17	18	19	20	21	22	23	24	25	26
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

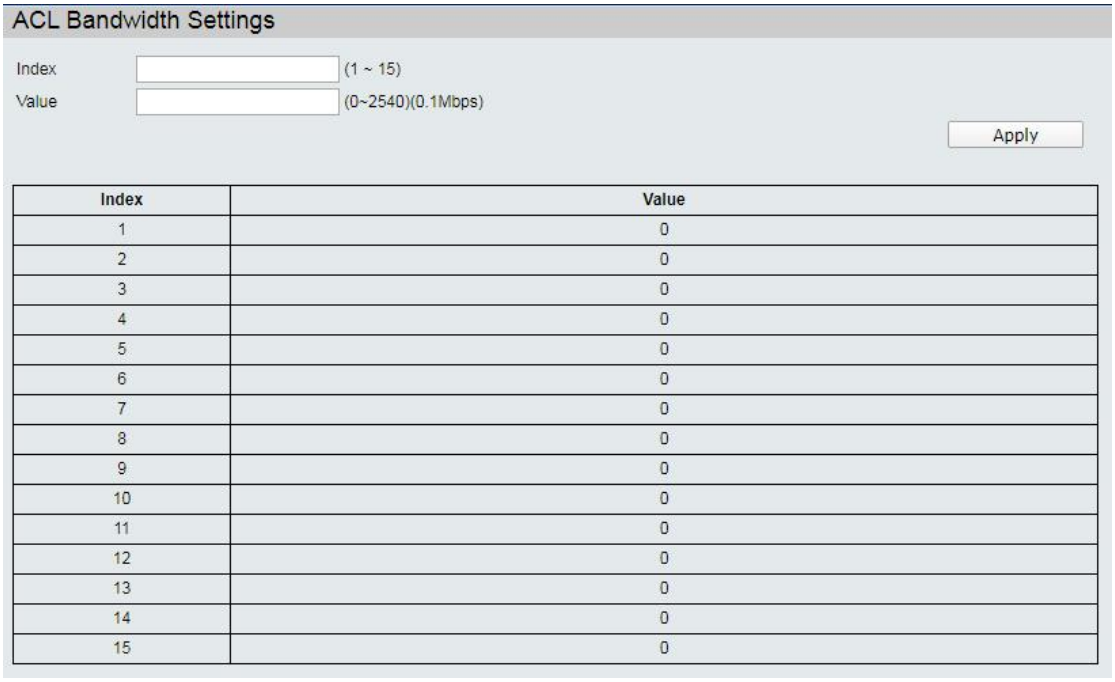
Apply

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

7.5 ACL Bandwidth Settings

Check and edit ACL speed limit setting

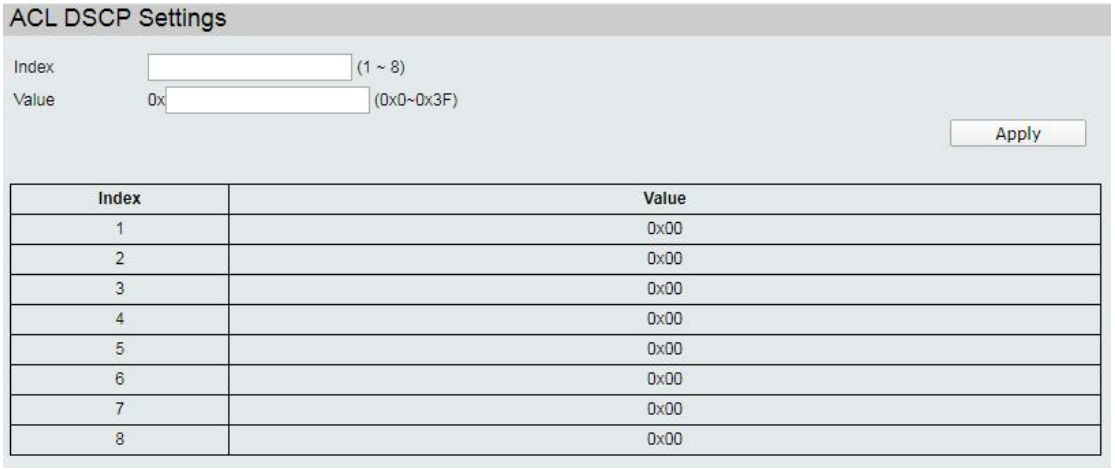
1 Click the " ACL Configuration > ACL Bandwidth Settings" menu in the navigation bar. As shown in the below figure:



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

7.6 ACL DSCP Settings

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

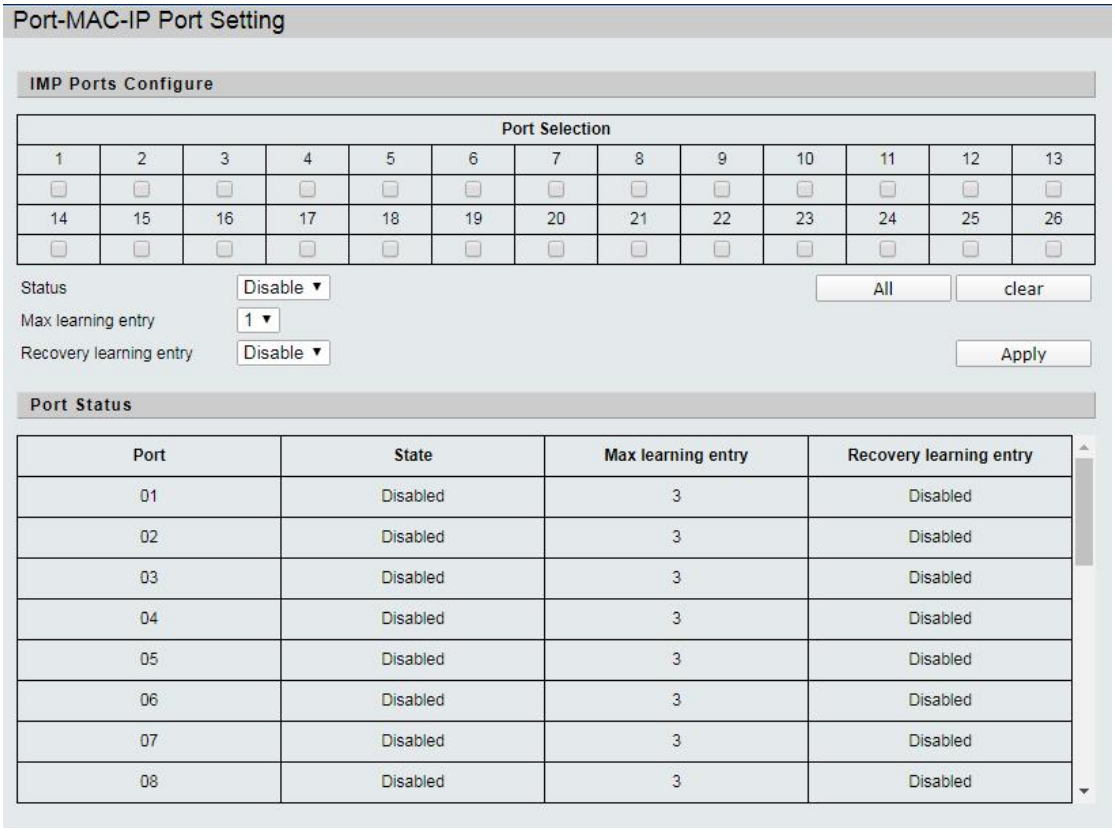


Index	Value
1	0x00
2	0x00
3	0x00
4	0x00
5	0x00
6	0x00
7	0x00
8	0x00

8 Security

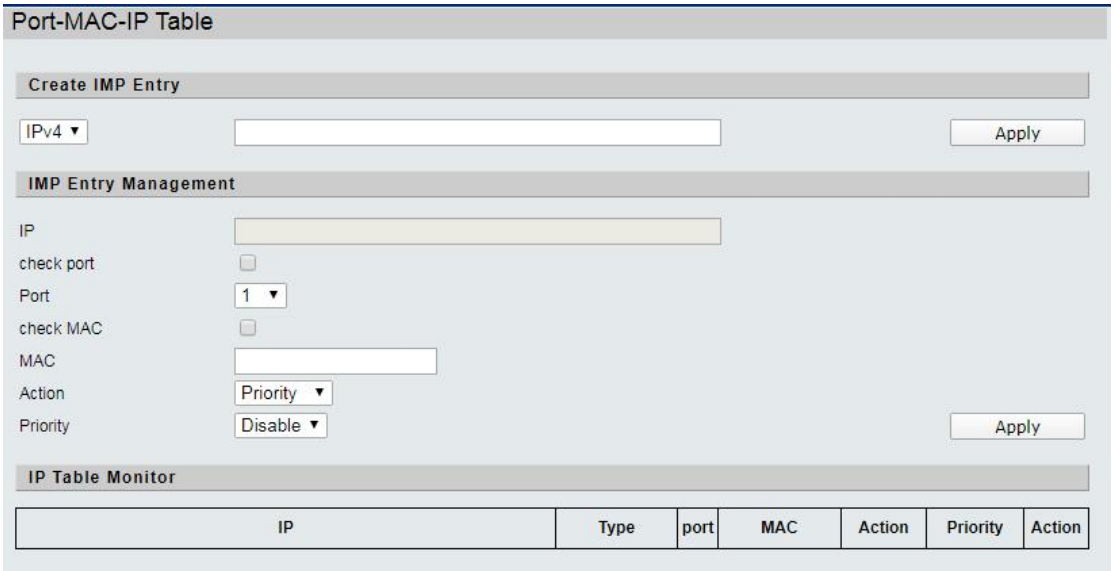
8.1 Port-MAC-IP Port Setting

Check and edit Port-MAC-IP Port, binding global configuration
1 Click the " Security > Port-MAC-IP Binding > Port-MAC-IP Port Setting " menu in the navigation bar. As shown in the below figure:



8.2 Port-MAC-IP Table

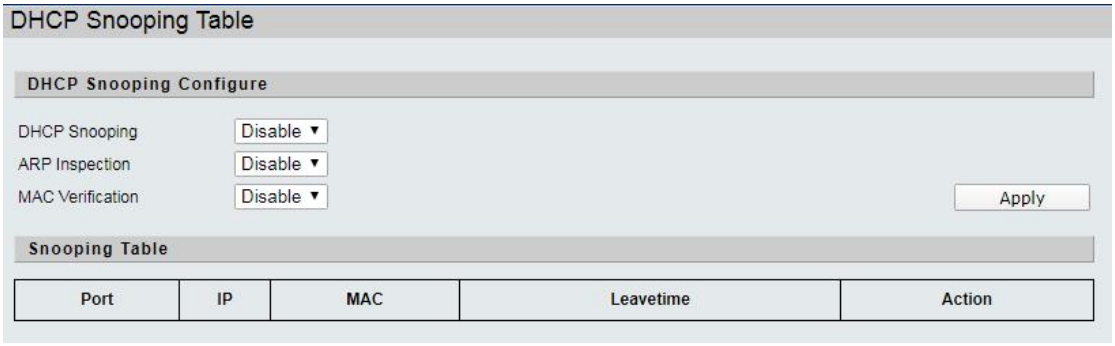
Check and edit Port-MAC-IP, whitelist setting
1 Click the " Security > Port-MAC-IP Binding > Port-MAC-IP Table" menu in the navigation bar. As shown in the below figure:



8.3 DHCP Snooping Table

Check and edit DHCP Snooping configuration

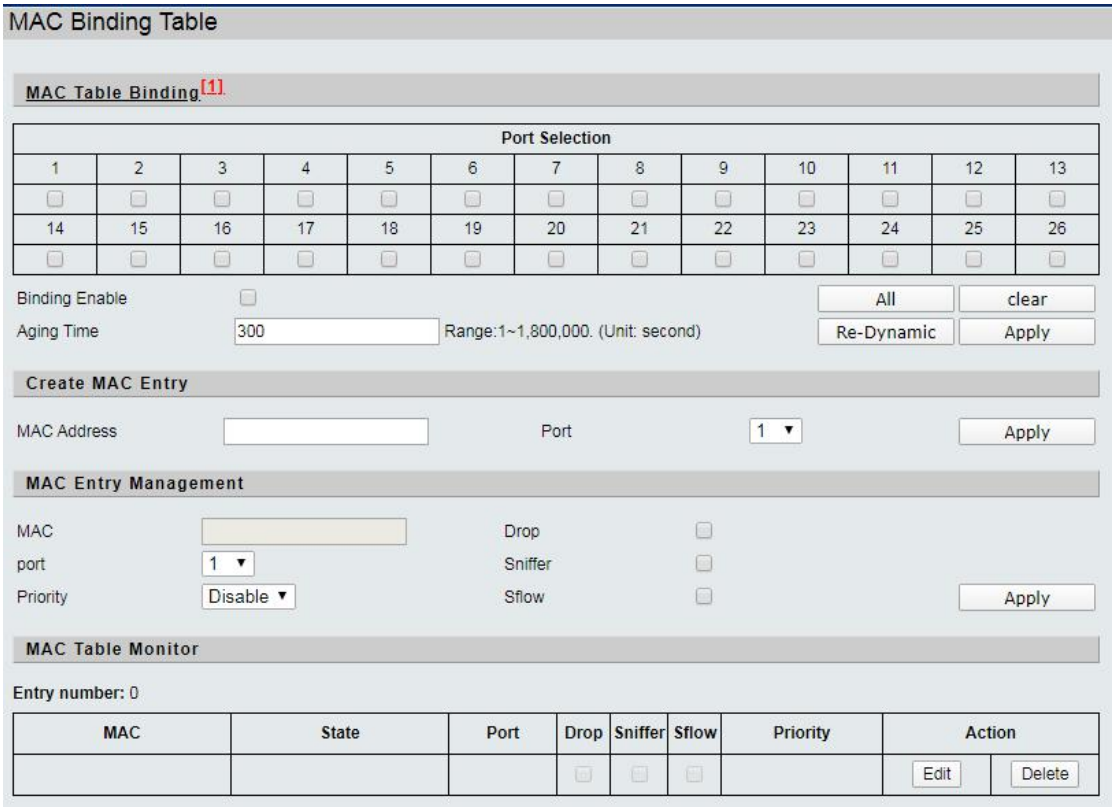
1 Click the " Security > Port-MAC-IP Binding > DHCP Snooping Entry Setting" menu in the navigation bar. As shown in the below figure:



8.4 MAC Binding Table

MAC address table binding

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

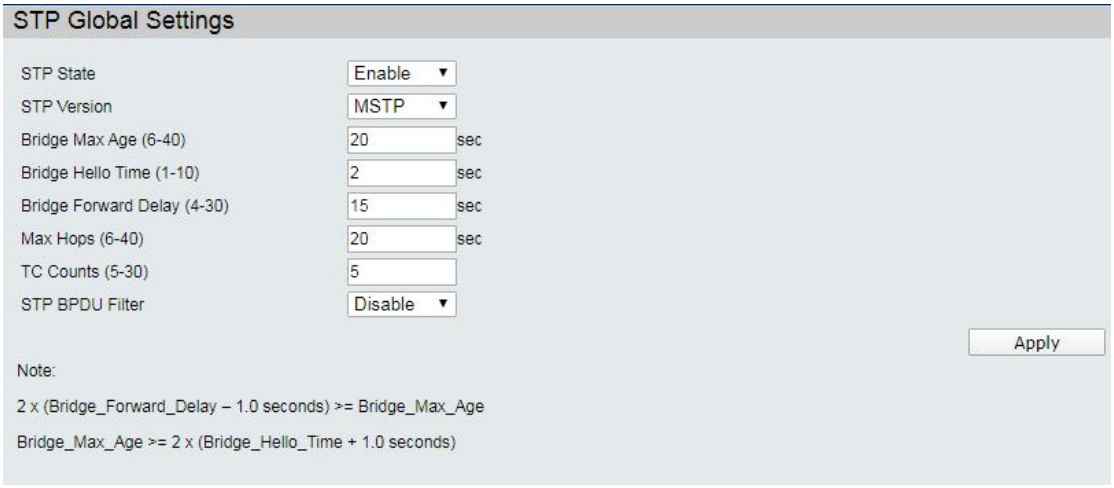


9 Advanced Features

9.1 Spanning Tree Protocol

9.1.1 STP Global Settings

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



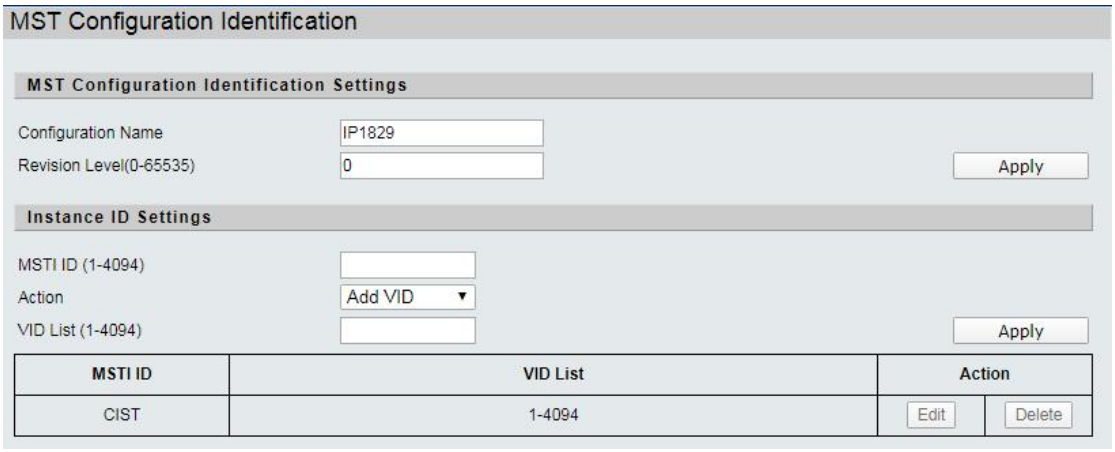
9.1.2 STP Port Settings

Enable or disable the STP protocol under the port
1 Click the " Advanced Features > Spanning Tree Protocol > STP Port Settings" menu in the navigation bar. As shown in the below figure:

9.1.3 MST Configuration Identification

MST domain configuration

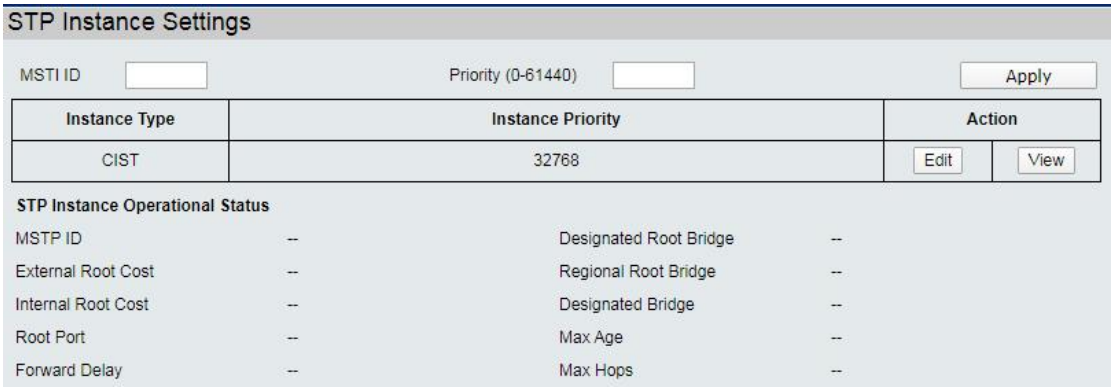
1 Click the " Advanced Features > Spanning Tree Protocol > MST Configuration" menu in the navigation bar. As shown in the below figure:



9.1.4 STP Instance Settings

CIST instance configuration

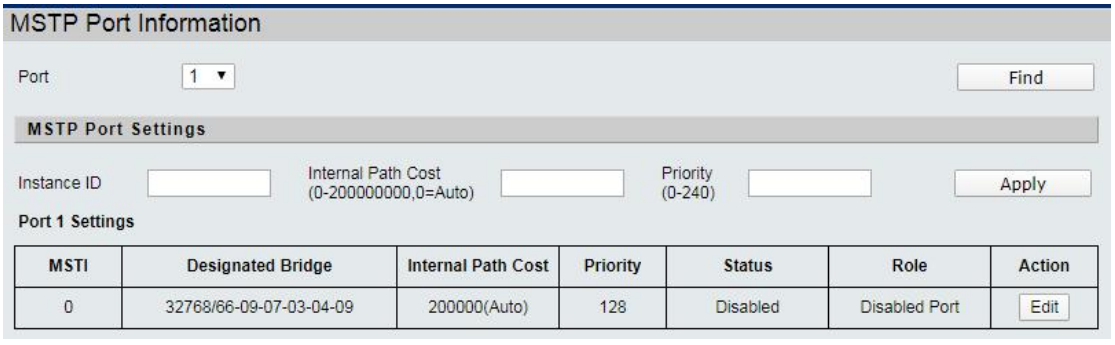
1 Click the " Advanced Features > Spanning Tree Protocol > STP Instance Settings" menu in the navigation bar. As shown in the below figure:



9.1.5 MSTP Port Information

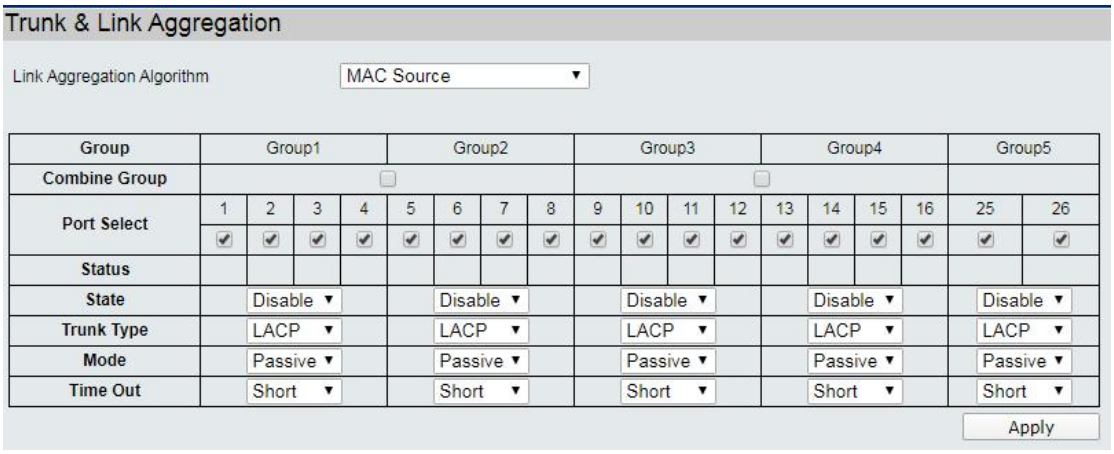
Check the STP role of the port

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



9.2 Trunk & Link Aggregation

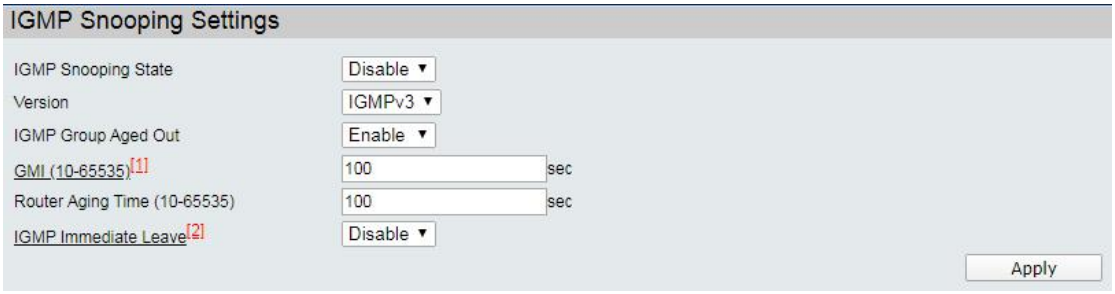
Enable or disable static and dynamic port aggregation
1 Click the " Advanced Features > Trunk & Link Aggregation" menu in the navigation bar. As shown in the below figure:



9.3 IGMP Snooping

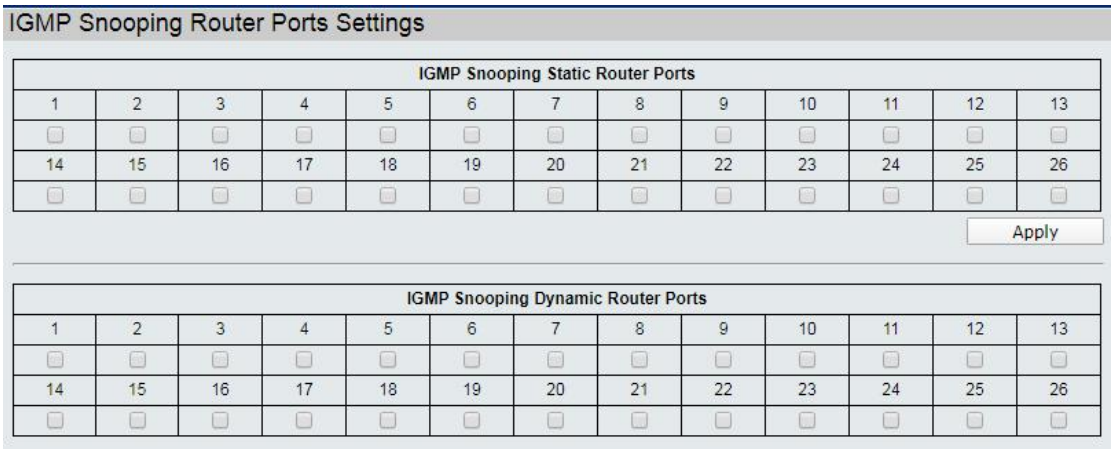
9.3.1 IGMP Snooping Settings

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



9.3.2 IGMP Snooping Router Ports Settings

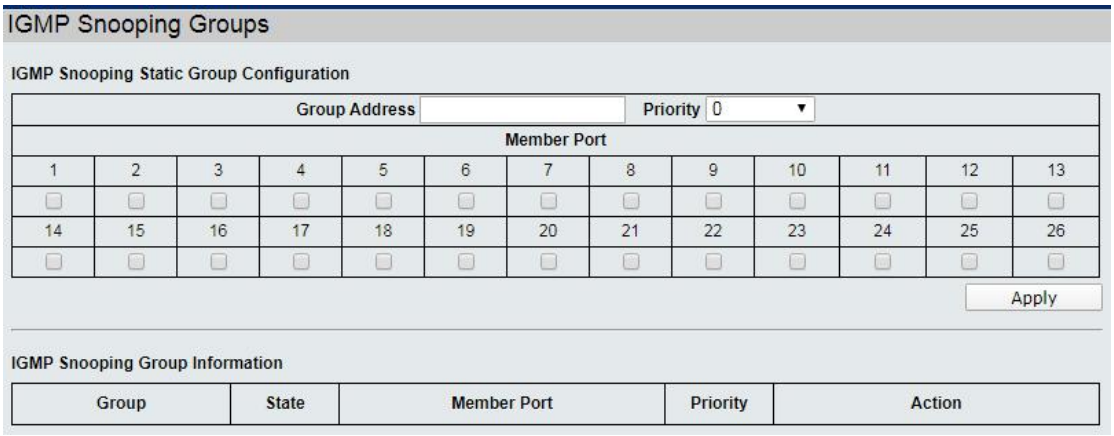
Set routing port
1 Click the " Advanced Features > IGMP Snooping > IGMP Snooping Router Ports Settings" menu in the navigation bar. As shown in the below figure:



9.3.3 IGMP Snooping Groups

Establish a static multicast table

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



9.3.4 IGMP Snooping Ports

Check the status of IGMP Snooping under the port

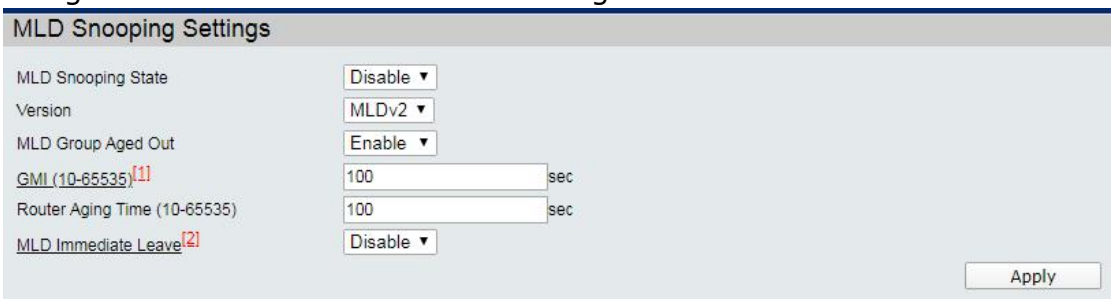
1 Click the " Advanced Features > IGMP Snooping > IGMP Snooping Ports" menu in the navigation bar. As shown in the below figure:

9.4 MLD Snooping

9.4.1 MLD Snooping Settings

Enable or disable MLD Snooping

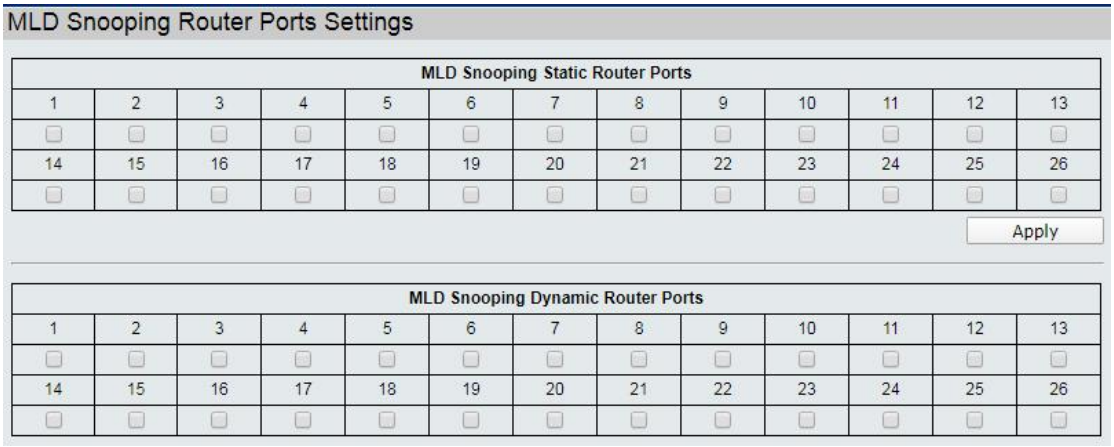
1 Click the " Advanced Features > MLD Snooping > MLD Snooping Settings" menu in the navigation bar. As shown in the below figure:



9.4.2 MLD Snooping Router Ports Settings

Set the static routing port

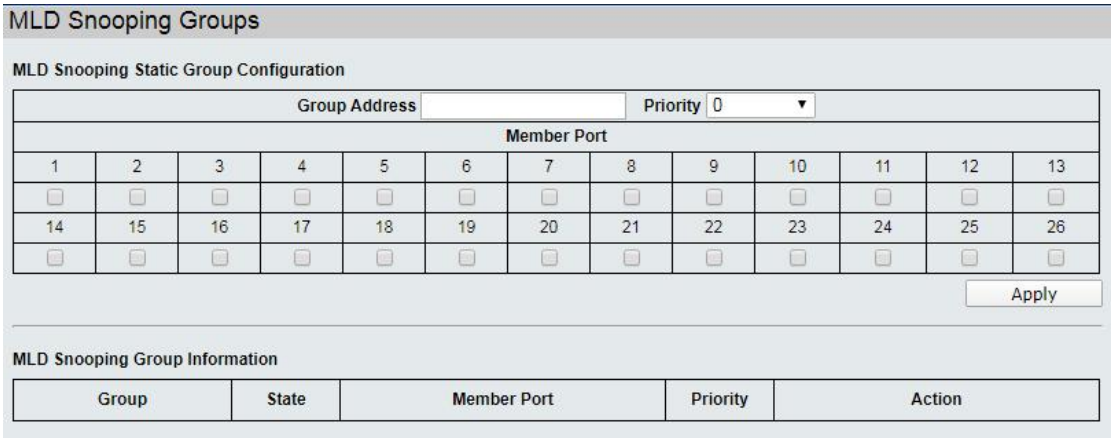
1 Click the " Advanced Features > MLD Snooping > MLD Snooping Router Ports Settings" menu in the navigation bar. As shown in the below figure:



9.4.3 MLD Snooping Groups

Establish a static multicast table

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

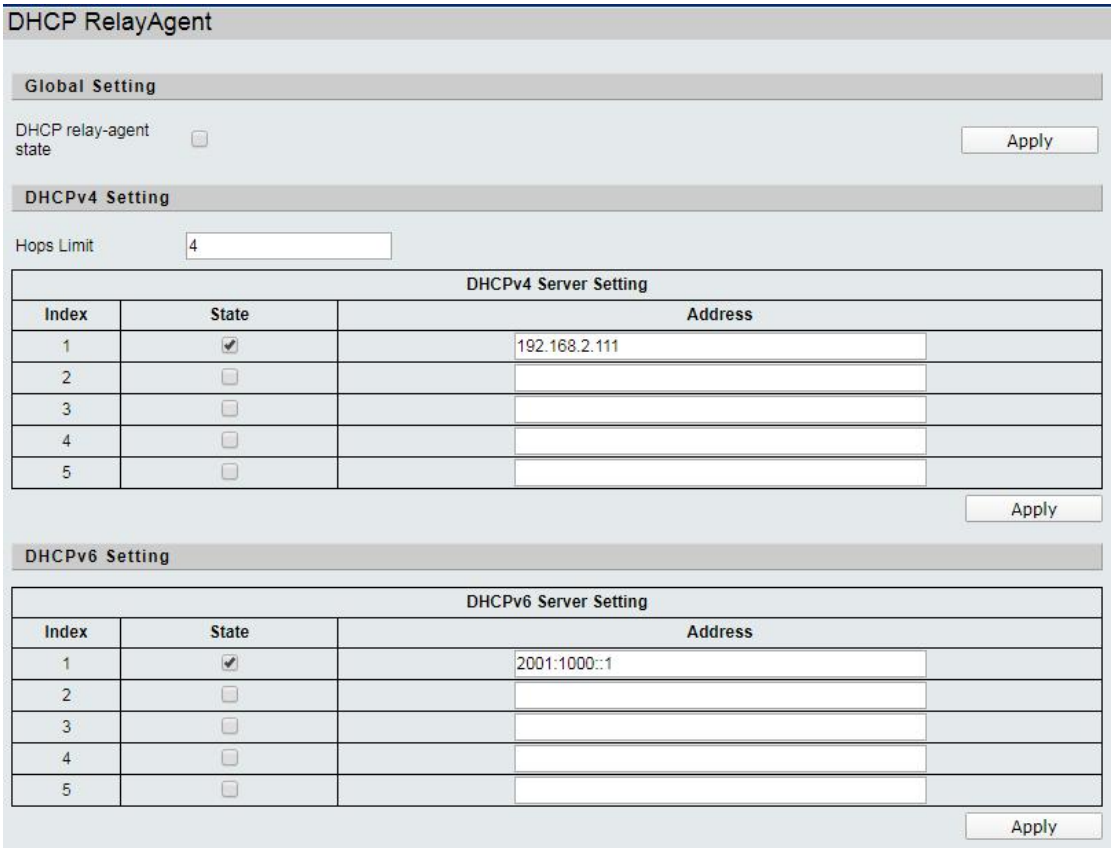


9.4.4 MLD Snooping Ports

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

9.4 DHCP Relay Agent

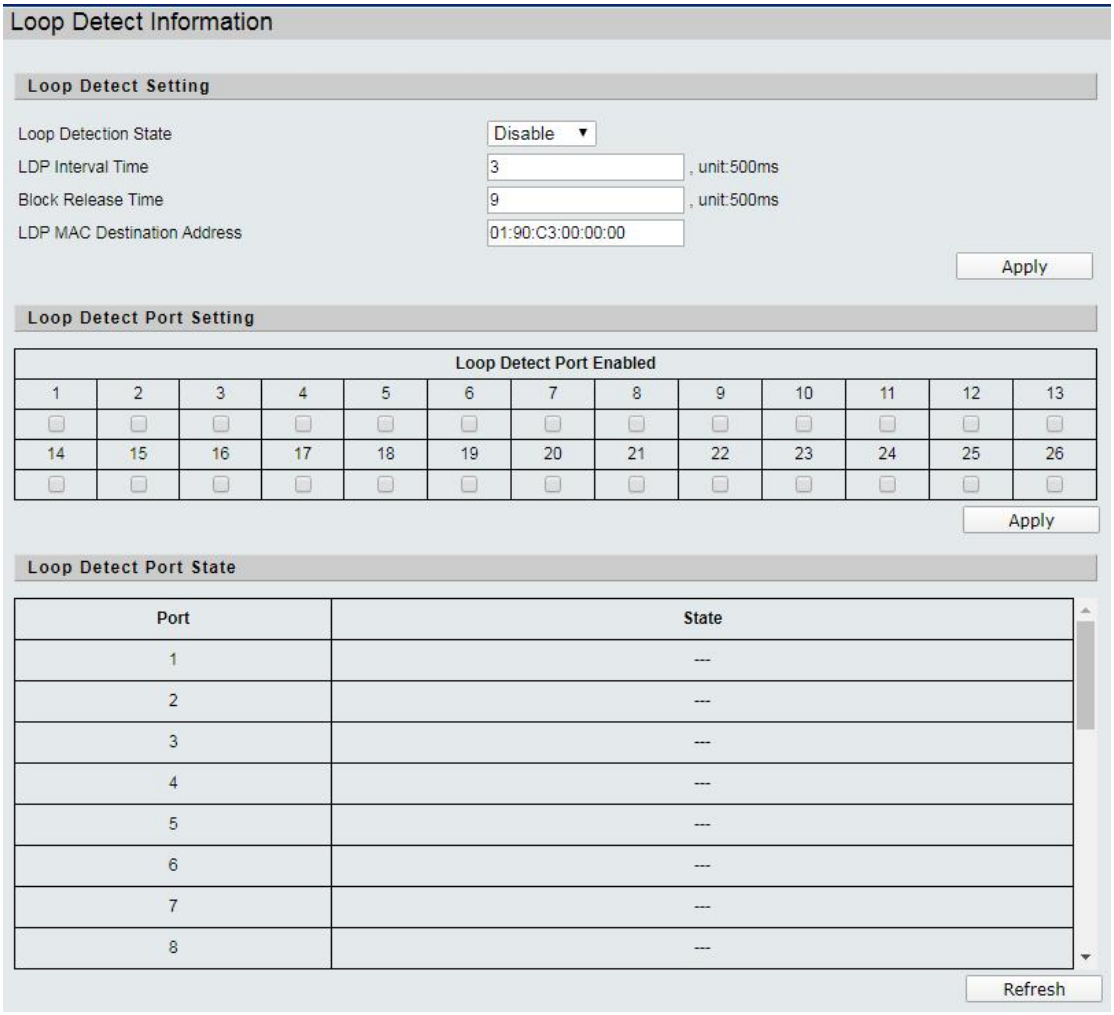
Enable DHCP relay globally
1 Click the " Advanced Features > DHCP RelayAgent" menu in the navigation bar. As shown in the below figure:



9.5 Loop Detect

Enable loop detection the port

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



9.6 GVRP

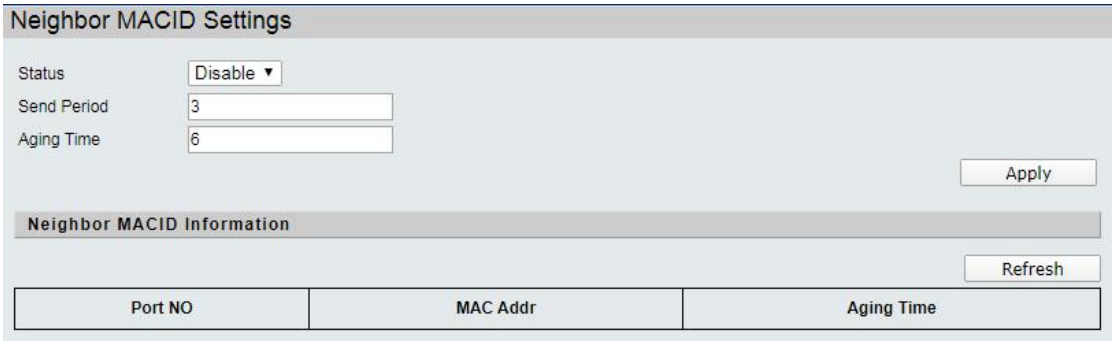
Enable GVRP in global mode

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

9.7 Neighbor MACID Settings

Check the mac address of the IPV6 neighbor

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

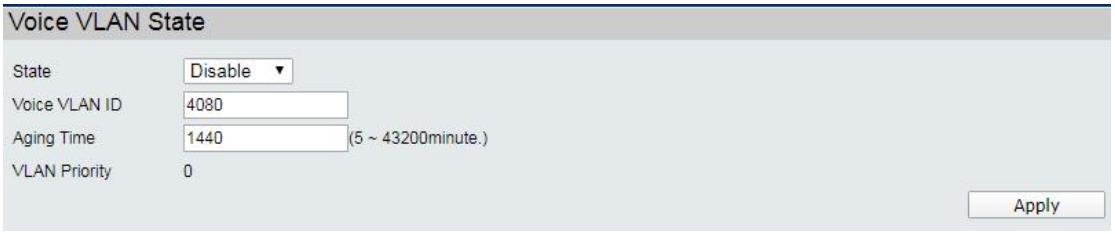


9.8 Voice VLAN

9.8.1 Voice VLAN State

Enable voice VLAN globally

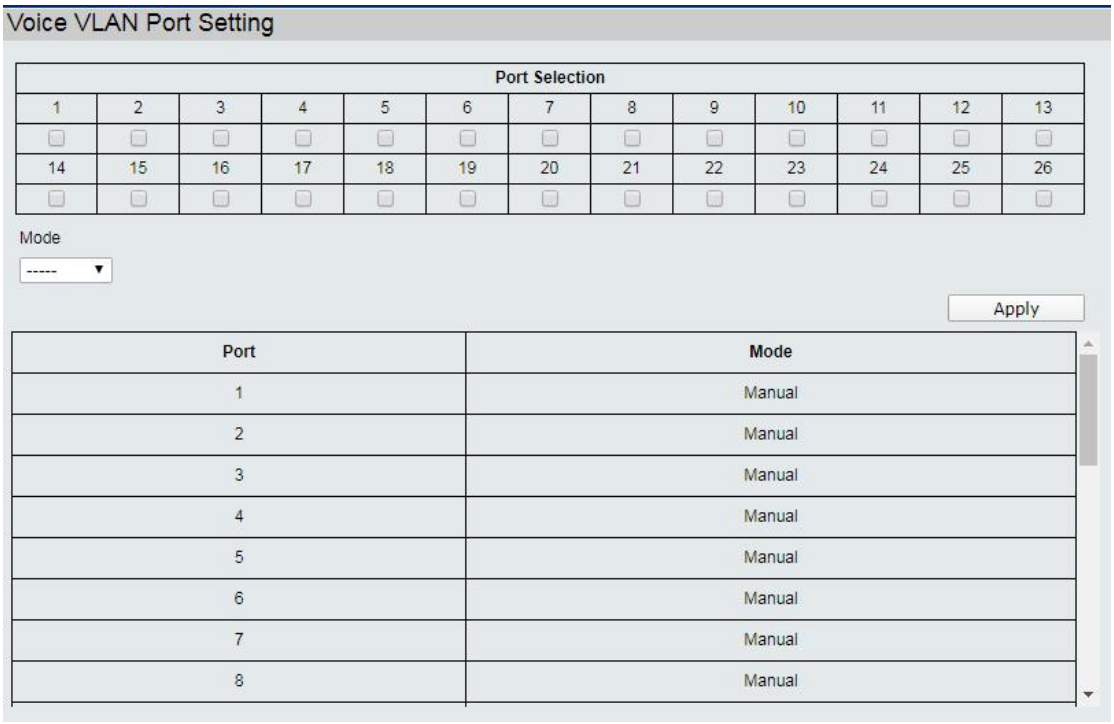
1 Click the " Advanced Features > Voice VLAN Setting> Voice VLAN State" menu in the navigation bar. As shown in the below figure:



9.8.2 Voice VLAN Port Setting

Enable Voice VLAN on the port

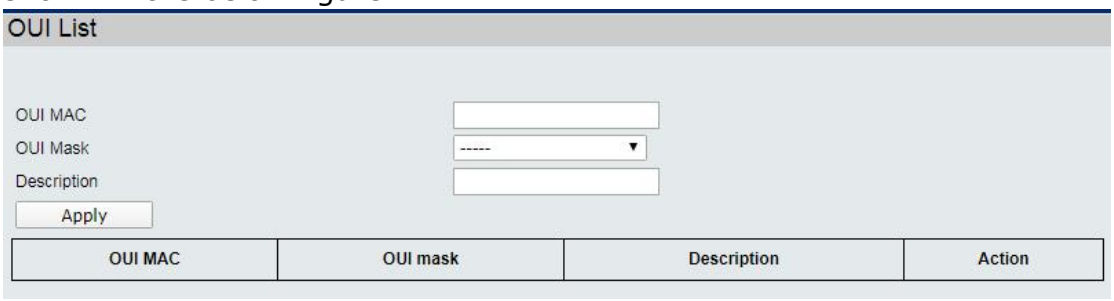
1 Click the " Advanced Features > Voice VLAN Setting> Voice VLAN Port Setting" menu in the navigation bar. As shown in the below figure:



9.8.3 OUI List

Set the OUI list globally

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



9.9 LLDP

9.9.1 LLDP Global Setting

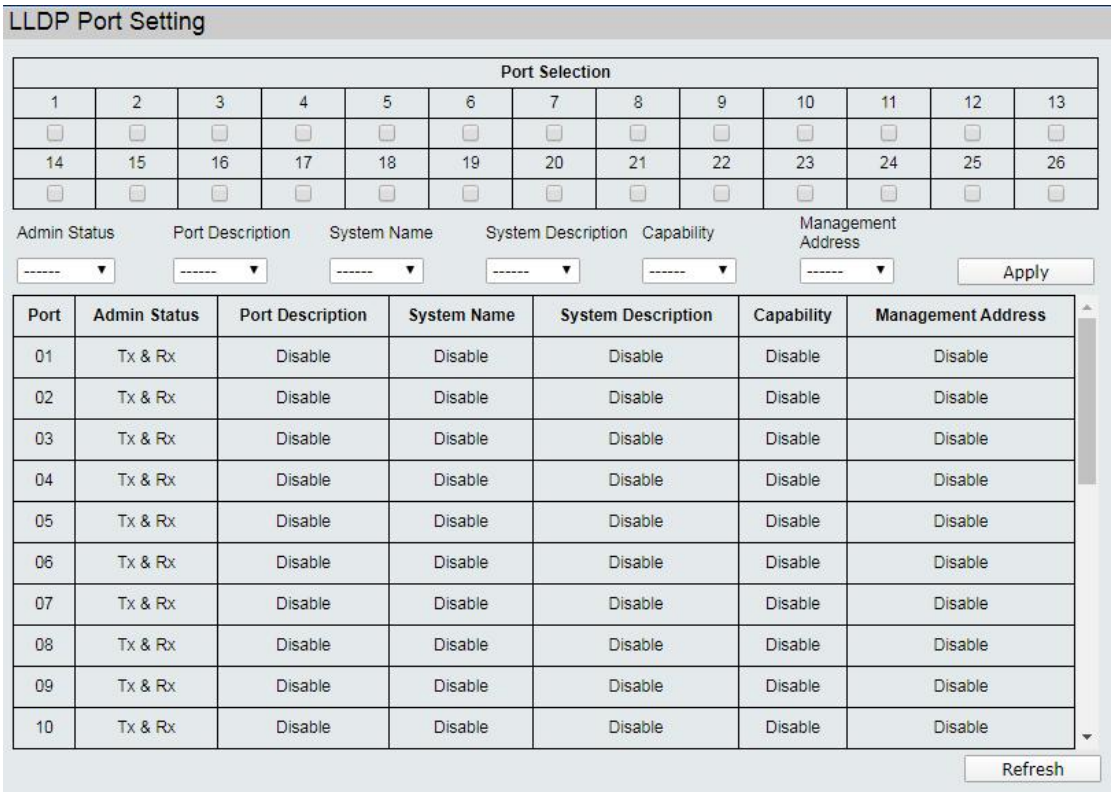
Enable or disable LLDP in global mode

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

9.9.2 LLDP Port Setting

Enable or disable LLDP on the port

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



10 Monitoring

10.1 Mib Counter

Check the traffic statistics on the port

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

Mib Counter

Port NO	Receive		Transmit		Action	
	Packets	Bytes	Packets	Bytes		
01	0	0	0	0	Detail	
02	0	0	0	0	Detail	
03	0	0	0	0	Detail	
04	0	0	0	0	Detail	
05	0	0	0	0	Detail	
06	0	0	0	0	Detail	
07	0	0	0	0	Detail	
08	3288	368371	97253	10616165	Detail	
09	0	0	0	0	Detail	
10	0	0	0	0	Detail	
11	107702	11950825	17549	10528028	Detail	
12	0	0	0	0	Detail	
13	0	0	0	0	Detail	
14	0	0	0	0	Detail	

Refresh Clear

10.2 Scan MACID Lookup Table

Check the mac address of the port

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

Scan MACID Lookup Table

MAC Table Clear

Port Selection												
1	2	3	4	5	6	7	8	9	10	11	12	13
14	15	16	17	18	19	20	21	22	23	24	25	26

All clear Apply

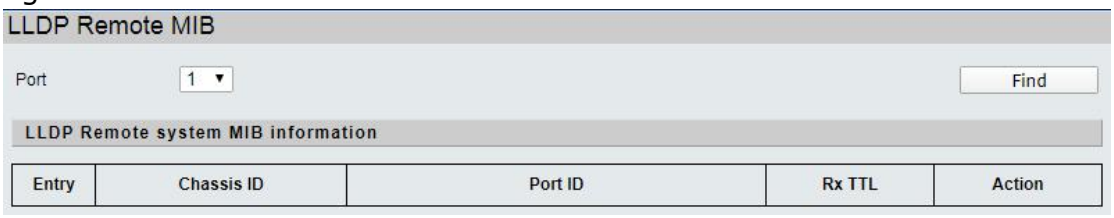
MAC Table Monitor

Entry number: 65 Refresh

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

10.3 LLDP Remote MIB

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



10.4 Syslog

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

10.5 CPU Resource Utilization

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

CPU Resource Utilization

Free Memory :	3308K
CPU Usage :	18%

Update on 10th April 2019