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Niveo Professional Broadcast, SDVoE and Data Centre Switches

SWITCH WEB GUIDE

Issue V3.0.21

N400GSM32
32 × 400G QSFP112 L3 fiber switch, dual power supplies, six fan modules

N100GSM32
32 × 100G QSFP28 L3 fiber switch, dual power supplies, four fan modules

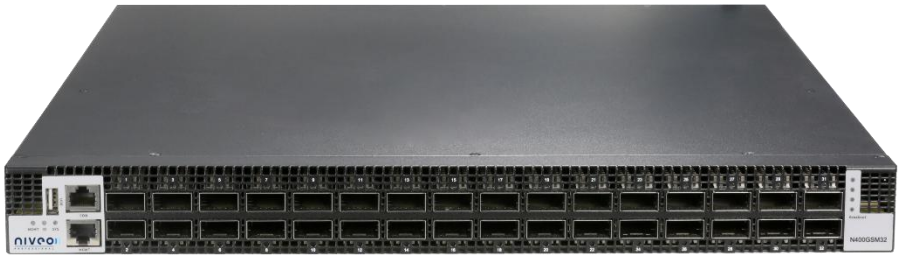
N25GSM8QF24
24 × 10G/25G SFP28, 8 × 40G/100G QSFP28, Layer 3 managed fiber switch

N25GSM8QF48
48 X 10G/25G SFP28,8x40G/100G QSFP28, L3 Management Fiber Switch

N10GSM8QF48
48 Port 10Gb SFP+ Fiber ports, 8* 100Gb QSFP28 Fiber ports, Layer 3 Mgt

N10GSM48X2Q
48P 10G Base-T L3 Managed Switch, 4 * 10G SFP+, 2*100G, SDVoE-ready

N10GSM24XP
24P 10G Base-T L3 Managed PoE++ Switch, 2*100G, SDVoE-ready



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Revision History

Date	Version	Description
2025-11-28	V3.0.21	Initial Release

1 Preface

1.1 Declaration

This document updates at irregular intervals because of product upgrade or other reason.

This document is for your reference only.

1.2 Suggestion feedback

If you have any questions when using our product and reading this document, please contact us.

1.3 Audience

This document is for the following audiences:

- System maintenance engineers
- Debugging and testing engineers
- Network monitoring engineers
- Field maintenance engineers

2 WEB login

2.1 Overview

This chapter describes how to configure the switch to start the Web management function.

2.2 Manage network port IP address and gateway configuration

Before you can manage the switch through the Web, you need to configure the IP address and gateway of the management network port through the command line. E.g :

```
Switch(config)# management ip address 10.13.33.153/21
Switch(config)# management route add gateway 10.13.39.254
```

NOTE The default IP address is 192.168.0.1

2.3 User account and password configuration

The user account and password for WEB management need to be configured through the command line. E.g:

```
Switch (config)#username admin privilege 4 password admin
```

NOTE The default user and password is admin, admin

2.4 Web page login

Open the browser (not recommended to use IE), enter the switch management address, login page shown in Figure.

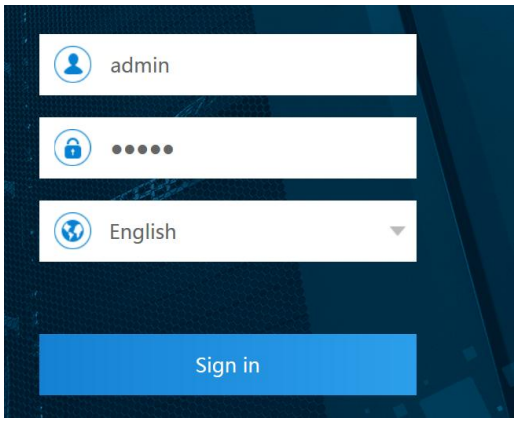


Figure 2-1 login page

In the login page, enter the user name and password you have created, click "Login", then enter the main page, as description in the chapters "monitoring".

3 Main Page

3.1 Overview

This chapter describes top-control-bar, navigation-bar, the display items of the main page (i.e. the monitoring page) and their parameters, including the interface panel, device information, device usage, device temperature and fans.

3.2 Top Control Bar

The top control bar is at the top of main page, as shown in figure below.



Figure 3-1 Top Control Bar

Parameter description, as shown in table below.

Table 3-1 Parameter description about top control bar

Parameter item	Description
1	The product ID （According to the actual product）
2	Monitor(i.e. Main page) module
3	Configuraion module
4	FastConfig Used to configure commonly used parameters related to ports.
5	Maintenance module

6	Network module
7	Save configuration
8	The name of user
9	Logout

3.3 Navigation Bar

Click “Configuration”、“Maintenance” or “Network” button at “Top Control Bar” to entry corresponding module page. The corresponding module navigation bar is at left on the page, as shown in figure below.

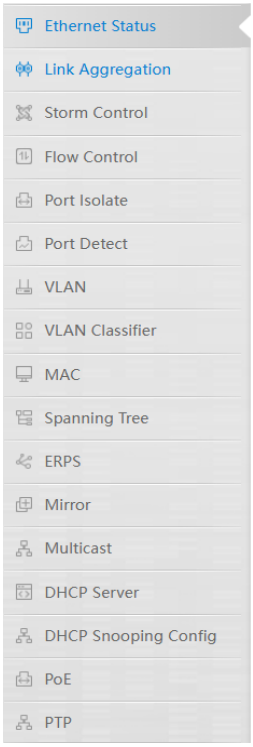


Figure 3-2 Configuration Module Navigation Bar

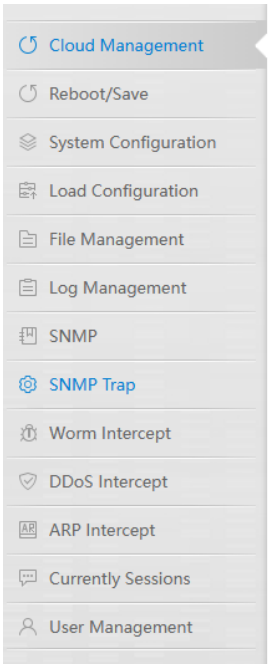


Figure 3-3 Maintenance Module Navigation Bar

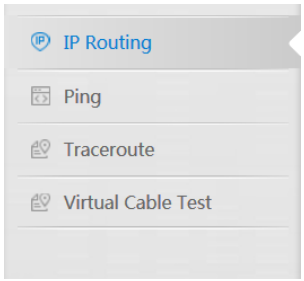


Figure 3-4 Network Module Navigation Bar

3.4 monitor

The part of monitoring in the main page, as shown in figure below.

Figure 3-5 monitoring

Parameter description, as shown in table below.

Table 3-2 Parameter description about monitoring

Parameter	Description
Monitor	The monitor field
Auto refresh	the interval of auto refresh, including 30、60、180 seconds or manual refresh
Refresh	Manual refresh button

3.5 Interface Panel

Interface panel, as shown in figure below.

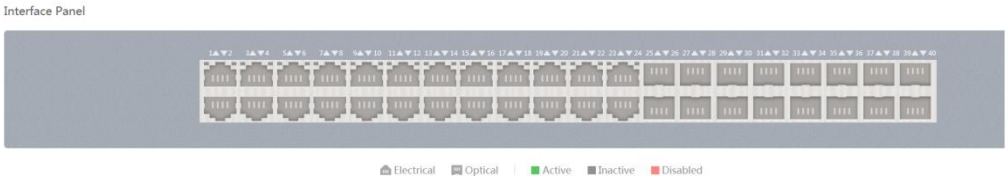


Figure 3-6 Internal Panel

The ports on the page correspond to the actual physical ports on the switch, while distinguishing between optical and electrical ports. The status of the port is distinguished by the color of the picture, including “Active”, “Inactive” and “Disabled”.

The actual port layout is according to the product ID.

3.6 Device Infomation

Device infomation, as shown in figure below.

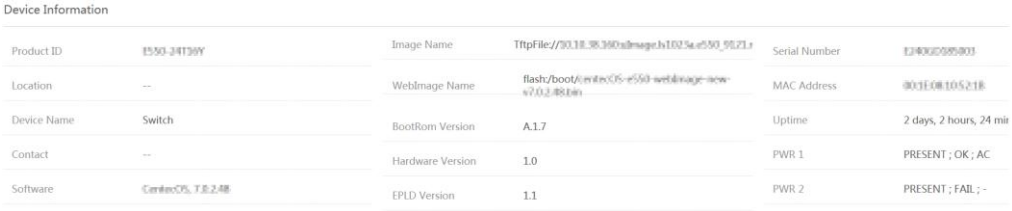


Figure 3-7 Device Infomation

Parameter description, as shown in table below.

Table 3-3 Parameter description about device information

Parameter Item	Description	Parameter Item	Description	Parameter Item	Description
Product ID	The hardware product of the switch	Image Name	The name of the boot image	Serial Number	Indicate the serial number of the switch
Location	Indicate the location of the switch	WebImage Name	The name of the web image	MAC Address	The system mac of the switch
Device Name	Indicate the hostname of the switch	BootRom Version	Indicate the BootRom version of the switch	Uptime	Indicate the uptime of the switch
Contact	Indicate the contact of the switch	Hardware verison	Indicate the hardware version of the switch	PWR1	The status of power1
Software	The software version of the switch	EPLD Version	Indicate the EPLD version of the switch	PWR2	The status of power2

3.7 Device Usage

The Usage shows the current status infomation of the cpu usage and memory usage, as shown in figure below.

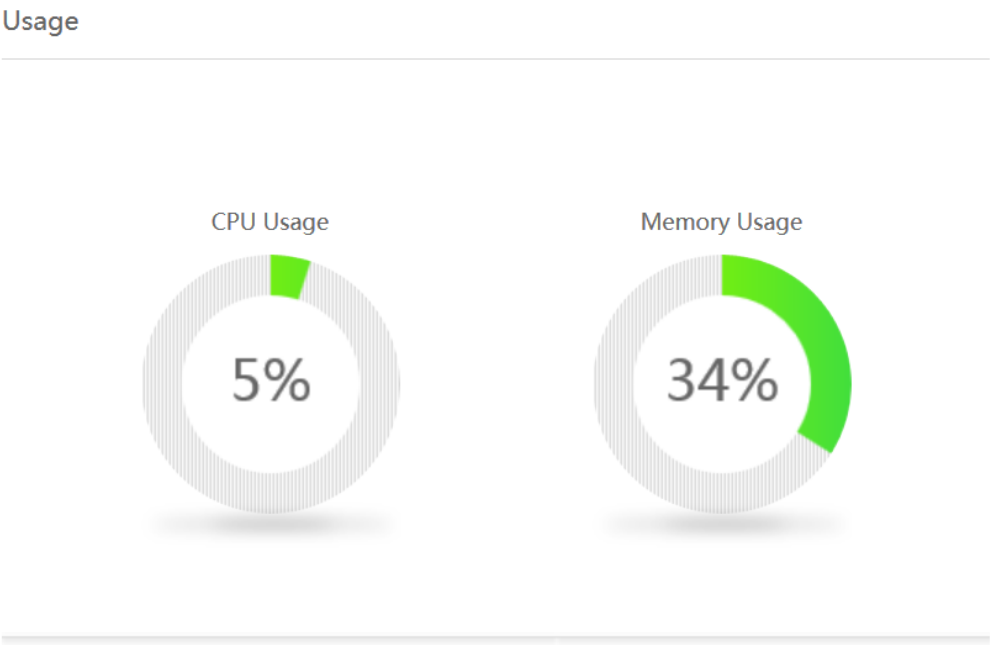


Figure 3-8 Device Usage

3.8 Device Temprature

The Temperature shows the current status information of the device temperature, as shown in figure below .

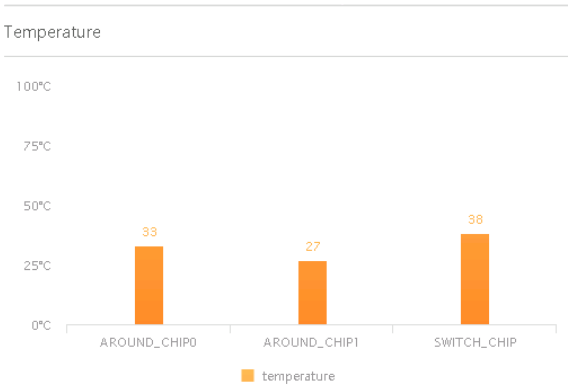


Figure 3-9 Device Temprature

3.9 Fan

The Fan shows the current status ratio of the speed of revolution than their maximum. The status of the port is distinguished by the color of the picture, the color green indicates normal, the red exceptional, as shown in figure below.

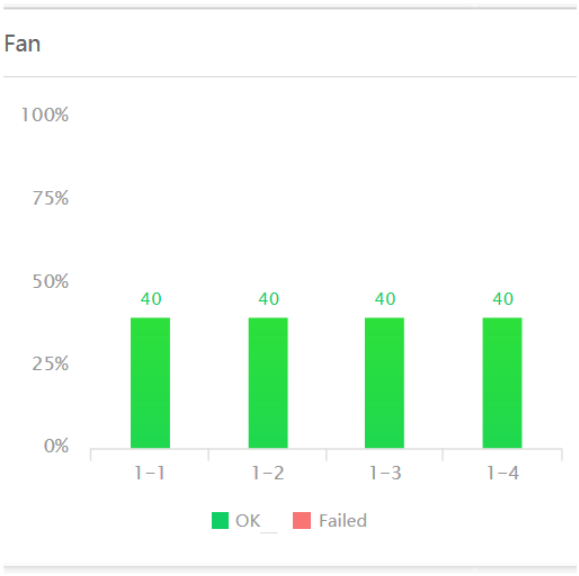


Figure 3-10 Fan

4 Ethernet Status

4.1 Overview

This chapter mainly describes how to view and configure interfaces status and interfaces stats.

4.2 Ethernet Status

4.2.1 Ethernet Status Main Page

Click “Configuration->Ethernet Status” to enter “Ethernet Status” main page, and it shows each port status of this switch, as shown in figure below.

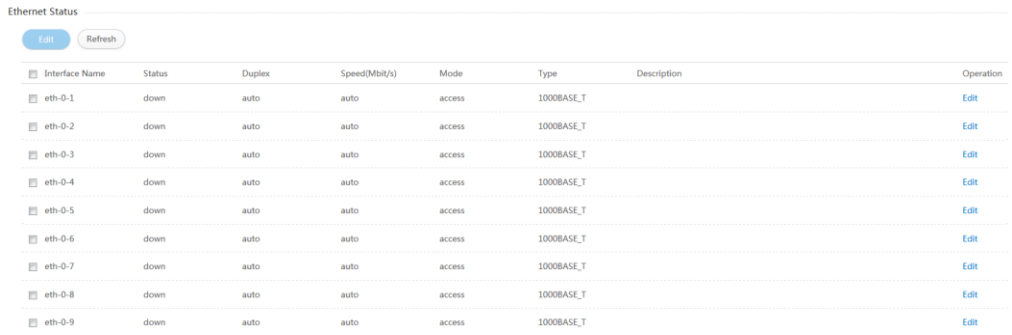


Figure 4-1 port status

Parameter description, as shown in table below.

Table 4-1 Parameter description about Ethernet Status

Parameter	Description
Edit	Configure the selected port
Refresh	Refresh the status of ethernet

Interface Name	The name of interface（According to the actual product）
Status	The status of ports (up or down)
Duplex	The duplex of ports （auto、full or half）
Speed	The speed of ports（auto、10M、100M 、 1000M 、 2.5G 、 5G 、 10G 、 25G、40G、50G、100G）
Mode	The working mode of ports（L2 mode access、L2 mode trunk or L3 mode）
Type	The type of ports
Description	Description about ports.
Operation	Configure single port

4.2.2 Interface Management

Click “Configuration->Ethernet Status” to enter “Ethernet Status” main page. Then select the corresponding interface checkbox and click “Edit” button to enter the “Interface Management” page, as shown in figure below.

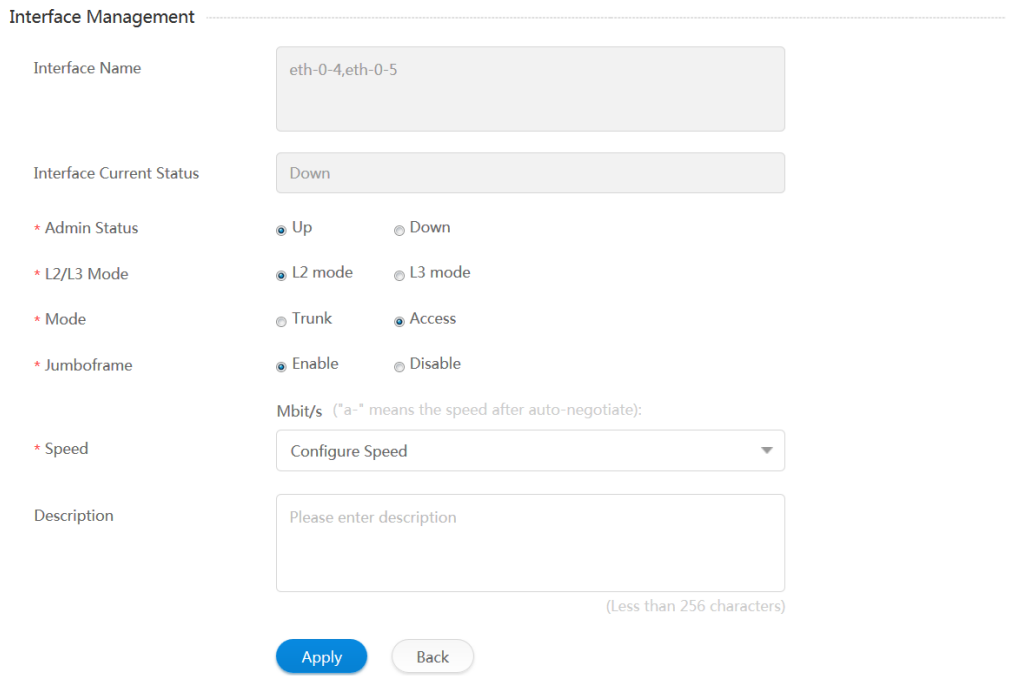


Figure 4-2 Interface Management

Parameter description, as shown in table below.

Table 4-2 Parameters description about interface management

Parameter	Description
Inteface Name	selected interface name
Interface Current Status	the interface current status. Including Up or Down
Admin Status	Administrate the status of ports, Up or Down
L2/L3 Mode	Under L2 mode can select Trunk mode or Access mode, while under L3 mode can't select Mode
Jumboframe	Whether receive the jumboframe or not.
Speed	Configure the speed of ports including auto、10M、100M、1000M、2.5G、5G、10G、25G、40G、50G、100G
Description	Description about this management
Apply	Apply to make the configuration effective and return to "Ethernet Status" page
Back	Back to "Ethernet Status" main page.

4.3 Ethernet Stats

4.3.1 Ethernet Stats Main Page

Click "Configuration->Ethernet Status->Ethernet Stats" to entry "Ethernet Stats" page, as shown in figure below.

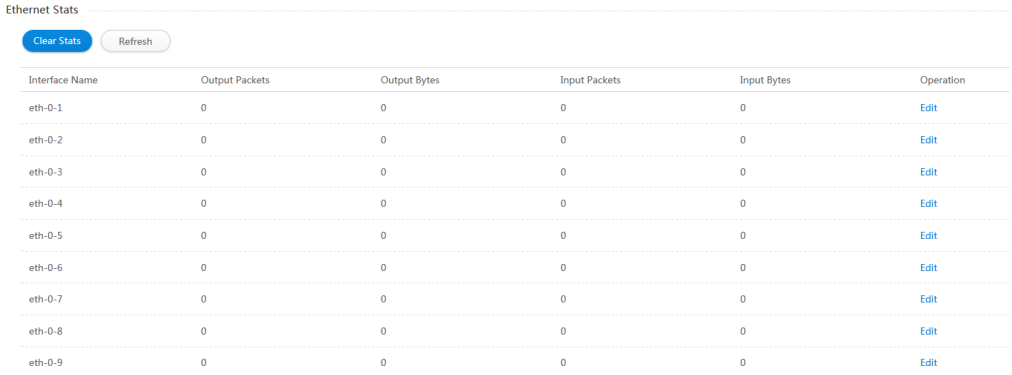


Figure 4-3 Ethernet Stats

Parameter description, as shown in table below.

Table 4-3 Parameter description about ethernet stats

Parameter	Description
Clear Stats	Clear all interfaces' stats
Refresh	Refresh the stats.
Interface Name	The name of interface（According to the actual product）
Output Packets	Output stats in packet
Output Bytes	Output stats in byte
Input Packets	Input stats in packet
Input Bytes	Input stats in byte
Operation	View the stats in detail and refresh or clear the single port

4.3.2 Interface Stats Detail

Click "Configuration->Ethernet Status->Ethernet Stats" to entry "Ethernet Stats" page. Then click "Edit" to entry "Interface Stats Detail" page, as shown in figure below.

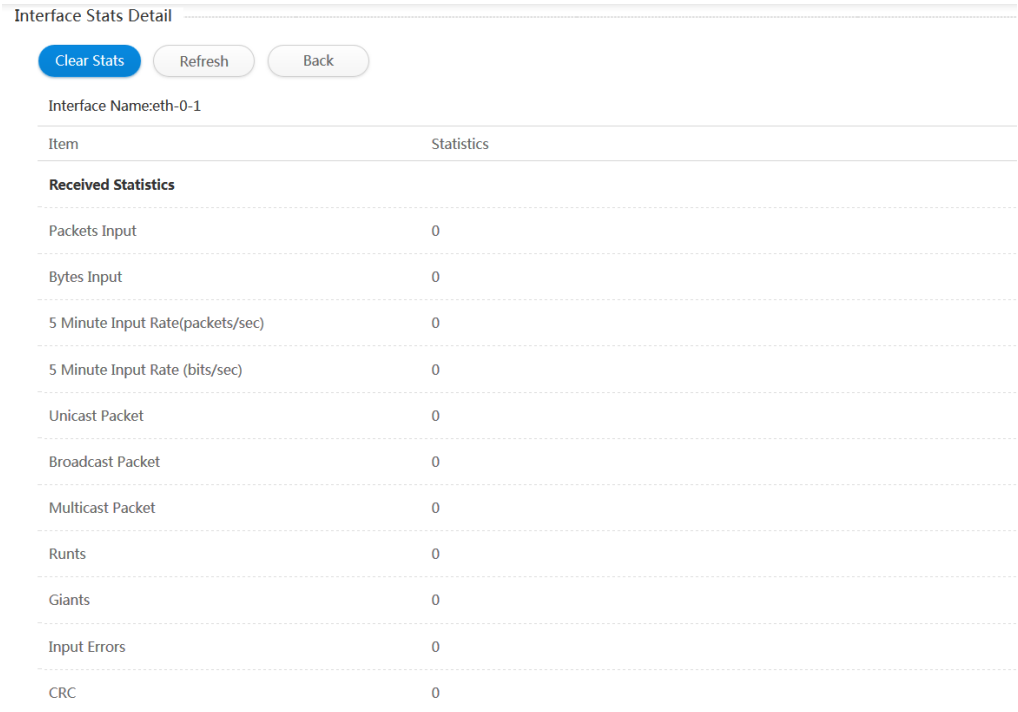


Figure 4-4 Interface Stats Detail



Figure 4-5 Interface Stats Detail Attach

This page records the stats about receiving and sending packets in detail.

5 Link Aggregation

5.1 Overview

This chapter main describes how to view and configure link aggregation port.

5.2 Global

Click "Configuration->Link Aggregation->Global" to entry "Global" page, as shown in figure below.

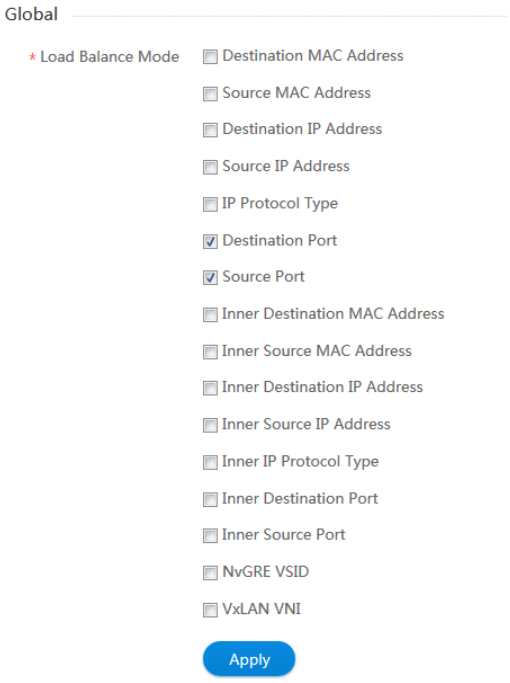


Figure 5-1 Global Config

Parameter description, as shown in table below.

Table 5-1 Parameter description about global configuration

Parameter	Description
Load Balance Mode	According to selected checkbox, various load balance rules are executed
Apply	Apply to make the configuration effective

5.3 Link Aggregation

5.3.1 Link Aggregation Main Page

Click "Configuration->Link Aggregation->Link Aggregation" to entry "Link Aggregation" page, as shown in figure below.

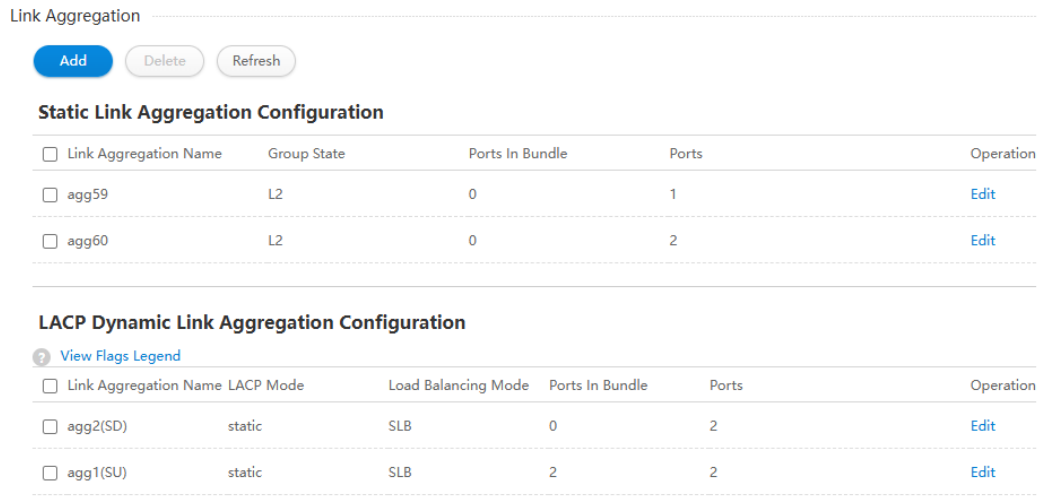


Figure 5-2 Link Aggregation

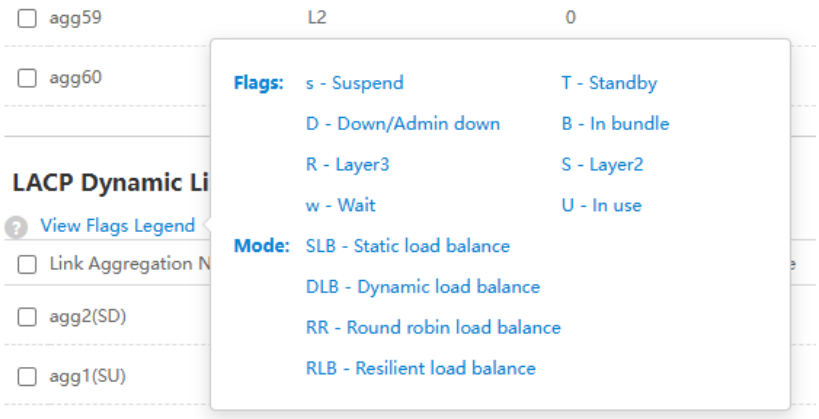
Parameter description, as shown in table below.

Table 5-2 Parameter description about link aggregation

Parameter	Description
Add	Add a new link aggregation

Delete	Delete selected checkbox link aggregation
Refresh	Refresh the status of the link aggregation
Link Aggregation Name	The name of the link aggregation
Protocol	The protocol of link aggregation, “static” or “dynamic”
Group State	The status of the link aggregation
Ports In Bundle	Bind the link aggregation and mac address
Ports	The number of member port in this link aggregation
Operation	Configure this link aggregation
LACP Mode	LACP mode: Stitic or Dynamic. Dynamic mode is usually needed when the aggregation group is connected to the server.
Load Balance Mode	Load balance mode adopted by the LACP aggregation group.default:static

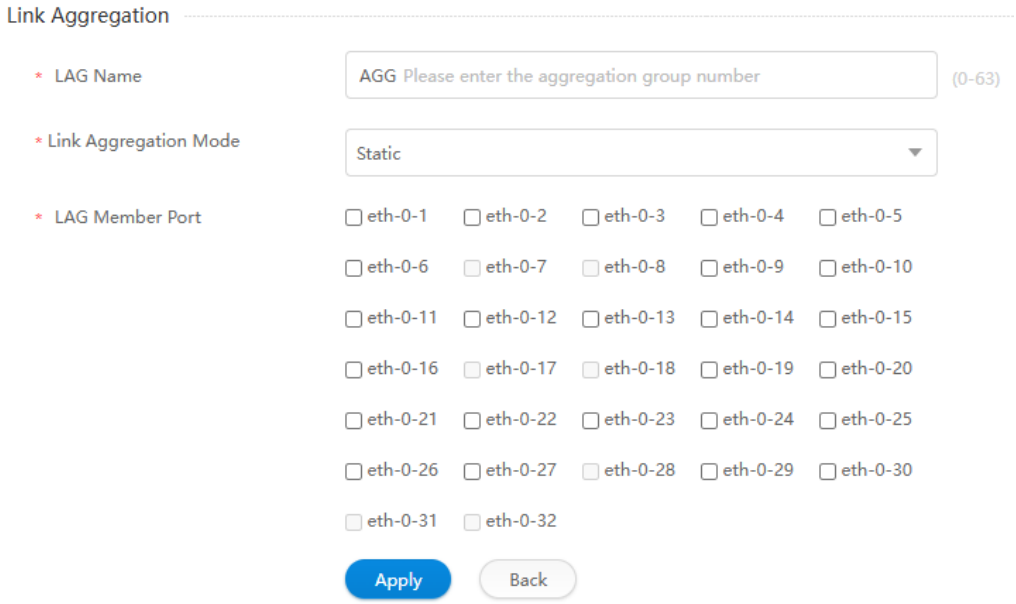
View Flags Legend:Placing the mouse over the label will display comments with abbreviations and identifiers floating.



5.3.2 Add Link Aggregation

Click "Configuration->Link Aggregation->Link Aggregation" to entry "Link Aggregation" page. Then click "Add" button to entry "Link Aggregation" page,You can choose to create static aggregation groups or LACP dynamic aggregation groups. as shown in figure below.

Choose the static binding method:



Choose LACP protocol for dynamic negotiation:

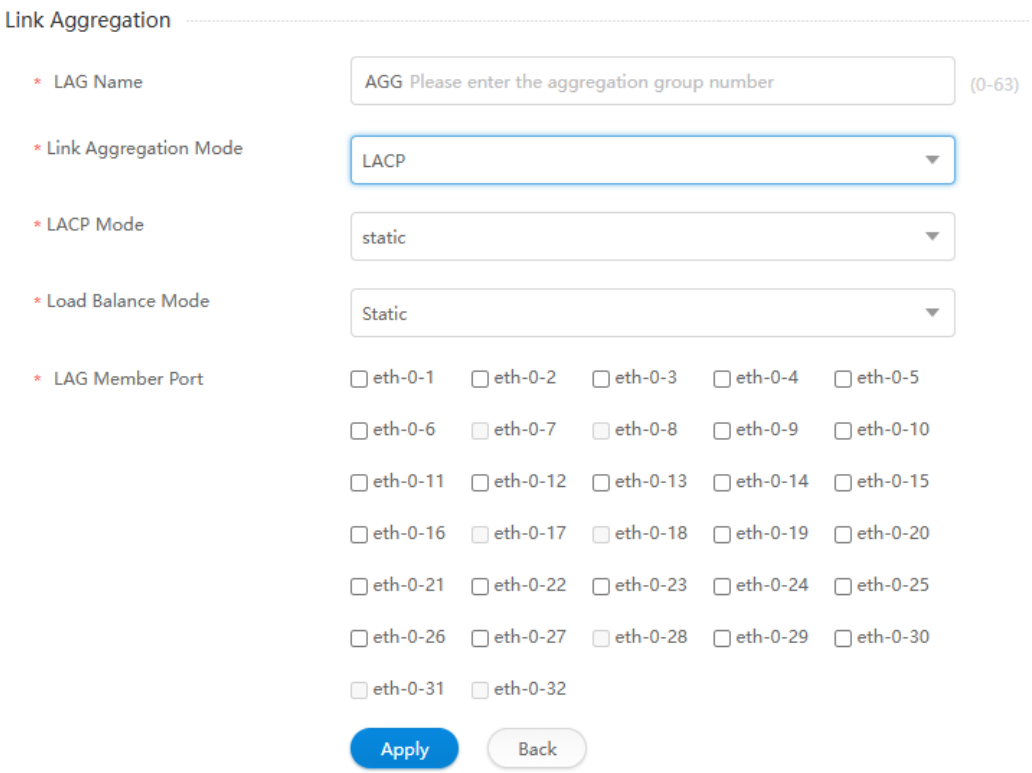


Figure 5-3 Add Agg

Parameter description, as shown in table below.

Table 5-3 Parameter description about adding a link aggregation

Parameter	Description
LAG Name	The prefix is fixed by agg, and valid range is 0-63（According to the actual product）
Link Aggregation Mode	Static binding or dynamic negotiation using LACP protocol.
LAG Member Port	Select the checkbox to add corresponding member port（According to the actual product）
LACP Mode	LACP mode: Stitic or Dynamic. Dynamic mode is usually needed when the aggregation group is connected to the server.

Load Balance Mode	Load balance mode adopted by the LACP aggregation group.default:static
Apply	Apply to make the configuration effective and back to "Link Aggregation" page.
Back	Sack to "Link Aggregation" page.

5.3.3 Manage Link Aggregation

Click "Configuration->Link Aggregation->Link Aggregation" to entry "Link Aggregation" page. Then click a corresponding link aggregation "Edit" button to entry "Static Link Aggregation" page, as shown in figure below.

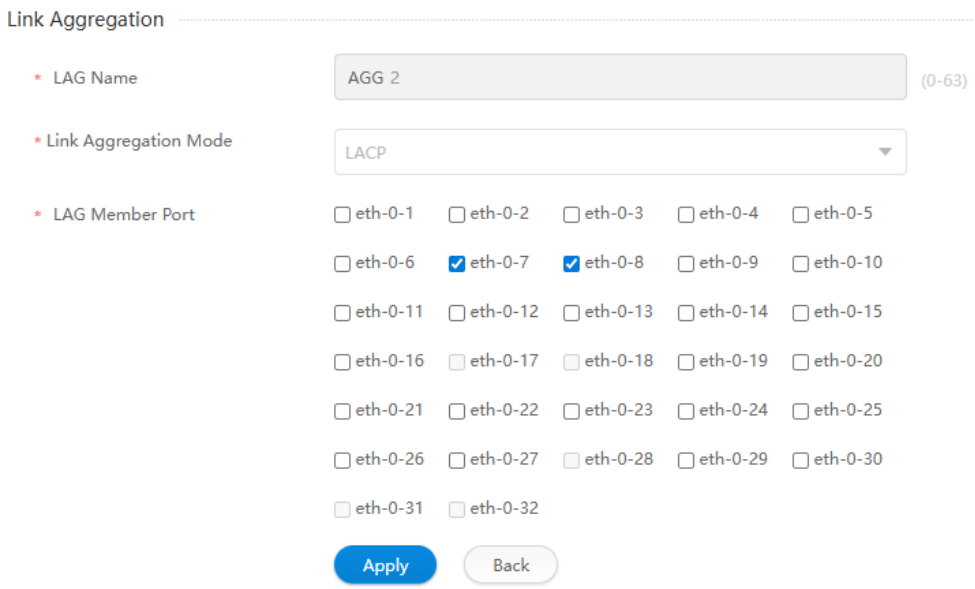


Figure 5-4 Configure Agg

Parameter description, as shown in table below.

Table 5-4 Parameter description about configuring a link aggregation

Parameter	Description
LAG Name	The name of link aggregation, can not change（According to the actual product）
Link Aggregation Mode	Static binding or dynamic negotiation using LACP protocol.
LAG Member Port	Select the checkbox to change the member port（According to the actual product）
Apply	Apply to make the configuration effective and back to "Link Aggregation" page.
Back	Back to "Link Aggregation" page

6 Storm Control

6.1 Overview

This chapter mainly describes how to configure and view interface storm control.

6.2 View Storm Control

Click "Configuration->Storm Control" to entry "Storm Control" main page, as shown in figure below.

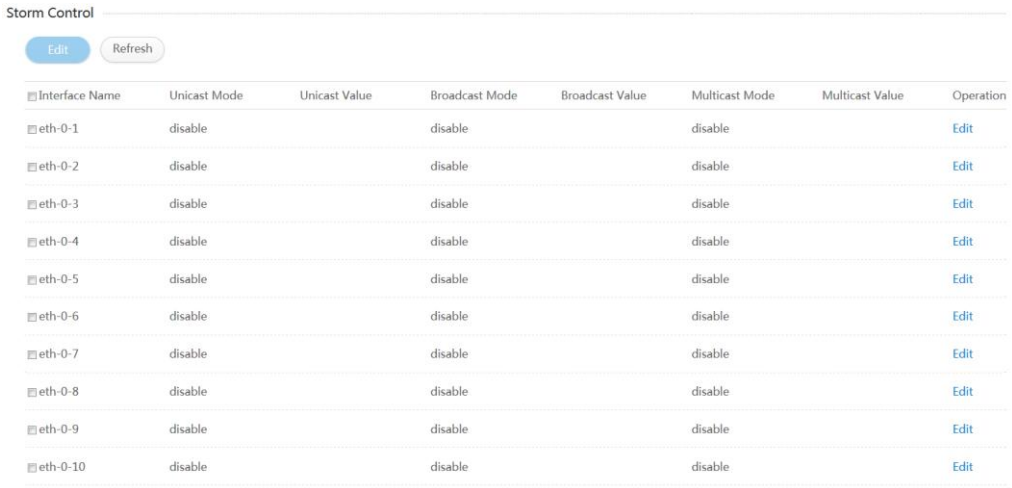


Figure 6-1 View Storm Control

Parameter description, as shown in table below.

Table 6-1 Parameter description about storm control page

Parameter	Description
Edit	Configure the selected checkbox

Refresh	refresh the status of interfaces
Interface Name	The name of interface
Unicast Mode	Display the unicast storm control mode, including “disable”、“PPS” or “level”
Unicast Value	Display the unicast storm control value. PPS: 0-1000000000, Level:0.00-100.00
Broadcast Mode	Display the broadcast storm control mode, including “disable”、“PPS” or “level”
Broadcast Value	Display the broadcast storm control value. PPS: 0-1000000000, Level:0.00-100.00
Multicast Mode	Display the multicast storm control mode, including “disable”、“PPS” or “level”
Multicast Value	Display the multicast storm control value. PPS: 0-1000000000, Level:0.00-100.00
Operation	Configure single interface

6.3 Configure Storm Control

Click “Configuration->Storm Control” to entry “Storm Control” main page. Then select checkboxs and click “Edit” button or click “Edit” button under “Operation” field to entry configuration “Storm Control” page , as shown in figure below.

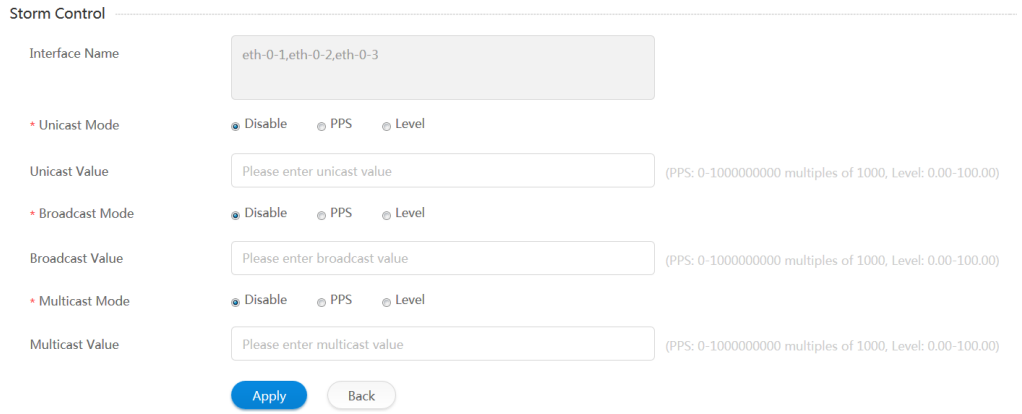


Figure 6-2 Edit Storm Control

Parameter description, as shown in figure below.

Table 6-2 Parameter description about editing storm control

Parameter	Description
Interface Name	The name of editing interfaces
Unicast Mode	Display the unicast storm control mode, including "Disable"、"PPS" and "Level"
Unicast Value	Display the unicast storm control value. PPS: 0-1000000000,Level:0.00-100.00
Broadcast Mode	Display the broadcast storm control mode, including "Disable"、"PPS" and "Level"
Broadcast Value	Display the braodcast storm control value. PPS: 0-1000000000, Level:0.00-100.00
Multicast Mode	Display the multicast storm control mode, including "Disable"、"PPS" and "Level"
Multicast value	Display the multicast storm control value. PPS: 0-1000000000, Level:0.00-100.00

Apply	Apply to make the configuration effective and back to “Storm Control” main page
Back	Back to “Storm Control” main page

7 Flow Control

7.1 Overview

This chapter mainly describe how to view and configure flow control.

7.2 View Flow Control

Click "Configuration->Flow Control" to entry "Flow Control" main page, as shown in figure below.

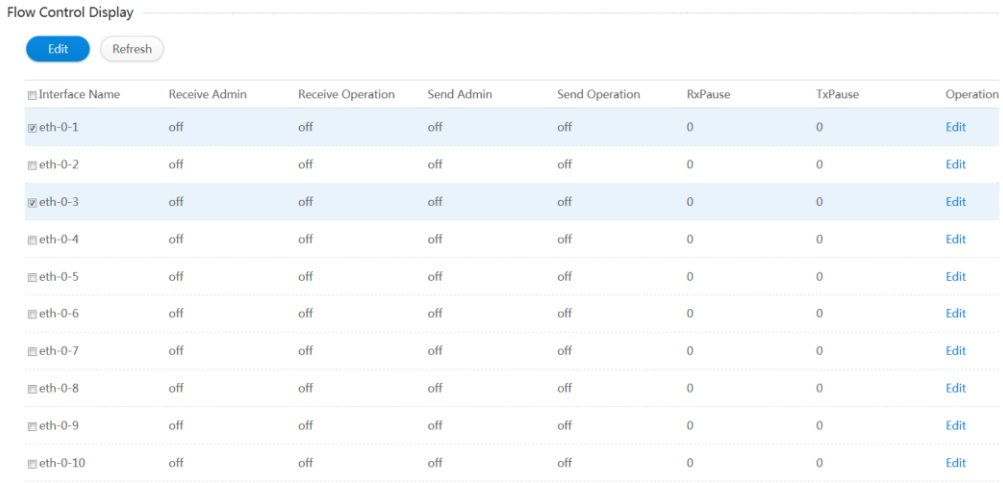


Figure 7-1 Flow Control Page

Parameter description, as shown in table below.

Table 7-1 Parameter description about flow control display

Parameter	Description
Edit	Edit seleted interfaces
Refresh	Refresh the status of flow control

Interface Name	The name of interface
Receive Admin	The status of receiving configuration, “on” or “off”
Receive Operation	The status of receiving, “on” or “off”
Send Admin	The status of sending configuration, “on” or “off”
Send Operation	The status of sending, “on” or “off”
RxPause	The number of RxPause
TxPause	The number of TxPause
Operation	Configure some interface

7.3 Configure Flow Control

Click “Configuration->Flow Control” to entry “Flow Control” main page. Then click “Edit” button to configure selected interfaces or click “Edit” button corresponding to some port to entry “Flow Control Configuration” page, as shown in figure below.

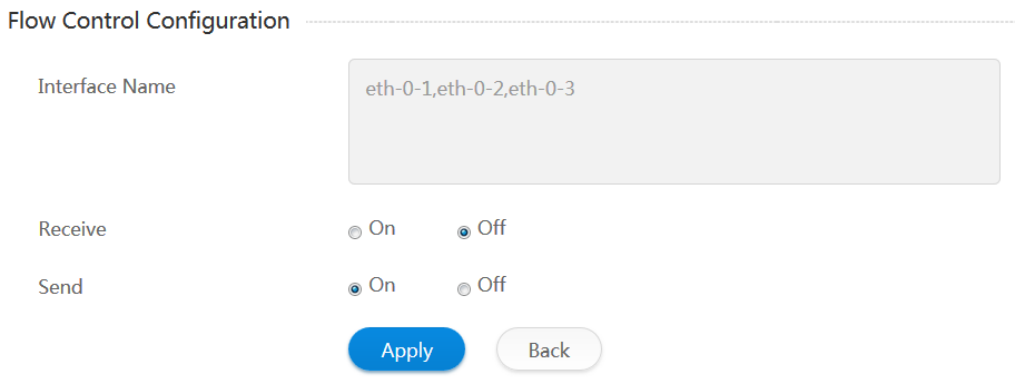


Figure 7-2 Configure Flow Control Page

Parameter description, as shown in table below.

Table 7-2 Parameter description about configuring flow control

Parameter	Description
Interface Name	The name of configuring interface
Receive	Configure the status of Receive Admin, on or off
Send	Configure the status of Send Admin, on or off
Apply	Apply to make the configuration effective and back to "Flow Control" main page
Back	Back to "Flow Control" main page

8 Port Isolate

8.1 Overview

This chapter describe how to configure and view the status of port isolate.

8.2 Global

Click “Configuration->Port Isolate->Global” to entry “Global” page, as shown in figure below.

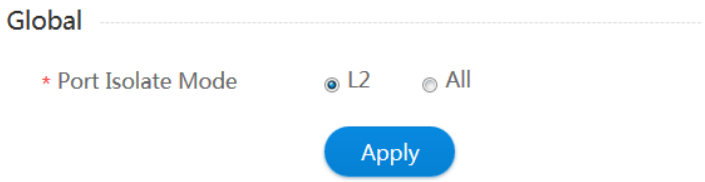


Figure 8-1 Global Configure

Parameter description, as shown in table below.

Table 8-1 Parameter description about globle configuration of port isolate

Parameter	Description
Port Isolate Mode	Configure port isolate mode, L2 or ALL
Apply	Apply to make the configuration effective

8.3 Port Isolate

Click “Configuration->Port Isolate->Port Isolate” to entry “Port Isolate” page, as shown in figure below.

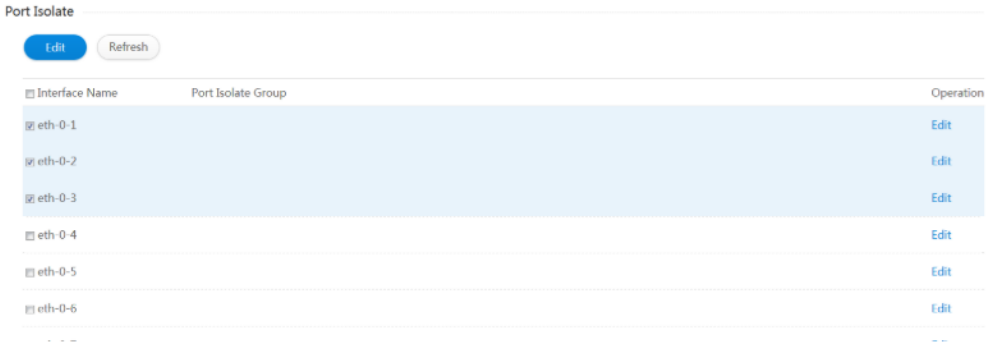


Figure 8-2 Port Isolate Port Configuration

Parameter description, as shown in table below.

Table 8-2 Parameter description about port isolate

Parameter	Description
Edit	Configure the selected interfaces, select Interface Name indicates selects all
Refresh	Refresh the status of port isolate
Interface Name	The name of interface
Port Isolate Group	This port belongs to some port isolate group
Operation	Configure single interface

8.4 Port Isolate Management

Click “Configuration->Port Isolate->Port Isolate” to entry “Port Isolate” page, select some interfaces and click “Edit” button or click “Edit” under “Operation” to entry “Port Isolate Management” page, as shown in figure below.

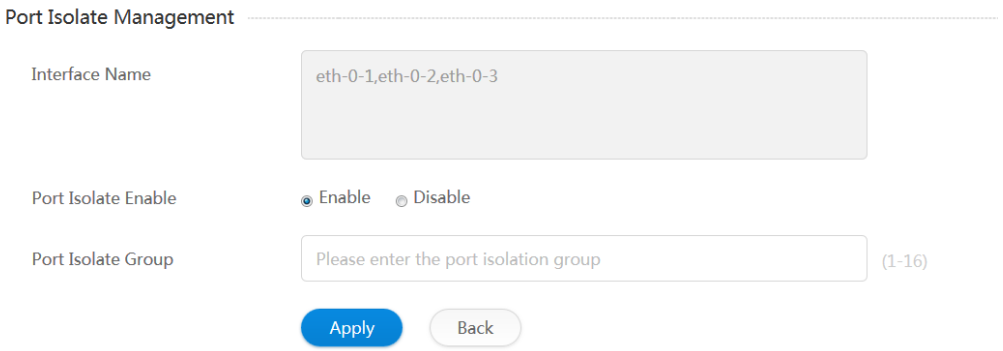


Figure 8-3 Port Isolate Management Page

Parameter description, as shown in table below.

Table 8-3 Parameter description about port isolate management

Parameter	Description
Interface Name	The name of managing interfaces
Port Isolate Enable	Port Isolate function, "Enable" or "Disable"
Port Isolate Group	If port isolate function is enable, which port isolate group the interface is designated to(1-16)
Apply	Apply to make the configuration effective and back to "Port Isolate" page
Back	Back to "Port Isolate" page

9 Port Detect

9.1 Overview

This chapter describes how to view and configure the port detect function.

9.2 Params Configuration

Click “Configuration->Port Detect” to entry “Port Detect” main page. On this page, you can manage Params Configuration and Detect Configuration.

Params Configuration is as shown in figure below.

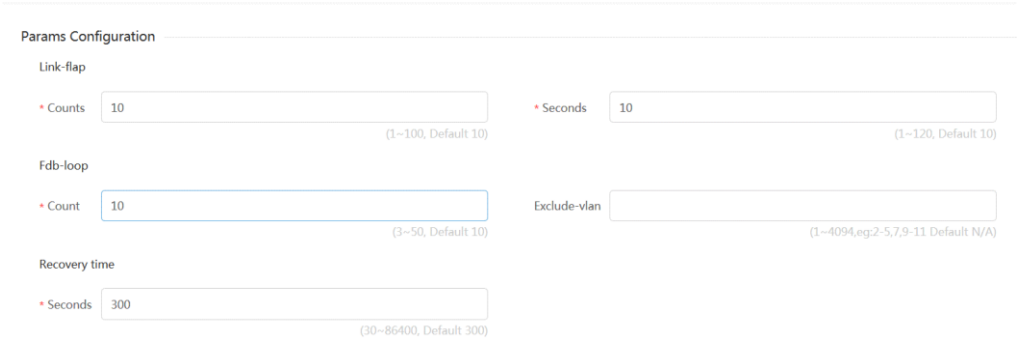


Figure 9-1 Params Configuration

Parameter description, as shown in table below.

Table 9-1 Parameter description about Params Configuration

Parameter	Description
Link-flap:Counts	In Link-flap parameter "Seconds" seconds, maximum port down or up counts. the range is in 1~100, and default is 10
Link-flap:Seconds	The period of link-flap, the range is in 1-120, default is 10
Fdb-loop:Count	The mac address flapping counts, the range is in 3-50, default is 10
Exclude-vlan	Do not record the exclude vlan the range count is in 1-4094, default is N/A
Recovery time:Secounds	The interval of recoverying errdisabled ports(30~86400, Default:300)

9.3 Detect Configuration

Click "Configuration->Port Detect" to entry "Port Detect" main page. On this page, Dropping down the scroll bar, Detect Configuration is as shown in figure below.

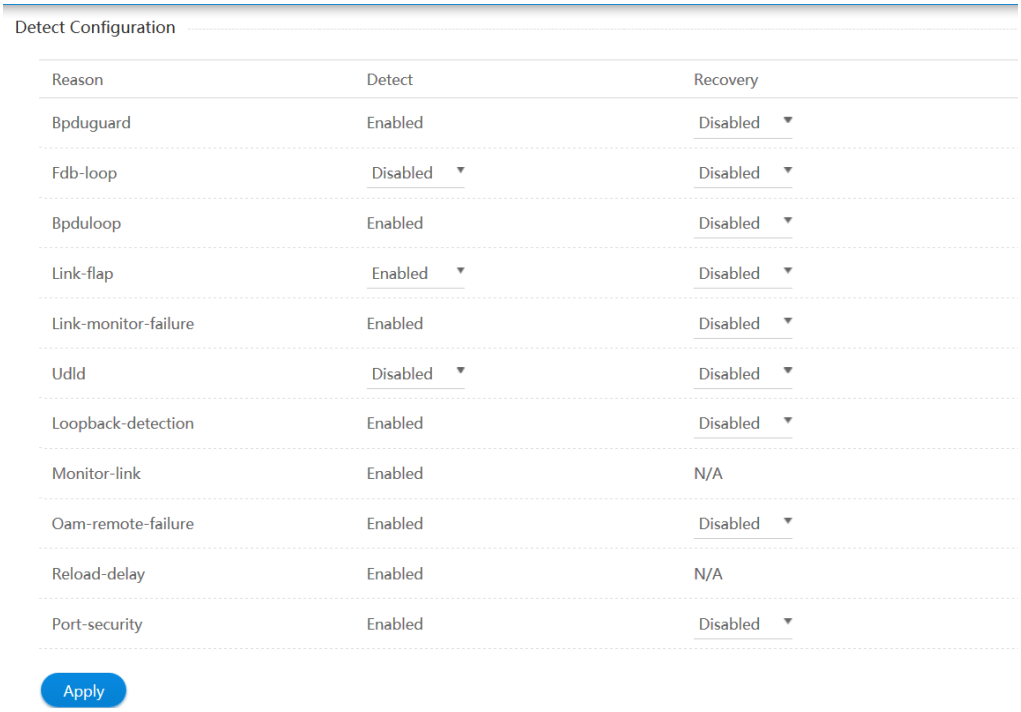


Figure 9-2 Detect Configuration

Parameter description, as shown in table blow.

Table 9-2 Parameter description about Detect Configuration

Parameter	Description
Reason	The name of port detect function
Detect	Whether the function is enabled or not, the no selectable function is always enabled
Recovery	When it triggers errdisabled, whether it can be auto-recoveryed, N/A indicates the reason make no effective on this function
Apply	Apply to make the configuration effective and Detect Configuration

10 VLAN

10.1 Overview

This chapter describes how to view and manage the status of “VLAN”, “VLAN IF” and “Access/Trunk Port”.

10.2 VLAN Summary

10.2.1 VLAN Summary Main Page

Click “Configuration->VLAN->VLAN Summary” to entry “VLAN Summary” main page, as shown in figure below.

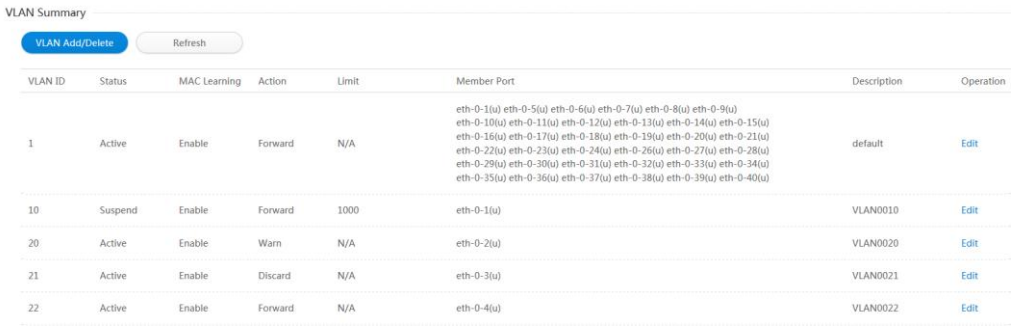


Figure 10-1 VLAN Summary page

Parameter description, as shown in table below.

Table 10-1 Parameter description about VLAN Summary

Parameter	Description
VLAN Add/Delete	Manage VLAN to add or delete it
Refresh	Refresh the status of VLAN Summary

VLAN ID	VLAN identifier
Status	The status of VLAN, “Active” or “Suspend”
MAC Learning	The function of MAC Learning, “Enable” or “Disable”
Action	When it comes to the number of maxium MAC Learning, it works. “Discard”, “Forward” or “Warn”
Limit	The number of maxium MAC learning，rang in 0-65535, default 0 means no limit
Member Port	The member ports are included by this VLAN
Description	Description about this VLAN
Operation	Configure single VLAN

10.2.2 Add/Delete VLAN Settings

Click “Configuration->VLAN->VLAN Add/Delete” to entry “Add/Delete VLAN & VLAN Range Settings” page, as shown in figure below.

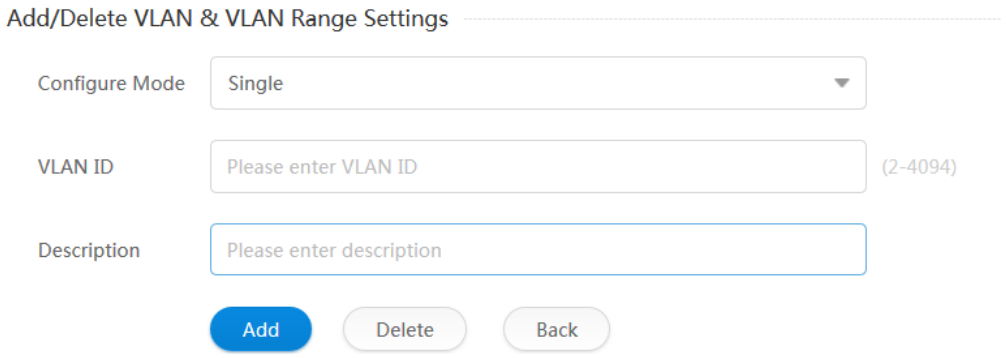


Figure 10-2 VLAN Add/Delete

Parameter descripiton, as shown in table below.

Table 10-2 Parameter description about Add/Delete VLAN

Parameter	Description
Configure Mode	Configure mode, "Singe" or "Range"
VLAN ID	The VLAN ID needs configuring, range in 2-4094
Description	If this configure is "Add", this is a description about it
Add	Add this VLAN and back to "VLAN Summary" page
Delete	Delete this VLAN and back to "VLAN Summary" page
Back	Back to "VLAN Summary" page

10.2.3 Add/Delete Vlan Range Settings

Click "Configuration->VLAN->VLAN Add/Delete" to entry "Add/Delete VLAN & VLAN Range Settings" page, and "Configure Mode" seletes "Range", as shown in figure below.

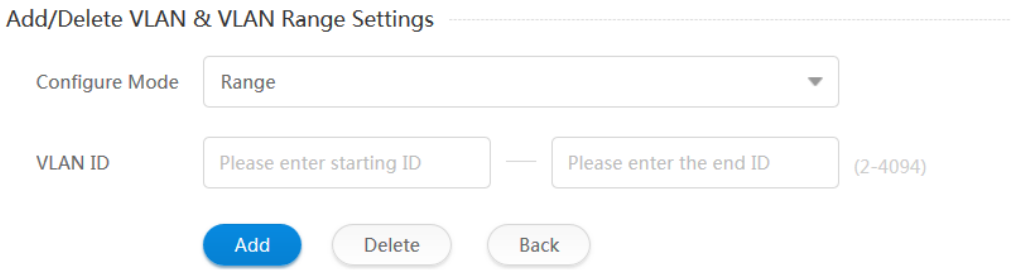


Figure 10-3 VLAN Add/Delete Range

Paramater description, as shown in table below.

Table 10-3 Parameter description about Add/Delete VLAN Range

Parameter	Description
Configure Mode	Configure mode, "Singe" or "Range"
VLAN ID	A series of VLAN ID(2-4094)

Add	Add this VLAN Range and back to "VLAN Summary" page
Delete	Delete this VLAN Range and back to "VLAN Summary" page
Back	Back to "VLAN Summary" page

10.2.4 VLAN Detailed Configuration

Click "Configuration->VLAN->VLAN Summary->Edit" to entry "VLAN Detailed Configuration" page, as shown in figure below.

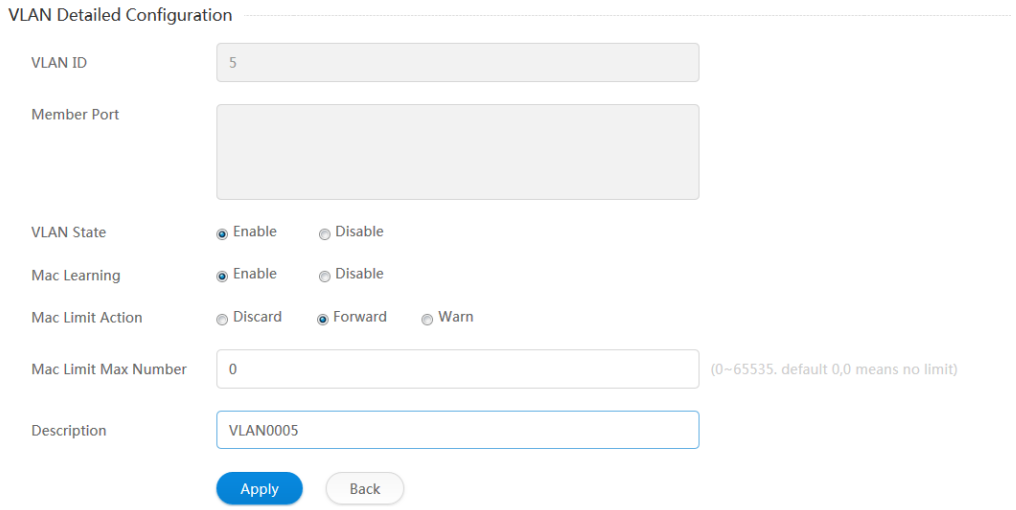


Figure 10-4 VLAN Detailed Configuration

Parameter description, as shown in table below.

Table 10-4 Parameter description about VLAN Detailed Configuration

Parameter	Description
VLAN ID	The configuring VLAN ID
Member Port	The Member Port of this VLAN
VLAN State	The working status of this VLAN, "Enable" or "Disable"
Mac Learning	Mac Learning function, "Enable" or "Disable"

Mac Limit Action	When it comes to the number of maximum Mac Limit items, it makes it different, “Discard”, “Forward” or “Warn”
Mac Limit Max Number	The number of maximum Mac Leaning item, range is in 0-65535, 0 indicates no limit
Description	Description about this VLAN
Apply	Apply to make the configuration effective and back to “VLAN Summary” page
Back	Back to “VLAN Summary” page

10.3 VLAN Interface

10.3.1 VLAN Interface Main Page

Click “Configuration->VLAN->VLAN Interface” to entry “VLAN Interface” page, as shown in figure below.

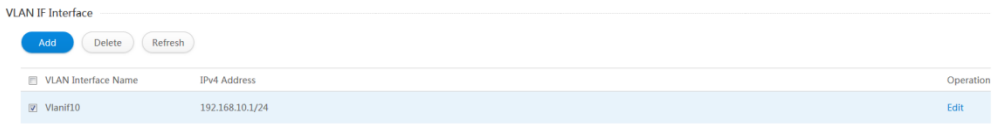


Figure 10-5 VLAN Interface

Parameter description, as shown in table below.

Table 10-5 Parameter description about VLAN Interface

Parameter	Description
Add	Add VLAN Interface
Delete	Delete selected VLAN Interface
Refresh	Refresh VLAN Interface
VLAN Interface Name	The name of VLAN Interface
IPv4 Address	Using dotted decimal

Operation	Configure this VLAN Interface

10.3.2 Add VLAN Interface

Click “Configuration->VLAN->VLAN Interface” to entry VLAN Interface page, as shwon in figure below.

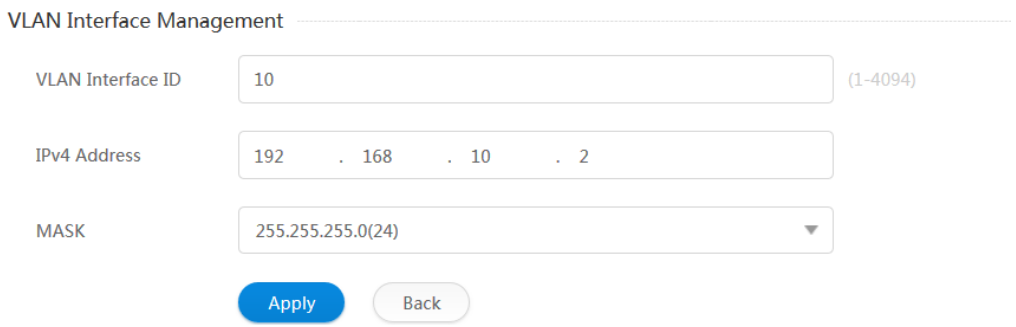


Figure 10-6 Add VLAN Interface

Parameter description, as shown in table below.

Table 10-6 Parameter description about Adding VLAN Interface

Parameter	Description
VLAN Interface ID	VLAN Interface Identifier,
IPv4 Address	Using dotted decimal
Mask	Mask, 0-32 bit(enable to select)
Apply	Apply to make the configuration effective and back to “VLAN Interface” page
Back	Back to “VLAN Interface” page

10.3.3 Delete VLAN Interface

Click “Configuration->VLAN->VLAN Interface” to entry VLAN Interface page. Then select the VLAN Interface you want to delete and Click “Delete” button to delete this VLAN Interface, as shown in figure below.

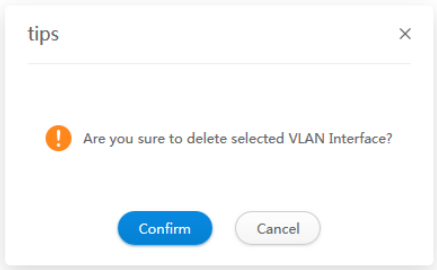


Figure 10-7 Delete vlanif interface

10.3.4 Edit VLAN Interface

Click "Configuration->VLAN->VLAN Interface", then click "Edit" button to entry "VLAN Interface Management" page, as shown in figure below.

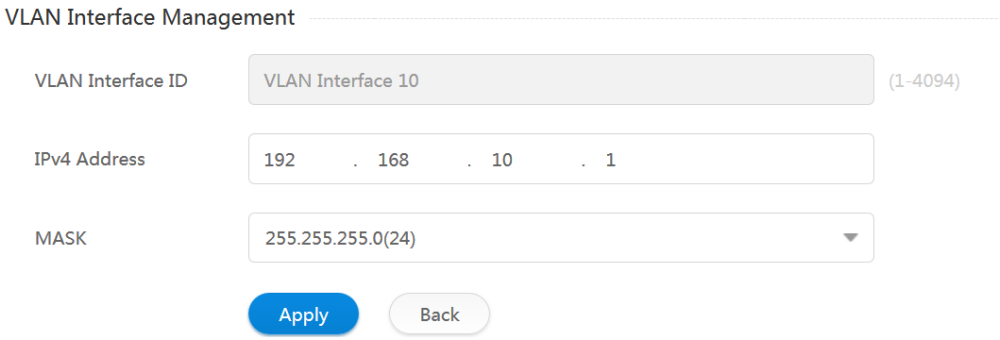


Figure 10-8 Config VLAN Interface

Parameter description, as shown in table below.

Table 10-7 Parameter description about Configuring VLAN Interface

Parameter	Description
VLAN Interface ID	VLAN Interface Identifier,
IPv4 Address	Using dotted decimal
Mask	Mask, 0-32 bit(enble to select)
Apply	Apply to make the configuration effective and back to "VLAN Interface" page

Back	Back to “VLAN Interface” page

10.4 Access/Trunk Port

10.4.1 Access/Trunk Port Main Page

Click “Configuration->VLAN->Access/Trunk Port” to entry “Access/Trunk Port” main page, as shown in figure below.

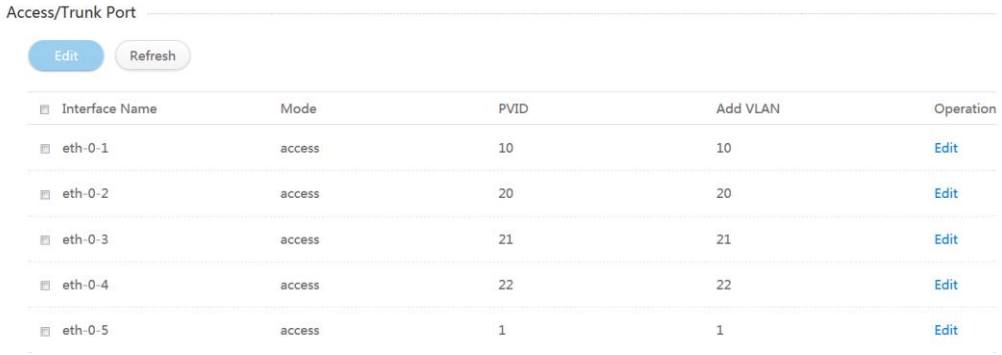


Figure 10-9 Acess/Trunk Port Page

Paramater description, as shown in table below.

Table 10-8 Parameter description about Access/Trunk Port

Parameter	Description
Edit	Configure the seleted ports
Refresh	Refresh the status of Access/Trunk Port
Interface Name	The name of interface
Mode	The mode of port, “access” or “trunk”
PVID	Port-base VLAN Identifier

Add VLAN	If the displayed link type is Trunk, VLAN ID or list is allowed to pass through the interface. If the displayed link type is Access, the VLAN ID that the interface belongs to, and the tagged or untagged frames received on the interface will be tagged with the VLAN ID
Operation	Config this VLAN Interface

10.4.2 Access/Trunk Port Modification

Click "Configuration->VLAN->Access/Trunk Port", Click "Edit" button to config selected interface, or dirctly click "Edit" button under "Operation" field to entry "Access/Trunk Port Modification" page, as shown in figure below.

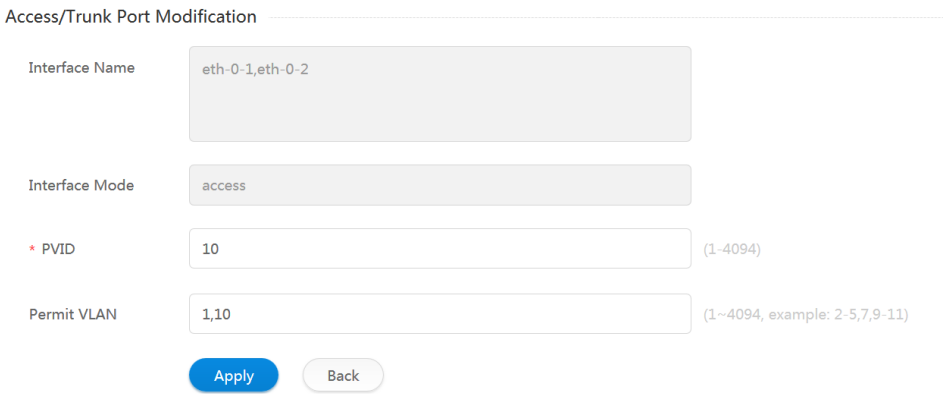


Figure 10-10 Access/Trunk Port Modification page

Parameter description, as shown in table below.

Table 10-9 Parameter description about Access/Trunk Port Modification

Parameter	Descripiton
Interface Name	The name of configuring ports
Interface Mode	The mode of interface, "access" or "trunk"
PVID	Port-base VLAN ID(1-4096)

Permit VLAN	VLAN permitted to pass(1~4094, example: 2-5,7,9-11)
Apply	Apply to make the configuration effective and back to “Access/Trunk Port” page
Back	Back to “Access/Trunk Port” page

11 VLAN Classifier

11.1 Overview

This chapter describes how to view and configure VLAN Classifier.

Click "Configuration->VLAN Classifier" to entry "VLAN Classifier" main page, as shown in figure below.

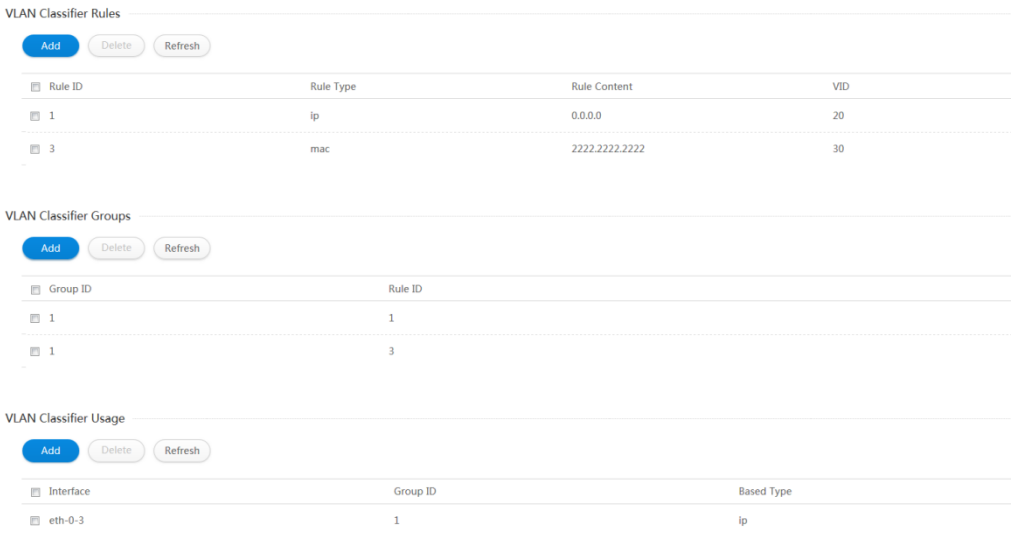


Figure 11-1 VLAN Classifier Main Page

Parameter description, as shown in table below.

Table 11-1 Parameter description about VLAN Classifier

Parameter	Description
VLAN Classifier Rules	Display infomation about VLAN Classifier Rules
VLAN Classifier Groups	Display infomation about VLAN Classifier Groups

VLAN Classifier Usage	Display infomation about VLAN Classifier Usage

11.2 Add VLAN Classifier Rules

Click “Configuration->VLAN Classifier” to entry “VLAN Classifier” main page, then click “Add” button in “VLAN Classifier Rules” bar to entry “VLAN Classifier Rule Settings” page, as shown in figure below.

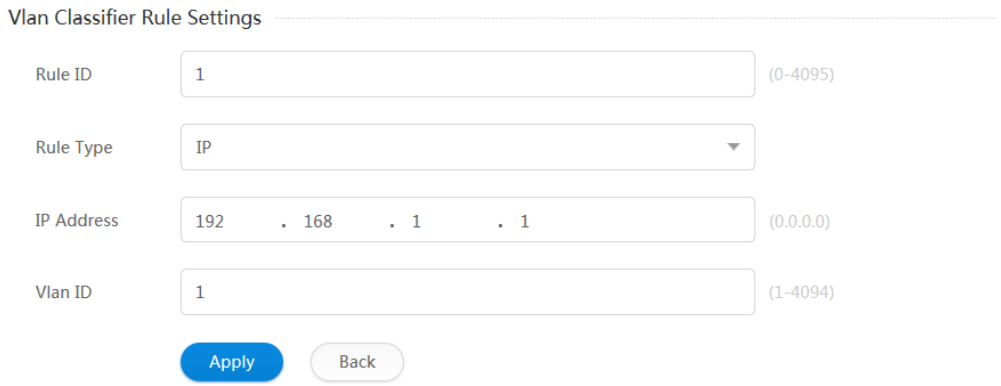


Figure 11-2 VLAN Classifier Rule Settings Page

Parameter description ,as shown in table below.

Table 11-2 Parameter description about VLAN Classifier Rule Settings

Parameter	Description
Rule ID	Rule Identifier(0-4095)
Rule Type	This type of rule, “IP”、“MAC” or “Protocol”
IP Address|MAC Address|Protocol	While the rule type is “IP”, input dotted decimal IPv4 addressWhile the rule type is “MAC”, input dotted hexadecimal MAC addressWhile the rule type is “Protocol”, including “arp”, “ip”, “mpls”, “mpls-mcast”, “pppoe” and “rarp”

VLAN ID	VLAN Identifier(1-4094)
Apply	Apply to make the configuration effective and back to "VLAN Classifier" main page
Back	back to "VLAN Classifier" main page

11.3 Delete VLAN Classifier Rules

Click "Configuration->VLAN Classifier" to entry "VLAN Classifier" main page. Select checkbox need to be deleted, in "VLAN Classifier Rules" bar, then click "Delete" button and "Confirm" to delete the rule, as shown in figure below.

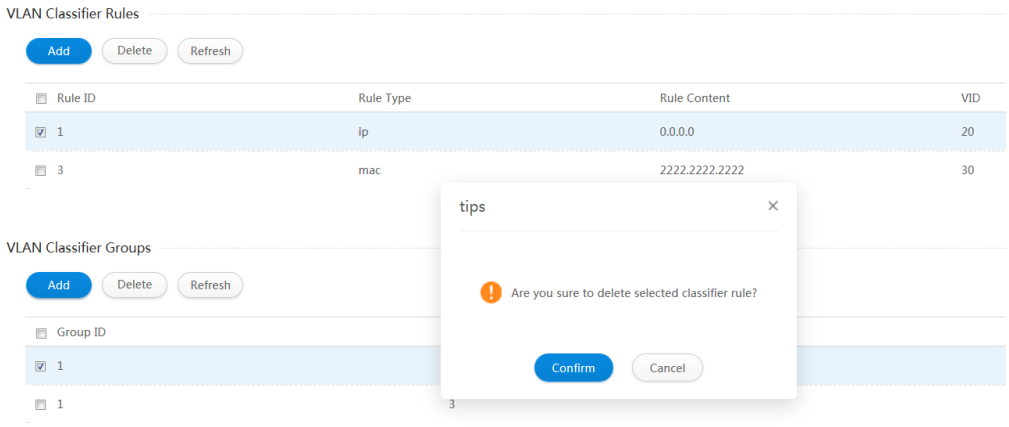


Figure 11-3 Delete VLAN Classifier Rules Page

11.4 Add VLAN Classifier Group

Click "Configuration->VLAN Classifier" to entry "VLAN Classifier" main page. Then click "Add" button in "VLAN Classifier Groups" bar to entry "VLAN Classifier Group Settings" page, as shown in figure below.

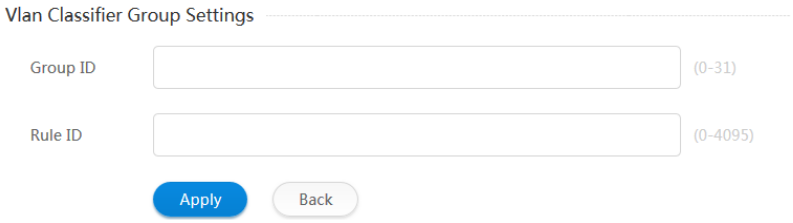


Figure 11-4 Add VLAN Classifier Groups Page

Parameter description, as shown in table below.

Table 11-3 Add VLAN Classifier Groups

Parameter	Description
Group ID	Group indentifier 0-31
Rule ID	Rule identifier 0-4095
Apply	Apply to make the configuration effective and back to "VLAN Classifier" main page
Back	back to "VLAN Classifier" main page

11.5 Delete VLAN Classifier Groups

Click "Configuration->VLAN Classifier" to entry "VLAN Classifier" main page. Then select the checkbox need to be deleted, in "VLAN Classifier Groups" bar, click "Delete" button and "Confirm" button to delete it, as shown in figure below.

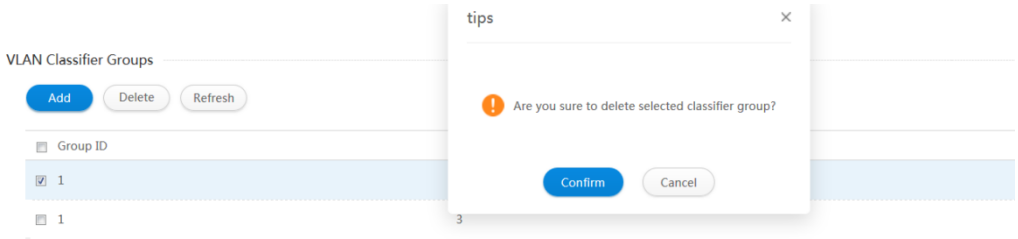


Figure 11-5 Delete VLAN Classifier Groups Page

11.6 Add VLAN Classifier Usage

Click "Configuration->VLAN Classifier" to entry "VLAN Classifier" main page. Then click "Add" button in "VLAN Classifier Usage" bar to entry "VLAN Classifier Usage Settings" page, as shown in figure below.

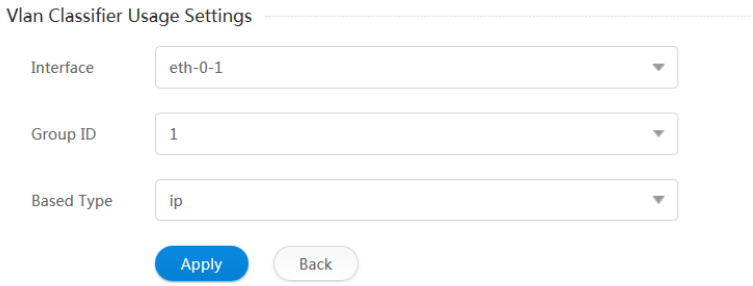


Figure 11-6 Add VLAN Classifier Usage Page

Parameter description, as shown in table below.

Table 11-4 Parameter description about adding VLAN Classifier Usage

Parameter	Description
Interface	The interface identifier needes to be added(enable to select)
Group ID	Group Identifier
Based Type	Based on type usage, "ip"、"mac" or "protocol", when the type is "protocol", "Group ID" must be 31
Apply	Apply to make the configuration effective and back to "VLAN Classifier" main page
Back	Back to "VLAN Classifier" main page

11.7 Delete VLAN Classifier Usage

Click "Configuration->VLAN Classifier" to entry "VLAN Classifier" main page. Then select the checkbox need to be deleted, in "VLAN Classifier Usage" bar,

click “Delete” button and “Confirm” button to delete it, as shown in figure below.

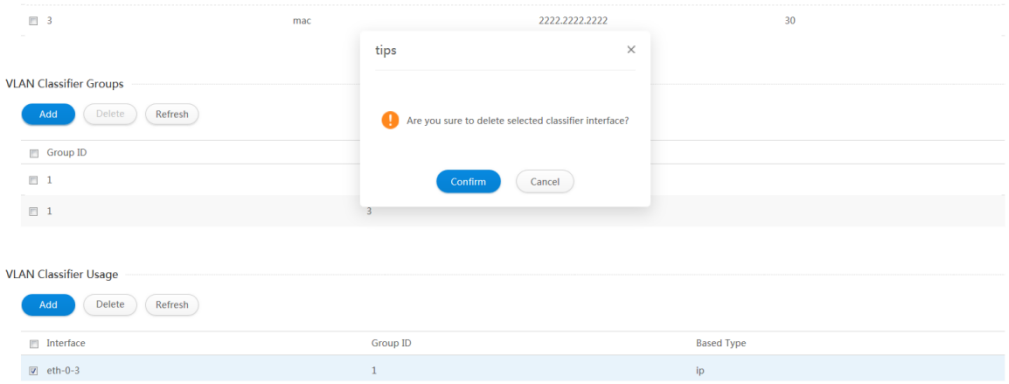


Figure 11-7 Delete VLAN Classifier Usage page

12 MAC

12.1 Overview

Click "Configuration->MAC" to entry "MAC" main page, as shown in figure below.

Figure 12-1 MAC main page

This chapter describes how to view and configure MAC. There is a MAC address table in the switch device, referred to as the MAC table. The MAC table records the MAC addresses of all devices connected to all interfaces of the switch device. When forwarding data, the switch device queries the MAC table according to the destination MAC address table in the data frame to quickly locate the outgoing interface, thereby reducing broadcasts.

Parameter description, as shown in table below.

Table 12-1 Parameter description about MAC Main Page

Parameter	Description
Mac Address Table	Mac Address Table Configuration
MAC Aging Time	MAC Aging Time Configuration
MAC Learning	MAC Learning Configuration
Static MAC Table	Static MAC Table Configuration
Blackhole MAC Table	Blackhole MAC Table Configuration
Port Security	Port Security Configuration

Static Security MAC Table	Static Security MAC Table Configuration

12.2 Mac Address Table Configuration

12.2.1 Query MAC Address Table Information

Click “MAC->MAC Address Table” to entry “MAC Address Table Information” page, click “Query”,as shown in figure below.

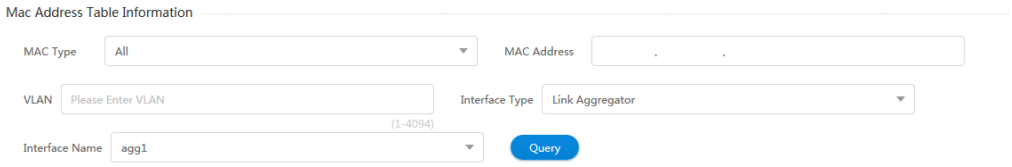


Figure 12-2 Query MAC Address Table Information Page

Parameter description, as shown in table below.

Table 12-2 Parameter description about MAC Address Table Query Information

Parameter	Description
MAC Type	The methods that switch discovers MAC address, which includes All,Dynamic,Security or Static
MAC Address	The MAC addresses in the address table
VLAN	VLAN ID that corresponds to the above MAC address(1-4094)
Interface Type	The methods that switch discovers Interface, which includes All,Ethernet or Link Aggregator
Interface Name	Interface that corresponds to the above MAC address
Query	Query mac table information

12.2.2 Display MAC Address Table Information

Click "MAC->MAC Address Table" to entry "MAC Address Table Information" page, as shown in figure below.

Figure 12-3 Display MAC Address Table Information

Parameter description, as shown in table below.

Table 12-3 Parameter description about MAC Address Table Information Display

Parameter	Description
MAC Address	The MAC addresses in the address table
VLAN	VLAN ID that corresponds to the above MAC address
Interface	Display the name of interface
Entry Type	The methods that switch discovers MAC address, which includes Dynamic,Security or Static

12.3 MAC Aging Time Configuration

Click "MAC->MAC Address Table" to entry "MAC Global Configuration" page, click "Apply", as shown in figure below.

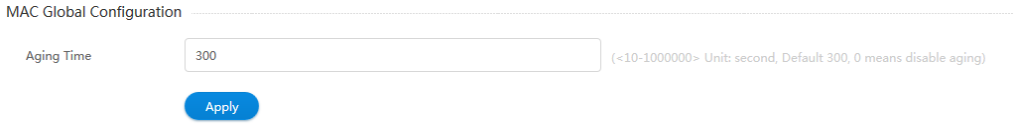


Figure 12-4 MAC Aging Time Configuration

Parameter description, as shown in table below.

Table 12-4 Parameter description about MAC Aging Time

Parameter	Description
Aging Time	Enter MAC address aging time(Range:0, 10~1000000 seconds; default: 300 seconds)
Apply	Apply to make the configuration effective

12.4 MAC Learning Configuration

Click “MAC->MAC Learning” to entry “MAC Learning” page, as shown in figure below.

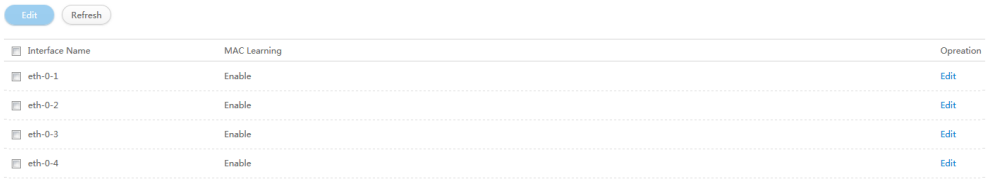


Figure 12-5 MAC Learning Configuration

Parameter description, as shown in table below.

Table 12-5 Parameter description about MAC Learning

Parameter	Description
Interface Name	Display the name of interface
MAC Learning	Display the current MAC learning status on interface
Operation	Display that MAC learning status can be edited
Edit	Display that interface’s MAC learning status can be edited
Refresh	Display the refreshed page

Click Operation “Edit” to entry “MAC Port Study” edit page, as shown in figure below.

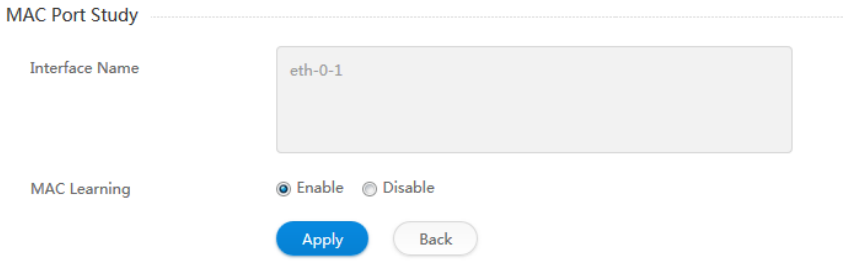


Figure 12-6 MAC Port Study edit page

Parameter description, as shown in table below.

Table 12-6 Parameter description about MAC Port Learning Edit Page

Parameter	Description
Interface Name	Display the name of interface
MAC Learning	Display the current MAC learning status on interface , Enable or Disable
Apply	Apply to make the configuration effective
Back	Back to MAC Learning Page

12.5 Static MAC Table Configuration

12.5.1 Add Static MAC Address Table Information

Click "MAC->Static MAC Address Table" to entry "Static MAC Table" page, click new , as shown in figure below.

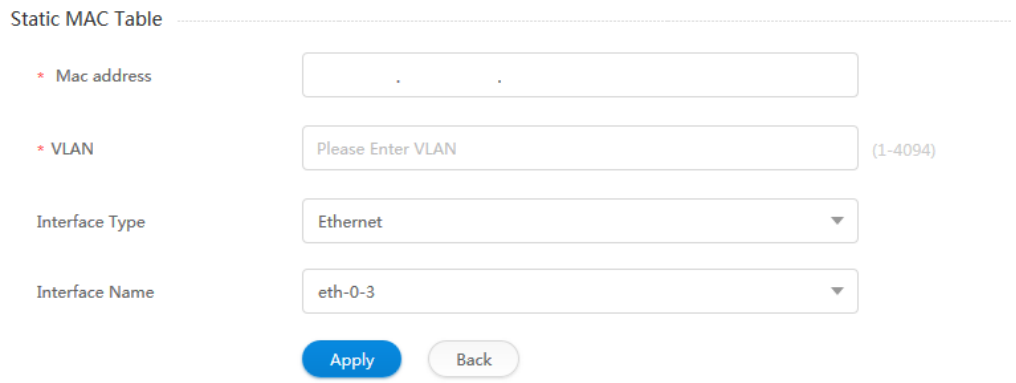


Figure 12-7 Add Static MAC Address Table Information

Parameter description, as shown in table below.

Table 12-7 Parameter description about Adding Static MAC Address Table Information

Parameter	Description
MAC Address	The MAC addresses in the address table
VLAN	VLAN ID that corresponds to the above MAC address(1-4094)
Interface Type	The methods that switch discovers Interface, which includes Ethernet or Link Aggregator
Interface Name	Interface that corresponds to the above MAC address
Apply	Apply to make the configuration effective
Back	Back to Static MAC Table Page

12.5.2 Delete Static MAC Address Table Information

Click "MAC->Static MAC Address Table" to entry "Static MAC Address Table" page, click delete, as shown in figure below.

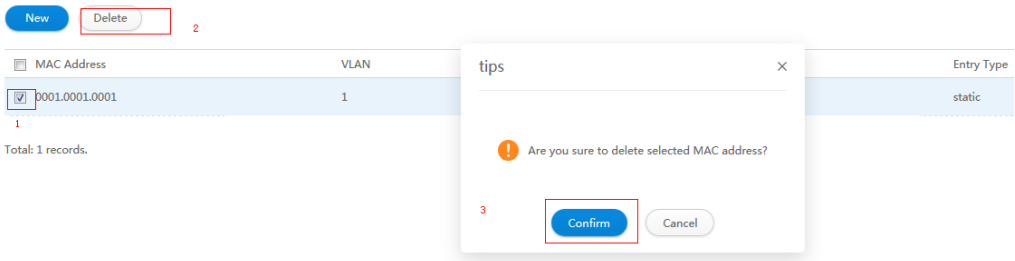


Figure 12-8 Delete Static MAC Address Table Information

12.5.3 Query Static MAC Address Table Information

Click "MAC->Static MAC Address Table" to entry "Static MAC Address Table" page, click "Query", as shown in figure below.

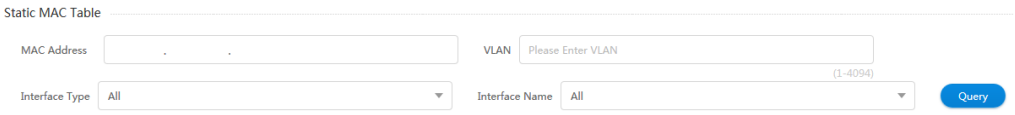


Figure 12-9 Query Static MAC Address Table Information

Parameter description, as shown in table below.

Table 12-8 Parameter description about Static MAC Address Table Query

Parameter	Description
MAC Address	The MAC addresses in the address table
VLAN	VLAN ID that corresponds to the above MAC address(1-4094)
Interface Type	The methods that switch discovers Interface, which includes All,Ethernet or Link Aggregator
Interface Name	Interface that corresponds to the above MAC address
Query	Query static mac table information

12.5.4 Display Static MAC Address Table Information

Click "MAC->Static MAC Address Table" to entry "Static MAC Address Table" page, as shown in figure below.

Figure 12-10 Display Static MAC Address Table Information

Parameter description, as shown in table below.

Table 12-9 Parameter description about Static MAC Address Table Display

Parameter	Description
MAC Address	The MAC addresses in the address table
VLAN	VLAN ID that corresponds to the above MAC address
Interface	Display the name of interface
Entry Type	The methods that switch discovers MAC address, which includes Dynamic,Security or Static

12.6 Blackhole MAC Table Configuration

12.6.1 Add Blackhole MAC Address Table Information

Click "MAC->Blackhole MAC Address Table" to entry "Blackhole MAC Address Table" page, click new ,as shown in figure below.

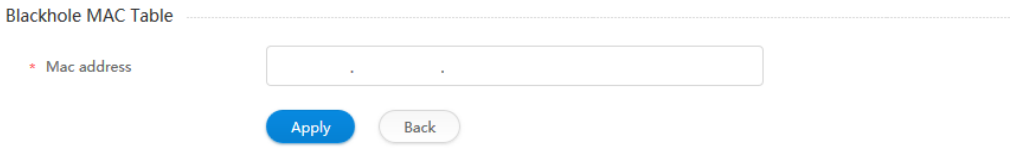


Figure 12-11 Add Blackhole MAC Address Table Information

Parameter description, as shown in table below.

Table 12-10 Parameter description about Adding Blackhole MAC Address Table Information

Parameter	Description
MAC Address	The MAC addresses in the address table
Apply	Apply to make the configuration effective
Back	Back to Blackhole MAC Table Page

12.6.2 Delete Blackhole MAC Address Table Information

Click "MAC->Blackhole MAC Address Table" to entry "Blackhole MAC Address Table" page, click delete, as shown in figure below.

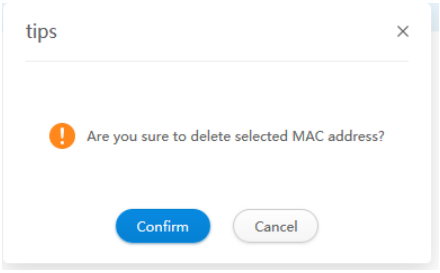


Figure 12-12 Delete Blackhole MAC Address Table Information

12.6.3 Query Blackhole MAC Address Table Information

Click "MAC->Blackhole MAC Address Table" to entry "Blackhole MAC Address Table" page, click "Query", as shown in figure below.

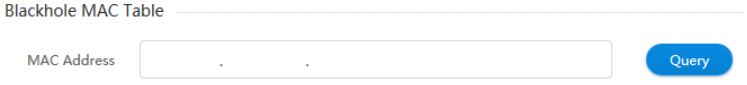


Figure 12-13 Query Blackhole MAC Address Table Information

Parameter description, as shown in table below.

Table 12-11 Parameter description about Blackhole MAC Address Table Query

Parameter	Description
MAC Address	The MAC addresses in the address table
Query	Query Blackhole mac table information

12.6.4 Display Blackhole MAC Address Table Information

Click "MAC->Blackhole MAC Address Table" to entry "Blackhole MAC Address Table" page, as shown in figure below.



Figure 12-14 Display Blackhole MAC Address Table Information

Parameter description, as shown in table below.

Table 12-12 Parameter description about Blackhole MAC Address Table Display

Parameter	Description
MAC Address	The MAC addresses in the address table
Entry Type	The methods that switch discovers MAC address, which includes Dynamic,Security or Static

12.7 Port Security Configuration

Click "MAC->Port Security" to entry "Port Security" page, as shown in figure below.



Figure 12-15 Port Security Configuration

Parameter description, as shown in table below.

Table 12-13 Parameter description about Port Security

Parameter	Description
Interface Name	Display the name of interface
Port Security	Display the current port security status on interface
Interface Protect Mode	Display the current protect mode on interface
Maximum MAC addresses	Display the maximum MAC addresses number on interface
Operation	Display that port security status can be edited

Click Operation "Edit" to entry "Port Security" edit page, as shown in figure below.

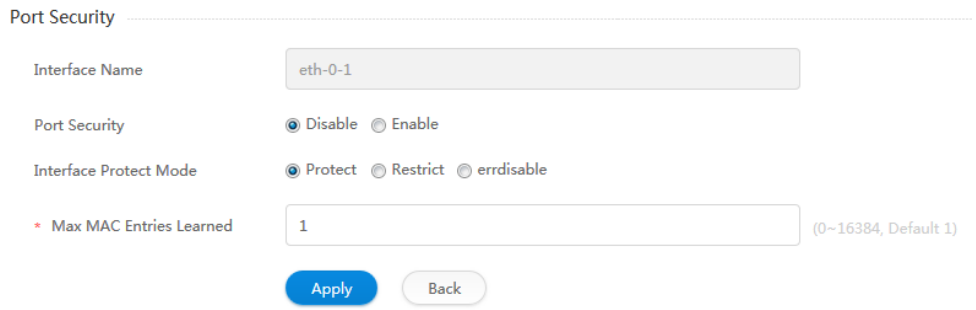


Figure 12-16 Port Security edit page

Parameter description, as shown in table below.

Table 12-14 Parameter description about MAC Port SecurityEdit Page

Parameter	Description
Interface Name	Display the name of interface

Port Security	Display the current port security status on interface , Disable or Enable
Interface Protect Mode	Display the current protect mode on interface,Protect,Restrict,errdisable
Max MAC Entries Learned	Display the maximum MAC addresses number on interface(0~16384,default 1)
Apply	Apply to make the configuration effective
Back	Back to Port Protect Page

12.8 Static Security MAC Table Configuration

12.8.1 Add Static Security MAC Address Table Information

Click “MAC->Static Security MAC” to entry “Static Security MAC Address Table” page, click new ,as shown in figure below.

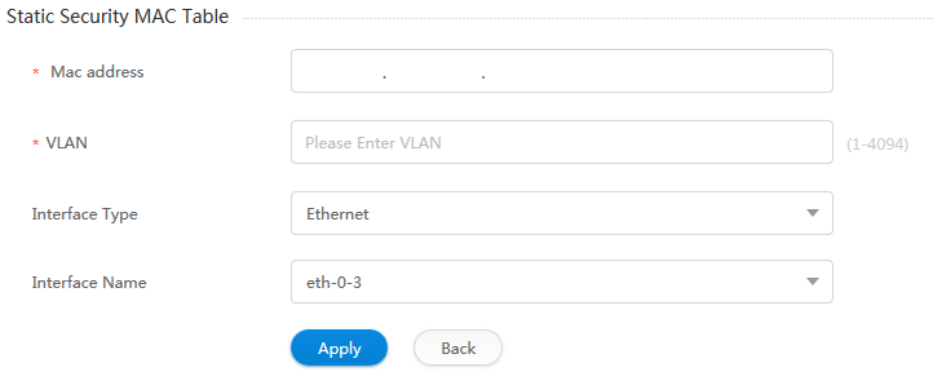


Figure 12-17 Add Static Security MAC Address Table Information

Parameter description, as shown in table below.

Table 12-15 Parameter description about Adding Static Security MAC Address Table Information

Parameter	Description
MAC Address	The MAC addresses in the address table
VLAN	VLAN ID that corresponds to the above MAC address(1-4094)
Interface Type	The methods that switch discovers Interface, which includes Ethernet
Interface Name	Interface that corresponds to the above MAC address(enable to select)
Apply	Apply to make the configuration effective
Back	Back to Static Security MAC Page

12.8.2 Delete Static Security MAC Address Table Information

Click "MAC->Static Security MAC" to entry "Static Security MAC Address Table" page, click "delete", as shown in figure below.

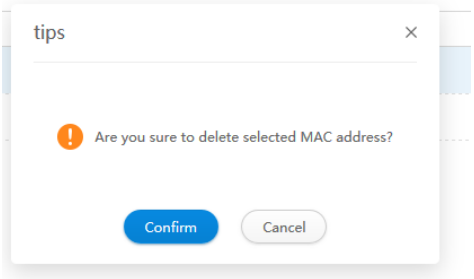


Figure 12-18 Delete Static Security MAC Address Table Information

12.8.3 Query Static Security MAC Address Table Information

Click "MAC->Static Security MAC" to entry "Static Security MAC Address Table" page, click "Query", as shown in figure below.

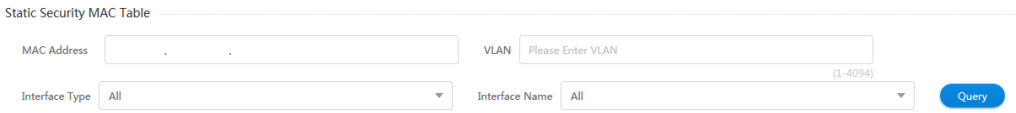


Figure 12-19 Query Static Security MAC Address Table Information

Parameter description, as shown in table below.

Table 12-16 Parameter description about Static Security MAC Address Table Query

Parameter	Description
MAC Address	The MAC addresses in the address table
VLAN	VLAN ID that corresponds to the above MAC address(1-4094)
Interface Type	The methods that switch discovers Interface, which includes All or Ethernet
Interface Name	Interface that corresponds to the above MAC address(enable to select)
Query	Query static security mac table information

12.8.4 Display Static Security MAC Address Table Information

Click "MAC->Static Security MAC" to entry "Static Security MAC Address Table" page, as shown in figure below.

Figure 12-20 Display Static Security MAC Address Table Information

Parameter description, as shown in table below.

Table 12-17 Parameter description about Static Security MAC Address Table Display

Parameter	Description
MAC Address	The MAC addresses in the address table
VLAN	VLAN ID that corresponds to the above MAC address
Interface Name	Display the name of interface
Entry Type	The methods that switch discovers MAC address, which includes Dynamic,Security or Static

13 Spanning Tree

13.1 Overview

Click “Configuration->Spanning Tree” to entry “Spanning Tree” main page, as shown in figure below.

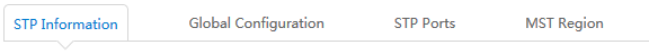


Figure 13-1 Spanning Tree main page

This chapter describes how to view and configure Spanning Tree. STP is the English abbreviation of Spanning Tree Protocol. This protocol can be applied to a loop network, through a certain algorithm to achieve path redundancy, while pruning the loop network into a loop-free tree network, thereby avoiding the proliferation and infinite loop of the message in the loop network.

Parameter description, as shown in table below.

Table 13-1 Parameter description about Spanning Tree Main Page

Parameter	Description
STP Information	Display STP Information
Global Configuration	Set Global Configuration
STP Ports	Display STP Ports
MST Region	MST Region Configuration

13.2 STP Information

Click “Spanning Tree->STP Information” to entry “STP Information” page, STP Information as shown in figure below.

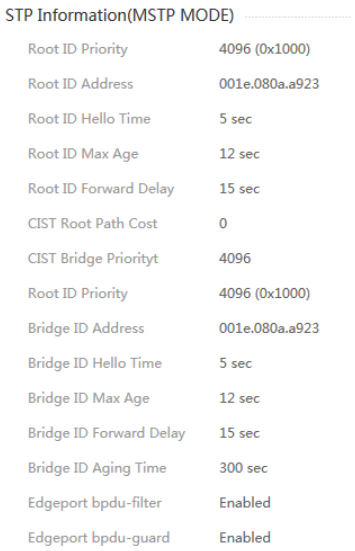


Figure 13-2 STP Information

Parameter description, as shown in table below.

Table 13-2 Parameter description about STP Information Page

Parameter	Description
Root ID Priority	Display the priority of the switch which is selected as root
Root ID Address	Display the address of the switch which is selected as root
Root ID Hello Time	Display the hello time interval of the switch which is selected as root
Root ID Max Age	Display the max age of the switch which is selected as root
Root ID Forward Delay	Display the root id forward delay of the switch which is selected as root
CIST Root Path Cost	Display the CIST Root Path Cost

CIST Bridge Priorityt	Display the CIST Bridge Priority
Root ID Priority	Display the bridge ID priority of the switch
Bridge ID Address	Display the bridge ID address of the switch
Bridge ID Hello Time	Display the hello time interval of the switch
Bridge ID Max Age	Display the max age interval of the switch
Bridge ID Forward Delay	Display the forward delay of the switch
Bridge ID Aging Time	Display the bridge aging time of the switch
Edgeport bpdu-filter	Display the enable status of edgeport bpdu-filter
Edgeport bpdu-guard	Display the enable status of edgeport bpdu-guard

Click "Spanning Tree->STP Information" to entry "STP Information" page, Priority Information as shown in figure below.



Figure 13-3 Priority Information

Parameter description, as shown in table below.

Table 13-3 Parameter description about STP Priority Information Page

Parameter	Description
Instance	Display the Instance Id
Path Cost	Display the path cost of the instance
Priority	Display the priority of the instance

Click “Spanning Tree->STP Information” to entry “STP Information” page, Ports Information as shown in figure below.

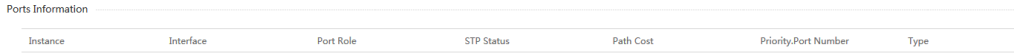


Figure 13-4 Ports Information

Parameter description, as shown in table below.

Table 13-4 Parameter description about STP Ports Information Page

Parameter	Description
Instance	Instance number
Interface	Interface number for instance operation
Port Role	Interface status
STP Status	Display this interface’s status on the spanning tree
Path Cost	The port’s internal path cost in this instance
Priority.Port Number	The port’s internal priority in this instance and port number
Type	Link type

13.3 Global Configuration

Click “Spanning Tree->Global Configuration” to entry “Global Configuration” page, as shown in figure below.

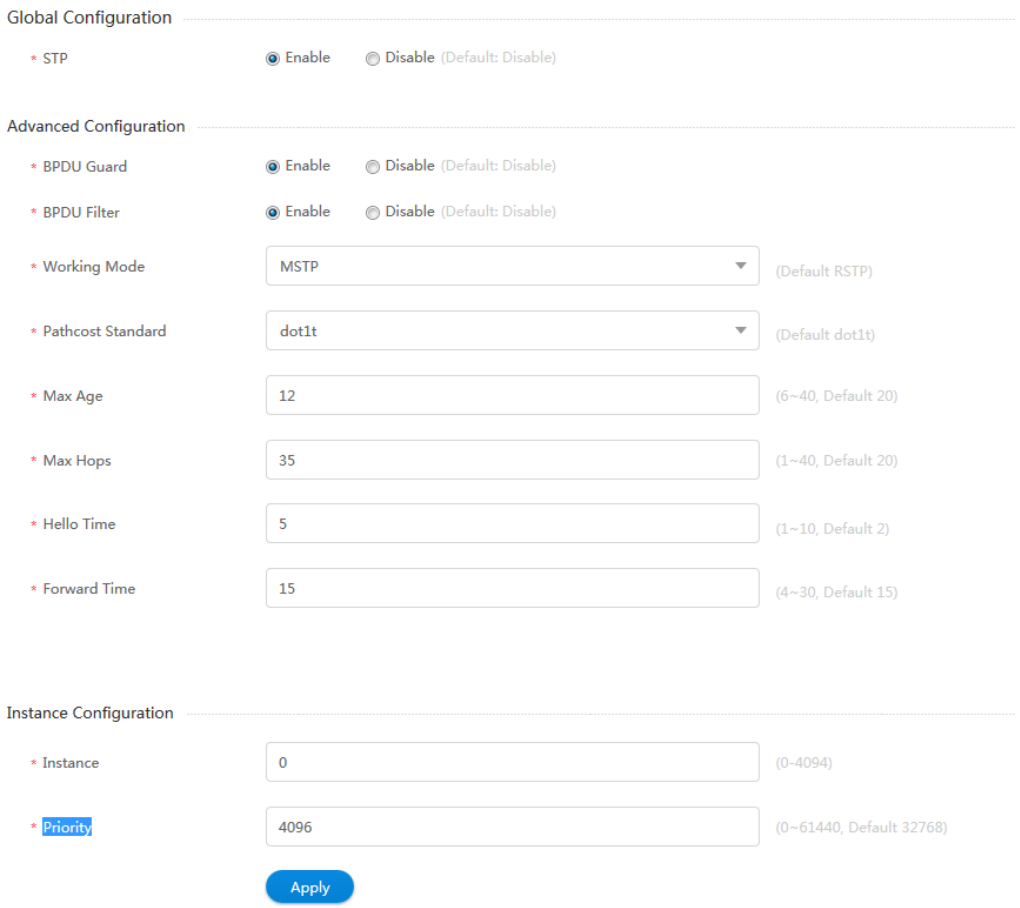


Figure 13-5 Global Configuration

Parameter description, as shown in table below.

Table 13-5 Parameter description about STP Global Configuration Page

Parameter	Description
STP	Enable or disable STP on this switch(default: disable)
BPDU Guard	Enable or disable bpdu guard in global(Default: Disable)
BPDU Filter	Enable or disable bpdu filter in global(Default: Disable)
Working Mode	Specify types of spanning tree adopted on this switch，including STP RSTP MSTP(Default RSTP)

Pathcost Standard	Choose the standard of path cost calculation,including dot1t dot1d-1998(Default dot1t)
Max Age	Maximum time to keep old information(6~40, Default 20)
Max Hops	Maximum number of times a packet is forwarded through the switch(1~40, Default 20)
Hello Time	Interval for root bridge's broadcast "hello" message.(1~10, Default 2)
Forward Time	Each interface on the switch needs to wait double of forward-delay time when the blocked status changes to forwarding status(4~30, Default 15)
Instance	Select instance number for the root types needed to configure(0-4094)
Priority	Bridge priority is used in selecting the root device.(0~61440, Default 32768)
Apply	Apply to make the configuration effective

13.4 STP Ports

13.4.1 Display Ports Status

Click "Spanning Tree->STP Ports" to entry "STP Ports" Ports Status page, as shown in figure below.

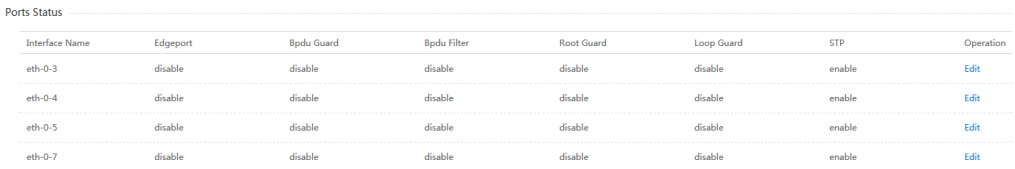


Figure 13-6 Display Ports Status

Parameter description, as shown in table below.

Table 13-6 Parameter description about STP Ports Status Page

Parameter	Description
Interface Name	Interface name
Edgeport	Display edgeport status
Bpdu Guard	Display Bpdu Guard tatus
Bpdu Filter	Display Bpdu Filter tatus
Root Guard	Display Root Guard tatus
Loop Guard	Display Loop Guard tatus
STP	Display STP tatus
Operation	Edit

13.4.2 Edit Spanning Tree Ports

Click "Spanning Tree->STP Ports->Edit" to entry "Edit Spanning Tree Ports" page, as shown in figure below.

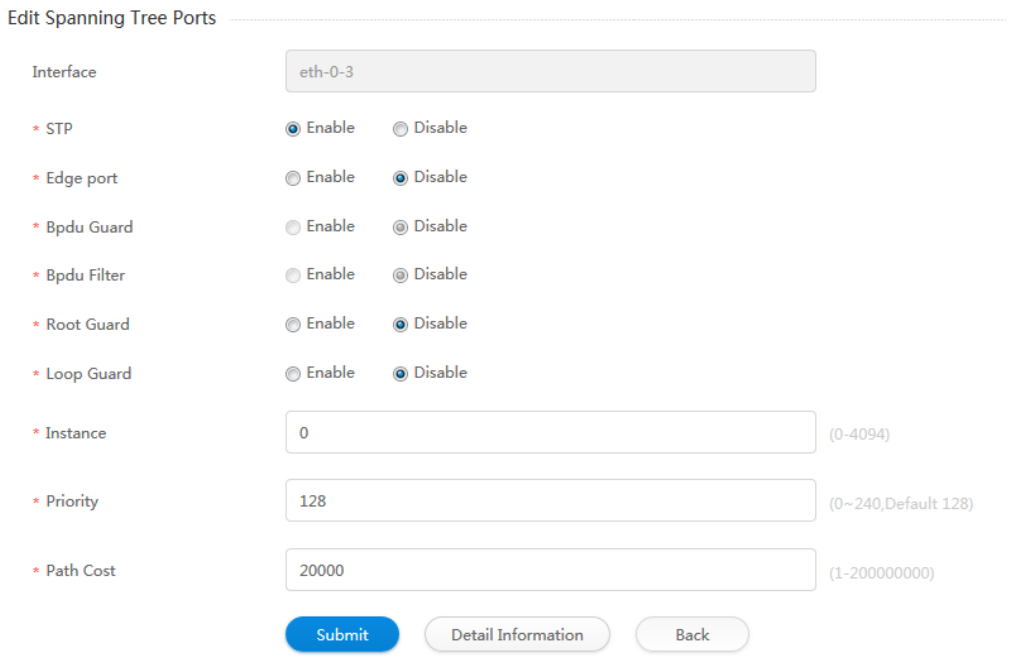


Figure 13-7 Edit Spanning Tree Ports

Parameter description, as shown in table below.

Table 13-7 Parameter description about Edit Spanning Tree Ports Page

Parameter	Description
Interface	Interface name
STP	Set STP status，enable or disable
Edgeport	Set edgeport status，enable to not participate in spanning tree calculation ,enable or disable
Bpdu Guard	Set Bpdu Guard status，if enabled,the edgeport will shutdown when recieving Bpdu packets,enable or disable
Bpdu Filter	Set Bpdu Filter status，if enabled,the port will filter Bpdu packets,enable or disable
Root Guard	Set Root Guard status，enable or disable
Loop Guard	Set Loop Guard status，enable or disable
Instance	Set Instance id(0-4094)
Priority	Set the port internal priority in this instance(0~240,Default 128)
Path Cost	Set Path Cost(1-200000000)
Submit	Save this configuration
Detail Information	Display STP Interface Details
Back	Back to Ports Status page

Click “Spanning Tree->STP Ports->Edit->Detail Information” to entry “Edit Spanning Tree Ports” Detailed Information page, as shown in figure below.

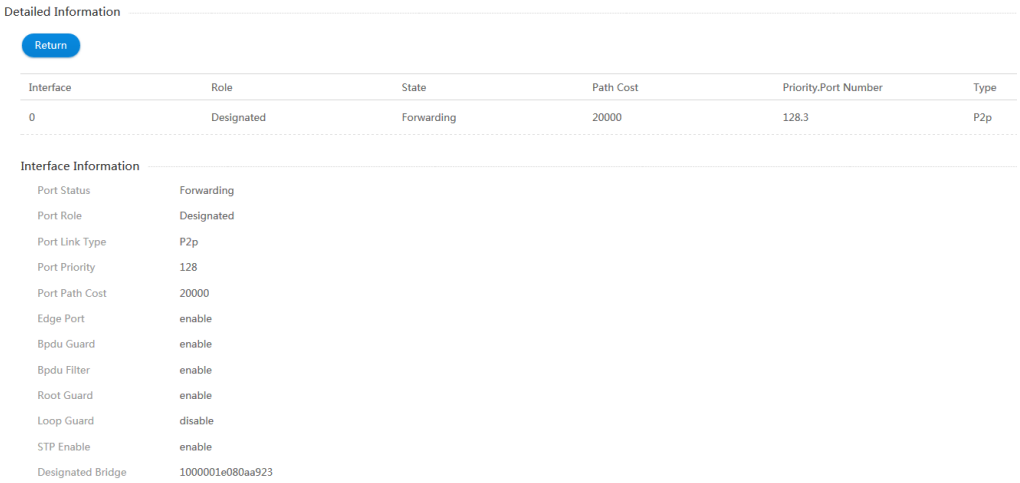


Figure 13-8 Edit Spanning Tree Ports Detailed Information page

Parameter description, as shown in table below.

Table 13-8 Parameter description about Spanning Tree Ports Detailed Information Page

Parameter	Description
Return	Back to Ports Status page
Interface	Instance number
Role	Interface status
State	Display this interface's status on the spanning tree
Path Cost	The port's internal path cost in this instance
Priority.Port Number	The port's internal priority in this instance and port number
Type	Link type
Interface Information	Display interface Information

13.5 MST Region

13.5.1 MST Region Main Page

Click "Spanning Tree->MST Region" to entry "MST Region" page, introduce how to modify the domain name ,as shown in figure below.

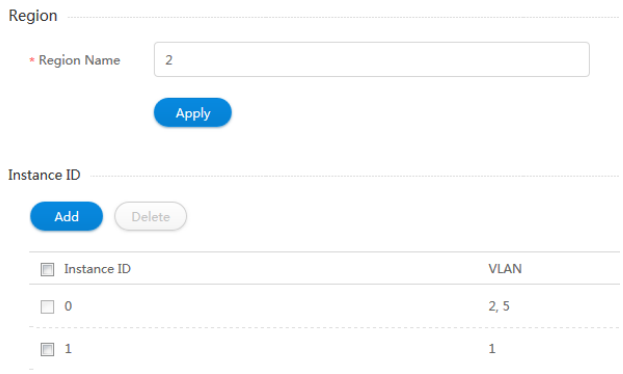


Figure 13-9 MST Region page

Parameter description, as shown in table below.

Table 13-9 Parameter description about Spanning Tree MST region Page

Parameter	Description
Region Name	Specify MST domain name joined by the switch
Instance ID	Display the MST instance ID currently configured on switch
VLAN	Display VLAN ID mapped to specified MST instance
Apply	Apply to make the configuration effective
Add	Add Instance ID
Delete	Delete Instance ID

13.5.2 ADD Instance ID

Click “Spanning Tree->MST Region->Add” to entry “Add Instance” page, as shown in figure below.

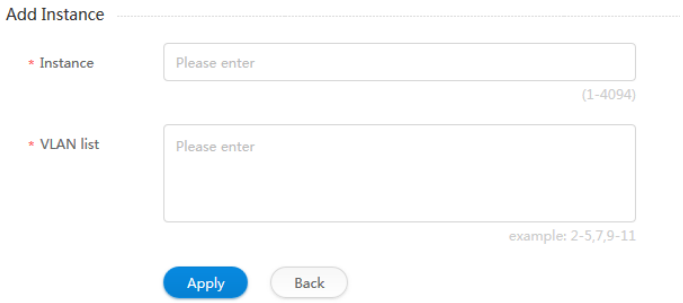


Figure 13-10 ADD Instance ID

Parameter description, as shown in table below.

Table 13-10 Parameter description about MST Region Add Instance Page

Parameter	Description
Instance	Set Instance,(1-4094)
VLAN list	Set VLAN,example: 2-5,7,9-11
Apply	Apply to make the configuration effective
Back	Back to MST Region Page

13.5.3 Delete Instance ID

Click “Spanning Tree->MST Region”， check instance, then click “Delete” , to entry “MST Region” Delete page , as shown in figure below.

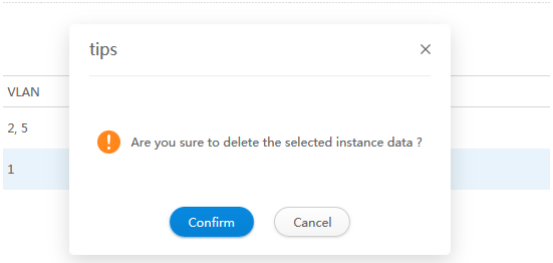


Figure 13-11 Delete Instance ID

14 ERPS

14.1 Overview

Click "Configuration->ERPS" to entry "ERPS" main page, as shown in figure below.



Figure 14-1 ERPS main page

This chapter describes how to view and configure ERPS.ERPS (Ethernet Ring Protection Switching, Ethernet Ring Protection Switching Protocol) is a ring protection protocol developed by ITU, also known as G.8032. It is a link layer protocol specially applied to the Ethernet ring network. When the Ethernet ring network is complete, it can prevent broadcast storms caused by the data loop, and when a link on the Ethernet ring network is disconnected, it can quickly restore communication between nodes on the ring network.

Parameter description, as shown in table below.

Table 14-1 Parameter description about ERPS Main Page

Parameter	Description
ERPS Configuration	Configuration ERPS
ERPS Status	Display ERPS

14.2 ERPS Configuration

14.2.1 ERPS Configuration Overview

ERPS configuration includes "Configure ERPS Mode" , "Add the ERPS Domain" , "Delete the ERPS Domain" , "Edit the ERPS Domain" , "Display the ERPS Domain" , "Add the ERPS Ring" , "Modify the ERPS Ring" , "Delete the ERPS Ring" .

14.2.2 Configure ERPS Mode

Click "ERPS->ERPS Configure" to entry "ERPS Configure" Configure ERPS Mode page, as shown in figure below.

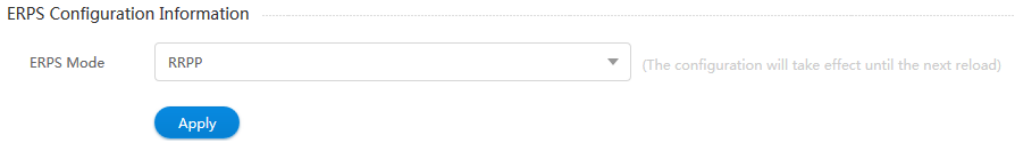


Figure 14-2 Configure ERPS Mode

Parameter description, as shown in table below.

Table 14-2 Parameter description about ERPS Configuration Mode Information

Parameter	Description
ERPS Mode	Display the working mode of ERPS, which supports RRPP protocol compatibility(The configuration will take effect until the next reload)
Apply	Apply to make the configuration effective

14.2.3 Add the ERPS Domain

Click "ERPS->ERPS Configure->Add" to entry "ERPS Domain Configuration" page, erps ring is not configured here, as shown in figure below.

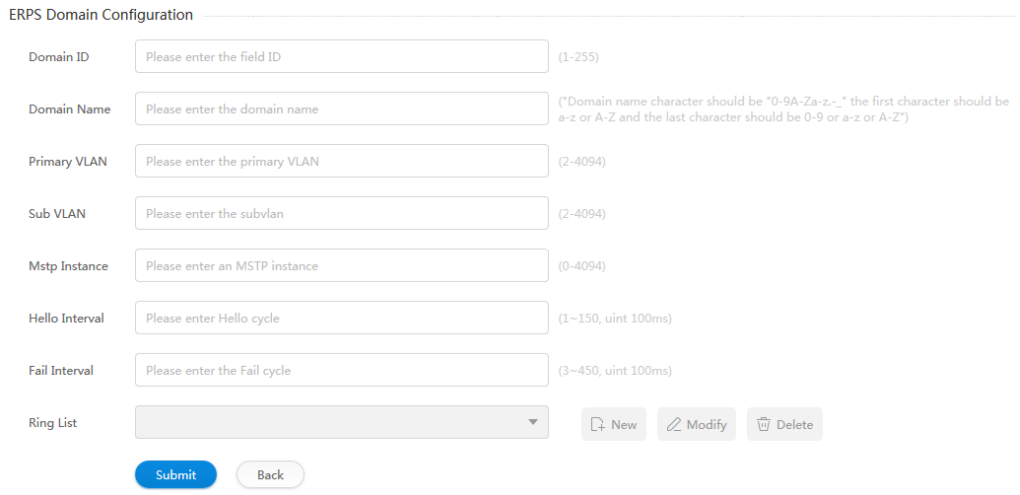


Figure 14-3 Add the ERPS Domain

Parameter description, as shown in table below.

Table 14-3 Parameter description about ERPS Domain Configuration Information Page

Parameter	Description
Domain ID	Set the ERPS domain ID(1-255)
Domain Name	Set the ERPS domain name("Domain name character should be"0-9A-Za-z.-_" the first character should be a-z or A-Z and the last character should be 0-9 or a-z or A-Z")
Primary VLAN	Set the primary control VLAN for ERPS(2-4094)
Sub VLAN	Set a sub control VLAN for ERPS(2-4094)
Mstp Instance	Set an MSTP instance(0-4094)
Hello Interval	Set the Hello message delivery period(1~150, uint 100ms)
Fail Interval	Set the Fail message delivery period(3~450, uint 100ms)
Ring List	Display ERPS ring list information
Submit	Save the configuration

Back	Back to erps configuration page

14.2.4 Delete the ERPS Domain

Click “ERPS->ERPS Configure” to entry “ERPS Configuration” page, check this specified ERPS domain, click “Delete” as shown in figure below.

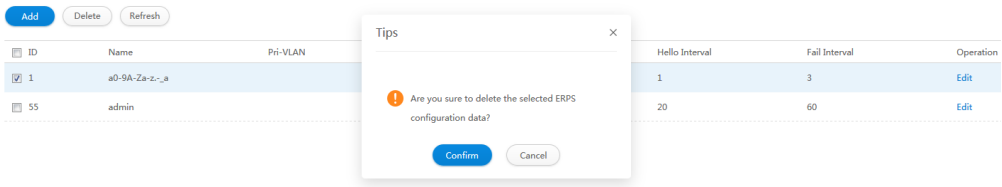


Figure 14-4 Delete the ERPS Domain

14.2.5 Edit the ERPS Domain

Click “ERPS->ERPS Configure->Edit” to entry “ERPS Domain Configuration” Edit page, as shown in figure below.

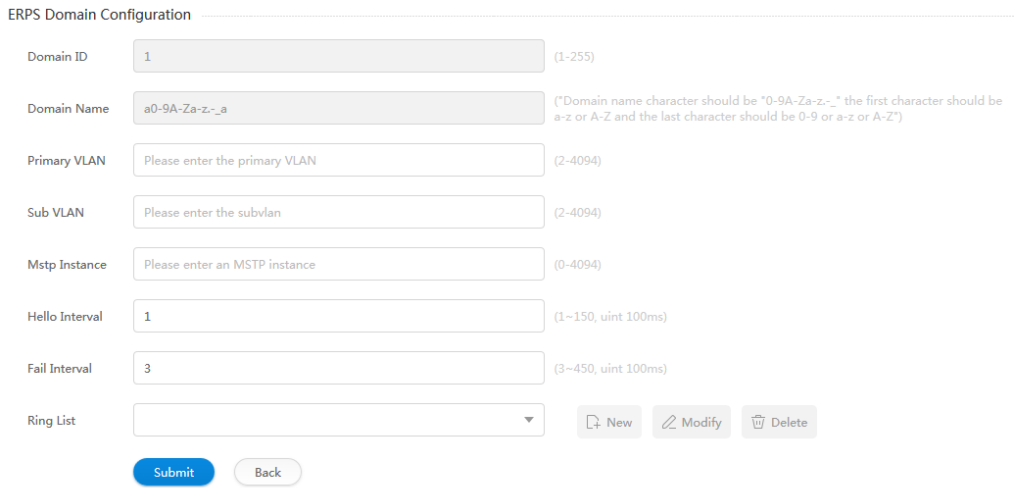


Figure 14-5 Edit the ERPS Domain

Parameter description, as shown in table below.

Table 14-4 Parameter description about ERPS Domain Configuration Information Edit Page

Parameter	Description
Domain ID	Display the ERPS domain ID(1-255)
Domain Name	Display the ERPS domain name
Primary VLAN	Set the primary control VLAN for ERPS(2-4094)
Sub VLAN	Set a sub control VLAN for ERPS(2-4094)
Mstp Instance	Set an MSTP instance(0-4094)
Hello Interval	Set the Hello message delivery period(1~150, uint 100ms)
Fail Interval	Set the Fail message delivery period(3~450, uint 100ms)
Ring List	Display ERPS ring list information
New	Add the ERPS Ring
Modify	Modify the ERPS Ring
Delete	Delete the ERPS Ring
Submit	Save the configuration
Back	Back to erps configuration page

14.2.6 Display the ERPS Domain

Click "ERPS->ERPS Configure" to entry "ERPS Configuration" display page, as shown in figure below.

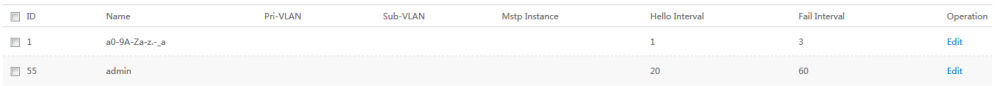


Figure 14-6 Display the ERPS Domain

Parameter description, as shown in table below.

Table 14-5 Parameter description about ERPS Domain Configuration Information Display Page

Parameter	Description
ID	Display the ERPS domain ID(1-255)
Name	Display the ERPS domain name
Pri-VLAN	Set the primary control VLAN for ERPS(2-4094)
Sub-VLAN	Set a sub control VLAN for ERPS(2-4094)
Mstp Instance	Set an MSTP instance(0-4094)
Hello Interval	Set the Hello message delivery period(1~150, uint 100ms)
Fail Interval	Set the Fail message delivery period(3~450, uint 100ms)
Operation	Edit

14.2.7 Add the ERPS Ring

Click "ERPS->ERPS Configure->Edit->New" to entry "ERPS Ring Configuration" page, as shown in figure below.

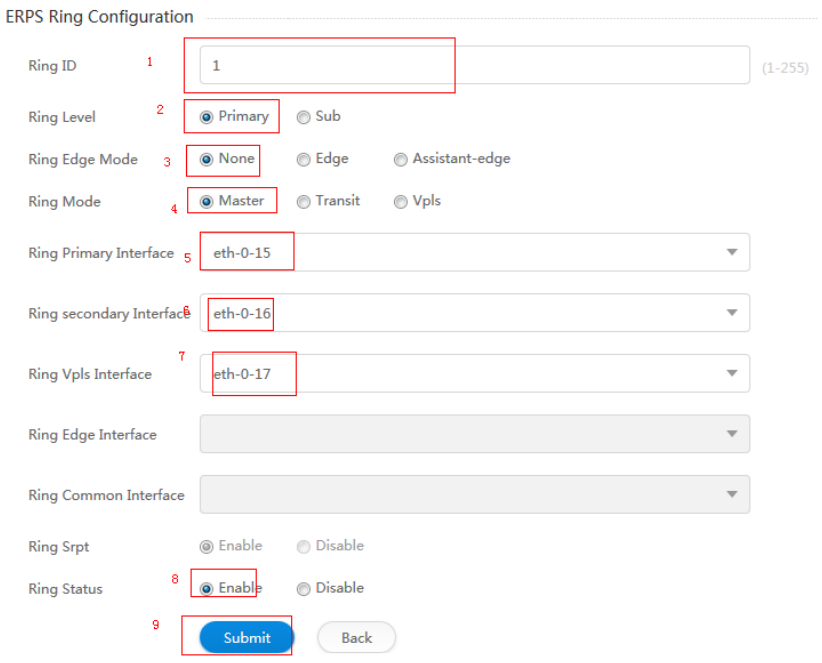


Figure 14-7 Add the ERPS Ring

Parameter description, as shown in table below.

Table 14-6 Parameter description about ERPS Ring Configuration Information Page

Parameter	Description
Ring ID	Set the ERPS ring ID(1-255)
Ring Level	Set that the ERPS ring is the primary ring or sub ring
Ring Edge Mode	Set the edge mode of the ERPS ring(None ,Edge,Assistant-edge)
Ring Mode	Set the node mode for the ERPS ring(Master,Transit,Vpls)
Ring Primary Interface	Select the primary interface of the ERPS ring(enable to select)
Ring secondary Interface	Select the secondary interface of the ERPS ring(enable to select)
Ring Vpls Interface	Select the VPLS interface for the ERPS ring(enable to select)
Ring Edge Interface	Select the edge interface of the ERPS ring
Ring Common Interface	Select the common interface of the ERPS ring
Ring Srpt	Enable or disable SRPT message delivery
Ring Status	Enable or disable the ERPS ring
Submit	Save this configuration
Back	Back to ERPS Domain Configuration Edit Page

14.2.8 Modify the ERPS Ring

Click “ERPS->ERPS Configure->Edit->Modify” to entry “ERPS Ring Configuration” Modify page, as shown in figure below.

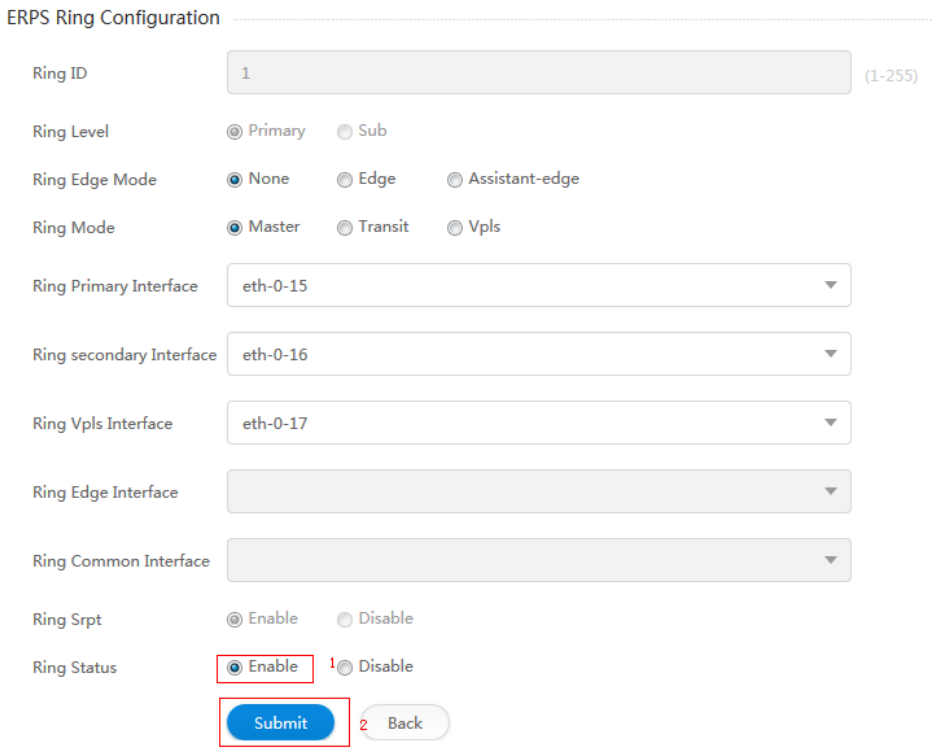


Figure 14-8 Modify the ERPS Ring

Parameter description, as shown in table below.

Table 14-7 Parameter description about ERPS Ring Configuration Information Modify Page

Parameter	Description
Ring ID	Display the ERPS ring ID(1-255)
Ring Level	Display that the ERPS ring is the primary ring or sub ring
Ring Edge Mode	Display the edge mode of the ERPS ring(None ,Edge,Assistant-edge)
Ring Mode	Display the node mode for the ERPS ring(Master,Transit,Vpls)
Ring Primary Interface	Display the primary interface of the ERPS ring(enable to select)
Ring secondary Interface	Display the secondary interface of the ERPS ring(enable to select)

Ring Vpls Interface	Display the VPLS interface for the ERPS ring(enable to select)
Ring Edge Interface	Display the edge interface of the ERPS ring
Ring Common Interface	Display the common interface of the ERPS ring
Ring Srpt	Display the status of ERPS ring SRPT message delivery
Ring Status	Display the status of ERPS ring function
Submit	Save this configuration
Back	Back to ERPS Domain Configuration Edit Page

14.2.9 Delete the ERPS Ring

Click "ERPS->ERPS Configure->Edit" to entry "ERPS Ring Configuration" Modify page, check ring，then click "Delete".

14.3 ERPS Status

14.3.1 Display the ERPS Status Information

Click "ERPS->ERPS Status" to entry "ERPS Status" Information page, click "view"，as shown in figure below.

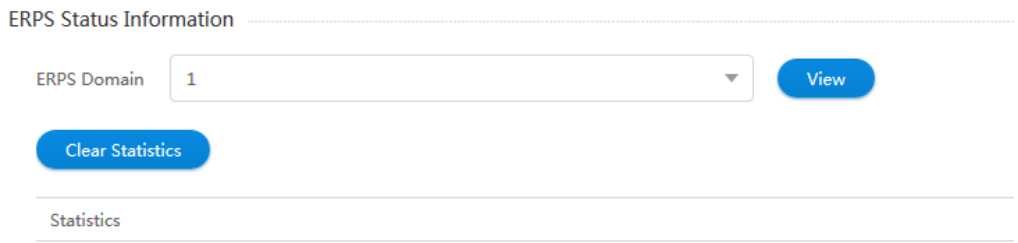


Figure 14-9 Display the ERPS Status Information

Parameter description, as shown in table below.

Table 14-8 Parameter description about ERPS Status Information Page

Parameter	Description
ERPS Domain	Display the domain ID information for the ERPS domain
Statistics	Display the statistics for the ERPS domain
View	View selected domain information
Clear Statistics	Clear ERPS Domain Statistics

15 Mirror

15.1 Overview

This chapter describe how to view and configure the mirror.

15.2 Mirror Configuration

15.2.1 Mirror Configuration Main Page

Click "Configuration->Mirror->Mirror Configuration" to entry "Mirror Configuration" main page, as shown in figure below.

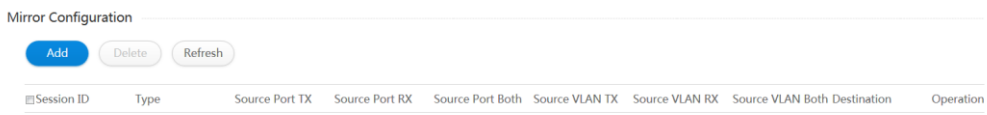


Figure 15-1 Mirror Configuration main page

Parameter description, as shown in table below.

Table 15-1 Parameter description about Mirror Configuration

Parameter	Description
Add	Add mirror
Delete	Delete mirror
Refresh	Refresh the status of mirror
Session ID	Session Indentifier
Type	The type of target mirror

Source Port TX	Whether the egress of source port copies packet to destination
Source Port RX	Whether the ingress of source port copies packet to destination
Source Port Both	Whether the both egress and ingress of source port copy packet to destination
Source VLAN TX	Whether the egress of source vlan copies packet to destination
Source VLAN RX	Whether the ingress of source vlan copies packet to destination
Source VLAN Both	Whether the both egress and ingress of source vlan copy packet to destination
Destination	The destination mirror port
Operation	Manage this session

15.2.2 Add Mirror Port

Click "Configuration->Mirror->Mirror Configuration" to entry "Mirror Configuration" main page. Then Click "Add" button to entry "Mirror Session Settings" page, as shown in figure below.

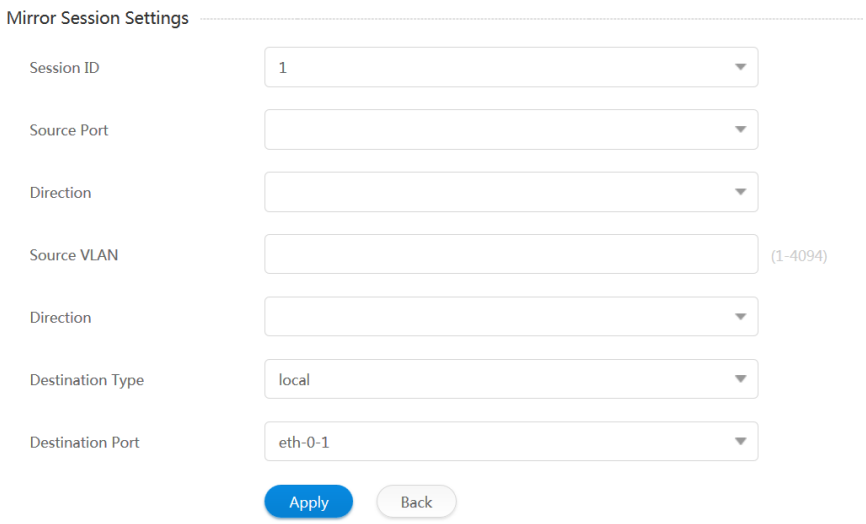


Figure 15-2 Add Mirror Port Page

Parameter description, as shown in table below.

Table 15-2 Parameter description about Adding Mirror Port

Parameter	Description
Session ID	Session Identifier, most using three at a time
Source Port	The Source mirror port
Direction	The direction of packets copy to destination mirror port, "rx"、"tx" or "both"
Source VLAN	The VLAN of source mirror
Direction	The direction of packets copy to destination mirror port, "rx"、"tx" or "both"
Destination Type	The type of destination mirror port
Destination Port	The destination mirror port(enable to select)
Apply	Apply to make the configuration effective and back to "Mirror Configuration" main page
Back	Back to "Mirror Configuration" main page

15.2.3 Delete Mirror Port

Click "Confiugation->Mirror Configuration" to entry "Mirror Configuration" main page. Then select the checkbox you want to delete and click "Delete" button to delete it, as shown in figure below.

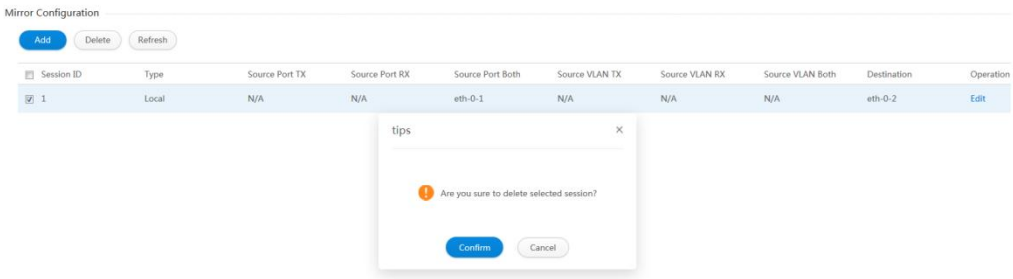


Figure 15-3 Delete Mirror Port Page

15.2.4 Mirror Session Settings

Click "Configuration->Mirror->Mirror Configuration" to entry "Mirror Configuration" main page. Then click the "Edit" button you want to edit to entry "Mirror Session Settings" page, as shown in figure below.

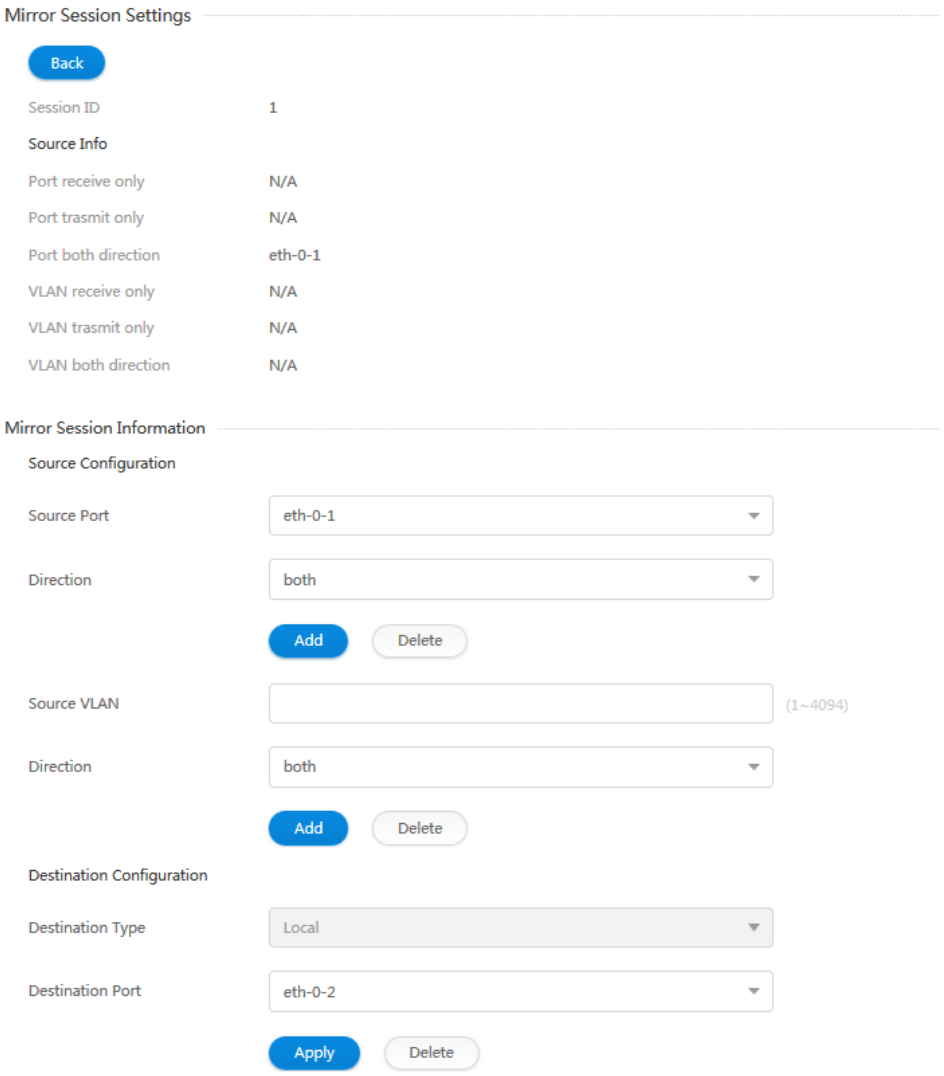


Figure 15-4 Mirror Session Settings Page

Parameter description, as shown in table below.

Table 15-3 Parameter description about Mirror Session Settings

Parameter	Description
Mirror Session Information bar	The status of Mirror Session Information
Mirror Session Settings bar	Set the status of mirror session
Back	Back to "Mirror Configuration" main page
Add/Apply	Apply to make the configuration effective
Delete	Delete the corresponding bar configuration

15.3 Global Configuration

Click "Configuration->Mirror->Global Configuration" to entry "Global Configuration" page, as shown in figure below.

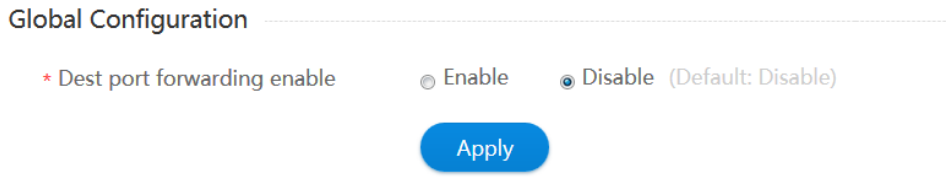


Figure 15-5 Global Configuration Page

On this page, you can configure whether this destination mirror port are allowed to forward service packets.

15.3.2 Escape MAC for Remote Mirror

15.3.3 Escape MAC for Remote Mirror Main Page

Click "Configuration->Mirror->Escape MAC for Remote Mirror" to entry "Escape MAC for Remote Mirror" page, as show in figure below.

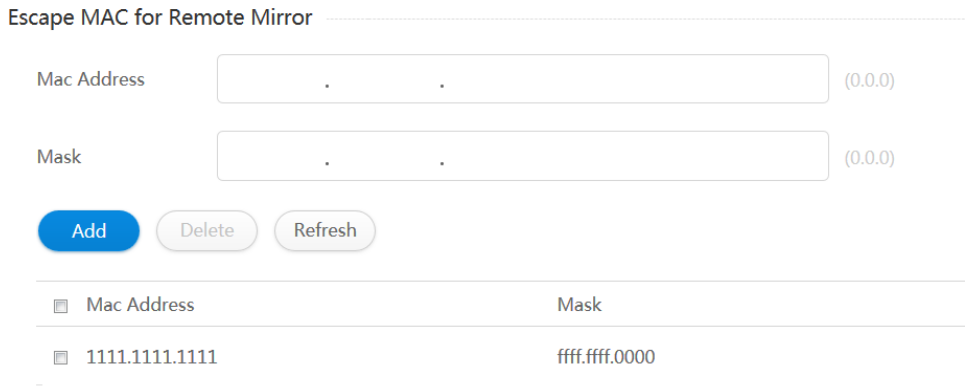


Figure 15-6 Escape MAC for Remote Mirror

Parameter description, as shown in table below.

Table 15-4 Parameter description about Escape MAC for Remote Mirror

Parameter	Description
Mac Address	The Mac Address of the remote mirror filtration, dotted hexadecimal
Mask	The Mask of the remote mirror filtration, dotted hexadecimal
Add	Add a Escape MAC for Remote Mirror item
Delete	Delete a Escape MAC for Remote Mirror item
Refresh	Refresh the status of Escape MAC for Remote Mirror items

15.3.4 Add Escape MAC for Remote Mirror Item

Click "Configuration->Mirror->Escape MAC for Remote Mirror" to entry "Escape MAC for Remote Mirror" page. Then input "Mac Address" and "Mask" value and click "Add" button to add a item of "Escape MAC for Remote Mirror".

15.3.5 Delete Escape MAC for Remote Mirror Item

Click “Configuration->Mirror->Escape MAC for Remote Mirror” to entry “Escape MAC for Remote Mirror” page. Selete the checkbox you want to delete and click “Delete” button to delete it.

16 Multicast

16.1 Overview

Click “Configuration->Multicast” to entry “Multicast” main page, as shown in figure below.

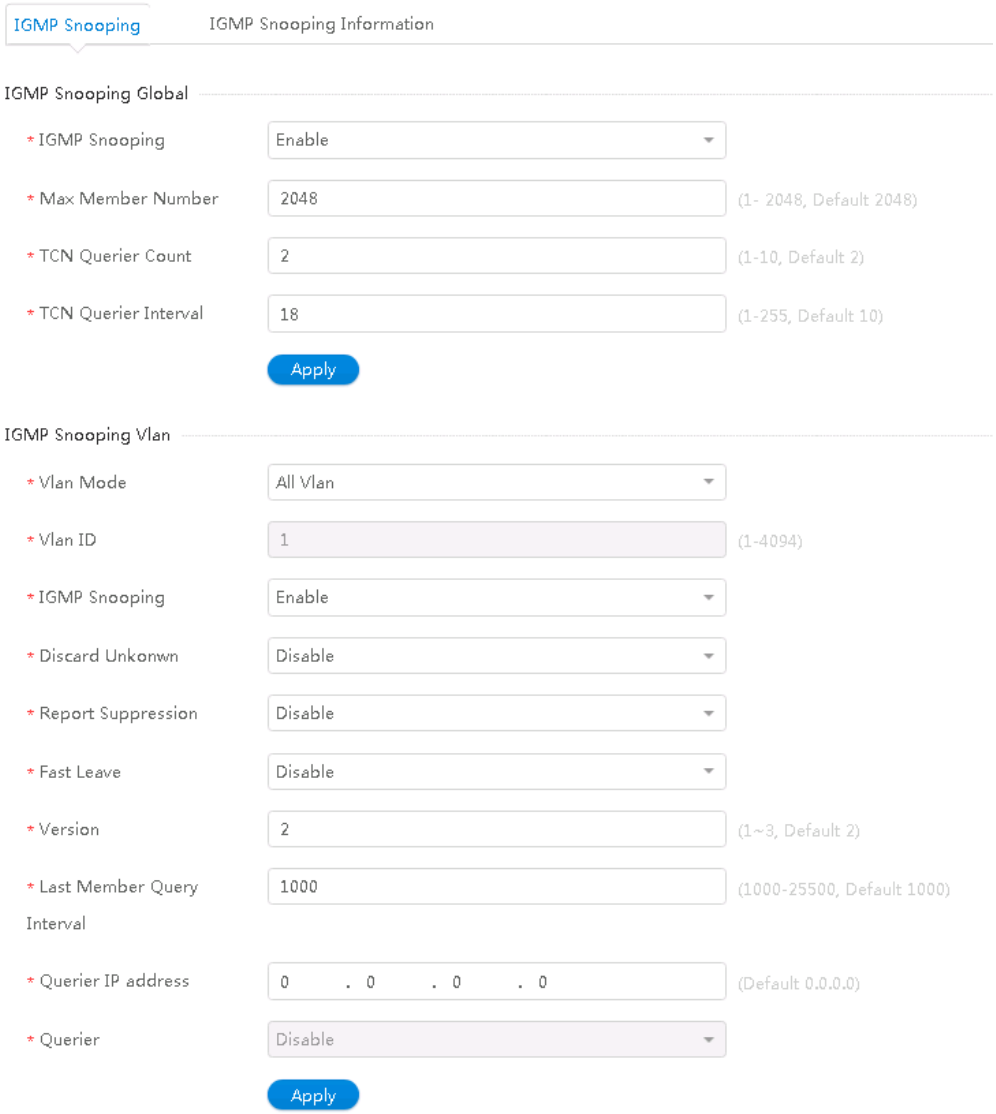


Figure 16-1 Multicast Main Page

This chapter describes how to view and configure multicast.

Parameter description, as shown in table below.

Table 16-1 Parameter description about Multicast Main Page

Parameter	Description
IGMP Snooping	Set the IGMP snooping
IGMP Snooping Information	Display the IGMP snooping

16.2 IGMP Snooping

16.2.1 IGMP Snooping Main Page

The multicast configuration capabilities include IGMP snooping global configuration and IGMP snooping VLAN configuration .

Parameter description, as shown in table below.

Table 16-2 Parameter description about Multicast Configuration Main Page

Parameter	Description
IGMP Snooping Global	Add IGMP Snooping Global Configuration
IGMP Snooping Vlan	Add IGMP Snooping Vlan Configuration

16.2.2 Add IGMP Snooping Global Configuration

Click “Multicast->IGMP Snooping” to entry “IGMP Snooping Global” page, as shown in figure below.

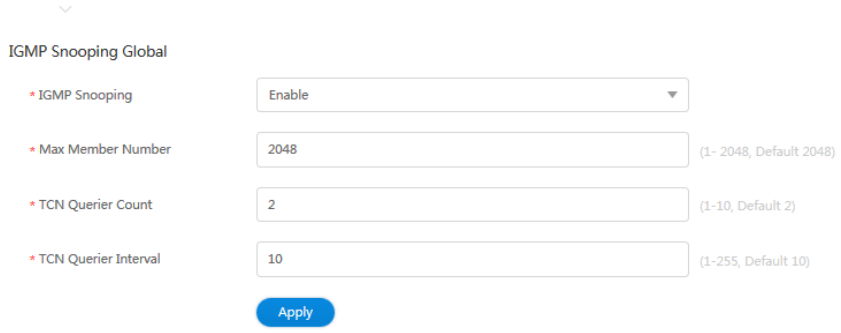


Figure 16-2 Add IGMP Snooping Global Configuration Page

Parameter description, as shown in table below.

Table 16-3 Parameter description about IGMP Snooping Global

Parameter	Description
IGMP Snooping	Set the IGMP snooping global stats(enable to select)
Max Member Number	Set the IGMP snooping global max member number(1-2048,Default 2048)
TCN Querier Count	Set the IGMP snooping tcn querier count(1-10,Default 2)
TCN Querier Interval	Set the IGMP snooping tcn querier interval(1-255,Default 10)
Apply	Apply to make the configuration effective and back to "IGMP Snooping Information" page

16.2.3 Add IGMP Snooping Vlan Configuration

Click "Multicast->IGMP Snooping" to entry "IGMP Snooping Vlan" page, as shown in figure below.

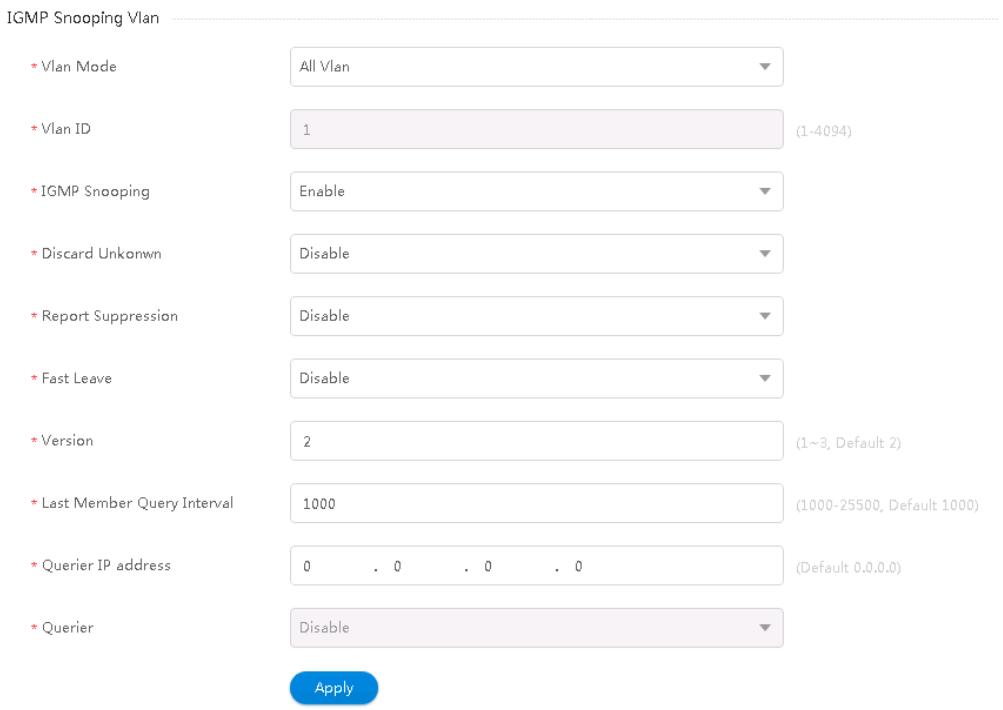


Figure 16-3 Add IGMP Snooping Vlan Configuration Page

Table 16-4 Parameter description about IGMP Snooping Vlan

Parameter	Description
Vlan Mode	Set the IGMP snooping VLAN mode(all VLAN or single VLAN)
Vlan ID	Set the IGMP snooping VLAN id on single VLAN mode(1-4094)
IGMP Snooping	Set the IGMP snooping VLAN stats(Enable or Disable)
Discard Unkonwn	Set the IGMP snooping VLAN discard unknown stats(Enable or Disable)
Report Suppression	Set the IGMP snooping VLAN report suppression stats(Enable or Disable)
Fast Leave	Set the IGMP snooping VLAN fast leave stats(Enable or Disable)
Version	Set the IGMP snooping VLAN version(1-3,Default 2)

Last Member Query Interval	Set the IGMP snooping VLAN last member query interval(1000-25500,Default1000)
Querier IP address	Set the IGMP snooping global querier source-address(Default 0.0.0.0)
Apply	Apply to make the configuration effective and back to "IGMP Snooping Information" page

16.3 IGMP Snooping Information

16.3.1 IGMP Snooping Information Main Page

Click "Multicast->IGMP Snooping Information" to entry "IGMP Snooping Information" page, as shown in figure below.

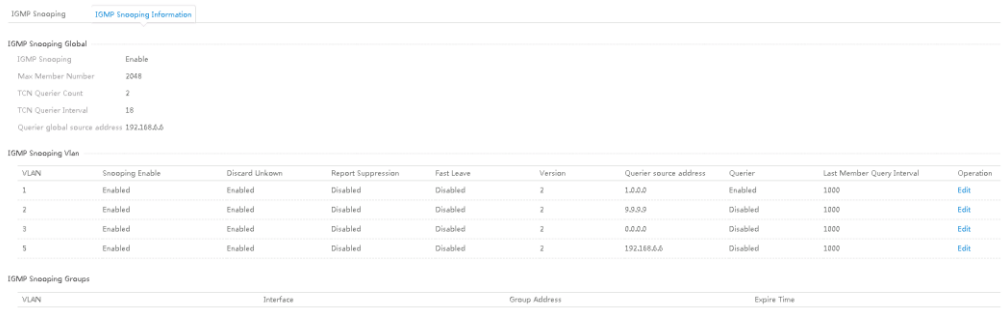


Figure 16-4 IGMP Snooping Information Main Page

The IGMP Snooping information pages include IGMP snooping global configuration information page, IGMP snooping groups information page and IGMP snooping VLAN information page .

Parameter description, as shown in table below.

Table 16-5 Parameter description about IGMP Snooping information pages

Parameter	Description
IGMP Snooping Global	Display IGMP Snooping Global Configuration

IGMP Snooping Vlan	Display IGMP Snooping Vlan
IGMP Snooping Groups	Display IGMP Snooping Groups

16.3.2 Display IGMP Snooping Global

Click "Multicast->IGMP Snooping" to entry "IGMP Snooping Global" information page, as shown in figure below.

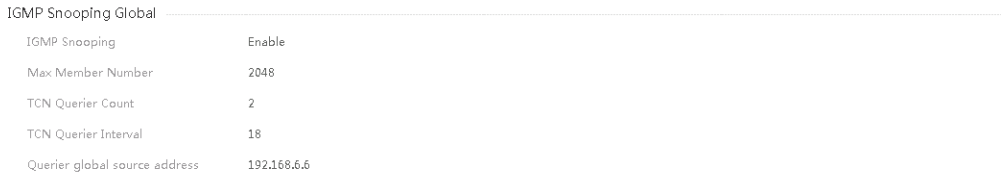


Figure 16-5 Display IGMP Snooping Global Page

Parameter description, as shown in table below.

Table 16-6 Parameter description about IGMP Snooping Global Information

Parameter	Description
IGMP Snooping	Display the IGMP snooping global stats
Max Member Number	Display the IGMP snooping global max member number
TCN Querier Count	Display the IGMP snooping tcn querier count
TCN Querier Interval	Display the IGMP snooping tcn querier interval
Global Querier source address	Display the IGMP snooping global source address

16.3.3 Display IGMP Snooping Vlan

Click "Multicast->IGMP Snooping" to entry "IGMP Snooping Vlan" information page, as shown in figure below.

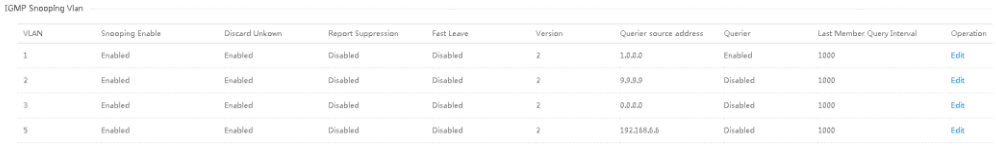


Figure 16-6 Display IGMP Snooping Vlan Page

Parameter description, as shown in table below.

Table 16-7 Parameter description about IGMP Snooping Vlan Information

Parameter	Description
Vlan	Display the IGMP snooping VLAN id on single VLAN mode
Snooping State	Display the IGMP snooping VLAN stats
Discard Unkonwn	Display the IGMP snooping VLAN discard unknown stats
Report Suppression	Display the IGMP snooping VLAN report suppression stats
Fast Leave	Display the IGMP snooping VLAN fast leave stats
Version	Display the IGMP snooping VLAN version
Querier source address	Display the IGMP snooping VLAN querier source address
Querier	Display the IGMP snooping VLAN querier status
Last Member Query Interval	Display the IGMP snooping VLAN last member query interval
Operate	Display that IGMP snooping VLAN table entries can be edited

Click “Edit” to entry “IGMP Snooping Vlan” information edit page, as shown in figure below.

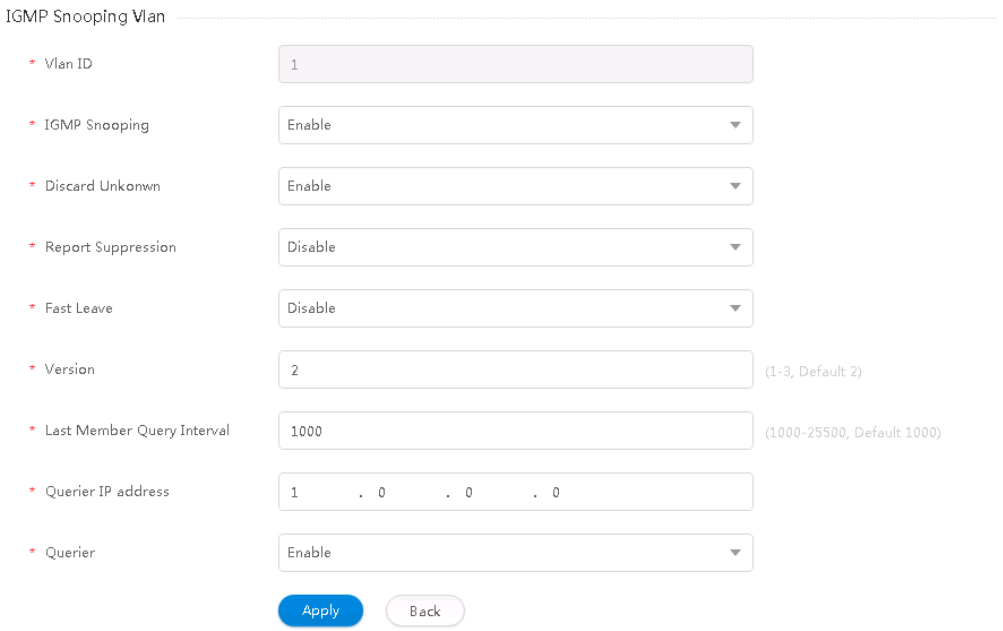


Figure 16-7 "IGMP Snooping Vlan" information edit page

Parameter description, as shown in table below.

Table 16-8 Parameter description about IGMP Snooping Vlan edit page Information

Parameter	Description
Vlan ID	Display the IGMP snooping VLAN id on single VLAN mode
IGMP Snooping	Display the IGMP snooping VLAN stats(Enable or Disable)
Discard Unkonwn	Display the IGMP snooping VLAN discard unknown stats(Enable or Disable)
Report Suppression	Display the IGMP snooping VLAN report suppression stats(Enable or Disable)
Fast Leave	Display the IGMP snooping VLAN fast leave stats(Enable or Disable)
Version	Display the IGMP snooping VLAN version(1-3, Default 2)

Last Member Query Interval	Display the IGMP snooping VLAN last member query interval(1000-25500, Default 1000)
Querier IP address	Display the IGMP snooping VLAN querier address configured
Querier	Display the IGMP snooping VLAN querier status
Apply	Apply to make the configuration effective and back to IGMP Snooping Vlan Information page
Back	Back to IGMP Snooping Vlan Information page

16.3.4 Display IGMP Snooping Groups

Click "Multicast->IGMP Snooping" to entry "IGMP Snooping Groups" information page, as shown in figure below.

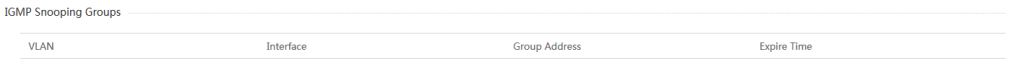


Figure 16-8 Display IGMP Snooping Groups Page

Parameter description, as shown in table below.

Table 16-9 Parameter description about IGMP Snooping Groups Information

Parameter	Description
VLAN	Display the VLAN ID for joining the IGMP snooping group
Interface	Display the VLAN member port that have joined the IGMP snooping group
Group Address	Displays the IGMP snooping group address
Expire Time	Display the expire time for the IGMP snooping group table entry

17 DHCP Server

17.1 DHCP Server configuration

This chapter describes how to view and configure DHCP Server.

17.1.1 DHCP Server Global Configuration

Click "DHCP Server->DHCP Server" to entry DHCP Server configuration page, as shown in figure below.

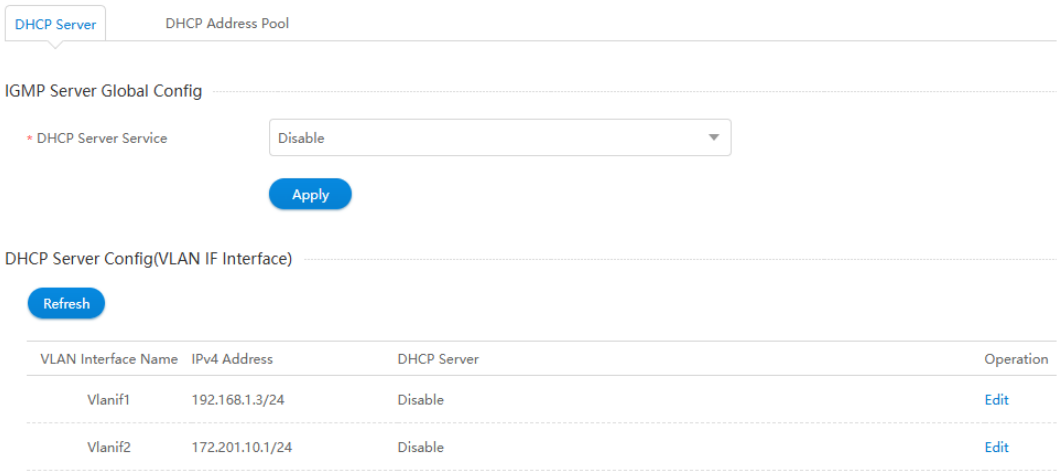


Figure 17-1 DHCP Server Main Page

Parameter description, as shown in table below.

Table 17-1 Parameter description about DHCP Server Main Page

Parameter	Description
DHCP Server	Configure Global and Interface DHCP Server state
DHCP Address Pool	Configure DHCP Address Pool

17.1.2 DHCP Server Global Config

Click “DHCP Server->DHCP Server” to entry “DHCP Server Global Config” page, as shown in figure below.

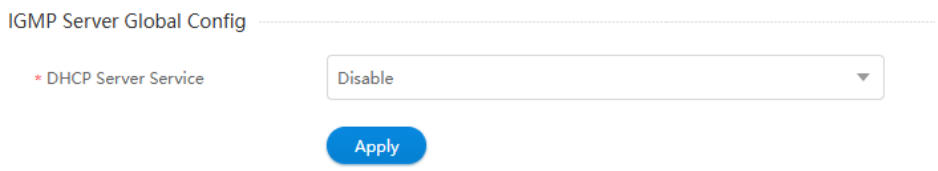


Figure 17-2 DHCP Server Global Configuration Page

Parameter description, as shown in table below.

Table 17-2 Parameter description about DHCP Server Global Configuration Page

Parameter	Description
DHCP Server Service	Set the DHCP Server global stats(enable to select)
Apply	Apply to make the configuration effective

17.1.3 DHCP Server Interface Configuration

Click “DHCP Server->DHCP Server” to entry “DHCP Server Config(VLAN IF Interface)” page, as shown in figure below.

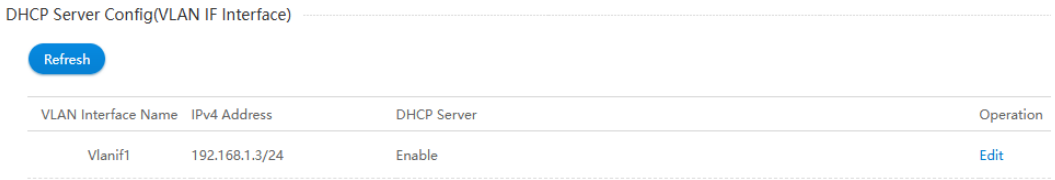


Figure 17-3 DHCP Server Interface Configuration

Parameter description, as shown in table below.

Table 17-3 Parameter description about DHCP Server Interface Page

Parameter	Description
Refresh	Refresh DHCP Server interface configuration information.
VLAN Interface Name	Name of VLAN interface
IPv4 Address	IPv4 address of the VLAN interface
DHCP Server	The status of the DHCP Server for the interface
Operation	Edit，click to enter the editing page.

17.1.4 DHCP Server Interface Edit

Click "DHCP Server->DHCP Server Config(VLAN IF Interface)->Edit" to entry "DHCP Server VLAN Interface Management" page, as shown in figure below.

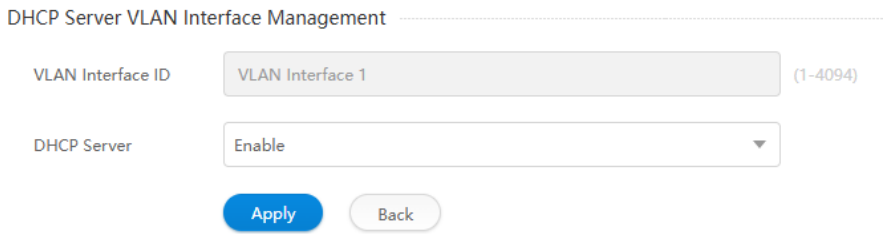


Figure 17-4 DHCP Server VLAN Interface Management

Parameter description, as shown in table below.

Table 17-4 Parameter description about DHCP Server

Parameter	Description
VLAN Interface ID	VLAN ID
DHCP Server	The status of the DHCP Server for the interface：Enable/Disable
Apply	Apply to make the configuration effective and back to "DHCP Server" main page
Back	Back to "Mirror Configuration" main page

17.2 DHCP Address Pool

17.2.1 DHCP Address Pool Configuration

Click "DHCP Server->DHCP Address Pool" to entry DHCP Address Pool configuration page, as shown in figure below.

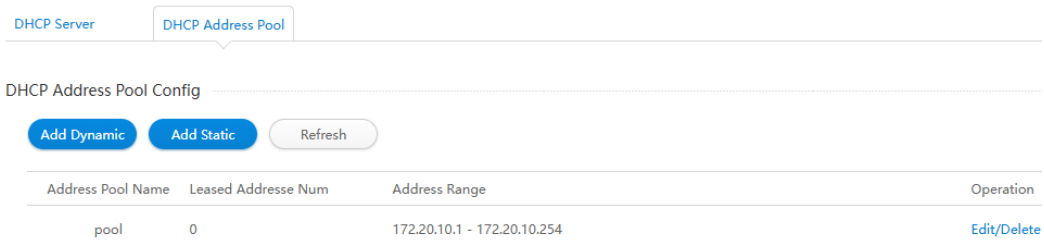


Figure 17-5 DHCP Address Pool List

Parameter description, as shown in table below.

Table 17-5 Parameter description about DHCP Server Interface Page

Parameter	Description
Add Dynamic	Add a new DHCP Address Pool
Add Static	Add a static binding entry.
Refresh	Refresh the DHCP Address Pool configuration information.
Address Pool Name	Name of DHCP Server Address Pool
Leased Address Num	Number of leased addresses
Operation	Edit，click to enter the editing page.

17.2.2 Add Dynamic Address Pool

Click "DHCP Server->DHCP Address Pool->Add Dynamic" to entry "DHCP Pool Config" page to add Address Pool, as shown in figure below.

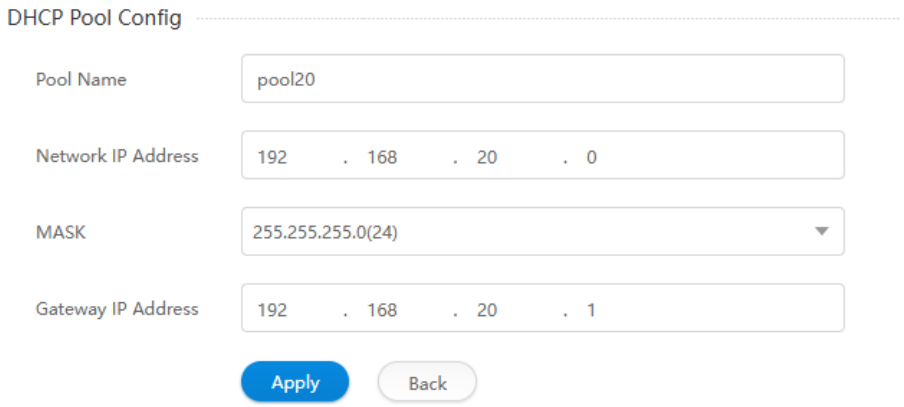


Figure 17-6 Add DHCP Address Pool

Parameter description, as shown in table below.

Table 17-6 Parameter description about DHCP Server Interface Page

Parameter	Description
Pool Name	Name of the new DHCP Address Pool
Network IP Address	Network addresses of IPv4 address pool
Mask	Network mask
Gateway IP Address	The gateway address assigned to the client.
Apply	Apply to make the configuration effective and back to "DHCP Address Pool" main page
Back	Back to "DHCP Address Pool" main page

17.2.3 Add Static Entry

Click "DHCP Server->DHCP Address Pool->Add Static" to entry DHCP Pool Config page to add a static binding entry, as shown in figure below.

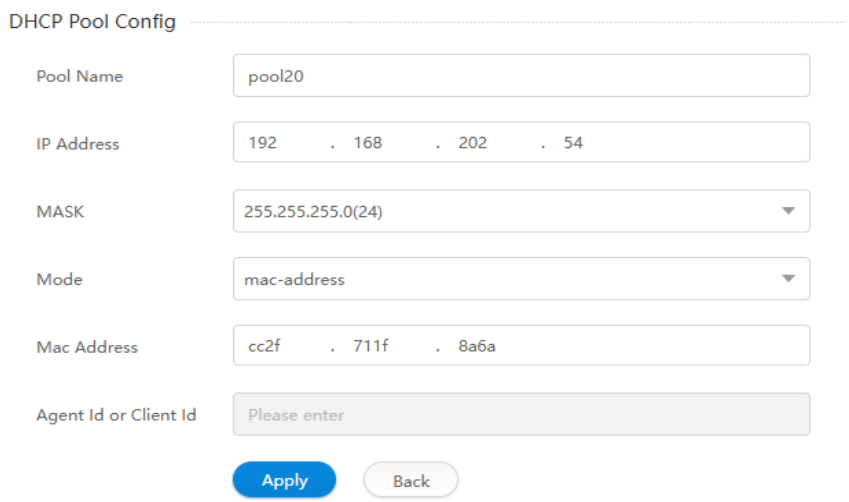


Figure 17-7 Add static address binding

Parameter description, as shown in table below.

Table 17-7 Parameter description about DHCP Server Interface Page

Parameter	Description
Pool Name	Name of the new DHCP Address Pool
IP Address	Binding IPv4 address
Mask	Network mask
Mode	The attributes that need to be matched for clients that require binding IP addresses.Optional:mac-address;client-identifier in hex;client-identifier as ascii string;agent-circuit-id string
MAC Address	The MAC address of the client. If Mode selects “mac-address”,it will assign a specified “IP Address” to the client that matches the configured MAC Address.
Agent Id or Client Id	The Agent Id or Client Id encapsulated in the protocol message.If Mode selects “client-identifier in hex”,”client-identifier as ascii string” or “agent-circuit-id

	string",It will assign a specified IP address to clients whose attributes match.
Apply	Apply to make the configuration effective and back to "DHCP Address Pool" main page
Back	Back to "DHCP Address Pool" main page

18 DHCP Snooping

18.1 DHCP Snooping Config

This chapter describes how to configure DHCP Snooping.

18.1.1 DHCP Snooping Global

Click "Configuration->DHCP Snooping" to entry "DHCP Snooping Config" main page. as shown in figure below.Global configuration as shown in figure below.

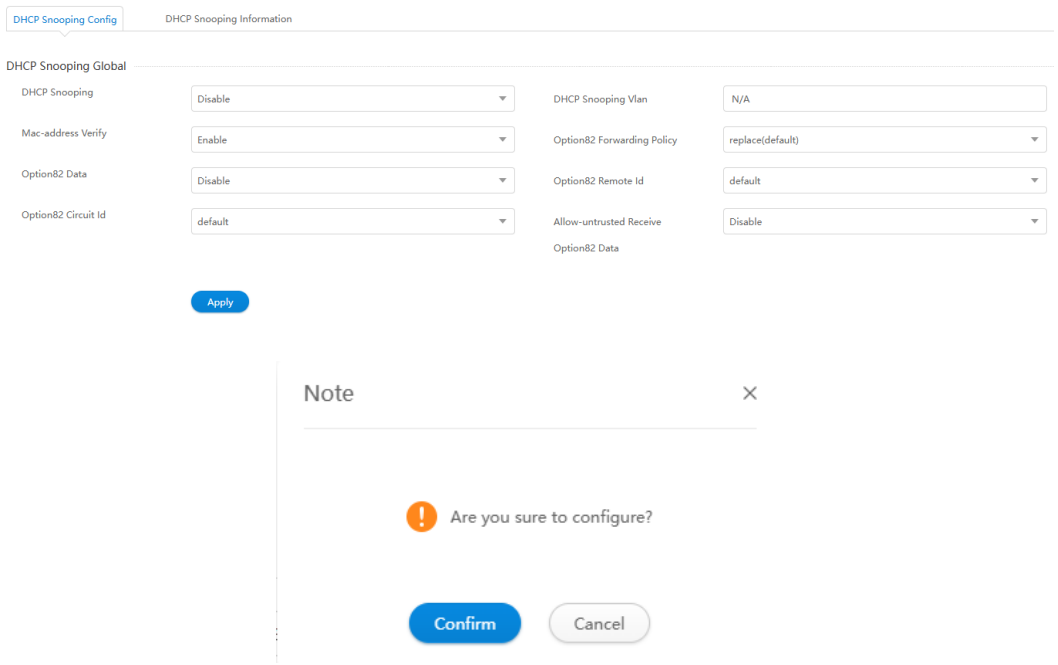


Figure 18-1 "DHCP Snooping Global" main page

Complete global configuration here.Parameter description, as shown in table below.

Table 18-1 Parameter description about DHCP Snooping Global

Parameter	Description
DHCP Snooping	Global switch, enable or disable
DHCP Snooping VLAN	Specify the VLAN that requires DHCP Snooping to be enabled.
MAC-Address Verify	Verify the source MAC address of the received DHCP packet. If it is inconsistent, it will be discarded.
Option82 Forwarding Policy	Select the forwarding Policy for DHCP packets with Option82.
Option82 Data	Enable/disable insertion of Option82
Option82 Remote Id	Configure Remote-ID in Options 82，default is disable
Option82 Circuit Id	Configure Circuit-ID in Options 82，default is disable
Allow-untrusted Receive Option82 Data	Configure whether to allow receiving untrusted Option82 data.
Apply	Apply to make the configuration effective.
Confirm	Confirm the application configuration and enter page "DHCP Snooping Information".
Cancel	Cancel submission and stay on the current page.

18.1.2 DHCP Snooping Interface

Complete the interface configuration of DHCP Snooping here. If the configured parameters are the same as those in the global configuration, the interface configuration takes priority over the global configuration.

The configuration page is shown in the following figure:

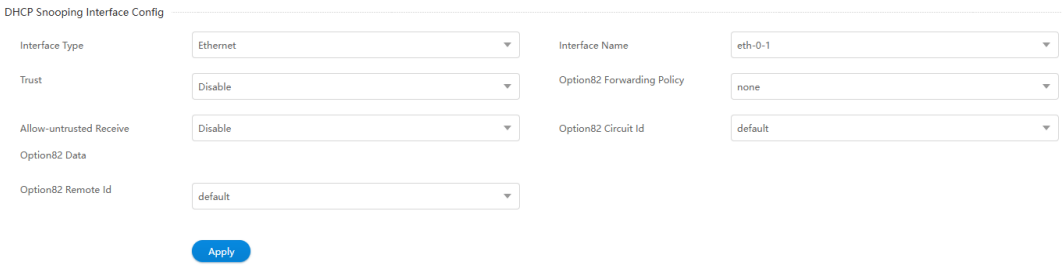


Figure 18-2 "DHCP Snooping Interface" page

Table 18-2 Parameter description about DHCP Snooping Interface

Parameter	Description
Interface Type	Ethernet or Link Aggregator
Interface Name	Select the interface to be configured.
Trust	Whether the selected interface for configuration is a trusted interface, usually interface directly or indirectly connected to the Server need to be configured as trusted interfaces.
Option82 Forwarding Policy	Select the forwarding Policy for DHCP packets with Option82.
Allow-untrusted Receive Option82 Data	Configure whether to allow receiving untrusted Option82 data.
Option82 Circuit Id	Configure Circuit-ID in Options 82, default is disable
Option82 Remote Id	Configure Remote-ID in Options 82, default is disable
Apply	Apply to make the configuration effective.Pop up a prompt page.

18.1.3 DHCP Snooping Static Bind

Complete the configuration of static binding entries for DHCP Snooping here.

The configuration page is shown in the following figure:

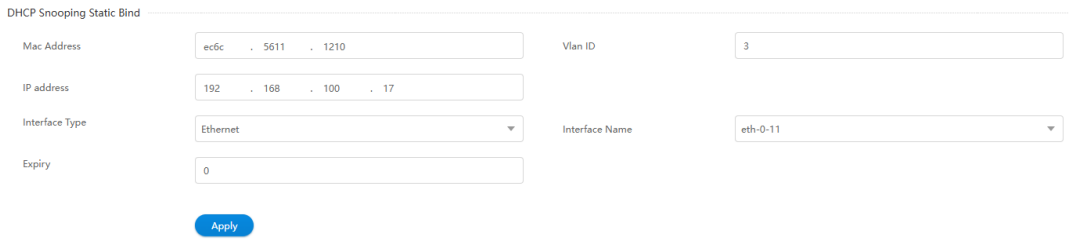


Figure 18-3 "DHCP Snooping static bind" page

Table 18-3 Parameter description about DHCP Snooping Static bind

Parameter	Description
MAC Address	The MAC address bound to the interface.
VLAN ID	The MAC address bound to the VLAN.
IP address	The IP address bound to the MAC address.
Interface Type	Ethernet or Link Aggregator
Interface Name	Select the interface to bound.
Apply	Apply to make the configuration effective.Pop up a prompt page.

Delete existing static binding entries on the following page.

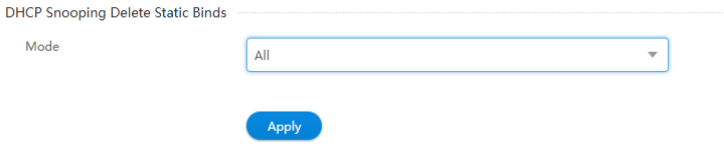


Figure 18-4 Delete Static Binds

18.2 DHCP Snooping Information

Display detailed information about "DHCP Snooping" here, including the configuration of "DHCP Snooping Global", the feature configuration of the interface that enables DHCP Snooping, and existing binding entries.

DHCP Snooping Config | DHCP Snooping Information

DHCP Snooping Global

DHCP Snooping	Enable
Vlan Member	1
Mac-address Verify	Enable
Option82 Forwarding Policy	
Option82 Data	
Option82 Remote Id	
Option82 Circuit Id	
Allow-untrusted Receive Option82 Data	

DHCP Snooping Interface

Interface	Trust	Allow-untrusted	Policy	Remote id	Circuit id
eth-0-54	Enable				

DHCP Snooping Binding

VLAN	Mac Address	Interface	Lease(s)	Ip Address	Type
1	ec6c.5611.1112	eth-0-38	static	192.168.3.201	manual
1	0000.0201.0108	eth-0-40	490	192.168.3.51	learning
1	ec6c.5611.1210	eth-0-48	538	192.168.3.50	learning
1	00e0.4c02.172f	eth-0-38	558	192.168.3.52	learning

19 PoE

19.1 Overview

View the overall PoE power information and detailed information of each PoE interface here, and manage PoE interfaces.Diaplay the total PoE power information in Global Confiuration page. View detailed information about PoE interfaces on the PoE Interface page and manage them.

19.2 Global Configuration

Click "Maintenance->Configuration->PoE" to entry PoE main page .The Global Configuration page is shown in the following figure

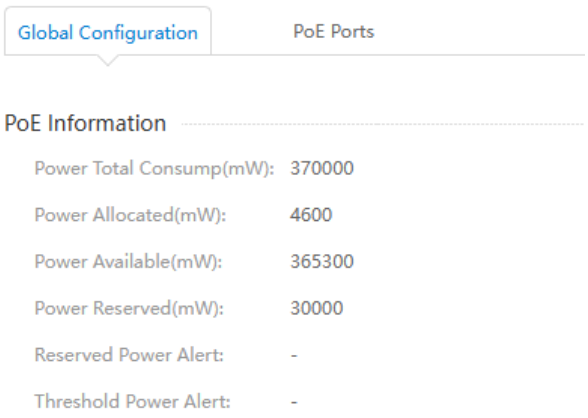


Figure 19-1 PoE Global Configuration page

Table 19-1 Parameter description about PoE

Parameter	Description
Power Total Consump(mW)	The total power available for PoE allocation(milliwatt).
Power Allocated(mW)	The power that has already been allocated(milliwatt).
Power Available	Remaining available power (milliwatt).
Power Reserved	Reserve power, when the "Power Available" is lower than the "Power Reserved", no power will be allocated to newly connected PDs.
Power Reserved Alert	An alarm is generated when the available power is lower than Reserved Power.
Threshold Power Alert	Generate an alarm when the allocated power reaches the threshold (default is 90% of the total power).

19.3 PoE Interface

Click "Maintenance->Configuration->PoE->PoE Interface" to entry PoE interface page.This displays the status and detailed power supply information of all PoE interface.

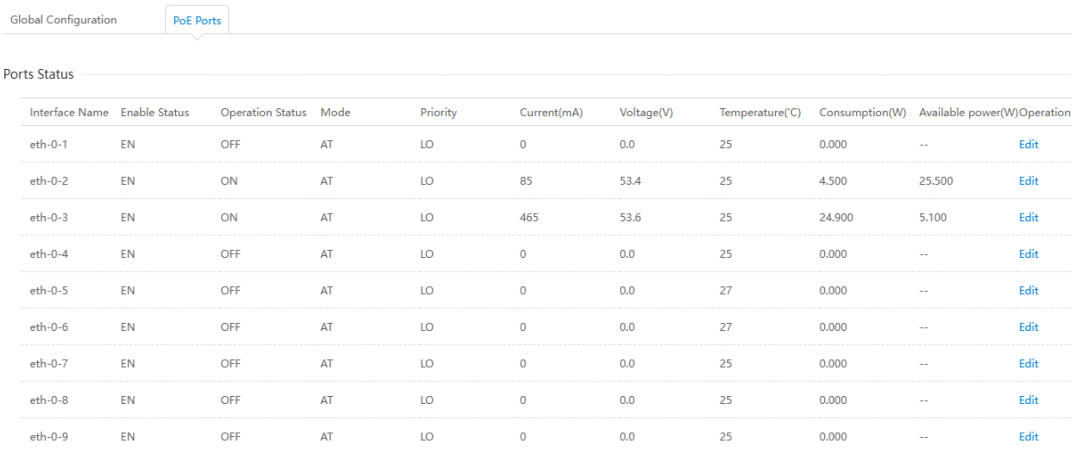


Figure 19-2 PoE Interface page

Table 19-2 Parameter description about PoE Interface

Parameter	Description
Interface Name	The names of the PoE Interface.
Enable Status	Enable/Disable status of PoE function for interface
Operation Status	PoE negotiation status, ON indicates power supply, OFF indicates negotiation failure and no power supply.
Mode	Power supply type, indicating the working mode of PD (802.3af/802.3at/802.3bt)
Priority	Priority of power supply: When the PoE power is insufficient, priority is given to supplying power to PDs connected to ports with higher priority.
Current(mA)	Current supply current of interface.
Voltage(V)	Voltage supply current of interface.
Temperature	The temperature of the PoE chip where this PoE interface is located.
Consumption	The current power consumption of this interface
Available	The available power consumption on this interface.
Operation	Click on "Edit" in the interface list to enter the PoE management page for this interface

The PoE Interface Edit page is shown in the following figure

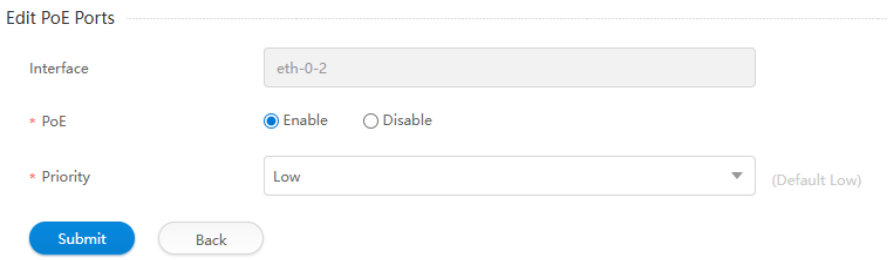


Figure 19-3 PoE Interface page

Table 19-3 Parameter description about PoE Interface Edit

Parameter	Description
Interface	The names of the PoE Interface.
PoE	Enable/Disable PoE function of interface
Priority	Configure the priority of the selected PoE interface.
Submit	Apply to make the configuration effective.
Back	Abandon modifications and return to the PoE Interface page

20 PTP

20.1 Overview

Here, basic PTP configuration can be completed, displaying PTP global and interface status.Usually, switches are not used as GM. When configuring PTP for switches, please ensure that key parameters such as "Sync Mode","Protocol", "Delay Mechanism","Domain","Sync interval" and "Announce interval" are consistent with GM.

Click “Maintenance->Configuration->PTP” to entry PTP main page.

20.2 PTP Information page

Click “Maintenance->Configuration->PTP->PTP Information” to entry “PTP Information” page, this page displays the configuration and status of PTP global and interfaces.

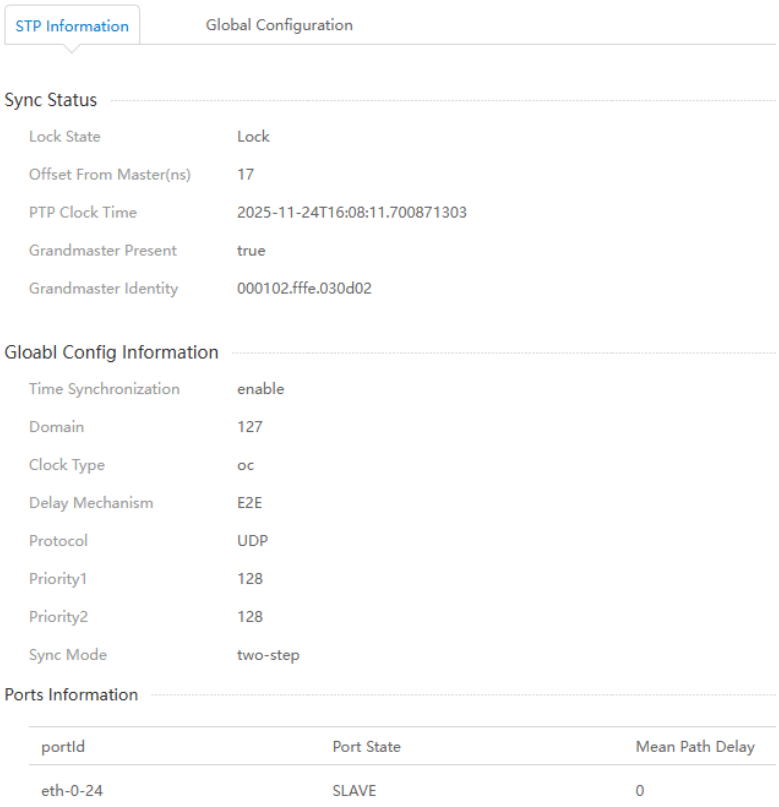


Figure 20-1 "PTP Information" main page

Table 20-1 Parameter description about PTP Information

Parameter	Description
Lock State	PTP clock status of the switch. Lock indicates synchronization with GM, Unlock indicates failure to synchronize with GM.
Offset From Master	The offset of the switch relative to the previous node.
PTP Clock Time	The current PTP clock time.
Grandmaster Present	The status of accepting GM timing, true indicates that GM timing has been accepted.
Grandmaster Identifi	ID of GM
Time Synchronization	PTP functional status:enable/disable
Domain	The PTP Domain where the switch is located is set to 0 by default

Clock Type	Device Type of Switch: OC/BC/E2E-TC/P2P-TC
Delay Mechanism	delay measurement mechanism on the interface
Protocol	The encapsulation protocol used for PTP interactive information:ether/udp
Priority1	oc|bc priority1
Priority2	oc|bc priority2
Sync Mode	clock step mode:one-step/two-step
PortID	PTP Port Name
Port State	PTP status of port.
Mean Path Delay	The average one-way network latency between two clock nodes (PTP ports).

20.3 PTP Global Configuration

Click "Maintenance->Configuration->PTP->Global Configuration" to entry "Global Configuration" page.

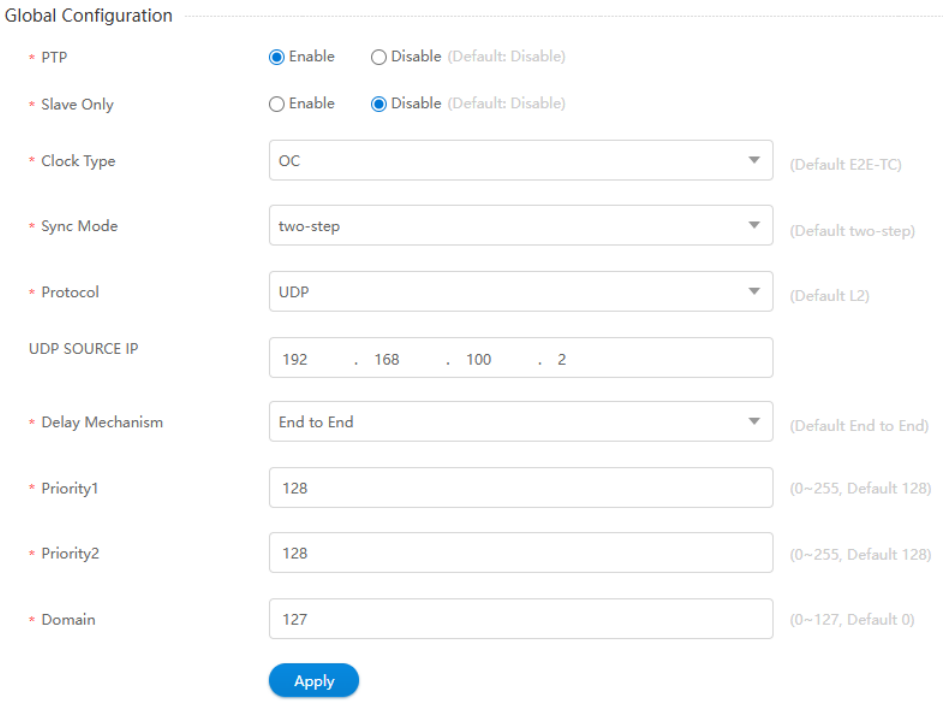


Figure 20-2 "Global Configuration" main page

Table 20-2 Parameter description about PTP Global Configuration

Parameter	Description
PTP	PTP functional status.
Slave Only	PTP Slave Only status.
Clock Type	PTP device-type.
Sync Mode	clock step mode:one-step/two-step.
Protocol	The encapsulation protocol used for PTP interactive information:ether/udp
UDP Source IP	PTP functional status:enable/disable
Delay Mechanism	delay measurement mechanism on the interface
Priority1	oc|bc priority1
Priority2	oc|bc priority2
Domain	The PTP Domain where the switch is located is set to 0 by default

Apply	Apply to make the configuration effective.

20.4 PTP Interface

The PTP interface information is displayed at the bottom of the Gloabla Configuration page.

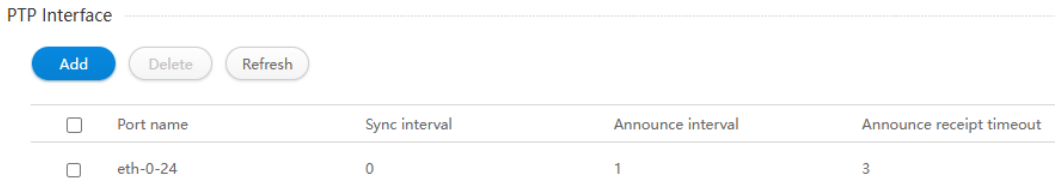


Figure 20-3 "PTP Interface" page

Table 20-3 Parameter description about PTP Interface

Parameter	Description
Add	Click the "Add" button to add an interface to enable PTP on the new page that will be redirected.
Delete	Delete PTP configuration on the interface.
Refresh	Refresh PTP interface information.
Port name	PTP Interface name
Sync interval	sync msg sends with a period of 2^interval seconds
Announce interval	announce message sends with a period of 2^interval seconds
Announce receipt timeout	announce message receive timeout times , multiple of announce interval.

20.4.2 Add PTP interface

Click 'Add' to go to the add port page. Select the port that needs to enable PTP on the new page and configure the basic parameters of the port.

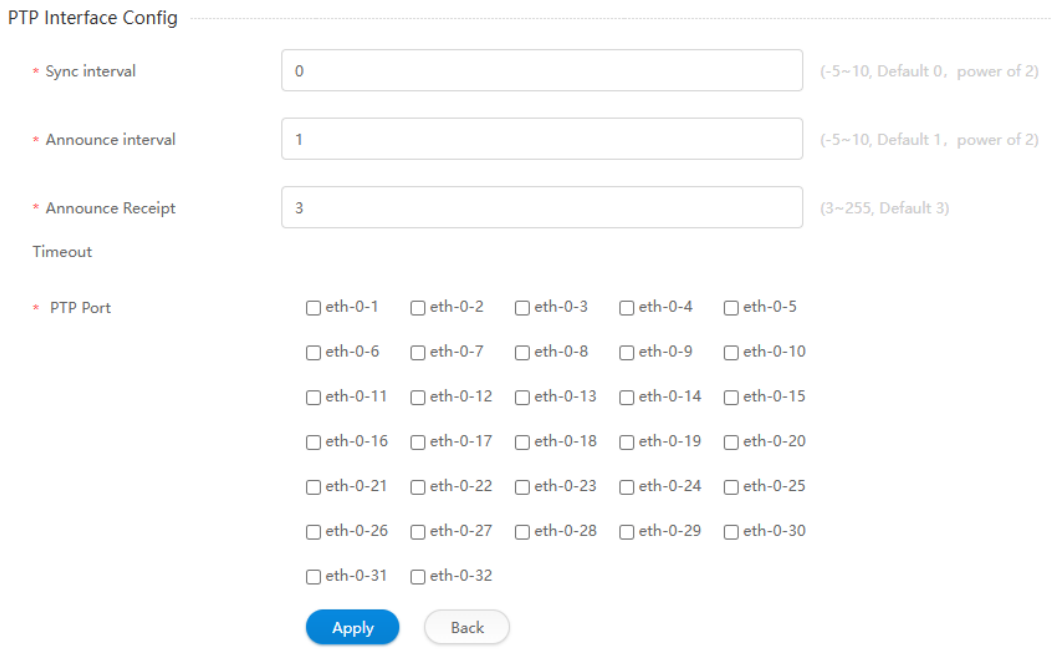


Figure 20-4 "PTP Interface" page

Table 20-4 Parameter description about PTP Interface

Parameter	Description
Sync interval	sync msg sends with a period of 2^interval seconds
Announce interval	announce message sends with a period of 2^interval seconds
Announce receipt timeout	announce message receive timeout times , multiple of announce interval.
PTP Port	Select the ports to enable PTP
Apply	Apply to make the configuration effective.
Back	Return to the Global Configuration page

21 Fast Link Aggregation

21.1 Overview

The Fast Link Aggregation page has pre-configured link aggregation, which only requires “enable” to complete the uplink interface link aggregation configuration, suitable for some simple application scenarios. The aggregation groups configured here are all static binding types. If the pre configured aggregation group is not what you want, or if you have already configured one of its interfaces, it may cause the aggregation configuration to fail. You can go to the "Configuration->Link Aggregation" page to complete the custom configuration.

21.2 Link Aggregation

Click “Maintenance->FastConfig->Fast Link Aggregation” to entry “Link Aggregation” page.

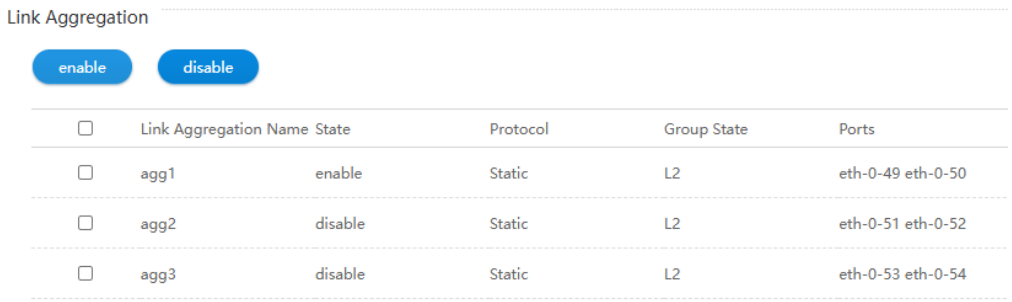


Figure 21-1 “Fast Link Aggregation” page

Parameter description, as shown in table below.

Table 21-1 Parameter description about Fast Link Aggregation Page

Parameter	Description
enable	Enable the Link Aggregation of the selected pre-configured group.
disable	Disable the Link Aggregation of the selected pre-configured group.
Link Aggregation Name	The name of the link aggregation
State	Whether the aggregation group is enabled.
Protocol	Link Aggregation protocol. This can only be static.
Group State	The status of the link aggregation
Ports	The name of the port for aggregating group members.

22 Fast Fec Mode

22.1 Overview

Complete the port's FEC configuration here. Only ports that support configuring FEC are displayed here.

22.2 Port list

Click “Maintenance->FastConfig->Fast Fec Mode” to entry “Port Fec” page.

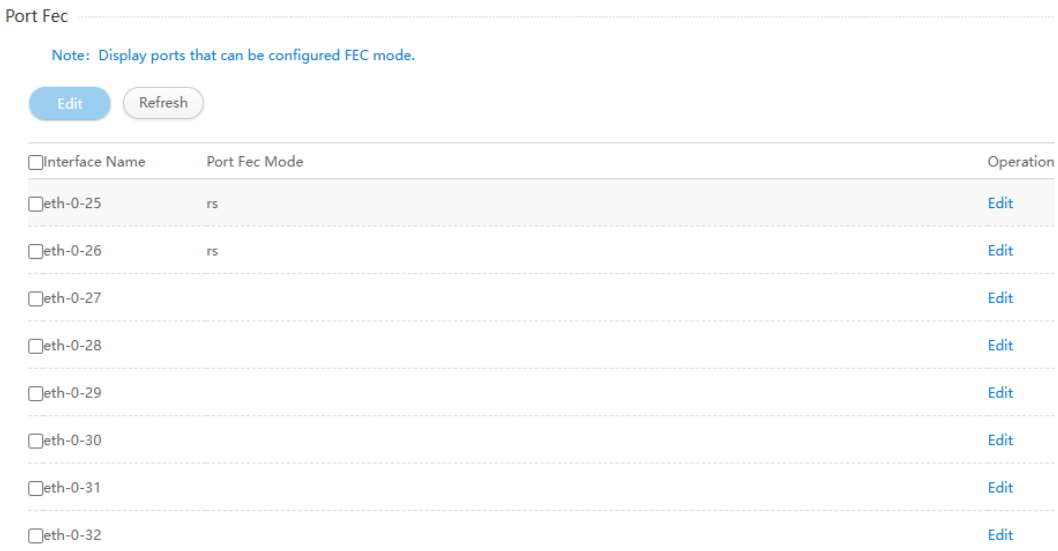


Figure 22-1 “Fast Fec Mode” page

Table 22-1 Parameter description about Port Fec

Parameter	Description
Edit	The 'Edit' button. Click to enter the FEC editing page for the selected ports.

Refresh	Refresh the page to display the latest configuration of the ports.
Interface Name	The name of the port where FEC parameters can be configured.
Port Fec Mode	The current FEC mode of the ports.
Operation	Click 'Edit' below to configure the FEC parameters for the corresponding port on the pop-up page.

22.3 Fec Configure

Click on "Edit" under "Operation", or select multiple ports and click the "Edit" button. On the pop-up page, you can configure FEC for one or more ports.

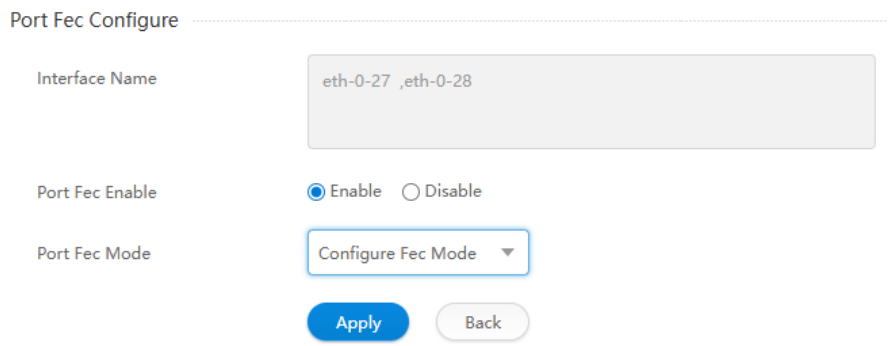


Figure 22-2 "Fec Configure" page

Table 22-2 Parameter description about Port Fec

Parameter	Description
Interface Name	The name of the selected ports
Port Fec Enable	Select Fec state:Enable or Disable
Port Fec Mode	Select Fec mode for the selected ports.
Apply	Apply to make the configuration effective, and Return to Port Fec page.
Back	Return to the Port Fec page

23 Fast Port Speed

23.1 Port Group Speed Config

Complete the ports's group-speed configuration here. Only ports that support group-speed are displayed here.These ports are grouped every four ports, and must maintain the same operating speed. Modifying the speed of one port can also result in changes to other ports in the same group.



Figure 23-1 "Fec Configure" page

Table 23-1 Parameter description about Group speed

Parameter	Description
Edit	Click to enter the configuration page.
Refresh	Click to display the latest status.

Interface Name	The interfaces that supports "group-speed" .
Speed	Speed of the interface
Operation	Click 'Edit' below to configure the speed for this port and other ports in the same group.

The configuration page that pops up is as follows:

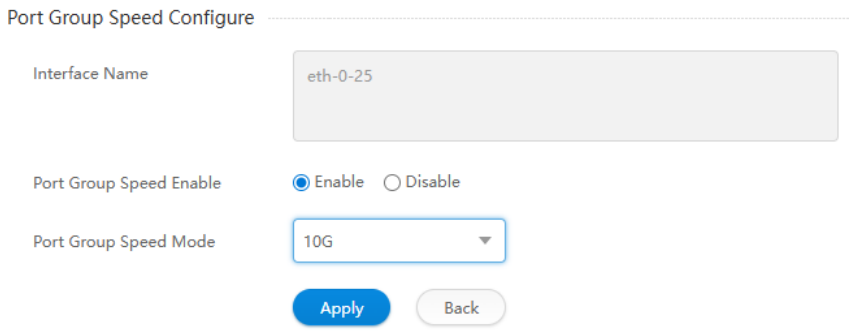


Figure 23-2 "Fec Configure" page

Table 23-2 Parameter description about Group speed

Parameter	Description
Interface Name	Selected interface
Port Group Speed Enable	Configure Group Speed:Enable or Disable
Port Group Speed Mode	Select the speed for this group of ports .
Apply	Apply to make the configuration effective，and return to the previous page.
Back	Return to the previous page.

24 Fast Port Split

24.1 Overview

Port splitting can be completed here, and after configuring the port splitting, the switch needs to be restarted for it to take effect. Ports with speeds of 40G and above only support splitting, and if there are no ports that support splitting, it will not be displayed.

The main page is as follows:

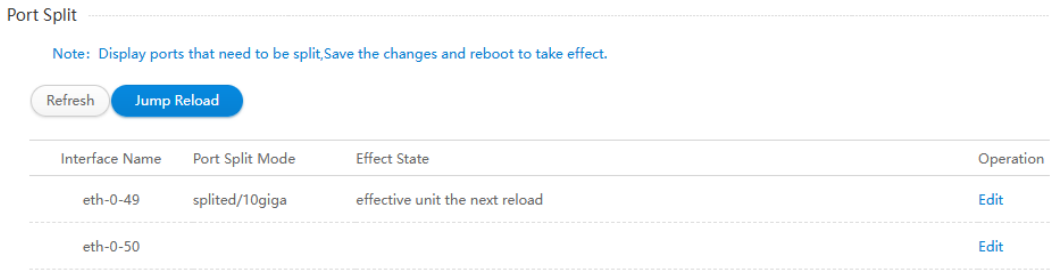


Figure 24-1 "Fast Port Split" main page

Parameter description, as shown in table below.

Table 24-1 Parameter description about Split Main Page

Parameter	Description
Refresh	Click to display the latest status.
Jump Reload	Jump to the Reboot page. After configuring port splitting, the switch needs to be restarted for it to take effect.
Interface Name	Interfaces that support splitting

Port Split Mode	Split state and speed.
Effect State	Whether the status is effective or not.
Operation	Click 'Edit' below to configure the split for this port.

24.2 Port Split Configure

Configure the splitting status and splitting rate of the port.

Note: Only by selecting the rate configuration supported by the port can it be successful.

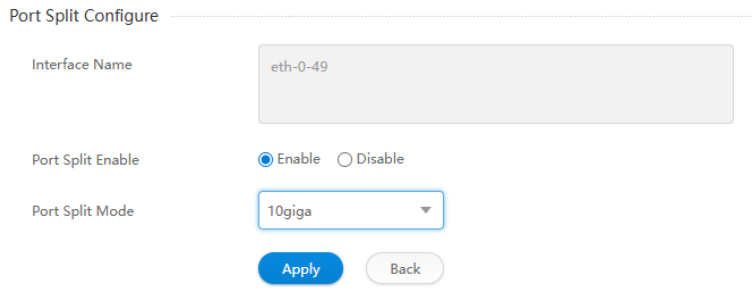


Figure 24-2 "Port Split Configure" page

Parameter description, as shown in table below.

Table 24-2 Parameter description about Split Main Page

Parameter	Description
Interface Name	Selected interface
Port Split Enable	Jump to the Reboot page. After configuring port splitting, the switch needs to be restarted for it to take effect.
Port Split Mode	The speed of the split member ports.
Apply	Apply to make the configuration effective，and return to the previous page.
Back	Return to the previous page.

If a speed that is not supported by the port is selected, the following prompt will appear when clicking “Apply”.

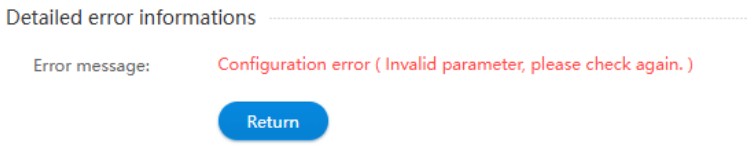


Figure 24-3 “Detailed error information” page

Clicking the “Jump Reload” will take you to the following Reboot page,The split configuration needs to take effect after rebooting.Refer to “Maintenance->Reboot/Sve” for relevant introduction

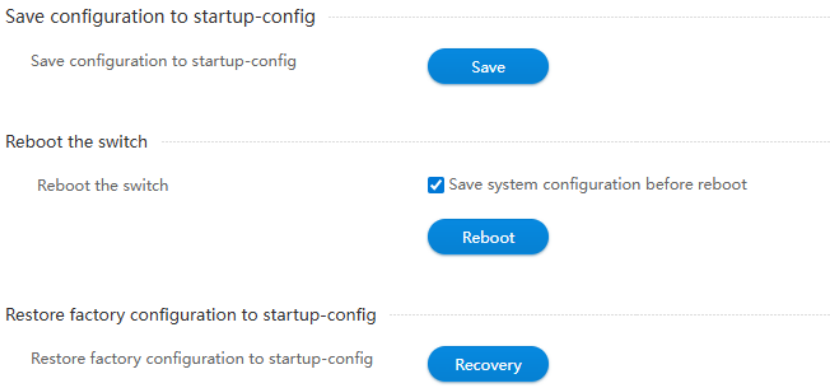


Figure 24-4 “Reload/Save” page

25 Reboot/Save

25.1 Overview

25.1.1 Reboot/Save page

Click "Maintenance->Reboot/Save" to entry "Reboot/Save" main page, as shown in figure below.

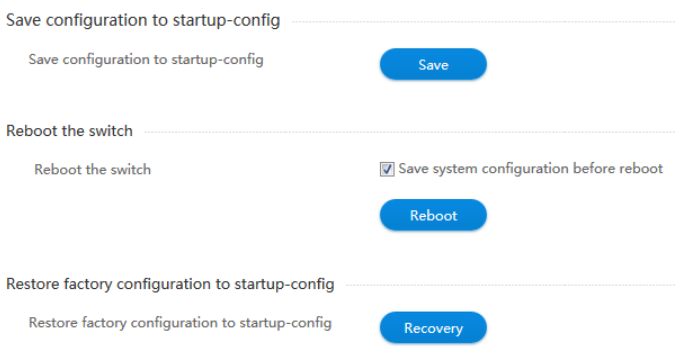


Figure 25-1 "Reboot/Save" main page

This chapter describes how to Reboot/Save if you want to restart the switch or save the current configuration.

Parameter description, as shown in table below.

Table 25-1 Parameter description about Reboot/Save Main Page

Parameter	Description
Save configuration to startup-config	Save current configuration to startup-config

Reboot the switch	Save current configuration to startup-config before reboot
Restore factory configuration to startup-config	Restore switch by using startup-config

25.2 Save configuration to startup-config

Click “Maintenance->Reboot/Save” to entry “Reboot/Save” main page, click “Save”， as shown in .

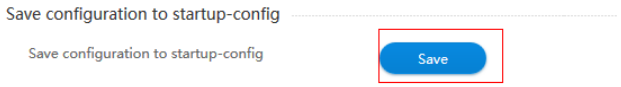


Figure 25-2 Save configuration to startup-config

25.3 Reboot the switch

Click “Maintenance->Reboot/Save” to entry “Reboot/Save” main page, click “Reboot”， as shown in .

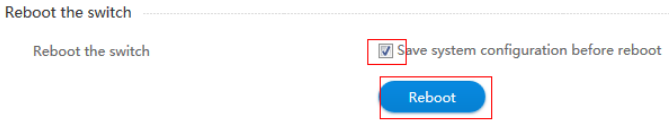


Figure 25-3 Reboot the switch

25.4 Restore factory configuration to startup-config

Click “Maintenance->Reboot/Save” to entry “Reboot/Save” main page, click “Recovery”， as shown in .

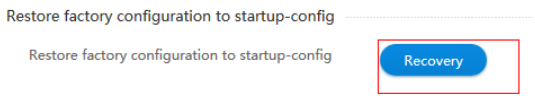


Figure 25-4 Restore factory configuration to startup-config

26 System Configuration

26.1 Overview

Click “Configuration->System Configuration” to entry “System Configuration” main page, as shown in figure below.

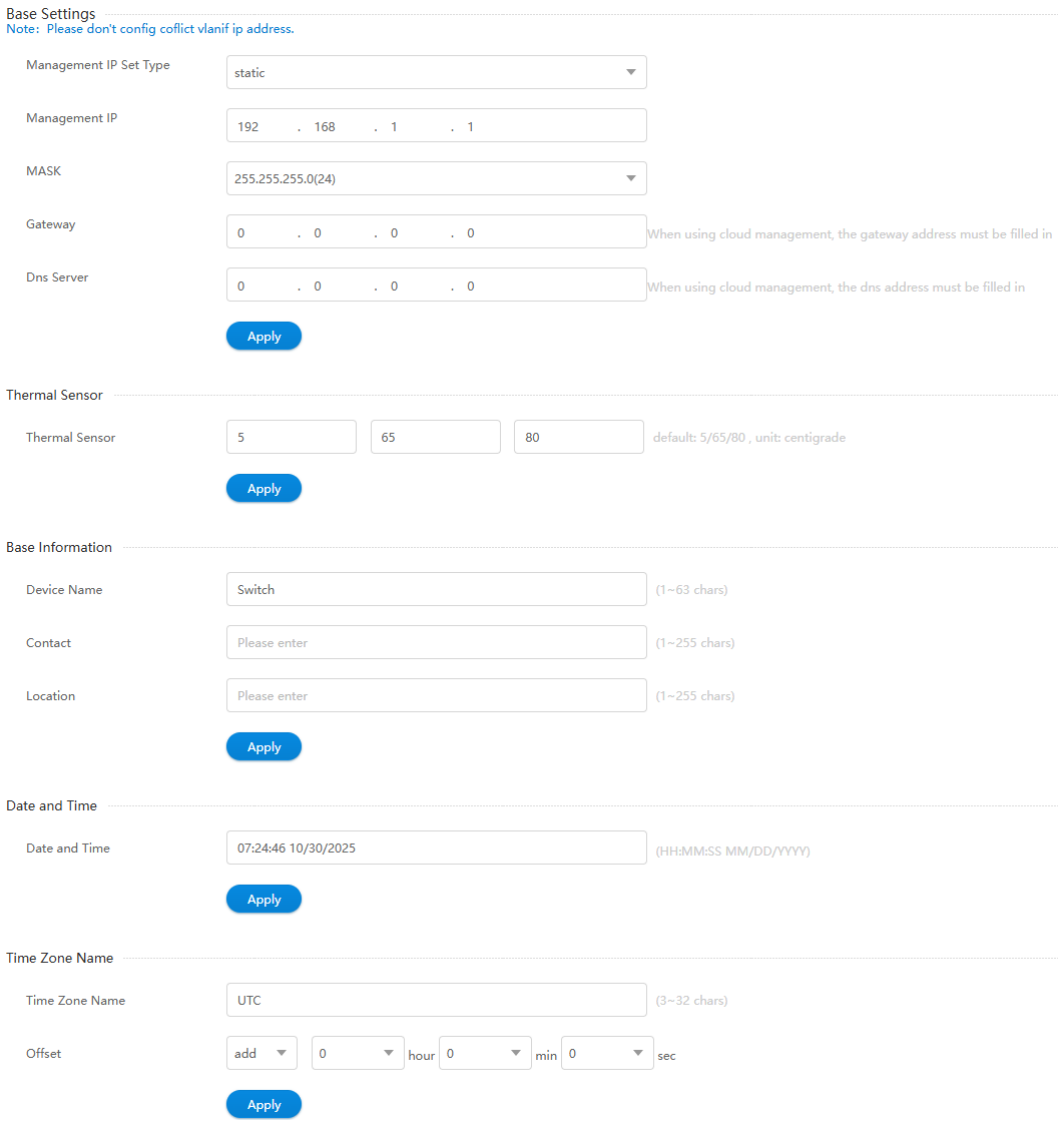


Figure 26-1 "System Configuration" main page

This chapter describes how to view and configure System Configuration.

Parameter description, as shown in table below.

Table 26-1 Parameter description about System Configuration Main Page

Parameter	Description
Base Settings	Set Base Settings
Thermal Sensor	Set Thermal Sensor
Base Information	Set Base Information
Date and Time	Set Date and Time
Time Zone Name	Set Time Zone Name
Apply	Apply to make the configuration effective

26.2 Base Settings

Click "Configuration->System Configuration" to entry "System Configuration" Base Settings page, as shown in figure below.

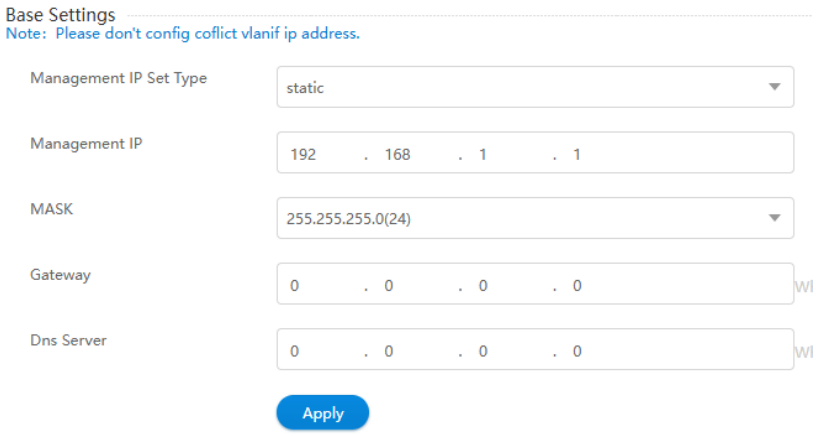


Figure 26-2 Base Settings

Parameter description, as shown in table below.

Table 26-2 Parameter description about System Configuration Base Settings Page

Parameter	Description
Management IP Set Type	The type of IP address management can be selected from static configuration or dynamic acquisition.
Management IP	Manage switch via this IP
MASK	Locate Management IP`s network bits(enable to select)
Gateway	Defaults route
DNS Server	IP address of DNS Server
Apply	Apply to make the configuration effective

26.3 Thermal Sensor

Click “Configuration->System Configuration” to entry “System Configuration” Thermal Sensor page, as shown in figure below.



Figure 26-3 Thermal Sensor

Parameter description, as shown in table below.

Table 26-3 Parameter description about System Configuration Thermal Sensor Page

Parameter	Description
Thermal Sensor	Set threshold of temperature(default: 5/65/80 , unit: centigrade)

Apply	Apply to make the configuration effective

26.4 Base Information

Click "Configuration->System Configuration" to entry "System Configuration" Base Information page, as shown in figure below.

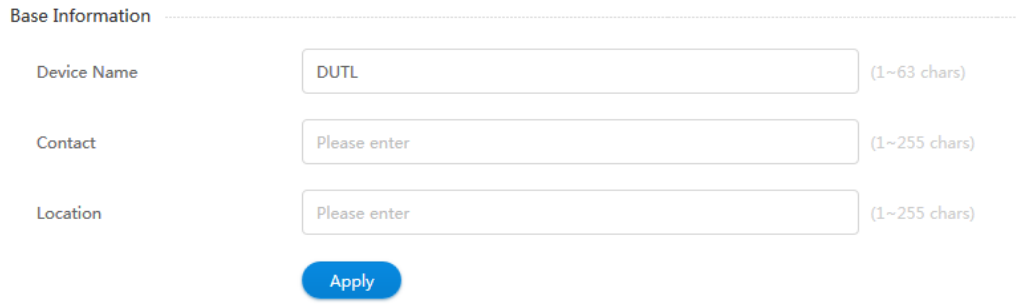


Figure 26-4 Base Information

Parameter description, as shown in table below.

Table 26-4 Parameter description about System Configuration Base Information Page

Parameter	Description
Device Name	Switch hostname(1~63 chars)
Contact	How to contact this switch in the other words contact is manage IP of this switch or Other information which can visit this switch(1~255 chars)
Location	Where the switch is(1~255 chars)
Apply	Apply to make the configuration effective

26.5 Date and Time

Click “Configuration->System Configuration” to entry “System Configuration” Date and Time page, as shown in figure below.

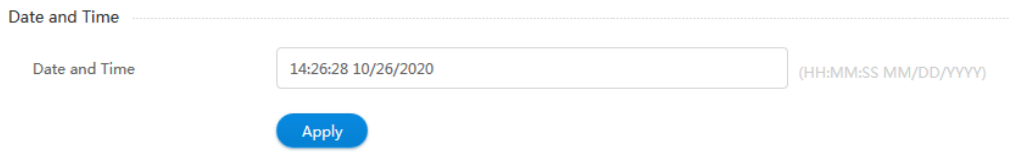


Figure 26-5 Date and Time

Parameter description, as shown in table below.

Table 26-5 Parameter description about System Configuration Date and Time Page

Parameter	Description
Date and Time	Set Date and Time((HH:MM:SS MM/DD/YYYY))
Apply	Apply to make the configuration effective

26.6 Time Zone Name

Click “Configuration->System Configuration” to entry “System Configuration” Time Zone Name page, as shown in figure below.

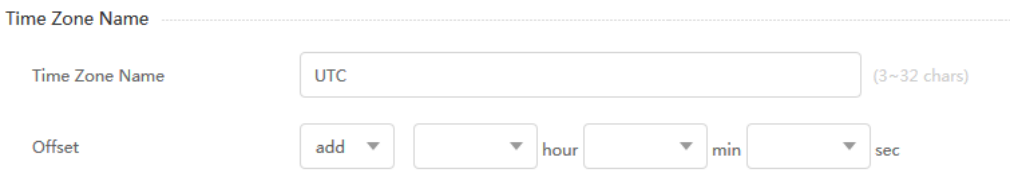


Figure 26-6 Time Zone Name

Parameter description, as shown in table below.

Table 26-6 Parameter description about System Configuration Time Zone Name Page

Parameter	Description
Time Zone Name	Time zone(3~32 chars)
Offset	Offset depends between GMT and Time Zone which your set(enable to select)
Apply	Apply to make the configuration effective

27 Load Configuration

27.1 Overview

Click "Configuration->Load Configuration" to entry "Load Configuration" main page, as shown in figure below.

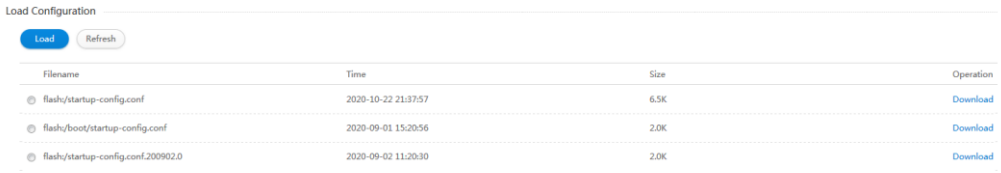


Figure 27-1 "Load Configuration" main page

This chapter describes how to load System Configuration.

Parameter description, as shown in table below.

Table 27-1 Parameter description about Loading Configuration Main Page

Parameter	Description
Load	Load checked configuration
Refresh	Refresh Page
Download	Download the Configuration

27.2 Load

Click "Configuration->Load Configuration" to entry "Load Configuration" Load page, as shown in figure below.

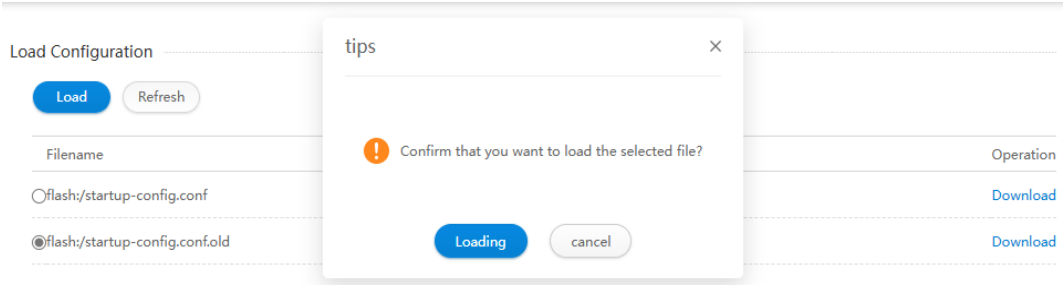


Figure 27-2 Load

Parameter description, as shown in table below.

Table 27-2 Parameter description about Loading Configuration Load Page

Parameter	Description
Filename	Display name of configuration file
Time	Display last modified time of configuration file
Size	Display size of configuration file
Operation	Display that the configuration file can be downloaded

27.3 Refresh

Click "Configuration->Load Configuration" to entry "Load Configuration" page, then click refresh,as shown in figure below.

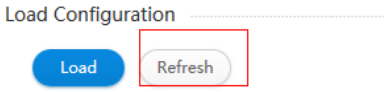


Figure 27-3 Refresh

27.4 Download

Click "Configuration->Load Configuration" to entry "Load Configuration" Download page, then click Download. You can download the configuration

file and saved in the disk of PC or in the mobile storage device as the backup file and you can also see the configuration file, as shown in figure below.



Figure 27-4 Load

28 File Management

28.1 Overview

28.1.1 File Management page

Click “Configuration->File Management” to entry “File Management” main page, as shown in figure below.

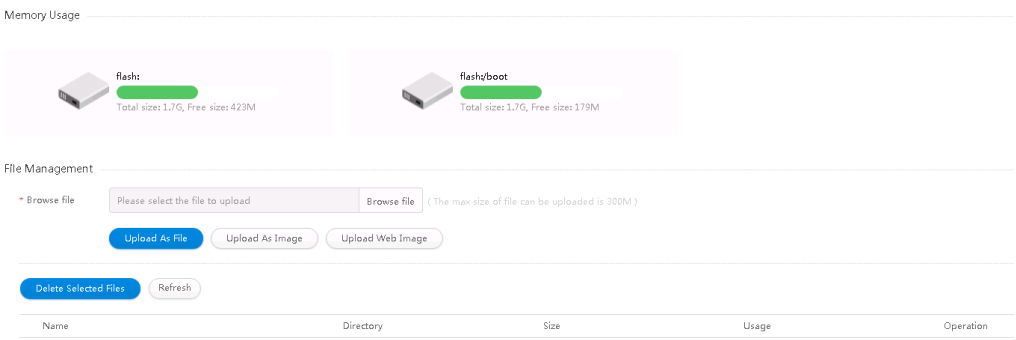


Figure 28-1 “File Management” main page

This chapter describes how to view and configure file Information.

28.2 Memory Usage

Click “Configuration->File Management” to entry “File Management” Memory Usage page, as shown in figure below.

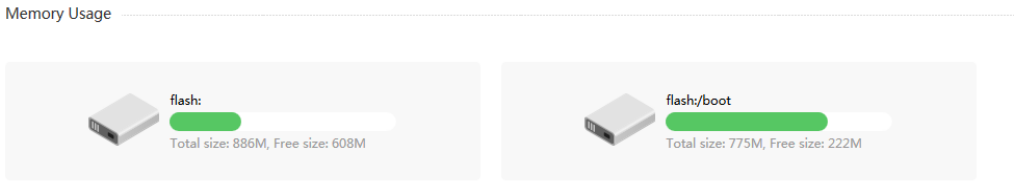


Figure 28-2 Memory Usage

Parameter description, as shown in table below.

Table 28-1 Parameter description about File Management Memory Usage Page

Parameter	Description
flash:	Flash directory at the root of system
flash:/boot	Flash:/boot directory at the root of system

28.3 Upload File

Click "Configuration->File Management" to entry "File Management" Upload File page, as shown in figure below.

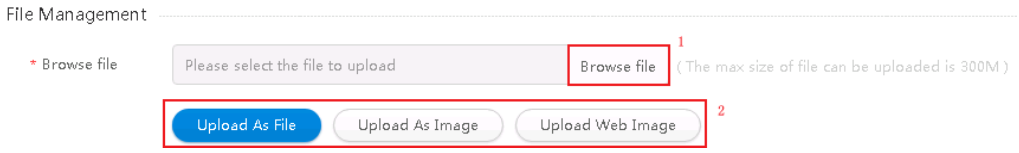


Figure 28-3 Upload File

Parameter description, as shown in table below.

Table 28-2 Parameter description about File Management Memory Usage Page

Parameter	Description
Browse file	Browse local file to upload
Upload As File	Upload the chosen files to Switch
Upload As Image	Upload the chosen files to Switch as a boot image
Upload Web Image	Upload the chosen files to Switch as a web boot image

28.4 Delete Files

Click “Configuration->File Management” to entry “File Management” Delete Files page, click “Delete” , as shown in figure below.

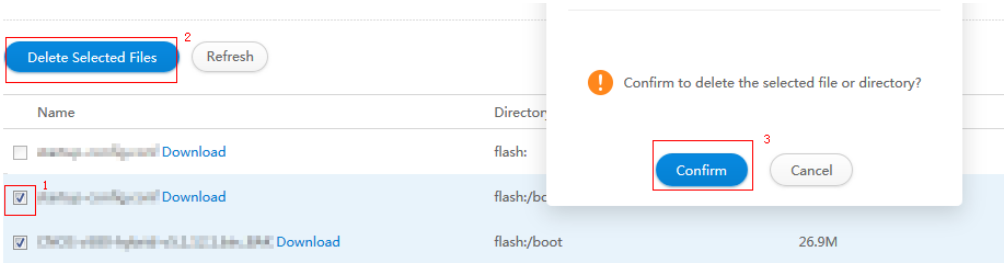


Figure 28-4 Delete Files

28.5 Refresh Page

Click “Configuration->File Management” to entry “File Management” Refresh page, click “Refresh”, as shown in figure below.

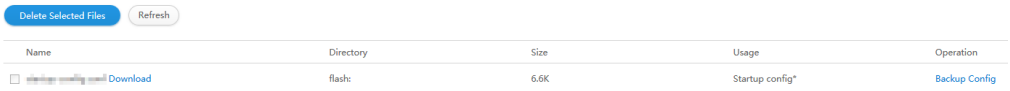


Figure 28-5 Refresh page

Parameter description, as shown in table below.

Table 28-3 Parameter description about File Management refresh Page

Parameter	Description
Name	system filename
Directory	location of system files
Size	size of system files in bytes
Usage	description of system files

Operation	operation for the special files , include:Use Image , use this file as the next boot image; Backup Config, save running configuration to this file; Use Config, use this file as the next start up configuration.

28.6 Download File

Click “Configuration->File Management” to entry “File Management” Download Files page, click “Download” , as shown in figure below.

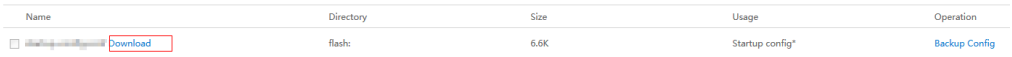


Figure 28-6 Download Files

29 Log Management

29.1 Overview

Click "Configuration->Log Management" to entry "Log Management" main page, as shown in figure below.

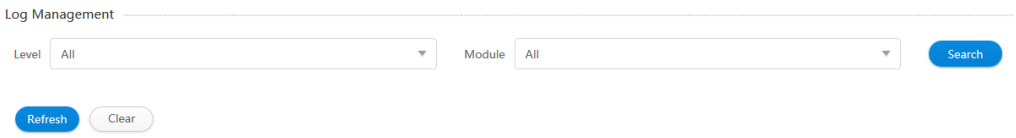


Figure 29-1 "Log Management" main page

This chapter describes how to view log Information.

Parameter description, as shown in table below.

Table 29-1 Parameter description about log Management main Page

Parameter	Description
Search	Search log
Refresh	Refresh page
Clear	Clear all logs

29.2 Search log

Click "Configuration->Log Management" to entry "Log Management" search page, select level or module , click "Search", as shown in figure below.

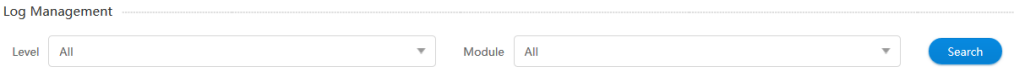


Figure 29-2 search log

Parameter description, as shown in table below.

Table 29-2 Parameter description about log Management search Page

Parameter	Description
Level	Display special log level as condition for search(enable to select)
Module	Display special module creating logs as condition for search(enable to select)

29.3 Refresh Page

Click “Configuration->Log Management” to entry “Log Management” refresh page, click “Refresh”, as shown in figure below.

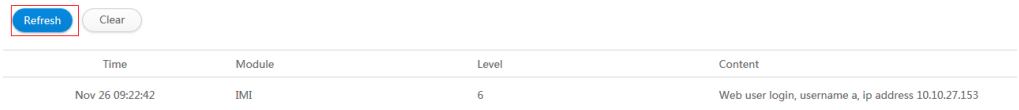


Figure 29-3 refresh page

Parameter description, as shown in table below.

Table 29-3 Parameter description about log Management refresh Page

Parameter	Description
Time	Display the time of log generated
Module	Display Name of the module generating the log
Level	Display Log information level
Content	Display The log content

29.4 Clear log

Click “Configuration->Log Management” to entry “Log Management” clear page, click “Clear”, as shown in figure below.



Figure 29-4 clear log

30 SNMP Configuration

30.1 Overview

Click “Configuration->SNMP” to entry “SNMP” main page, as shown in figure below.

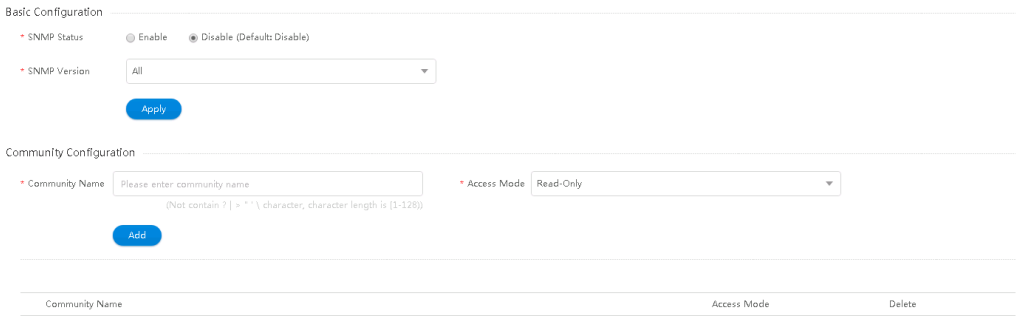


Figure 30-1 “SNMP” main page

This chapter describes how to view and configure SNMP Information. SNMPv1, SNMPv2 uses group name authentication. A group is a basic security mechanism. It is used to implement authentication when an SNMP network administrator accesses the SNMP management agent. SNMP packets with different group names will be discarded. The SNMP group is named by a string and becomes the group name. Different groups can have read-only or read-write access modes. Groups with read-only permissions can only query device information, and groups with read-write permissions can also configure devices.

Parameter description, as shown in table below.

Table 30-1 Parameter description about SNMP main Page

Parameter	Description
Apply	Set SNMP Basic Configuration
Add	Add Basic Community Configuration
Delete	Delete SNMP Configuration

30.2 Basic Configuration

Click "Configuration->SNMP" to entry "SNMP" Basic Configuration page, click Apply, as shown in figure below.

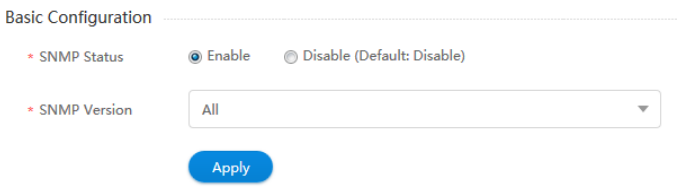


Figure 30-2 Basic Configuration

Parameter description, as shown in table below.

Table 30-2 Parameter description about SNMP Basic Configuration Page

Parameter	Description
SNMP Status	Set the SNMP status. It is enabled or disabled
SNMP Version	Set the enabled SNMP versions. All of them enable or enable Version 1, Version 2, and Version 3

30.3 Community Configuration

Click "Configuration->SNMP" to entry "SNMP" Community Configuration page, click Add, as shown in figure below.

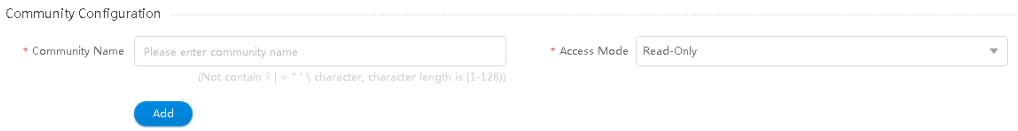


Figure 30-3 Community Configuration

Parameter description, as shown in table below.

Table 30-3 Parameter description about SNMP Community Configuration Page

Parameter	Description
Community Name	Set SNMP Group name(Not contain ? | > " ' \ or spacebar, character length is [1-128))
Access Mode	Set Group access mode, read-only or read-write

30.4 Delete Configuration

Click "Configuration->SNMP" to entry "SNMP" Delete page, click Delete, as shown in figure below.



Figure 30-4 Delete Community Configuration

Parameter description, as shown in table below.

Table 30-4 Parameter description about SNMP Delete Page

Parameter	Description
Community Name	Set SNMP Group name(Not contain ? | > " ' \ or spacebar, character length is [1-128))
Access Mode	Set Group access mode, read-only or read-write
Delete	Delete Community Configuration

31 SNMP Trap Configuration

31.1 Overview

Click “Configuration->SNMP Trap” to entry “SNMP Trap” main page, as shown in figure below.

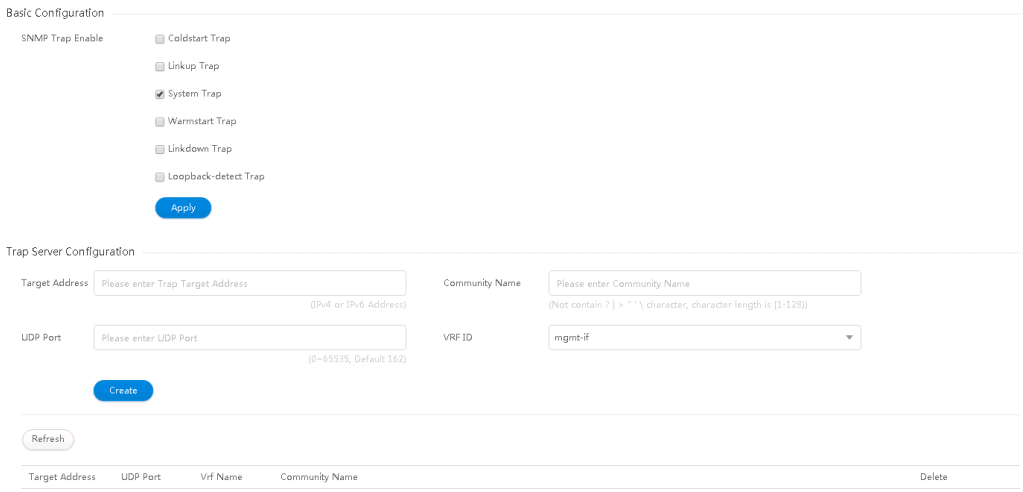


Figure 31-1 “SNMP Trap” main page

This chapter describes how to view and configure SNMP Trap Information. TRAP is a mechanism that provides asynchronous reporting from the agent process to the management station. In order to enable the management station to monitor the managed equipment in a timely and effective manner without excessively increasing the communication load on the network, trap must be used. The agent process is responsible for reporting an abnormal event to the management station when necessary. After receiving the report of the abnormal event, the management station can

inquiry the relevant agent in order to obtain more specific information and further analyze the cause of the event.

Parameter description, as shown in table below.

Table 31-1 Parameter description about SNMP Trap main Page

Parameter	Description
Apply	SNMP Trap enable
Create	Trap server configuration
Refresh	Refresh trap configuration
Delete	Delete trap configuration

31.2 SNMP Trap Enable

Click "Configuration->SNMP Trap" to entry "SNMP Trap" Enable page, click Apply, as shown in figure below.

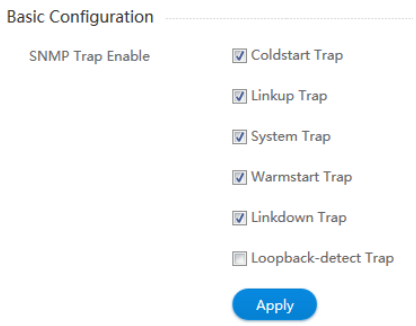


Figure 31-2 Enable page

Parameter description, as shown in table below.

Table 31-2 Parameter description about SNMP Trap Enable Page

Parameter	Description
Coldstart Trap	A coldstart Trap signifies that the switch reboot when power is off

Linkup Trap	A Linkup trap signifies that the sending protocol entity recognizes that one of the communication links represented in the agent's configuration has come up
System Trap	A System trap signifies that the protocol has detected a system failure
Warmstart Trap	A warmstart Trap signifies that the switch manually reboot
Linkdown Trap	A Linkdown trap signifies that the sending protocol entity recognizes a failure in one of the communication links represented in the agent's configuration
Loopback-detect Trap	A Loopback-detect traps indicate that the protocol has identified loops in the link

31.3 Trap server configuration

Click "Configuration->SNMP Trap" to entry "SNMP Trap" Trap server configuration page, click Create, as shown in figure below.

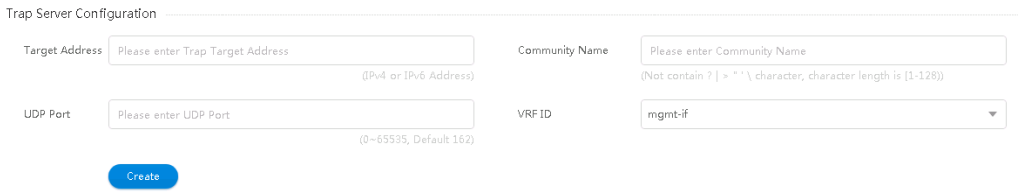


Figure 31-3 snmp_target

Parameter description, as shown in table below.

Table 31-3 Parameter description about SNMP Trap target address Page

Parameter	Description
Target Address	Destination server address, IPv4 format or IPv6 format(IPv4 or IPv6 Address)
Community Name	SNMP community name(Not contain ? | > " ' \ or spacebar, character length is [1-128))
UDP Port	Target server corresponding UDP port number(0~65535, Default 162)
VRF ID	Mgmt-if means forwarding through the management port,default vrf means forwarding through the in-band port

31.4 Refresh trap configuration

Click "Configuration->SNMP Trap" to entry "SNMP Trap" Refresh configuration page, click refresh, as shown in figure below.



Figure 31-4 Refresh configuration

31.5 Delete trap configuration

Click "Configuration->SNMP Trap" to entry "SNMP Trap" Delete configuration page, click Delete, as shown in figure below.

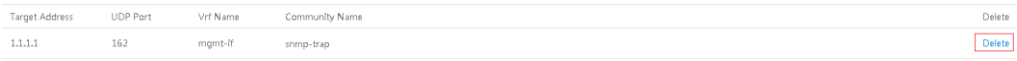


Figure 31-5 Delete configuration

32 DDos Intercept

Click “Configuration->DDoS Intercept” to entry “DDoS Intercept” main page, check Intercept , set vlaue , then click “Apply” , as shown in figure below.

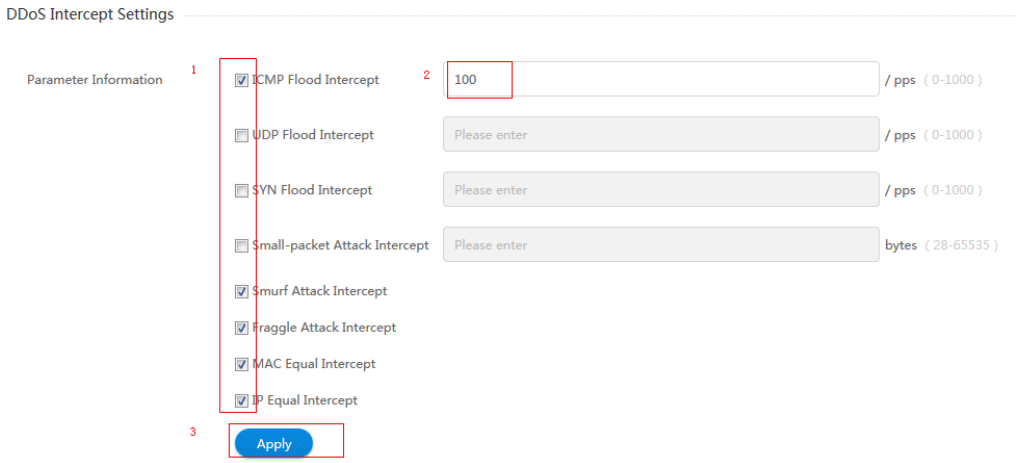


Figure 32-1 DDoS Intercept

This chapter describes how to view and configure DDoS Intercept Information. A DDoS (distributed denial of service attack) refers to multiple attackers in different locations launching attacks on one or several targets simultaneously, or an attacker controls multiple machines in different locations , and use these machines to attack the victims at the same time. Because the attack points are distributed in different places, this type of attack is called a distributed denial of service attack.In order to prevent DDoS attacks, you can set DDoS interception. DDoS interception settings can limit DDoS attacks according to different types of attacks.

Parameter description, as shown in table below.

Table 32-1 Parameter description about DDos Intercept main Page

Parameter	Description
ICMP Flood Intercept	This interception is used to defend against ICMP attacks.（0-1000）/pps
UDP Flood Intercept	This interception is used to defend against UDP attacks.（0-1000）/pps
SYN Flood Intercept	This interception is used to defend against SYN attacks.（0-1000）/pps
Small-packet Attack Intercept	This interception is used to defend against Small-packet attacks.(28-65535)/bytes
Smurf Attack Intercept	This interception is used to defend against Smurf attacks.
Fraggle Attack Intercept	This interception is used to defend against Fraggle attacks.
MAC Equal Intercept	This interception is used to defend against MAC Equal attacks.
IP Equal Intercept	This interception is used to defend against IP Equal attacks.
Apply	Apply to make the configuration effective.

33 ARP Intercept

Click “Configuration->ARP Intercept” to entry “ARP Intercept” main page, check Intercept , set vlaue , then click “Apply” , as shown in figure below.

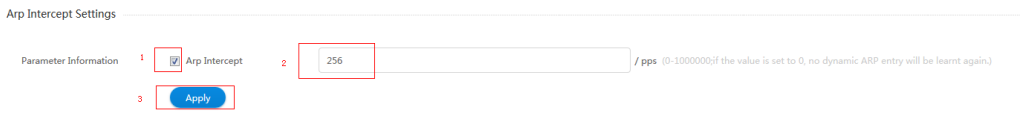


Figure 33-1 ARP Intercept

This chapter describes how to view and configure ARP Intercept Information.

Parameter description, as shown in table below.

Table 33-1 Parameter description about ARP Intercept main Page

Parameter	Description
Arp Intercept	Set Arp Intercept , (0-1000000; if the value is set to 0, no dynamic ARP entry will be learnt again .)
pps	Packets per second

34 Currently Sessions

34.1 Overview

Click “Configuration->Currently Sessions” to entry “Currently Sessions” main page, as shown in figure below.

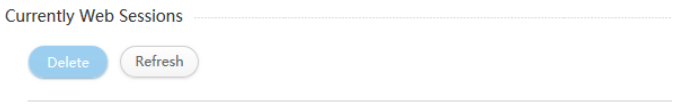


Figure 34-1 Currently Sessions

This chapter describes how to view and configure currently sessions Information.

Parameter description, as shown in table below.

Table 34-1 Parameter description about currently sessions main Page

Parameter	Description
Delete	Delete Session
Refresh	Refresh Page

34.2 Delete Sessions

Click “Configuration->Currently Sessions” to entry “Currently Sessions” main page, check session， then click Delete , as shown in figure below.

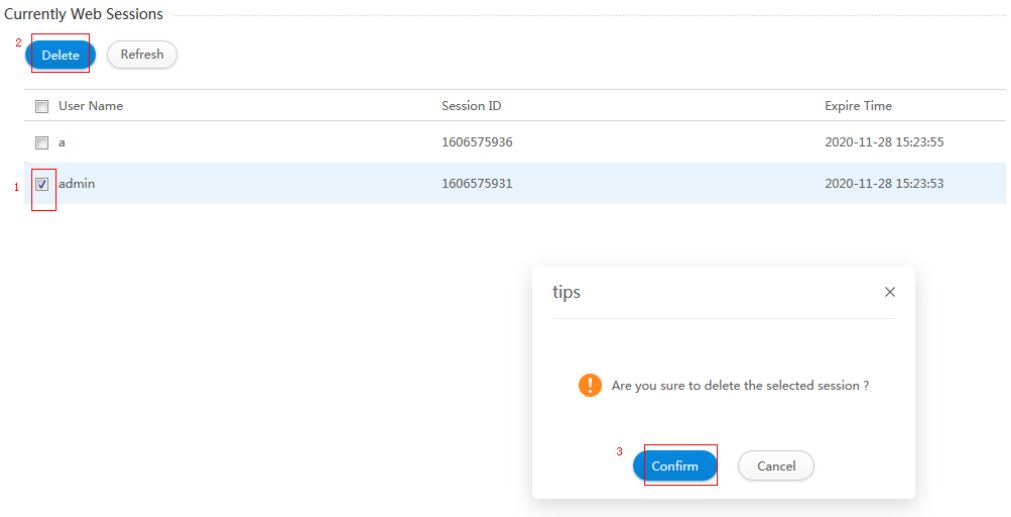


Figure 34-2 Delete Sessions

34.3 Refresh page

Click "Configuration->Currently Sessions" to entry "Currently Sessions" main page, click refresh， as shown in figure below.

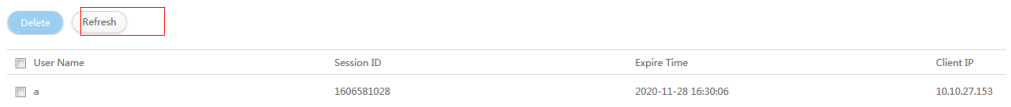


Figure 34-3 Refresh page

Parameter description, as shown in table below.

Table 34-2 Parameter description about currently sessions refresh Page

Parameter	Description
User Name	Display user name
Session ID	Display session id
Expire Time	Display the expire time
Client IP	Display client IP address

35 User Management

35.1 Overview

Click “Configuration->User Management” to entry “User Management” main page, as shown in figure below.

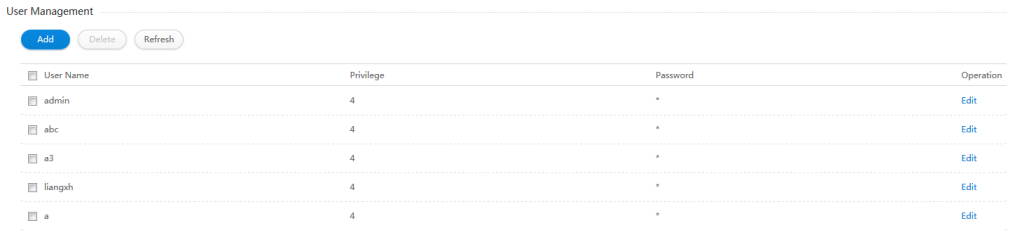


Figure 35-1 “User Management” main page

This chapter describes how to view and configure User Information.

Parameter description, as shown in table below.

Table 35-1 Parameter description about User Management Main Page

Parameter	Description
Add	Add User
Delete	Delete User
Refresh	Refresh Page
Edit	Edit User

35.2 Add User

Click “Configuration->User Management” , then click “Add”, to entry “User Management” Add/Modify User page, as shown in figure below.



Figure 35-2 Add/Modify User page

User Privilege :

(1)User Privilege Level 1: You can execute commands for functions such as network diagnostics. Including commands such as ping, tracert, and telnet. The results of executing commands at this level cannot be saved to the configuration file.

(2)User Privilege Level 2: It can execute commands for system maintenance, business fault diagnosis, and other functions. Including commands such as debugging and terminal. The results of executing commands at this level cannot be saved to the configuration file.

(3)User Privilege Level 3: It can execute commands for service configuration, including network-level commands such as routing, to provide network services to users.

(4)User Privilege Level 4: At the highest level, you can run all commands: commands related to the basic operation of the system and functions of the system support module. These commands provide support to the business. Including file system, FTP, TFTP, XModem download, user management commands, level setting commands, etc.

Parameter description, as shown in table below.

Table 35-2 Parameter description about User Management Add Modify user Page

Parameter	Description
User Name	Set user name(Start with a letter, can only contain[0-9a-zA-Z.-_],character length is [1,32))
Password	user's password
Confirm Password	input Password again
Privilege	Privilege of User(1-4)
Apply	Apply to make the configuration effective.
Back	Back to User Management Page.

35.3 Delete User

Click "Configuration->User Management", then click "Delete", to entry "User Management" Delete User page, as shown in figure below.

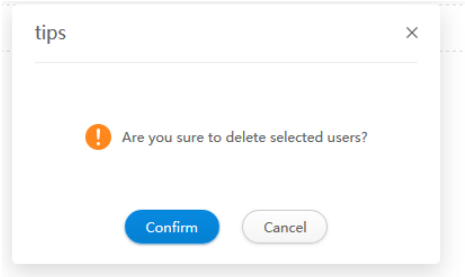


Figure 35-3 Delete User

35.4 Refresh Page

Click "Configuration->User Management" to entry "User Management" page, click refresh, as shown in figure below.



Figure 35-4 refresh

Parameter description, as shown in table below.

Table 35-3 Parameter description about User Management Add Refresh user Page

Parameter	Description
User Name	Display user name(Start with a letter, can only contain[0-9a-zA-Z.-_], character length is [1,32))
Privilege	Display Privilege of User(1-4)
Password	Display user's password
Operation	Edit

35.5 Edit User

Click "Configuration->User Management->Add" to entry "User Management" Modify User page, as shown in figure below.



Figure 35-5 Modify User page

Parameter description, as shown in table below.

Table 35-4 Parameter description about User Management Add Modify user Page

Parameter	Description
User Name	Display user name(Start with a letter, can only contain[0-9a-zA-Z.-_],character length is [1,32))
Password	user's password
Confirm Password	input Password again
Privilege	Privilege of User(1-4)
Apply	Apply to make the configuration effective.
Back	Back to User Management Page

36 IP Routing

36.1 Overview

Click “Network->IP Routing” to entry “IP Routing” main page, as shown in figure below.



Figure 36-1 “IP Routing” main page

This chapter describes how to view and configure IP Static Routing.

Parameter description, as shown in table below.

Table 36-1 Parameter description about IP Routing Main Page

Parameter	Description
IPv4 Routing Table Information	Display routing table information
IPv4 Static Route Information	Display static routing information

36.2 IPv4 Routing Table Information

Click “Network->IP Routing->IPv4 Routing Table Information” to entry “IPv4 Routing Table Information” page,check protocol type, click “Query” , as shown in figure below.

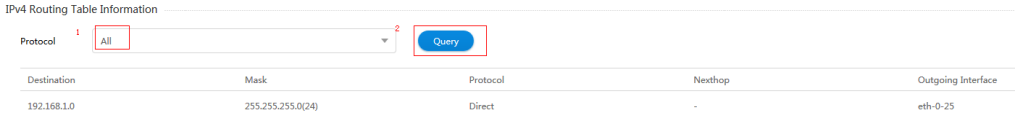


Figure 36-2 IPv4 Routing Table Query

Parameter description, as shown in table below.

Table 36-2 Parameter description about IPv4 Routing Table Page

Parameter	Description
Protocol	Check a protocol(ALL/BGP/Direct/OSPF /RIP/Static)
Destination	Display destination IP address of the route
Mask	Display IP address mask of the Destination
Protocol	Display the kind of route
Nexthop	Display nexthop of the route
Outgoing Interface	Display outgoing interface of the route
Query	Query route table entry by the protocol types

36.3 IPv4 Static Route Information

36.3.1 New IP Static Route

Click "Network->IP Routing->IPv4 Static Route Information" to entry "IPv4 Static Route Information" page, click "New" , as shown in figure below.

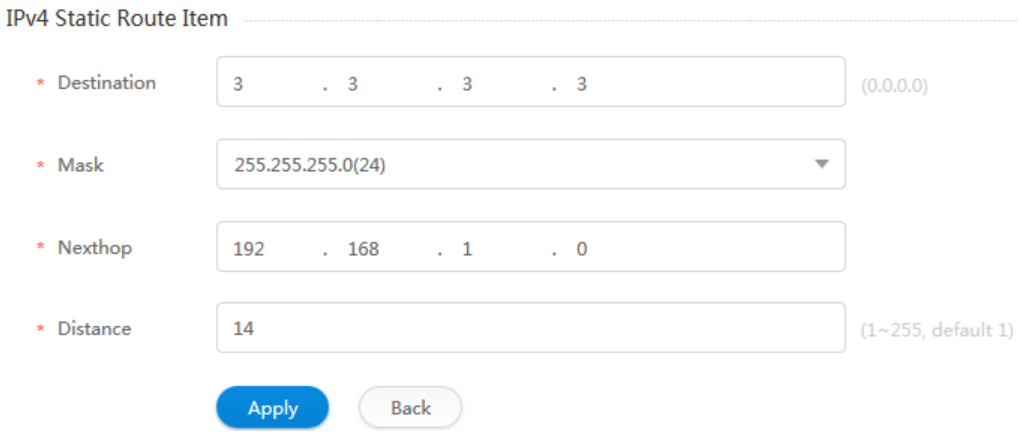


Figure 36-3 New IP Static Route

Parameter description, as shown in table below.

Table 36-3 Parameter description about New IPv4 Routing Page

Parameter	Description
Destination	Set destination IP address of the route(0.0.0.0)
Mask	SetIP address mask of the Destination(enable to select)
Nexthop	Set nexthop of the route
Distance	Set route's distance(1~255, default 1)
Apply	Apply to make the configuration effective.
Back	Back to IPv4 Static route Information Page

36.3.2 Delete IP Static Route

Click "Network->IP Routing->IPv4 Static Route Information" to entry "IPv4 Static Route Information" page, check route entry， click "Delete" , as shown in figure below.

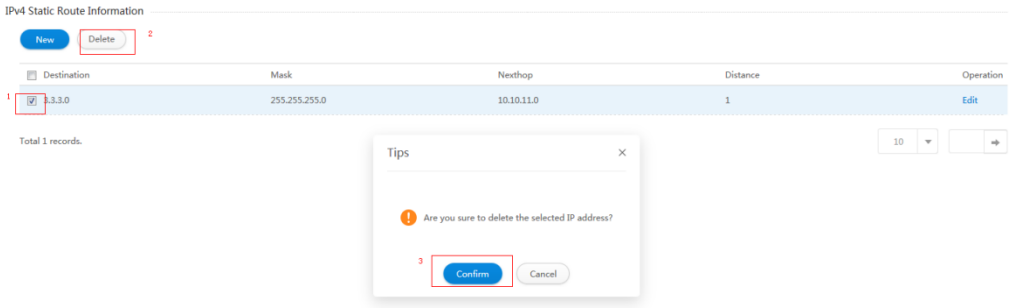


Figure 36-4 Delete IP Static Route

Parameter description, as shown in table below.

Table 36-4 Parameter description about delete IPv4 Routing Page

Parameter	Description
Destination	Display destination IP address of the route
Mask	Display IP address mask of the Destination
Nexthop	Display nexthop of the route
Distance	Display route's distance
Operation	Edit

36.3.3 Modify IP Static Route

Click "Network->IP Routing->IPv4 Static Route Information" to entry "IPv4 Static Route Information" page, check route entry， click "Edit" , as shown in figure below.

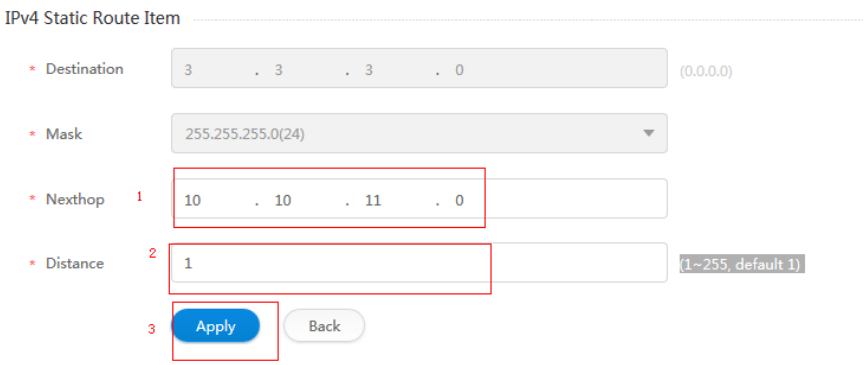


Figure 36-5 Modify IP Static Route

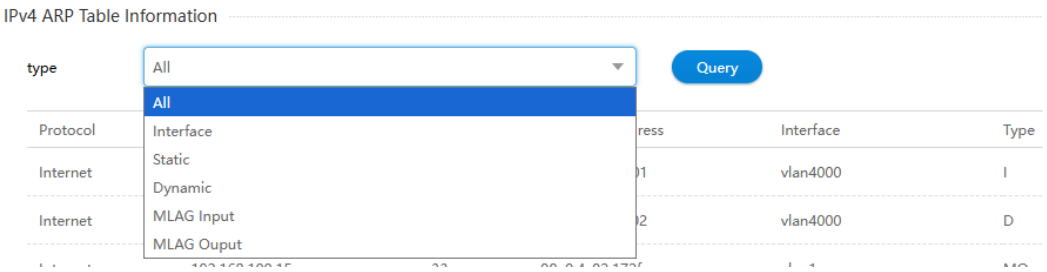
Parameter description, as shown in table below.

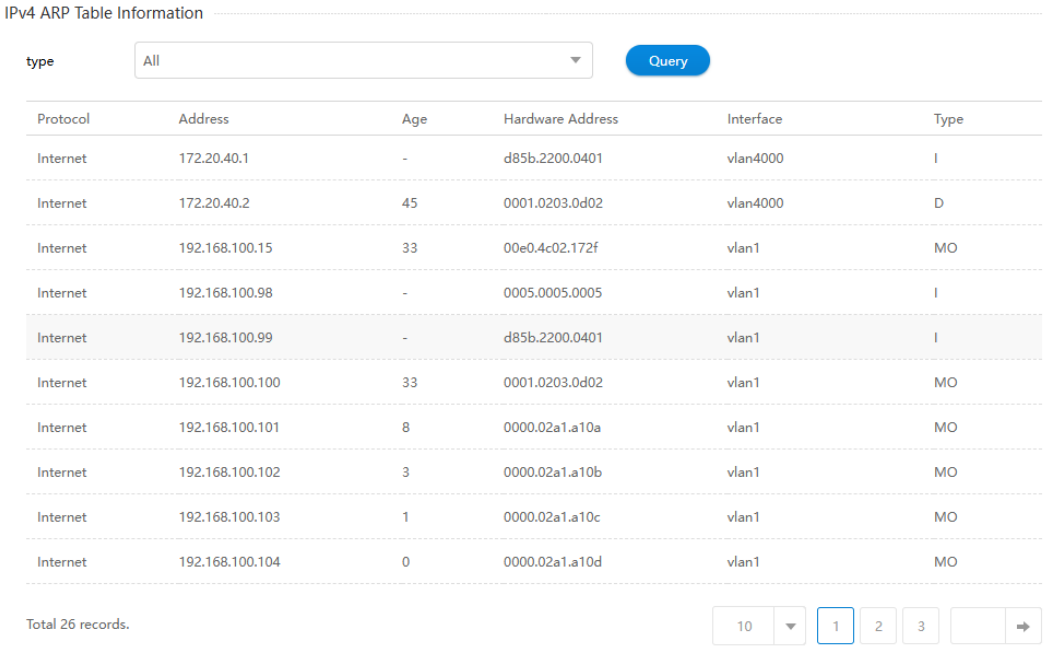
Table 36-5 Parameter description about Edit IPv4 Routing Page

Parameter	Description
Destination	Display destination IP address of the route(0.0.0.0)
Mask	Display IP address mask of the Destination
Nexthop	Set nexthop of the route
Distance	Set route's distance(1~255, default 1)
Apply	Apply to make the configuration effective.
Back	Back to IPv4 Static route Information Page

36.4 IPv4 ARP Information

Click "Network->IP Routing->IPv4 ARP Information" to entry "IPv4 ARP Information" page, display existing IPv4 ARP information.





Parameter description, as shown in table below.

Table 36-6 Parameter description about Edit IPv4 Routing Page

Parameter	Description
type	Select the ARP type that needs to be displayed.
Query	Display the corresponding type of ARP according to the selection.
Protocol	The protocol associated with ARP.
Address	IPv4 address
Age	Delete the entry when the countdown returns to zero due to its aging time.
Hardware Address	MAC address corresponding to IPv4 address
Interface	L3 interface associated with ARP entry
Type	The type of ARP entry that identifies the source of this information.

37 Ping

37.1 Overview

This chapter describe how to use ping.

Users can take advantage of these features to diagnose and detect network and analyze error information.

37.2 Using Ping

Click “Network->ping” to entry “Ping Settings” page, as shown in figure below.

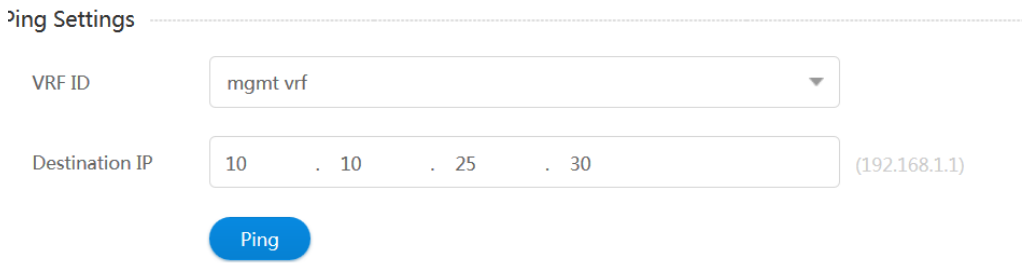


Figure 37-1 Ping Page

Choose VRF ID（mgmt vrf or default vrf） and input destination IP, then click “Ping” button to use it, as shown in figure below.

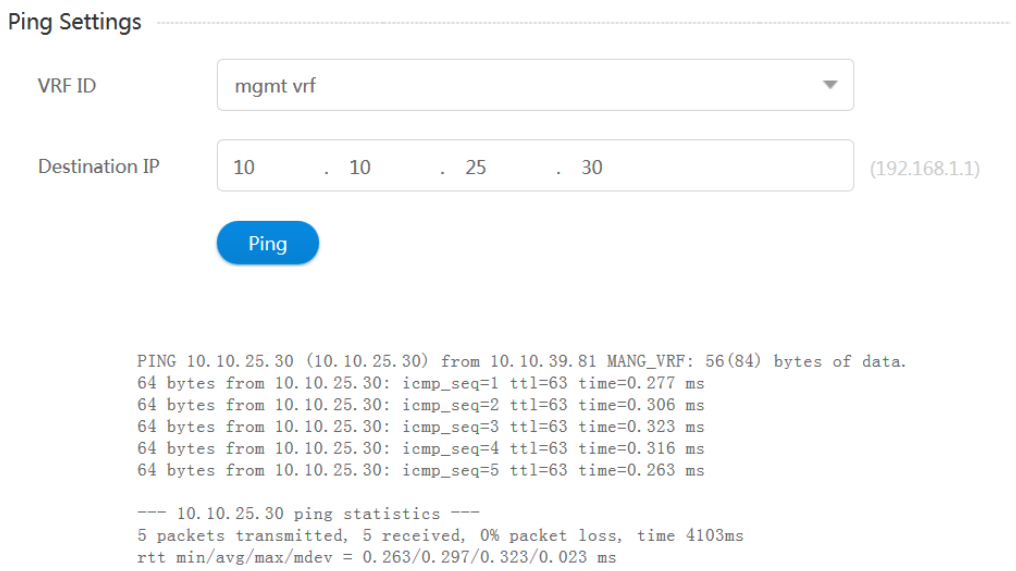


Figure 37-2 Ping Use Page

38 Traceroute

38.1 Overview

This chapter describe how to use traceroute.

Tracert is a utility program used to confirm the route that IP packet will take to access the target. Tracert determines the route from a host to another host in the network by sending ICMP error packets with time-to-live (TTL) values.

38.2 Using Traceroute

Click "Network->Traceroute" to entry "Traceroute Route Settings" page, as shown in figure below.



Figure 38-1 Traceroute Page

Choose VRF ID（mgmt vrf or default vrf） and input destination IP, then click "Traceroute" button to use it, as shown in figure below.

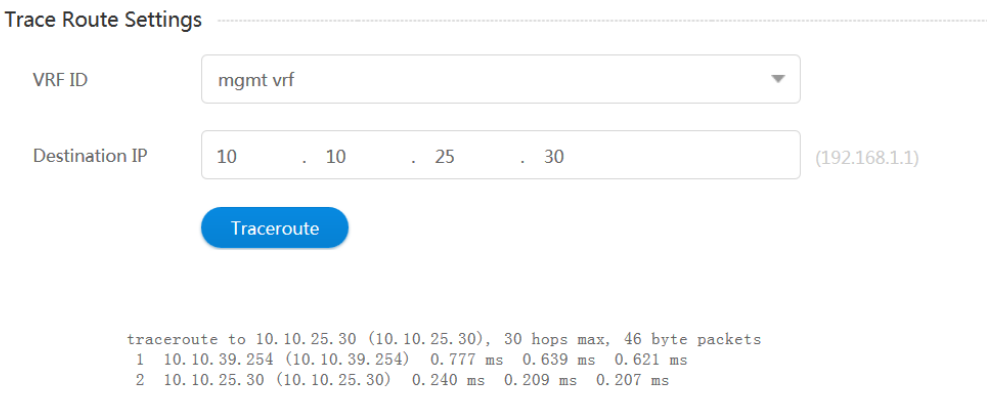


Figure 38-2 Traceroute Use Page

39 Virtual Cable Test

39.1 Overview

This chapter describes how to use virtual cable test tool to detect the status of cable.

39.1.1 Entry Virtual Cable Test Page

Click “Network->Virtual Cable Test” to entry “Virtual Cable Test” page, as shown in figure below.

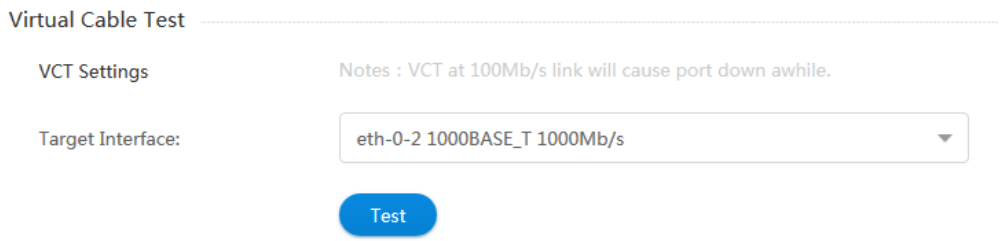


Figure 39-1 Virtual Cable Test Page

39.1.2 Virtual Cable Test

On “Virtual Cable Test” page, select the “Target Interface” you want to detect, then click “Test” and wait result for seconds, as shown in figure below.

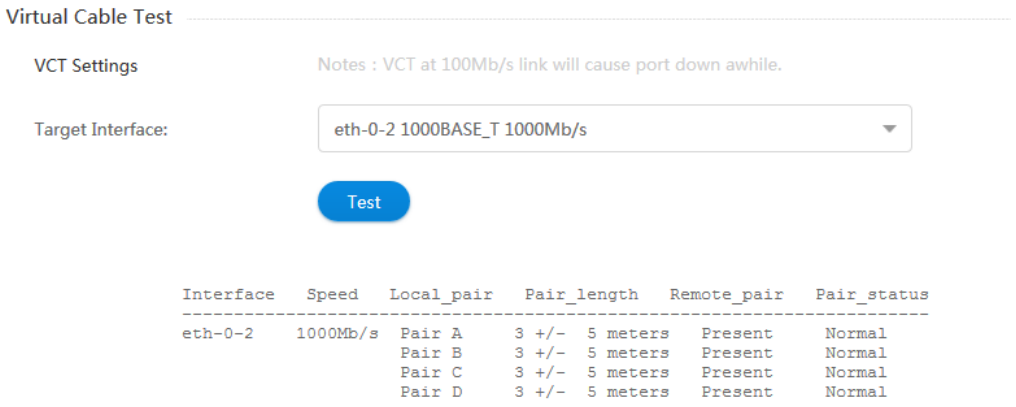


Figure 39-2 Virtual Cable Test

NOTE Only electrical port which status “up” can support VCT, as shown in figure below.

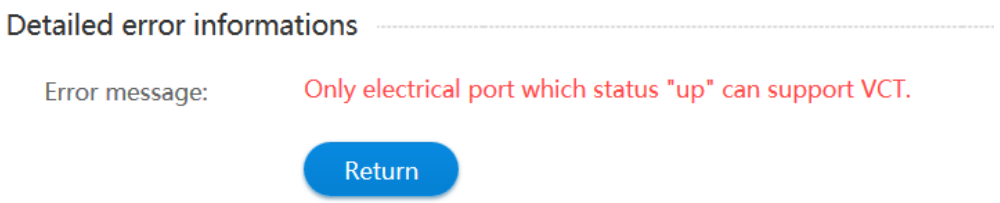


Figure 39-3 Virtual Cable Test