

PacketMAX™

Advanced Features

WEB GUI User Guide By Garland Technology

AF10G72AC



Garland Technology: Advanced Features System
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Revision History

Date	Version	Description
09/09/2020	3.0.6r2	previous 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.

1.1 Suggestion feedback

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

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1.1 Audience

This document is for the following audiences:

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

1 WEB login

1.1 Overview

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

1.2 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 10.10.39.101/23  
Switch(config)# management route add gateway 10.10.39.254
```



NOTE

The default IP address is 10.10.10.200

1.3 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 gtadmin1
```



NOTE

The default user and password is admin, gtadmin1

1.4 Web page login

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

Login

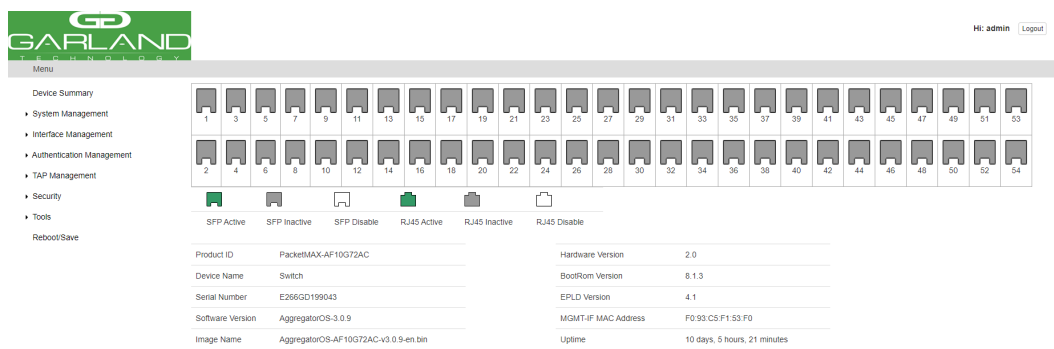
Username

Password

 Login

login page

In the login page, enter the user name and password you have created, click “Login”, then enter the main page, as shown in Figure.



main page

main page parameters

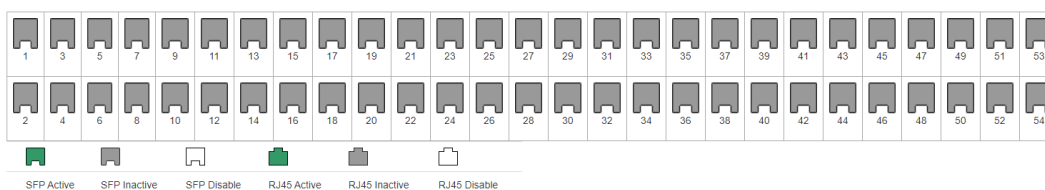
Parameter item	Description
1	Vendor icon
2	Login Username
3	Navigation sidebar
4	Operation display area

2 Equipment Overview

2.1 Overview

This chapter describes the display items of the main page and their parameters, including the device interface panel, device information and equipment working status monitoring area.

Click “Device Overview” in the navigation bar to switch from other pages to the main page. The interface area of the main page of the device interface shows the status of each interface, as shown in Figure.



Interface 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”, “off”.

2.2 Device Information

The device information section of the main page, as shown in Figure.

Product ID	PacketMAX-AF10G72AC	Hardware Version	2.0
Device Name	Switch	BootRom Version	8.1.3
Serial Number	E266GD199043	EPLD Version	4.1
Software Version	AggregatorOS-3.0.9	MGMT-IF MAC Address	F0:93:C5:F1:53:F0
Image Name	AggregatorOS-AF10G72AC-v3.0.9-en.bin	Uptime	10 days, 5 hours, 25 minutes

Device information panel

Device information panel

Parameter item	Description
Product ID	Switch hardware model
Device Name	Switch name
Software version	Switch software version
Image Name	Start the mirror name
Hardware Version	Switch hardware version
Serial Number	Switch serial number
MAC Address	The MAC address of the switch system
Uptime	The switch has been running for the time

2.3 Equipment monitoring

The main page of the device monitoring section, as shown in Figure..

Power			Status	Mode
psu0			OK	AC
psu1			FAIL	-
Sensor	Status	Temperature	Position	
sensor0	OK	44	AROUND_CHIP	
sensor1	OK	41	AROUND_CHIP	
sensor2	OK	61	SWITCH_CHIP0	

CPU Usage		Memory Usage	
24.89%		21.58%	
Fan	Speed Rate	Mode	Status
fan0	40%	AUTO	✱
fan1	40%	AUTO	✱
fan2	40%	AUTO	✱
fan3	40%	AUTO	✱

device monitor panel

Monitor power parameters

Parameter item	Description
Power	The serial number of the switch power supply
Status	Corresponding to the status of the numbered power supply

Mode	Corresponds to the mode of the power supply
------	---

Monitor warm pass parameters

Parameter item	Description
Sensor	The serial number of the switch warm pass
Status	Corresponding to the number of warm state
Temperature	Corresponding to the temperature of the temperature
Position	Corresponding to the number of warmth of the location

Monitor CPU utilization and memory utilization parameters

Parameter item	Description
CPU Usage	System CPU utilization
Memory Usage	System memory utilization

Monitor fan parameters

Parameter item	Description
Fan	Number of the switch fan
Speed Rate	Corresponding to the speed ratio of the fan
Mode	Corresponds to the pattern of the fan
Status	Corresponds to the status of the numbered fan

Monitor the refresh time configuration

Configuration item	Description
Refresh interval(Second)	Set the page to automatically refresh the interval

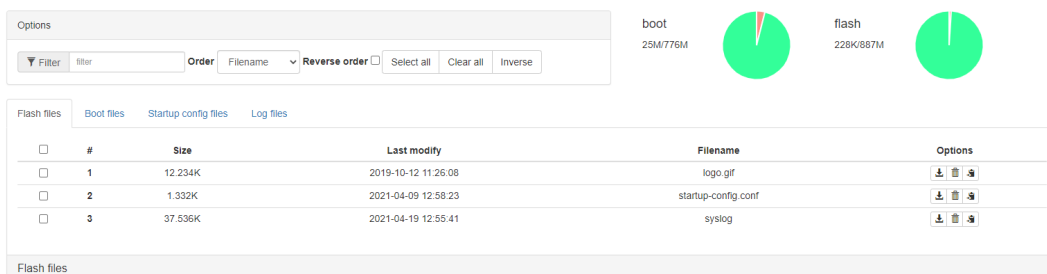
1 System Management

1.1 Overview

This chapter describes the various parts of the system administration, including file management, upgrade management, system configuration, log management, SNMP management, and time management.




1.2 File management

Click “System Management”> “File Management” to enter the file management page, the page is divided into file management options, boot and flash use size, file management information, as shown in Figure. Page click on the “Boot files”, “Startup config files”, “Log files” can view different types of file information



file management page

flash file option configuration

Configuration item	Description
	Download the corresponding boot file
	Delete the corresponding boot file
	Back up the corresponding boot file

1.2.2 Boot file information

Click on the “Boot files” can view the boot file information page, boot file page shown in Figure.



Flash files							
Boot files							
Startup config files							
Log files							
<input type="checkbox"/>	#	Size	Last modify	Filename	Current image	Next startup image	Options
<input type="checkbox"/>	1	25.472M	2021-03-29 13:52:05	AggregatorOS-AF10G72AC-v3.0.9-en.bin	✓	✓	  
<input type="checkbox"/>	2	1.129K	2019-10-12 11:26:16	F093C5F153F1.1.lic			  


boot file page

boot file parameters

Parameter item	Description
#	boot file number
Size	Corresponds to the size of the boot file
Last modify	Corresponding number The last time the boot file was modified
Filename	Corresponding to the name of the boot file
Current image	Corresponding number Whether the boot file is the current mirror
Next startup image	Corresponding number The boot file is the next boot image
Options	Corresponding to the number of boot file support options

boot file option configuration

Configuration item	Description
	Download the corresponding boot file
	Delete the corresponding boot file

<input checked="" type="checkbox"/>	Set the corresponding boot file for the next boot image, restart after the entry into force
	Back up the corresponding boot file

1.2.3 Start the configuration file information


Click “Startup Config files” to view the startup configuration file information page, start the configuration file page as shown in Figure.

Flash files

Boot files

Startup config files

Log files

<input type="checkbox"/>	#	Size	Last modify	Filename	Startup config	Options
<input type="checkbox"/>	1	1.332K	2021-04-09 12:58:23	startup-config.conf	✓	





Startup config files

start the configuration file page

start the configuration file parameters

Parameter item	Description
#	Start the configuration file number
Size	Corresponding number starts the size of the configuration file
Last modify	Corresponding number The last time the configuration file was modified
Filename	Corresponding to the name of the startup configuration file
Startup config	Corresponding number The startup configuration file is configured for startup
Options	Corresponding number The option to start the configuration file support

start the configuration file option configuration

Configuration item	Description
	Download the startup configuration file for the corresponding number
	Delete the startup configuration file for the corresponding number
	Set the corresponding startup configuration file for the next startup configuration
	Back up the startup configuration file for the corresponding number

1.2.4 Log file information




Click “Log files” to view the log file information page, log file page shown in Figure.

Flash files

Boot files

Startup config files

Log files

<input type="checkbox"/>	#	Size	Last modify	Filename	Options
<input type="checkbox"/>	1	73.494K	2021-04-17 18:55:41	syslogfile-2021-04-17-18-55-41.log.gz	  

Log files




log file parameter

log file parameters

Parameter item	Description
#	Log file number
Size	Corresponds to the size of the log file
Last modify	Corresponds to the date the log file is last modified
Filename	Corresponds to the name of the log file
Options	Corresponding to the options supported

	by the number log file
--	------------------------

log file parameters

Configuration item	Description
	Download the corresponding log file
	Delete the log file for the corresponding number
	Back up the corresponding log file

1.3 Update management

Click “System Management”> “Update Management” to enter the upgrade management page, as shown in Figure.

Select image file(Upload files to boot)

No file chosen

Select local file(Upload files to flash)

No file chosen

Current Information

Image Name	AggregatorOS-AF10G72AC-v3.0.9-en.bin
Software Version	3.0.9

update management configuration

update management configuration

Configuration item	Description
Select image file	Select the image file (Upload files to boot)
Upload and apply	Upload and upgrade the image file

Upload only	Only upload image files
Select local file	Select local file(Upload files to flash)
Upload only	Only upload local files

update management parameters

Parameter item	Description
Image Name	current system image
Software Version	current software version

1.4 System configuration

Click “System Management”> “System Configuration”to enter the system configuration page, as shown in Figure. Click " OK " to save the configurations

Base Settings

Management IP

10.10.39.11/23

✓ OK

Gateway

10.10.39.254

✓ OK

Hostname

DUT1

✓ OK

system configuration

1.5 Log management

Click “System Management”> “Log Management” to enter the log management page, click the “global configuration”, “module search”, “keyword search” different ways to manage the log.

1.5.1 Global configuration

Click “Global Configuration” to view the global configuration page of the log management. The global configuration is shown in Figure.

Global Configuration

Enable the log server

on

Enable the log file

on

Enable the log merge

on

Level of system timestamp

bsd

Level of cache logs

debug

Level of system logs

information

Level of severity logs

warning

Size of the log buffer

10 ~ 1000

Submit

Address of the log servers

mgmt

A.B.C.D Address of server

Submit

Log Statistics

Enable the log server

Enable

Enable the log file

Enable

Enable the log merge

Enable

Level of cache logs

debug

Level of system logs

information

Level of severity logs

warning

Size of the log buffer

500

Timestamp

bsd

log global configuration

global configuration

Configuration item	Description
Enable the log server	Configure whether to enable Server
Enable the log file	Configure whether to enable logging file
Enable the log merge	Configure whether to enable logging merge
Level of system timestamp	Configure the timestamp format of log information, including: date, bsd, iso, none
Level of system logs	Configure the system log level, including: emergency, alert, critical, error, warning, notice, information,

	debug
Level of cache logs	Configure the cache log level, including: emergency, alert, critical, error, warning, notice, information, debug
Level of severity logs	Configure the severity log level, including: emergency, alert, critical, error, warning, notice, information, debug
Size of the log buffer	Configure the cache size, valid values: 10-1000
Address of the log servers	Configure the IP address of the Outbound Management port of the Server

log statistics parameters

Parameter item	Description
Enable the log server	Whether the server is currently enabled
Enable the log file	Whether the file is currently enabled
Enable the log merge	Whether the merge is currently enabled
Level of system logs	Current system log level
Level of cache logs	Current cache log level
Level of severity logs	Current severity log level
Size of the log buffer	Current cache size
Timestamp	The current timestamp format

1.5.2 Module lookup

Click “Module lookup” to view the log management module lookup page, the module looks like Figure.

[Global Configuration](#)
[Module lookup](#)
[Keyword lookup](#)

According Severity

 According Module

Log information

Time	Module	Event	Severity	Content
------	--------	-------	----------	---------

module lookup

module lookup configuration

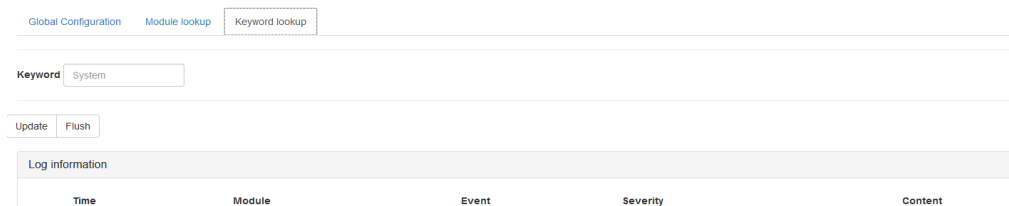
Configuration item	Description
According Severity	The module is searched by level, including:0-7
According Module	Module search by module, the module includes: All, AAA, FAN, INTERFACE, LAG, NTP, POWER, PSU, SYSTEM, TEMPERATURE, TRANACEIVER, SSHD
Update	Refresh all logs
Flush	Delete all logs

log information parameters

Parameter item	Description
Time	Corresponding log generated time
Module	Corresponds to the module to which the log belongs
Event	Corresponding log events
Severity	Corresponds to the priority of the log
Content	Corresponds to the contents of the log record

1.5.3 Keyword lookup

Click on “keyword” to view the log management keyword search, keyword search shown in Figure.



keyword lookup

keyword lookup configuration

Configuration item	Description
Keyword	Log search by keyword
Update	Refresh all logs
Flush	Delete all logs

log information parameters

Parameter item	Description
Time	Corresponding log generated time
Module	Corresponds to the module to which the log belongs
Event	Corresponding log events
Severity	Corresponds to the priority of the log
Content	Corresponds to the contents of the log record

1.6 Snmp management

Click “System Management”> “Snmp Management” to enter the Snmp management page, click “SNMP Server Configuration”, “SNMP Community Configuration” to carry out the relevant configuration.

1.6.1 Server configuration

Click " SNMP Server Configuration " to view the server configuration page for Snmp management, as shown in Figure.

configuration

Server configuration parameters

Configuration item	Description
Enable Snmp Server	Configure whether to enable SNMP
Enable Snmp	Configure whether to enable Trap
Set Snmp Version	Set version, version includes:all、v1、v2c
Set Trap Target Address	Set the IP address and community name of the Trap server

1.6.2 Community configuration

Click “community configuration” to view the SNMP management and community configuration page, as shown in Figure.

community configuration

community parameters configuration

Configuration item	Description
Set Community	Set the Community name and permissions, permissions include: read-only and read and write

community parameters

Parameter	Description
#	Corresponds to the number of Community
Name	Corresponding to the name Community
Community-Access	Corresponding number Community permissions
Security-name	Corresponding number Community security name
Options	Corresponding number Community support options, options include: delete

1.6.3 SNMP-v3 trap configuration

Click “SNMP-v3 trap configuration” to view the SNMP management and SNMP-v3 trap configuration page, as shown in Figure.

snmp trap configuration

SNMP Server Configuration SNMP Community Configuration **SNMP-v3 trap Configuration**

V3 trap Configuration

Context:

Usm-user Configuration:

Password Configuration:

Notify:

Set Trap Target params:

Set Trap Target Address:

1.7 Time management

Click “System Management”> “Time Management”to enter the time management page, as shown in Figure.

Global Configuration

System Time: 06:35:19 Fri Mar 20 2020 UTC

Set Time:

Set Ntp Server:

Timestamp sync: ☐

time management

time management configuration

Configuration item	Description
System Time	the current system time
Set Time	Set the system time
Set NTP Server	Set the IP address of the NTP server

1 Port management

1.1 Overview


















This chapter describes the port configuration on the switch.

1.2 Port state

This section describes how to configure and view the port connection status.

1.2.1 Basic information

Click “Interface Management”>”Interface Status” to enter the port state home page, as shown in Figure . This page shows the working status of each port on the switch. Click on the relevant state to enter the corresponding port state configuration.

Port									
Port	Status	Duplex	Svlan-tpid	Speed	Phy-Type	Filter	Description	Split	Enable
eth-0-1	down	auto	0x8100	AUTO	10GBASE_SR	N/A	N/A	No	
eth-0-2	down	auto	0x8100	AUTO	10GBASE_SR	N/A	N/A	No	
eth-0-3	down	auto	0x8100	AUTO	10GBASE_SR	N/A	N/A	No	
eth-0-4	down	auto	0x8100	AUTO	10GBASE_SR	N/A	N/A	No	
eth-0-5	down	auto	0x8100	AUTO	10GBASE_SR	N/A	N/A	No	
eth-0-6	down	auto	0x8100	AUTO	10GBASE_SR	N/A	N/A	No	
eth-0-7	down	auto	0x8100	AUTO	UNKNOWN	N/A	N/A	No	
eth-0-8	down	auto	0x8100	AUTO	UNKNOWN	N/A	N/A	No	
eth-0-9	down	auto	0x8100	AUTO	UNKNOWN	N/A	N/A	No	
eth-0-10	down	auto	0x8100	AUTO	UNKNOWN	N/A	N/A	No	
eth-0-11	down	auto	0x8100	AUTO	UNKNOWN	N/A	N/A	No	
eth-0-12	down	auto	0x8100	AUTO	UNKNOWN	N/A	N/A	No	
eth-0-13	down	auto	0x8100	AUTO	UNKNOWN	N/A	N/A	No	
eth-0-14	down	auto	0x8100	AUTO	UNKNOWN	N/A	N/A	No	
eth-0-15	down	auto	0x8100	AUTO	UNKNOWN	N/A	N/A	No	
eth-0-16	down	auto	0x8100	AUTO	UNKNOWN	N/A	N/A	No	
eth-0-17	down	auto	0x8100	AUTO	UNKNOWN	N/A	N/A	No	

Port state

Port state parameters

Parameter item	Description
Port	Displays the port name
Status	Displays the link status of the port (up or down)
Duplex	Displays the duplex mode of the port (auto, full, half)
Svlan-tpid	Displays the svlan-tpid (0x8100, 0x88A8, 0x9100) for the corresponding port
Speed	Displays the operating rate of the port (auto, 10, 100, 1000, 2.5G, 5G, 10G, 25G, 40G, 100G)
Phy-Type	Displays the physical type of the port
Filter	Display port filtering
Description	Displays the description of the port
Split	Displays the split of the port (yes, no)
Enable	Displays the port enable

1.2.2 Port property configuration

Port duplex configuration

Click on the port duplex function, enter the port duplex configuration, as shown in Figure. Click “OK” to complete the configuration.

Duplex

full ▼

✓ OK

✗ Close

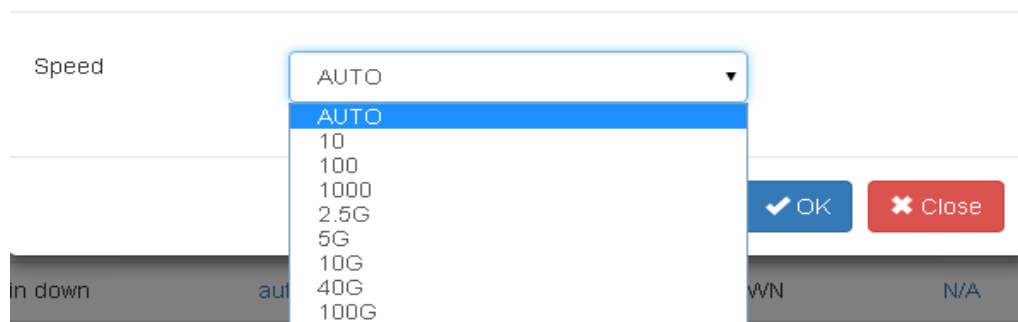
Port duplex configuration

Duplex configuration parameters

Configuration item	Description
full	Configure the port as full duplex mode
half	Configure the port as half duplex mode
auto	Configure the port as auto duplex mode

Port rate configuration

Click on the port rate attribute, enter the port rate configuration, as shown in Figure, click “OK” to complete the configuration



Port rate configuration

Rate configuration parameters

Configuration item	Description
AUTO	Configure the port as auto
10	Configure the port at a rate of 10M
100	Configure the port at a rate of 100M
1000	Configure the port at a rate of 1000M
2.5G	Configure the port at a rate of 2.5G
5G	Configure the port at a rate of 5G

10G	Configure the port at a rate of 10G
25G	Configure the port at a rate of 25G
40G	Configure the port at a rate of 40G
100G	Configure the port at a rate of 100G

Port filtering configuration

Click on the port filter attributes, enter the port filter configuration, as shown in Figure, click “OK” to complete the configuration.

Enable

☒ on

Flow Name

✓ OK

✗ Close

Port filtering configuration

Filtering configuration parameters

Configuration item	Description
Enable	Configure whether the port is enabled for filtering
Flow Name	Configure the name of the port to filter

Port description configuration

Click the port description attribute, enter the port description configuration, as shown in Figure, click “OK” to complete the configuration.

Enable

☒ on

Description

✓ OK

✗ Close

Port description configuration

Describe the configuration parameters

Configuration item	Description
Enable	Configure whether the port is enabled
Description	Configure the description of the port

Port split configuration

Port split configuration:

Click the port description attribute, enter the port description configuration, as shown in Figure, click “OK” to complete the configuration.

eth-0-1

✗

Notice:Configuration should be written in startup-config, and take effect at next reload

Split Port

10giga

10giga

40giga

✓ OK

✗ Close

Port split configuration

Split port configuration parameters

Configuration item	Description
Prompt information	The split configuration will be written

	to startup-config and will take effect after reboot
Split Port	Configure split points for 10giga, 40giga

Click on the port split attribute “Yes”, enter the port split configuration, as shown in Figure, click “OK” to complete the configuration.

eth-0-1/2
✕

Notice: Configuration should be written in startup-config, and take effect at next reload

Current port status is aggregate, are you sure to split port ?

✓ OK

✕ Close

Port split configuration

Port split configuration parameters

Configuration item	Description
Prompt information	The split configuration will be written to startup-config and will take effect after reboot
Prompt information	Indicates whether the current port state is aggregated and whether the port is split

Clear the split port:

Click the split attribute “NO” to split the port, enter the clear port split configuration, as shown in Figure, click “clear” to complete the configuration.

eth-0-3



Notice:Configuration should be written in startup-config, and take effect at next reload

Split Port

10giga

✓ Clear

✗ Close

Clear the split port

Clear the split configuration

Configuration item	Description
Prompt information	The split configuration will be written to startup-config and will take effect after reboot
Split Port	Configure split points for10giga, 40giga

Click the split attribute “YES” to split the port, enter the clear port split configuration, as shown in Figure 4 10, click “OK” to complete the configuration.

eth-0-1/1



Notice:Configuration should be written in startup-config, and take effect at next reload

Current port status is split,are you sure to aggregate port ?

✓ OK

✗ Close

Clear the split port

Clear the split configuration

Configuration item	Description
Prompt information	The split configuration will be written to startup-config and will take effect

	after reboot
Prompt information	Prompts whether the current port state is split and aggregates the port

Port enable configuration

Click the enable attribute of the port to select whether to enable the port.

Enable configuration parameters

Configuration item	Description
Enable	Configure whether the port is enabled or not

1.3 Port statistics

This section describes how to view the statistics for a port.

1.3.1 Basic information

Click “Interface Management”>”Interface Stats” to enter the port statistics main page, as shown in Figure.

Options										
<input type="button" value="Select all"/> <input type="button" value="Clear all"/> <input type="button" value="Inverse"/> <input type="button" value="Update Statistics"/> <input type="button" value="Single Port Transmit/Receive Rate Stat"/> <input type="button" value="All Ports Transmit/Receive Flow Stat"/>										
	Input Stat						Output Stat			
<input type="checkbox"/> Port	Packets Stat	Bytes Stat	Input Rate(packets/sec)	Input Rate(bits/sec)	Errors	CRC	Packets Stat	Bytes Stat	Output Rate(packets/sec)	Output Rate(bits/sec)
<input type="checkbox"/> eth-0-1	598361939	69102409308	0	0	0	0	598364607	69102717436	0	0
<input type="checkbox"/> eth-0-2	598364607	69102717436	0	0	0	0	598361939	69102409308	0	0
<input type="checkbox"/> eth-0-3	598364607	69102717436	0	0	0	0	598361939	69102409308	0	0
<input type="checkbox"/> eth-0-4	598361939	69102409308	0	0	0	0	598364607	69102717436	0	0
<input type="checkbox"/> eth-0-5	0	0	0	0	0	0	0	0	0	0
<input type="checkbox"/> eth-0-6	0	0	0	0	0	0	0	0	0	0
<input type="checkbox"/> eth-0-7	0	0	0	0	0	0	0	0	0	0
<input type="checkbox"/> eth-0-8	0	0	0	0	0	0	0	0	0	0
<input type="checkbox"/> eth-0-9	0	0	0	0	0	0	0	0	0	0
<input type="checkbox"/> eth-0-10	0	0	0	0	0	0	0	0	0	0
<input type="checkbox"/> eth-0-11	0	0	0	0	0	0	0	0	0	0
<input type="checkbox"/> eth-0-12	0	0	0	0	0	0	0	0	0	0
<input type="checkbox"/> eth-0-13	0	0	0	0	0	0	0	0	0	0

Port statistics

Port statistics parameters

Parameter item	Description
<input type="checkbox"/>	Corresponding port selection box
Port	Corresponding port name
Packet Input	Correspondent packets of incoming packets
Bytes Input	Corresponds to the incoming byte of the port statistics
Packet Output	Correspond to the outbound packet statistics of the port
Bytes Output	Corresponding port outbound byte statistics

1.3.2 Update and clear statistics

Select the corresponding port selection box, click “Update Statistics” to update the corresponding port statistics, as shown in Figure.

Options

		Input Stat						Or	
<input checked="" type="checkbox"/>	Port	Packets Stat	Bytes Stat	Input Rate(packets/sec)	Input Rate(bytes/sec)	Errors	CRC	Packets Stat	Bytes Stat
<input checked="" type="checkbox"/>	eth-0-1	598361939	69102409308	0	0	0	0	598364607	69102717436
<input checked="" type="checkbox"/>	eth-0-2	598364607	69102717436	0	0	0	0	598361939	69102409308
<input checked="" type="checkbox"/>	eth-0-3	598364607	69102717436	0	0	0	0	598361939	69102409308
<input checked="" type="checkbox"/>	eth-0-4	598361939	69102409308	0	0	0	0	598364607	69102717436
<input checked="" type="checkbox"/>	eth-0-5	0	0	0	0	0	0	0	0
<input checked="" type="checkbox"/>	eth-0-6	0	0	0	0	0	0	0	0
<input checked="" type="checkbox"/>	eth-0-7	0	0	0	0	0	0	0	0
<input checked="" type="checkbox"/>	eth-0-8	0	0	0	0	0	0	0	0
<input checked="" type="checkbox"/>	eth-0-9	0	0	0	0	0	0	0	0
<input checked="" type="checkbox"/>	eth-0-10	0	0	0	0	0	0	0	0
<input checked="" type="checkbox"/>	eth-0-11	0	0	0	0	0	0	0	0
<input checked="" type="checkbox"/>	eth-0-12	0	0	0	0	0	0	0	0

Modify

Port

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

Clear Statistics

Update and clear statistics

Update and clear statistics configuration

Configuration item	Description
Update Statistics	Update the corresponding port statistics

Clear Statistics	Clear the corresponding port statistics
------------------	---

1.3.3 Statistical details

Click the corresponding port name to enter the detailed statistics page of the port, as shown in Figure.

Detail
×

Packets Input	0
Bytes Input	0
Packets Output	0
Bytes Output	0
5 Minute Input Rate(packets/sec)	0
5 Minute Input Rate(bits/sec)	0
Input Unicast Packet	0
Input Broadcast Packet	0
Input Multicast Packet	0
Input Runt	0
Input Giants	0
Input Errors	0
Input CRC	0
Input Frame	0
Input Pause	0
5 Minute Output Rate(packets/sec)	0
5 Minute Output Rate(bits/sec)	0
Output Unicast Packet	0
Output Broadcast Packet	0
Output Multicast Packet	0
Output Errors	0
Output Pause	0

Clear
Refresh
Close

statistical details

Statistical details parameters

Parameter item	Description
Packets Input	Correspondent packets of incoming packets
Bytes Input	Corresponds to the incoming byte of the port statistics
Packets Output	Correspond to the outbound packet statistics of the port
Bytes Output	Corresponding port outbound byte statistics
5 Minute Input Rate(packets/sec)	Corresponding port 5 minutes into the direction of the message rate (packet / sec)
5 Minute Input Rate(bits/sec)	Corresponding port 5 minutes into the direction of the message rate (bits / sec)
Input Unicast Packet	Corresponds to the statistics of unicast packets in the incoming direction of the port
Input Broadcast Packet	Corresponds to the statistics of the broadcast packets in the incoming direction of the port
Input Multicast Packet	Correspond to the statistics of multicast packets in the inbound direction of the port
Input Runt	Corresponding port in the direction of the ultra-short frame statistics
Input Giants	Corresponding port in the direction of the large frame statistics
Input Errors	Corresponds to the statistics of the error frame in the incoming direction of the port
Input CRC	Corresponds to the statistics of the CRC in the incoming direction of the port
Input Frame	Corresponds to the statistics of the total number of frames in the incoming direction of the port
Input Pause	Corresponds to the statistics of the Pause frame in the incoming direction

	of the port
5 Minute Output Rate(packets/sec)	Corresponding port 5 minutes outbound packet rate (packet / s)
5 Minute Output Rate (bits/sec)	Corresponding port 5 minutes outbound message rate (bits per second)
Output Unicast Packet	Correspond to the statistics of unicast packets in the outbound direction of the port
Output Broadcast Packet	Corresponds to the statistics of the broadcast packets in the outbound direction of the port
Output Multicast Packet	Correspond to the statistics of multicast packets in the outbound direction of the port
Output Errors	Corresponds to the statistics of the error frame in the outbound direction of the port
Output Pause	Corresponds to the statistics of the Pause frame in the outbound direction of the port

1.4 Link aggregation

This section describes how to configure and view static link aggregation ports.

1.4.1 Basic information

Click “Interface Management”>”Link Aggregation” to enter the link aggregation main page. You can view the basic information of link aggregation, as shown in Figure.

#	Link Aggregation Name	Load Balance Mode	Protocol	Group State	Ports in Bundle	Member Ports	Max Ports
---	-----------------------	-------------------	----------	-------------	-----------------	--------------	-----------

Link aggregation

link aggregation parameters

Configuration item	Description
#	Link aggregation number

Link Aggregation Name	Corresponding number of aggregated port names
Load Balance Mode	Corresponding number of load ports for aggregated ports, including:static、round-robin
Protocol	Corresponding number aggregation port protocol mode
Group State	Corresponds to the status of the numbered aggregation port
Ports in Bundle	Corresponding number The current number of bundled ports
Member Ports	Corresponding number of member ports
Max Ports	Corresponding number Maximum number of member ports

1.4.2 Global configuration

Link aggregation global configuration, you can configure the load sharing hash field. Figure shows the configuration of the link aggregation globally.

Global Configuration

Load Balance Hash Field

dst-ip

on

dst-mac

off

dst-port-l4

on

gre-key

off

inner-dst-ip

off

inner-dst-mac

off

inner-dst-port-l4

off

inner-ip-protocol

off

inner-src-ip

off

inner-src-mac

off

inner-src-port-l4

off

ip-protocol

off

nvgre-flow-id

off

nvgre-vsuid

off

src-ip

on

src-mac

off

src-port-l4

on

vxlan-vni

off

Load Balance Tunnel Hash Mode

mode

both

outer

inner

Global configuration

Global configuration

Configuration item	Description
dst-ip	Configure whether the load is balanced according to the destination IP address of the packet
dst-mac	Configure whether the load is balanced according to the destination MAC address of the packet
dst-port-l4	Whether the configuration is based on the TCP / UDP L4 destination port

	number load balancing
gre-key	Whether the configuration is balanced according to the key field of gre in the message
Inner-dst-ip	Whether the configuration is based on the IP address load balancing in the packet
inner-dst-mac	Whether the configuration is based on the MAC address load balancing in the packet
inner-src-ip	Whether the configuration is based on the load balancing of the inner source IP address of the packet
inner-src-mac	Whether the configuration is based on the load balancing of the inner source MAC address of the packet
ip-protocol	Whether the configuration is balanced according to the IP protocol load in the packet
nvgre-flow-id	Whether the configuration matches the flow-id field of the nvgre packet in the packet
nvgre-vid	Whether the configuration matches the vid field of the nvgre packet in the packet
src-ip	Configure whether the load is balanced according to the source IP address in the packet
src-mac	Configure whether the load is balanced according to the source MAC address in

	the packet
src-port-l4	Configure whether the load balancing is based on the port number of the L4 of tcp / udp in the packet
vxlان-vni	Configure whether the load is balanced according to the vnlan of the vxlan in the packet
mode	Configure the Hash mode of load balance tunnel, includes both, outer and inner.

1.4.3 Link aggregation configuration

Add the aggregation group

Click “Add” to enter the aggregation group to increase the page, select the port and aggregation group, click “Submit” to complete the aggregation group to increase.

Agg mode select static-channel-group Link Aggregation Name agg 1 Load Balance Mode static

<input type="checkbox"/> eth-0-1	<input checked="" type="checkbox"/> eth-0-2	<input checked="" type="checkbox"/> eth-0-3	<input checked="" type="checkbox"/> eth-0-4	<input checked="" type="checkbox"/> eth-0-5	<input type="checkbox"/> eth-0-6
<input type="checkbox"/> eth-0-7	<input type="checkbox"/> eth-0-8	<input type="checkbox"/> eth-0-9	<input type="checkbox"/> eth-0-10	<input type="checkbox"/> eth-0-11	<input type="checkbox"/> eth-0-12
<input type="checkbox"/> eth-0-13	<input type="checkbox"/> eth-0-14	<input type="checkbox"/> eth-0-15	<input type="checkbox"/> eth-0-16	<input type="checkbox"/> eth-0-17	<input type="checkbox"/> eth-0-18
<input type="checkbox"/> eth-0-19	<input type="checkbox"/> eth-0-20	<input type="checkbox"/> eth-0-21	<input type="checkbox"/> eth-0-22	<input type="checkbox"/> eth-0-23	<input type="checkbox"/> eth-0-24
<input type="checkbox"/> eth-0-25	<input type="checkbox"/> eth-0-26	<input type="checkbox"/> eth-0-27	<input type="checkbox"/> eth-0-28	<input type="checkbox"/> eth-0-29	<input type="checkbox"/> eth-0-30
<input type="checkbox"/> eth-0-31	<input type="checkbox"/> eth-0-32	<input type="checkbox"/> eth-0-33	<input type="checkbox"/> eth-0-34	<input type="checkbox"/> eth-0-35	<input type="checkbox"/> eth-0-36
<input type="checkbox"/> eth-0-37	<input type="checkbox"/> eth-0-38	<input type="checkbox"/> eth-0-39	<input type="checkbox"/> eth-0-40	<input type="checkbox"/> eth-0-41	<input type="checkbox"/> eth-0-42
<input type="checkbox"/> eth-0-43	<input type="checkbox"/> eth-0-44	<input type="checkbox"/> eth-0-45	<input type="checkbox"/> eth-0-46	<input type="checkbox"/> eth-0-47	<input type="checkbox"/> eth-0-48
<input type="checkbox"/> eth-0-49	<input type="checkbox"/> eth-0-50	<input type="checkbox"/> eth-0-51	<input type="checkbox"/> eth-0-52	<input type="checkbox"/> eth-0-53	<input type="checkbox"/> eth-0-54

add the aggregation group

Delete the aggregation group

Select the number corresponding to the aggregation group and click xx to delete the corresponding numbered aggregation group, as shown in Figure.

<input type="checkbox"/>	#	Link Aggregation Name	Load Balance Mode	Protocol	Group State	Ports in Bundle	Member Ports	Max Ports
<input checked="" type="checkbox"/>	1	agg1	static	static	L2	0	eth-0-2 eth-0-3 eth-0-4 eth-0-5	16

delete the aggregation group

Configure the load sharing mode

Click “Load Balance Mode” to enter the configuration load sharing mode page, as shown in Figure.

Agg mode select Link Aggregation Name agg Load Balance Mode

load balance mode

load balance mode configuration

Configuration item	Description
Agg	Configure the corresponding agg
Mode	Configure the load balancing mode for the corresponding agg, including:static、round-robin

1.5 Optical module status

This section focuses on the status of the optical module

1.5.1 Basic information

Click “Interface Management”>”Transceiver Status” to enter the main page of the optical module status, you can view the basic status of the optical module status, as shown in Figure.

Transceiver				
Port	Type	Vendor	PN	S/N

optical module status

optical module status parameters

Parameter item	Description
Port	Corresponding port name

Type	Corresponds to the type of port optical module
Vendor	Corresponding to the port optical module manufacturers
PN	Corresponds to the part number of the port optical module
S/N	Corresponds to the serial number of the port optical module

1 Certification management

1.1 Overview

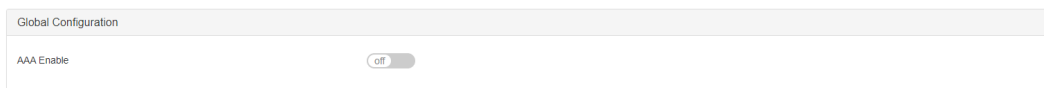
This chapter describes the authentication management on the switch.

1.2 AAA authentication

This section describes how to configure and view AAA authentication.

1.2.1 Basic information

Click “Authentication Management”>”AAA”to enter the main page of the authentication. This page can check the basic information of AAA authentication, as shown in Figure.



AAA authentication

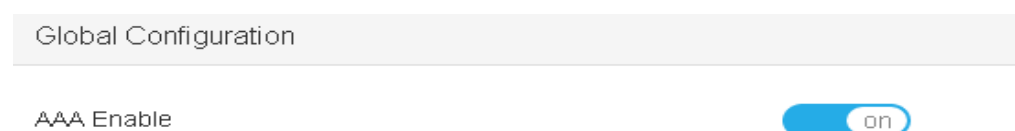
AAA authentication parameters

Parameter item	Description
#	Corresponding AAA authentication number
Method List Type	The number of the corresponding number
Name	Corresponding number of name
State	Corresponding to the status of the number

List	A list of the corresponding numbers, the list includes:none, local, tacplus, radius
Options	The corresponding number of options, including: delete

1.2.2 Global configuration

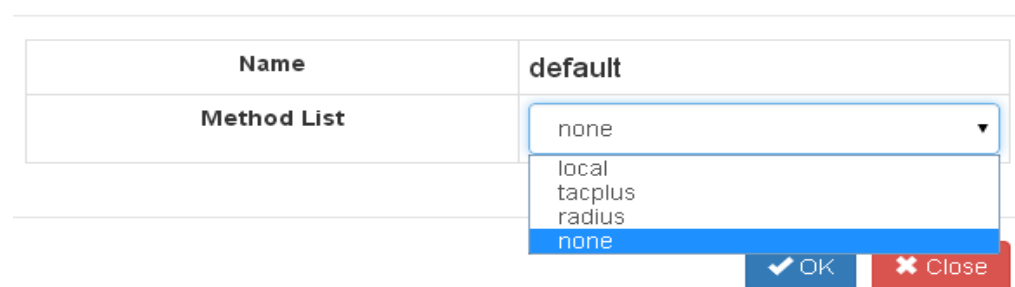
Click the “AAA Enable” button to select whether to enable AAA authentication, as shown in Figure.



AAA authentication global configuration

1.2.3 Authentication configuration

Click the corresponding list of parameters to enter the authentication configuration page, as shown in Figure.



AAA authentication configuration

authentication configuration parameters

Configuration item	Description
Name	Displays the authentication configuration name is default
Method List	Configure the authentication method, including:none, tacplus, local, radius,


	line
--	------

1.3 Tacacs authentication

This section describes the configuration and viewing Tacacs authentication.

1.3.1 Basic information

Click “Authentication Management”>”Tacacs”to enter the Tacacs main page, this page can view the Tacacs authentication basic information, as shown in Figure.

Tacacs Server							 Add Server
#	Server Host	VRF	Port	Timeout	Retries	Secret	

Tacacs authentication

Tacacs authentication parameters

Parameter item	Description
#	Corresponding Tacacs certification number
Server Host	Corresponding number Server host
Port	Corresponding number port number, default 49
Timeout	Corresponding numbering timeout, in seconds
Retries	Number of retries for the corresponding number
Secret	Corresponding number of keys

1.3.2 Add the server

Click “Add Server” to enter the T server configuration page, as shown in Figure.

Add
✕

Server Host	mgmt
Host Address	A.B.C.D
Key String	off
Auth Port	off
Retries	off
Timeout	off

✓ OK
✕ Close

add the server


add server configuration

Configuration item	Description
Server Host	Configure the IP address of the Tacacs server
Key String	Enabler Key String
Value	Configure the specified key for the Tacacs server

1.3.3 Delete the server

Click the Delete button to complete the removal of the server configuration.

delete the server

Configuration item	Description
	Delete the corresponding number of Tacacs servers

1.4 Radius authentication

This section describes how to configure and view Radius authentication.

1.4.1 Basic information

Click “Authentication Management”>” Radius”to enter the Radius main page, this page can view the Radius authentication basic information, as shown in Figure.

Global Configuration				Modify
Deadtime	Timeout	Retries	Secret	
5	5	3	N/A	

Radius Server							Add Server
#	Server Host	VRF	Port	Timeout	Retries	Secret	

Radius authentication

global configuration parameters

Parameter item	Description
Deadtime	Display the dead time of Radius, in minutes
Timeout	Show Radius timeout, in seconds
Retries	Show the number of retries for Radius
Secret	Displays the key for Radius. If no key is displayed N/A

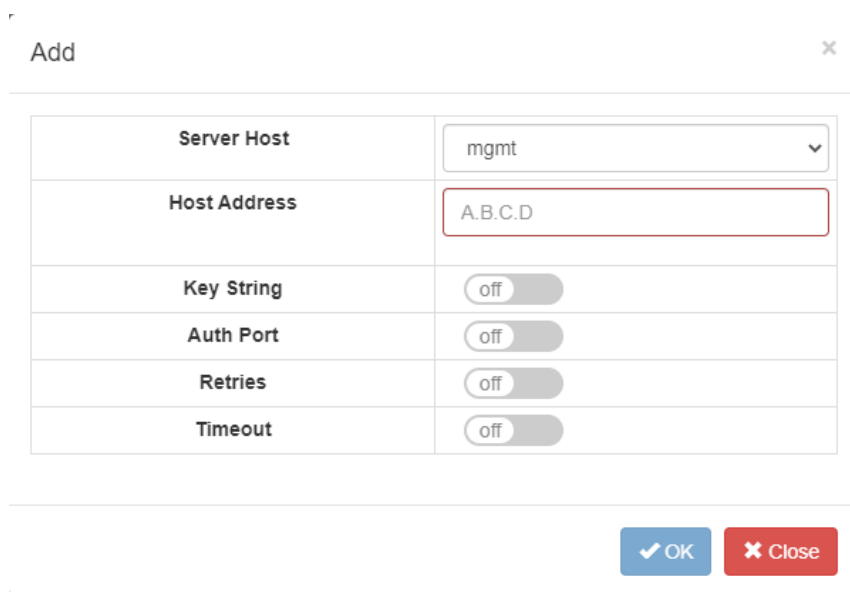
Radius authentication parameters

Parameter item	Description
#	Corresponds to the number of the Radius server
Server Host	The corresponding Radius server IP address
Port	Corresponding number of the Radius

	server port number, default 1812
Secret	Displays the key for Radius. If no key is displayed N/A

1.4.2 Add the server

Click “add server” to enter the R server configuration page, as shown in Figure.



add the server


add server configuration

Configuration item	Description
Server Host	Configure the IP address of the Radius server

1.4.3 Delete the server

Click the Delete button to complete the removal of the server configuration

delete the server

Configuration item	Description
	Delete the corresponding Radius server

1 Tap management

1.1 Overview

This chapter describes the tap management on the switch.

1.2 TAP

1.2.1 Tap statistics

Click “Tap Management”>”Tap” to enter the Tap main page, this page can view the Tap statistics, as shown in Figure.

TAP Statistics					
<div> + Add TAP Group Truncation Timestamp </div>					
#	TAP Id	TAP Group Name	TAP Group Description	TAP Group truncation	Options
1	10	TG1	N/A	NO	

Tap statistics

Tap statistics parameters

Parameter item	Description
#	Corresponds to Tap number
Tap Id	The corresponding number of Tap ID
Tap Group Name	The corresponding group name of the tap
Tap Group Description	Correspond to the description of Tap
Tap Group truncation	Whether the corresponding tap is enabled for truncation
Options	Corresponding to the number of Tap options, options include: delete

1.2.2 Global configuration

On the main page of Tap statistics. Click xx, xx, xx can be the corresponding global configuration.

Add a set of Tap

Click “Add Tap Group”, you can enter the page to increase Tap, as shown in Figure.

Tap Group Name

Configure group name

Tap Group ID

0

✓ OK

✕ Close

add Tap

add Tap configuration

Configuration item	Description
Tap Group Name	Configure the Tap group name
Tap Group ID	Configure the Tap ID

Message truncated

Click “Truncation” to enter the page where the configuration message is truncated, as shown in Figure.

message truncated

Truncation Length

Truncation Enable

on

64 ~ 144

OK

Close

message truncated configuration

Configuration item	Description
Truncation Enable	Configure whether to enable packet truncation
Truncate length	Configure the truncation of packets (64~144)

Timestamp

Click “Timestamp” to enter the page with configuration timestamp, as shown in Figure.

Timestamp Enable

on

dst-mac

0000.0000.0000

src-mac

0000.0000.0000

Type

0x0

OK

Close

timestamp

timestamp configuration

Configuration item	Description
--------------------	-------------

Timestamp Enable	Configure whether to enable timestamp
dst-mac	Configure the destination MAC with the timestamp message
src-mac	Configure the source MAC with the timestamp message
Type	Configure the Ethernet type to carry timestamp packets

1.2.3 Tap statistics configuration

Click on the corresponding tap information, enter the corresponding number of Tap information configuration.

Attribute configuration

Click on the Tap group name information to enter the Tap property configuration, see section “Attribute configuration”.

Describe configuration

Click on Tap’s description to enter the Tap description configuration, as shown in Figure.

Enable

☒ on

Tap Group Description

✓ OK

✗ Close

Tap description

Tap description configuration


Configuration item	Description
--------------------	-------------

Enable	Whether the accessories are enabled
Tap Group Description	Configure the description of Tap

Option configuration

Click the Tap option to delete the corresponding tap.

Tap option configuration

Configuration item	Description
	Delete the corresponding tap

1.2.4 Attribute information

Click the Tap group name information to enter the Tap's attribute information page.

Incoming direction information

On the Tap attribute page, click xx to view the Tap orientation information, as shown in Figure.

 Ingress		 Egress		 Add							
#	Port	Inner Match	Untag	Vlan mark	Truncation	edit-macda	edit-macsa	edit-ipda	edit-ipsa	edit-vlan	Options
1	eth-0-31	N/A	Disable	N/A	Disable	N/A	N/A	N/A	N/A	N/A	

 Close

incoming direction information

incoming direction parameters

Parameter item	Description
#	Configure the port number
Port	Corresponding number of port names

Inner Match	Match the number of the inner match name
Untag	Corresponding number of VLAN stripping
VLAN mark	Corresponding number of VLAN tags
Truncation	whether the corresponding truncation is enabled
Edit-macda	Corresponding number Edit the destination MAC
Edit-macsa	Corresponding number Edit the source MAC
Edit-ipda	Corresponding number Edit the destination IP
Edit-ipsa	Corresponding number Edit the source IP
Edit-vlan	Corresponding number Edit the VLAN
Options	The corresponding number of options, including: delete

Out of direction information

On the Tap attribute page, click xx to view the Tap outbound information, as shown in Figure.

Ingress Egress		+ Add	
#	Port	Timestamp	Options
1	eth-0-2	NO	

✖ Close

out of direction information

out of direction parameters

Parameter item	Description
#	Configure the port number
Port	Corresponding number of port names
Timestamp	Corresponding number timestamp
Options	The corresponding number of options, including: delete

Attribute configuration

On the Tap's Properties page, click “Add” to enter the Tap property configuration page.

Incoming direction configuration

In the Tap's attribute information page, select “ingress” in the direction to enter the inbound configuration, as shown in Figure.

Direction	ingress ▼
Port	▼
Truncation	off
Untag	Disable ▼
Vlan mark	off
Flow Match	off
Edit packet	off

✓ OK
✕ Close

incoming direction configuration

incoming direction configuration

Configuration item	Description
Direction	The direction of the Tap port, the direction includes: ingress and egress
Port	Configure the corresponding port
Truncation	Configure whether to enable packet truncation. If enabled, all subsequent configuration items will be canceled, as shown in Figure “enable packet truncation r”
Untag	Configure whether to enable VLAN stripping. If enabled, the VLAN tag configuration item will be canceled. As shown in Figure “enable VLAN stripping”
VLAN mark	Configure whether to enable VLAN tagging. If enabled, the VLAN stripping configuration item will be canceled
Flow Match	Configure whether to enable inner layer matching. If enabled, select the corresponding flow table. The edit message configuration item will be canceled, as shown in Figure “enable inner layer matching”
Edit packet	Configure whether to enable the editing packet. If enabled, the configuration of the editing packet is shown in Table “edit the message configuration”. The configuration of the inner layer will be canceled, as shown in Figure “enable editing messages”

Direction	ingress ▼
Port	eth-0-1 ▼
Truncation	<input checked="" type="checkbox"/> on

enable packet truncation

Direction	ingress ▼
Port	eth-0-1 ▼
Truncation	<input type="checkbox"/> off
Untag	double-vlan ▼
Flow Match	Disable
Edit packet	double-vlan
	outer-vlan
	inner-vlan

enable VLAN stripping

Direction	ingress
Port	eth-0-1
Truncation	off
Untag	Disable
Vlan mark	off
Flow Match	on
Flow	<div> <div></div> <div>flow1</div> </div>

✓ OK

✗ Close

enable inner layer matching

Direction	ingress ▼
Port	eth-0-1 ▼
Truncation	<input type="checkbox"/> off
Untag	Disable ▼
Vlan mark	<input type="checkbox"/> off
Edit packet	<input checked="" type="checkbox"/> on
Edit-macda	<input checked="" type="checkbox"/> on
Dst-mac	mac in HHHH.HHHH.HH
Edit-macsa	<input checked="" type="checkbox"/> on
Src-mac	mac in HHHH.HHHH.HH
Edit-ipda	<input checked="" type="checkbox"/> on
Dst-ip Type	ipv4 ▼
Dst-ip	A.B.C.D
Edit-ipda	<input checked="" type="checkbox"/> on
Src-ip Type	ipv4 ▼
Src-ip	A.B.C.D
Edit-vlan	<input checked="" type="checkbox"/> on
ID	1~4094

enable editing messages

edit the message configuration

Configuration item	Description
Edit packet	Configure whether to enable editing packets

Edit-macda	Configure whether to enable the edit destination MAC address
Dst-mac	Configure the destination MAC
Edit-macsa	Configure whether to enable the edit source MAC address
Src-mac	Configure the source MAC
Edit-ipda	Configure whether to enable the edit destination IP address
Src-ip	Configure the destination IP
Edit-ipsa	Configure whether to enable the edit source IP address
Src-ip	Configure the source IP
Edit-vlan	Configure whether to enable the edit VLAN
ID	Configure the VLAN ID

Out of direction configuration

On the Tap property configuration page, select “egress” in the direction to enter the inbound configuration, as shown in Figure.

Direction	egress ▼
Port	eth-0-1 ▼
Timestamp	off

out of direction configurations

out of direction configuration

Configuration item	Description
Direction	The direction of the Tap port, the direction includes:ingress and egress
Port	Configure the corresponding port
Timestamp	Configure whether to enable timestamp



1.3 UDF configuration

This section describes the UDF of the configuration and view.

1.3.1 UDF statistics

Click “Tap Management”>”UDF” to enter the main page of the UDF. This page can view the configuration of the UDF, as shown in Figure.



UDF Config				+ Add UDF
#	UDF Name	UDF Type	Options	
1	0	I2 header	 	

UDF statistics

UDF statistics parameters

Parameter item	Description
#	Correspond to the number of the UDF
UDF Name	Corresponding to the name of the UDF
UDF Type	Corresponding to the description of the UDF
Options	The options for the corresponding numbering UDF include options for configuration and deletion

1.3.2 Global configuration

In the main page of the UDF configuration, click “Add UDF” to perform the corresponding global configuration.

Add UDF

Click “Add UDF” to enter the main page of the UDF configuration. This page can view the configuration of the UDF, as shown in Figure.

Add UDF
×

UDF Type

I2 header

UDF ID

0

✓ Add UDF

✕ Close

add a UDF

add a class of UDF configuration

Configuration item	Description
UDF Type	Configure the type of UDF
UDF ID	Configure the ID of UDF(0-3)

1.3.3 UDF configuration

Click on the corresponding number of UDF name, enter the corresponding number of UDF information configuration.

UDF information

Click the name information of the UDF to view the specific information of the UDF, as shown in Figure.

UDF ID:0 ✕

UDF ID	UDF Type	UDF Config
0	I2 header	Udf Index 0 Udf Type : I2 header Udf Match-Field ether-type 0x800 0x0 Offset : 35 36 37 38

✕ Close

UDF information



flow information parameters

Parameter item	Description
UDF ID	Corresponding to the UDF number
UDF Type	The corresponding type of UDF
UDF config	The corresponding configuration of UDF

Option configuration

Click the UDF option information to enter the properties of the UDF configuration and delete the configuration.

options configuration

Configuration item	Description
	Enter the properties of the UDF configuration, see section “Attribute configuration”
	Delete the corresponding numbered UDF

1.3.4 Attribute configuration

Click on the UDF option information, enter the UDF attribute configuration, as shown in Figure.

Match Ether Type	<input checked="" type="checkbox"/> on
Value	<input type="text" value="0x600-0xFFFF"/>
L2 UDF Offset0	<input checked="" type="checkbox"/> on
Value	<input type="text" value="0~63"/>
L2 UDF Offset1	<input checked="" type="checkbox"/> on
Value	<input type="text" value="0~63"/>
L2 UDF Offset2	<input checked="" type="checkbox"/> on
Value	<input type="text" value="0~63"/>
L2 UDF Offset3	<input checked="" type="checkbox"/> on
Value	<input type="text" value="0~63"/>

☒ OK ☒ Close

attribute configuration

attribute configuration

Configuration item	Description
Match Ether Type	Configure the Ether Type of the UDF
L2 UDF Offset0	The position of the first L2 UDF offset (0-63)
L2 UDF Offset1	The position of the second L2 UDF offset (0-63)
L2 UDF Offset2	The position of the third L2 UDF offset (0-63)
L2 UDF Offset3	The position of the fourth L2 UDF offset (0-63)

1.4 Flow

This section describes the flow chart statistics and their properties of the configuration and view.

1.4.1 Flow statistics

Click “Tap Management”>”Flow” to enter the main page of the flow table. This page can view the statistics of the flow table, as shown in Figure.

#	Flow Name	Remark	Decap	Options
1	f1	N/A	Disable	 

flow statistics

flow statistics parameters

Parameter item	Description
#	Correspond to the number of the flow statistics
Flow Name	Corresponding to the name of the flow
Remark	Corresponding to the description of the flow
Decap	Does the corresponding number flow enable decapsulation.
Options	The options for the corresponding numbering flow include options for configuration and deletion

1.4.2 Global configuration

In the main page of the flow chart statistics, click xx to perform the corresponding global configuration.

Add a class of flow

Click “Add Flow” to enter the main page of the flow table. This page can view the statistics of the flow table, as shown in Figure.

Flow Name

New Flow Name

Decap

off

✓ Add Flow

✕ Close

add a class of flow

add a class of flow configuration

Configuration item	Description
Flow Name	Configure the names of such flow
Decap	Configure whether to enable decapsulation



NOTE If you enable decapsulation, the UDF attribute configuration option is canceled, instead of the inner layer matching attribute configuration option.

1.4.3 Flow statistics configuration

Click on the corresponding number of flow chart information, enter the corresponding number of flow table information configuration.

Flow information

Click the name information of the flow table to view the specific information of the flow table, as shown in Figure.

#	Flow Entry	Options
1	sequence-num 10 permit any src-ip any dst-ip any	

flow information

flow information parameters

Parameter item	Description
#	Corresponding to the flow number
Flow Entry	The corresponding number of flow
Options	The corresponding number of options, including: delete

Describe the configuration

Click the description of the flow table to view the description of the flow table, as shown in Figure.

Enable
 ☒ on

Remark

describe the information



describe the configuration

Configuration item	Description
Enable	Configure whether to enable the description configuration
Remark	Configure the description of the flow

Option configuration

Click the flow table option information to enter the properties of the flow table configuration and delete the configuration.

options configuration

Configuration item	Description
	Enter the properties of the flow table configuration, see section “Attribute configuration”
	Delete the corresponding numbered flow

1.4.4 Attribute configuration

Click on the flow table option information, enter the flow table attribute configuration, as shown in Figure.

Match Rule

Action	permit ▼
IP protocol number	any ▼
Filter Type	ipv4 ▼
Ether Type	<input type="checkbox"/> off
Src-ip	<input type="checkbox"/> off
Dst-ip	<input type="checkbox"/> off
DSCP	<input type="checkbox"/> off
Ip-precedence	<input type="checkbox"/> off
Options	<input type="checkbox"/> off
Fragment	<input type="checkbox"/> off
Src-mac	<input type="checkbox"/> off
Dst-mac	<input type="checkbox"/> off
COS	<input type="checkbox"/> off
Inner COS	<input type="checkbox"/> off
VLAN	<input type="checkbox"/> off
Inner VLAN	<input type="checkbox"/> off
UDF	<input type="checkbox"/> off

Action

Truncation	<input type="checkbox"/> off
Untag	Disable ▼
Vlan mark	<input type="checkbox"/> off
Edit packet	<input type="checkbox"/> off
Add I2gre	<input type="checkbox"/> off
Add I3gre	<input type="checkbox"/> off
Add Vxlan	<input type="checkbox"/> off
Add Erspantype-1	<input type="checkbox"/> off
Add Erspantype-2	<input type="checkbox"/> off

attribute configuration

attribute configuration

Configuration item	Description
Action	Configure the behavior of the flow table on the port, including: permit and deny
IP protocol number	Select the corresponding IP protocol number, including: any, tcp, udp, gre, nvgre, icmp, igmp, mpls, pppoe(vxlan is udp protocol , pbb is mpls protocol), you can also select num, enter 0 ~ 255 protocol number
Filter Type	Configure filter type, including: ipv4, ipv6
Ether Type	Configure whether enable or disable ethertype; if enables, then needs to configure the value and wildcard.
Src-IP	Configure the source IP address; if enables, it needs to configure the source ip address and source wildcard.
Dst-IP	Configure the destination IP address; if enables, it needs to configure the destination ip address and destination wildcard
DSCP	Configure to enable or disable DSCP; if enables, it needs to configure a value between 0 and 63
Ip-precedence	Configure the IP precedence
Options	Configure to enable or disable options
Fragment	Configure to enable or disable fragment

Src-mac	Configure the source MAC address. If enabled, you need to select the corresponding type and enter the source MAC address, as shown in Figure “source MAC”
Dst-mac	Configure the destination MAC address. If enabled, you need to select the corresponding type and enter the destination MAC address, as shown in Figure “destination MAC”
COS	Configure enable or disable COS, if enables, it needs to setup the COS value which is between 0 and 7.
Inner COS	Configure enable or disable COS, if enables, it needs to setup the COS value which is between 0 and 7.
VLAN	If the VLAN is enabled, enable ID and anti-mask if it is enabled, as shown in Figure “VLAN”
Inner VLAN	If the inner VLAN is enabled, enable ID and anti-mask if it is enabled
Strip-header	Configure enable or disable COS Strip-header, and Strip-header is only support udp,gre,nvgre,mpls,pppoe protocol, as shown in Figure “Strip-header”
Truncation	Configure whether to enable truncation. If enables, the rest of the configuration items will disappear
Untag	Configure whether to enable VLAN stripping. It includes: disable,

	double-vlan, outer-vlan, inner-vlan
VLAN mark	If the VLAN mark is enabled, the untag will be disappeared
Edit packet	If the Edit packet is enabled, as shown in Figure “enable editing messages”
Add L2gre	Configure whether to enable Layer 2 GRE encapsulation
Add L3gre	Configure whether to enable Layer 3 GRE encapsulation
Add Vxlan	Configure whether to enable VXLAN encapsulation
Add Erspantype-1	Configure whether to enable Erspantype-1 encapsulation
Add Erspantype-2	Configure whether to enable Erspantype-2 encapsulation

Src-mac	<input checked="" type="checkbox"/> on
Type	<input checked="" type="button" value="any"/> <input type="button" value="host"/> <input type="button" value="MAC"/>
Src-mac	mac in HHHH.HHHH.HH

source MAC

Dst-mac	<input checked="" type="checkbox"/> on
Type	<input checked="" type="button" value="any"/> <input type="button" value="host"/> <input type="button" value="MAC"/>
Dst-mac	mac in HHHH.HHHH.HH


destination MAC

VLAN	<input type="checkbox"/> on
ID	<input type="text" value="1~4094"/>
Wildcard	<input type="text" value="0x0"/>


VLAN

UDF	<input type="checkbox"/> on
Type	<input checked="" type="radio"/> Layer 2 <input type="radio"/> Layer 3 <input type="radio"/> Layer 4
L2 UDF ID	<input type="text" value="0"/>
Offset Opt	<input checked="" type="checkbox"/> udf0 <input checked="" type="checkbox"/> udf1 <input checked="" type="checkbox"/> udf2 <input checked="" type="checkbox"/> udf3
UDF0 type	<input type="text" value="value"/>
UDF0 Value	<input type="text" value="0x0~0xFF"/>
UDF0 Wildcard	<input type="text" value="0x0~0xFF"/>
UDF1 type	<input type="text" value="value"/>
UDF1 Value	<input type="text" value="0x0~0xFF"/>
UDF1 Wildcard	<input type="text" value="0x0~0xFF"/>
UDF2 type	<input type="text" value="value"/>
UDF2 Value	<input type="text" value="0x0~0xFF"/>
UDF2 Wildcard	<input type="text" value="0x0~0xFF"/>
UDF3 type	<input type="text" value="value"/>
UDF3 Value	<input type="text" value="0x0~0xFF"/>
UDF3 Wildcard	<input type="text" value="0x0~0xFF"/>

L2 UDF

UDF	<input checked="" type="checkbox"/> on
Type	<div> <div>Layer 2</div> <div>Layer 3</div> <div>Layer 4</div> </div>
Value	<input type="text" value="0xFFFFFFFF"/>
Wildcard	<input type="text" value="0xFFFFFFFF"/>
Offset	<input type="text" value="0~60"/> 

L3 UDF

UDF	<input checked="" type="checkbox"/> on
Type	<div> <div>Layer 2</div> <div>Layer 3</div> <div>Layer 4</div> </div>
Value	<input type="text" value="0xFFFFFFFF"/>
Wildcard	<input type="text" value="0xFFFFFFFF"/>
Offset	<input type="text" value="0~60"/> 

L4 UDF

Action

Strip-header	<input checked="" type="checkbox"/> on
Strip-position	<input checked="" type="checkbox"/> on
Type	<input checked="" type="radio"/> L2 <input type="radio"/> L3 <input type="radio"/> L4
Strip-offset	<input checked="" type="checkbox"/> on
Value	0~30 <input type="button" value="▲"/> <input type="button" value="▼"/>
Vlan mark	<input type="checkbox"/> off
Edit packet	<input checked="" type="checkbox"/> on
Add-macaddr	<input type="checkbox"/> off
Edit-macda	<input checked="" type="checkbox"/> on
Dst-mac	<input type="text" value="a.a.a"/>
Edit-macsa	<input checked="" type="checkbox"/> on
Src-mac	<input type="text" value="b.b.b"/>
Edit-ipda	<input type="checkbox"/> off
Edit-ipsa	<input type="checkbox"/> off
Edit-vlan	<input type="checkbox"/> off

Strip-header

Match Rule

Action	<div> <div>permit</div> <div></div> </div>
IP protocol number	<div> <div>any</div> <div></div> </div>
Filter Type	<div> <div>ipv4</div> <div></div> </div>
Ether Type	<div> <div>off</div> </div>
Src-ip	<div> <div>on</div> </div>
Source IP	<div> <div>1.1.1.1</div> </div>
Source wildcard	<div> <div>0.0.0.0</div> </div>
Dst-ip	<div> <div>off</div> </div>
DSCP	<div> <div>off</div> </div>
Ip-precedence	<div> <div>off</div> </div>
Options	<div> <div>off</div> </div>
Fragment	<div> <div>off</div> </div>
Src-mac	<div> <div>off</div> </div>
Dst-mac	<div> <div>off</div> </div>
COS	<div> <div>off</div> </div>
Inner COS	<div> <div>off</div> </div>
VLAN	<div> <div>off</div> </div>
Inner VLAN	<div> <div>off</div> </div>

Action

Truncation	<div> <div>on</div> </div>
------------	----------------------------

✓ OK

✕ Close

enable packet truncation





Action

Untag	double-vlan	
Vlan mark	Disable	
Edit packet	double-vlan	
	outer-vlan	
	inner-vlan	

☒ OK ☐ Close

enable VLAN stripping

Action

Untag	Disable 
Vlan mark	<input type="checkbox"/> off
Edit packet	<input checked="" type="checkbox"/> on
Add-macaddr	<input type="checkbox"/> off
Edit-macda	<input checked="" type="checkbox"/> on
Dst-mac	mac in HHHH.HHHH.HH
Edit-macsa	<input checked="" type="checkbox"/> on
Src-mac	mac in HHHH.HHHH.HH
Edit-ipda	<input checked="" type="checkbox"/> on
Dst-ip Type	ipv4 
Dst-ip	A.B.C.D
Edit-ipsa	<input checked="" type="checkbox"/> on
Src-ip Type	ipv4 
Src-ip	A.B.C.D
Edit-vlan	<input checked="" type="checkbox"/> on
Type	<input checked="" type="button" value="Add"/> <input type="button" value="Edit"/>
ID	1~4094 

enable editing messages

Action

Add I2gre	<input checked="" type="checkbox"/> on
L2gre-src-ip	<input type="text" value="A.B.C.D"/>
L2gre-dest-ip	<input type="text" value="A.B.C.D"/>
L2gre-dest-mac	<input type="text" value="mac in HHHH.HHHH.HH"/>
L2gre-key-length	<input type="text" value="24"/> ▼
L2gre-key-num	<input type="text" value="1~16777215"/> ▲▼


Add L2gre

Action

Add I3gre	<input checked="" type="checkbox"/> on
L3gre-src-ip	<input type="text" value="A.B.C.D"/>
L3gre-dest-ip	<input type="text" value="A.B.C.D"/>
L3gre-dest-mac	<input type="text" value="mac in HHHH.HHHH.HH"/>

Add L3gre

Action

Add Vxlan	<input checked="" type="checkbox"/> on
Vxlan-dest-mac	<input type="text" value="mac in HHHH.HHHH.HH"/>
Vxlan-src-ip	<input type="text" value="A.B.C.D"/>
Vxlan-dest-ip	<input type="text" value="A.B.C.D"/>
Vxlan-dst-port	<input type="checkbox"/> off
Vxlan-src-port	<input type="checkbox"/> off
Vxlan-vni-num	<input type="text" value="1~16777215"/> 

☒ OK ☐ Close

Add Vxlan


Action

Add Erspantype-1	<input checked="" type="checkbox"/> on
Erspantype-1-dest-mac	<input type="text" value="mac in HHHH.HHHH.HH"/>
Erspantype-1-src-ip	<input type="text" value="A.B.C.D"/>
Erspantype-1-dest-ip	<input type="text" value="A.B.C.D"/>

☒ OK ☐ Close

Add Erspantype-1

Action

Add Erspantype-2	<input checked="" type="checkbox"/> on
Erspantype-2-dest-mac	mac in HHHH.HHHH.HH
Erspantype-2-src-ip	A.B.C.D
Erspantype-2-dest-ip	A.B.C.D
Erspantype-2-spanid	1~1023 

Add Erspantype-2

enable editing messages configuration

Configuration item	Description
Edit packet	Configure whether to enable editing packets
Add-macaddress	Configure whether to enable to add mac address, if enable, then needs to configure source mac and destination mac address
Edit-macda	Configure whether to enable the edit destination MAC address
Dst-mac	Configure the destination MAC
Edit-macsa	Configure whether to enable the edit source MAC address
Src-mac	Configure the source MAC
Edit-ipda	Configure whether to enable the edit destination IP address

Dst-ip Type	Configure destination ip type
Dst-ip	Configure destination ip
Edit-ipsa	Configure whether to enable the edit source IP address
Src-ip Type	Configure source ip type
Src-ip	Configure the source IP
Edit-vlan	Configure whether to enable the edit VLAN
Type	Configure Type, including add and edit
ID	Configure the VLAN ID

1.5 Inner layer matching

This section describes the configuration and view of the statistics of the inner flow chart and its properties

1.5.1 Inner flow statistics

Click “Tap Management”>”Inner Match” to enter the inner layer matching the main page, this page can view the inner flow chart statistics, as shown in Figure.

#	Flow Name	Remark	Options
1	acl1	N/A	 

inner flow statistics

inner flow statistics parameters

Parameter item	Description
#	Corresponding to the inner flow statistics number
Flow Name	Corresponds to the name of the inner stream

Remark	Corresponding number description of inner layer flow
Options	The options for the numbering inner layer flow table include: configuration properties and deletion

1.5.2 Global configuration

In the inner flow chart statistics on the main page, click “Add Inner-match Flow” can be the corresponding global configuration.

Add a class of inner flow

Click “Add Flow” to enter the main page of the flow table. This page can view the statistics of the flow table, as shown in Figure.

Flow Name

add a class of inner flow

add a class of inner flow configuration

Configuration item	Description
Flow Name	Configure the names of such inner stream

1.5.3 Inner flow statistics configuration

Click on the corresponding number of the inner flow chart information, enter the corresponding number of inner flow chart information configuration

Inner flow information

Click the name information of the inner stream table to view the specific information of the inner flow chart, as shown in Figure.

#	Flow Entry	Options
1	sequence-num 1 match any src-ip any dst-ip any	

inner flow information

inner flow information parameters

Parameter item	Description
#	Corresponding to the inner flow meter number
Flow Entry	The corresponding number of flow
Options	The corresponding number of options, including: delete

Describe the configuration

Click the description of the inner flow meter to view the description of the inner flow table, as shown in Figure.

Enable



Remark

Flow description



describe the configuration

describe the configuration



Configuration item	Description
--------------------	-------------

Enable	Configure whether to enable the description configuration
Remark	Configure the description of the inner flow meter

Option configuration

Click the option information of the inner flow table to enter the properties of the inner flow table and delete the configuration .

option configuration

Configuration item	Description
	Enter the properties of the flow table configuration, see section “Attribute configuration”
	Delete the inner stream table for the corresponding number

1.5.4 Attribute configuration

Click the “+” symbol under “Options”, enter the corresponding flow attribute configuration, as shown in Figure.

IP protocol number	any ▼
Filter TYPE	ipv4 ▼
Ether Type	<input type="checkbox"/> off
src-ip	<input type="checkbox"/> off
dst-ip	<input type="checkbox"/> off
DSCP	<input type="checkbox"/> off
Ip-precedence	<input type="checkbox"/> off
Options	<input type="checkbox"/> off
Fragment	<input type="checkbox"/> off
src-mac	<input type="checkbox"/> off
dst-mac	<input type="checkbox"/> off
COS	<input type="checkbox"/> off
Inner COS	<input type="checkbox"/> off
VLAN	<input type="checkbox"/> off
Inner VLAN	<input type="checkbox"/> off

acl attribute configuration

attribute configuration

Configuration item	Description
IP protocol number	Select the corresponding IP protocol number, including: any, tcp, udp, icmp and igmp. You can also select num, enter 0 ~ 255 protocol number
Filter Type	Configure filter type, including: ipv4, ipv6
Ether Type	Configure Ethertype

Src-IP	Configure the source IP address
Dst-IP	Configure the destination IP address
DSCP	Configure to enable DSCP
Ip-precedence	Configure the IP precedence
Options	Configure enable or disable options
Fragment	Configure enable or disable fragment
Src-mac	Configure the source MAC address. If enabled, you need to select the corresponding type and enter the source MAC address, as shown in the following Figure “source MAC”
Dst-mac	Configure the destination MAC address. If enabled, you need to select the corresponding type and enter the destination MAC address, as shown in the following Figure “destination MAC”
COS	Configure to enable or disable COS
Inner COS	Configure to enable or disable inner COS
VLAN	If the VLAN is enabled, enable ID and anti-mask if it is enabled, as shown in the following Figure “VLAN”
Inner VLAN	Configure to enable or disable Inner VLAN. If enables, it needs to setup inner VLAN ID and wildcar

src-mac	<input checked="" type="checkbox"/> on
Type	<input checked="" type="button" value="any"/> <input type="button" value="host"/> <input type="button" value="MAC"/>
src-mac	mac in HHHH.HHHH.HH

source MAC

dst-mac	<input checked="" type="checkbox"/> on
Type	<input checked="" type="button" value="any"/> <input type="button" value="host"/> <input type="button" value="MAC"/>
dst-mac	<input type="text" value="mac in HHHH.HHHH.HH"/>

destination MAC

VLAN	<input checked="" type="checkbox"/> on
ID	<input type="text" value="1~4094"/>
Wildcard	<input type="text" value="0x0"/>

VLAN

1.6 Access control list

This section describes the configuration and view of the statistics of the access control list and its attributes.

1.6.1 Access control list statistics

Click “Tap Management”>”Acl”to enter the access control list main page, this page can view the access control list statistics, as shown in Figure.

#	Name	Remark	Options
1	acl	N/A	<input type="button" value="+"/> <input type="button" value="🗑"/>

access control list statistics

access control list statistics parameters

Parameter item	Description
#	The number of the corresponding access control list statistics
Name	Corresponds to the name of the access control list

Remark	Correspondence number access control list description
Options	Corresponding number access control list options, options include: configuration properties and delete

1.6.2 Global configuration

In the main page of the access control list statistics, click “Add Acl” to perform the corresponding global configuration

Add access control list

Click “Add Acl”, you can enter the page to increase the access control list, as shown in Figure.

Name

New ACL Name

✓ Add Acl

✕ Close

add access control list

add access control list configuration


Configuration item	Description
Name	Configure to increase the name of the access control list

1.6.3 Access control list configuration

Click on the corresponding number to increase the access control list information, enter the corresponding number of access control list to increase the information configuration.

Access control list information

Click to increase the name of the access control list information, you can view the specific information to increase the access control list, as shown in Figure.

#	Entry	Options
1	sequence-num 10 permit any src-ip any dst-ip any	

access control list information


access control list information parameters

Parameter item	Description
#	Corresponds to the access control list number
Entry	Corresponding number entry
Options	The corresponding number of options, including: delete


Describe the configuration


Click the description of the access control list to view the description of the access control list, as shown in Figure.

Enable



Remark

 OK

 Close

describe the configuration

describe the configuration



Configuration item	Description
--------------------	-------------

Enable	Configure whether to enable the description configuration
Remark	Configure a description of the access control list

Option configuration

Click the access control list option to access the configuration and delete configuration of the access control list.

option configuration

Configuration item	Description
	Enter the attribute configuration of the access control list see section “Attribute configuration”
	Delete the access control list for the corresponding number

1.6.4 Attribute configuration

Click the “+” symbol under “Options”, enter the corresponding ACL attribute configuration, as shown in Figure.

Add

✕

Action	<div> <div>permit</div> <div>▼</div> </div>
IP protocol number	<div> <div>any</div> <div>▼</div> </div>
Filter TYPE	<div> <div>ipv4</div> <div>▼</div> </div>
Ether Type	<div>off</div>
Src-ip	<div>off</div>
Dst-ip	<div>off</div>
DSCP	<div>off</div>
Ip-precedence	<div>off</div>
Options	<div>off</div>
Fragment	<div>off</div>
Src-mac	<div>off</div>
Dst-mac	<div>off</div>
COS	<div>off</div>
Inner COS	<div>off</div>
VLAN	<div>off</div>
Inner VLAN	<div>off</div>

✓ OK

✕ Close

acl attribute configuration

attribute configuration

Configuration item	Description
Action	Configure the behavior of the flow table on the port, including: permit and deny
IP protocol number	Select the corresponding IP protocol number, including: any, tcp, udp, you can also select num, enter 0 ~ 255

	protocol number
Filter Type	Configure filter type, including: ipv4, ipv6
Ether Type	Configure Ethertype
Src-IP	Configure the source IP address
Dst-IP	Configure the destination IP address
DSCP	Configure to enable DSCP
Ip-precedence	Configure the IP precedence
Options	Configure enable or disable options
Fragment	Configure enable or disable fragment
Src-mac	Configure the source MAC address. If enabled, you need to select the corresponding type and enter the source MAC address, as shown in the following Figure “source MAC”
Dst-mac	Configure the destination MAC address. If enabled, you need to select the corresponding type and enter the destination MAC address, as shown in the following Figure “destination MAC”
COS	Configure to enable or disable COS
Inner COS	Configure to enable or disable inner COS
VLAN	If the VLAN is enabled, enable ID and anti-mask if it is enabled, as shown in the following Figure “VLAN”
Inner VLAN	Configure to enable or disable Inner VLAN. If enables, it needs to setup inner VLAN ID and wildcar

Src-mac	<input checked="" type="checkbox"/> on
Type	any <input checked="" type="radio"/> host <input type="radio"/> MAC
Src-mac	mac in HHHH.HHHH.HH

source MAC

Dst-mac	<input checked="" type="checkbox"/> on
Type	any <input checked="" type="radio"/> host <input type="radio"/> MAC
Dst-mac	mac in HHHH.HHHH.HH

destination MAC

VLAN	<input checked="" type="checkbox"/> on
ID	1~4094
Wildcard	0x0

VLAN

1.7 TAP Statistics

This section describes the configuration and view of the statistics of the flow in ingress interface.

Click “Tap Management”>”TAP Statistics”to enter the main page, this page can view the flow statistics of all interfaces , as shown in Figure.

Port List									
eth-0-1	eth-0-2	eth-0-3	eth-0-4	eth-0-5	eth-0-6	eth-0-7	eth-0-8	eth-0-9	eth-0-10
eth-0-11	eth-0-12	eth-0-13	eth-0-14	eth-0-15	eth-0-16	eth-0-17	eth-0-18	eth-0-19	eth-0-20
eth-0-21	eth-0-22	eth-0-23	eth-0-24	eth-0-25	eth-0-26	eth-0-27	eth-0-28	eth-0-29	eth-0-30
eth-0-31	eth-0-32	eth-0-33	eth-0-34	eth-0-35	eth-0-36	eth-0-37	eth-0-38	eth-0-39	eth-0-40
eth-0-41	eth-0-42	eth-0-43	eth-0-44	eth-0-45	eth-0-46	eth-0-47	eth-0-48	eth-0-49	eth-0-50
eth-0-51	eth-0-52	eth-0-53	eth-0-54						

Flow Statistics									
Interface:									

TAP statistics

1.7.2 Flow statistics of interface

Port List									
eth-0-1	eth-0-2	eth-0-3	eth-0-4	eth-0-5	eth-0-6	eth-0-7	eth-0-8	eth-0-9	eth-0-10
eth-0-11	eth-0-12	eth-0-13	eth-0-14	eth-0-15	eth-0-16	eth-0-17	eth-0-18	eth-0-19	eth-0-20
eth-0-21	eth-0-22	eth-0-23	eth-0-24	eth-0-25	eth-0-26	eth-0-27	eth-0-28	eth-0-29	eth-0-30
eth-0-31	eth-0-32	eth-0-33	eth-0-34	eth-0-35	eth-0-36	eth-0-37	eth-0-38	eth-0-39	eth-0-40
eth-0-41	eth-0-42	eth-0-43	eth-0-44	eth-0-45	eth-0-46	eth-0-47	eth-0-48	eth-0-49	eth-0-50
eth-0-51	eth-0-52	eth-0-53	eth-0-54						

Flow Statistics									
Interface: eth-0-1									
Flow Name: flow1									
Match Rule: sequence-num: 10 permit any src-ip any dst-ip any Match Bytes: 200 Match Packets: 2 Total Match Bytes: 200 Total Match Packets: 2									

flow statistics



NOTE

It only displays the flow statistics of interface which applies flow in the tap-group.

1 Tool

1.1 Overview

This chapter mainly describes Ping, Traceroute, restart / save the use and information on the page, the user can use these tools for basic network diagnosis.

1.2 Ping

Users can use ping to detect and diagnose current network conditions and analyze the resulting information.

1.2.1 Tool use

Click “Tool”>”Ping”to enter the ping tool main page, ping the use of options shown in Figure, click “OK” to use.

Options

VRF ID:
Count
Destination IP

Ping tool

Ping tool configuration

Configuration item	Description
VRF ID	Configure the vrf where the ping packet is specified, default mgmt
Count	Configure the specified number of pings
Destination IP	Configure the destination IP address

1.2.2 Console information

And then use the ping tool, the ping results and then the lower part of the display, as shown in Figure.

```

Console

PING 127.0.0.1 (127.0.0.1) 56(84) bytes of data.
64 bytes from 127.0.0.1: icmp_seq=1 ttl=64 time=0.199 ms
64 bytes from 127.0.0.1: icmp_seq=2 ttl=64 time=0.098 ms
64 bytes from 127.0.0.1: icmp_seq=3 ttl=64 time=0.096 ms
64 bytes from 127.0.0.1: icmp_seq=4 ttl=64 time=0.072 ms

--- 127.0.0.1 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 299ms
rtt min/avg/max/mdev = 0.072/0.116/0.199/0.049 ms
  
```

Ping console information

1.3 Traceroute

Traceroute is a small tool to confirm that the message passes through the destination IP address of the router. Its implementation principle is to determine the destination route by sending ICMP packets of different TTL.

1.3.1 Tool use

Click “Tool”>” Traceroute”to enter the ping tool main page, ping the use of options shown in Figure, click “OK” to use.

Options

VRF ID: mgmt Destination IP: 127.0.0.1 timeout/second: 5 OK

traceroute tool

traceroute tool configuration

Configuration item	Description
VRF ID	Configure the vrf where the ping packet is specified, default mgmt

Destination IP	Configure the destination IP address
Timeout/second	Configure timeout time / sec

1.3.2 Console information

And then use the Traceroutetool, the t result is displayed at the bottom of the option, as shown in Figure.

Console
<pre> traceroute to 127.0.0.1 (127.0.0.1), 30 hops max, 38 byte packets 1 localhost (127.0.0.1) 0.037 ms 0.023 ms 0.015 ms </pre>

traceroute console information

1.4 Reboot/Save

Click “Reboot/Save” to enter the reboot / save main page, as shown in Figure.

Reboot	Save	Save and reboot
--------	------	-----------------

reboot/save parameters

reboot/save configuration

Configuration item	Description
Reboot	Reboot the switch
Save	Save the current configuration to the configuration file
Save and reboot	Save the current configuration to the configuration file and restart the switch

For questions, please contact Garland Technology Support at:
 8AM-9PM (CST) Monday - Friday (Except for observed US Holidays)
 Tel: 716.242.8500 Online: www.garlandtechnology.com/support