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# **Netis VIEW Integrated Network Management System**

**Configuration Management Manual**

## **Statement**

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# Preface

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This preface includes the following:

- Audience

- Related conventions

## Audience

This manual is mainly for the following readers:

- Engineering staff

- Device Developers

- Equipment maintenance personnel

Use this manual requires prior knowledge to master the following

- Data communication technology

- Network Management Technology

## Related conventions

- Term agreement

<b>Term</b>	<b>Meaning</b>
Netis View	Netis VIEW Integrated Network Management System
Mysql	NGBNView use Mysql database

### Symbol Conventions

<b>Icon</b>	<b>Tip Type</b>	<b>Tip matters</b>
	Tip	Important features or instructions
	Note	Maybe interested in personal injury or damage to the system, or cause business interruption or loss
	Warning	May cause significant harm to human life
	Jump to pay	Steps to jump to the next steps
	Cascading menu	Connecting multi-level menu items
	Two-way business	Direction for the two-way traffic signal
	Individual business	Traffic signal direction for the individual

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# 1 Introduction of Configuration Management

---

Choose a device MO, right-click configuration management items, that means open the configuration management interface, as below :

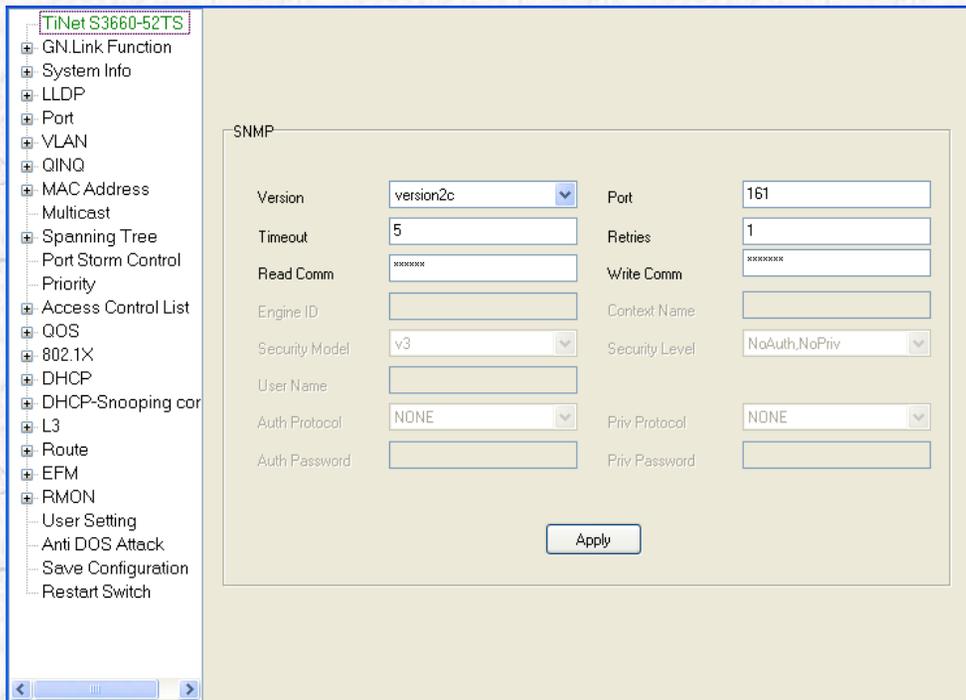


Figure1-1 Configuration management interface



**Notes:**

1. Before the setting of configuration management, it must revise the community value, this value must be the same with corresponding device. Then it will configure successfully ;
2. Not allowed to input Chinese characters when entering , only for English or digital characters.

## 2 IP Address Configuration

---

Each switch has its own IP address, that is the communication between SNMP administrator and TCP/IP application (such as BOOTP, TFTP). User can change the IP address to suit for the network layout, as below :

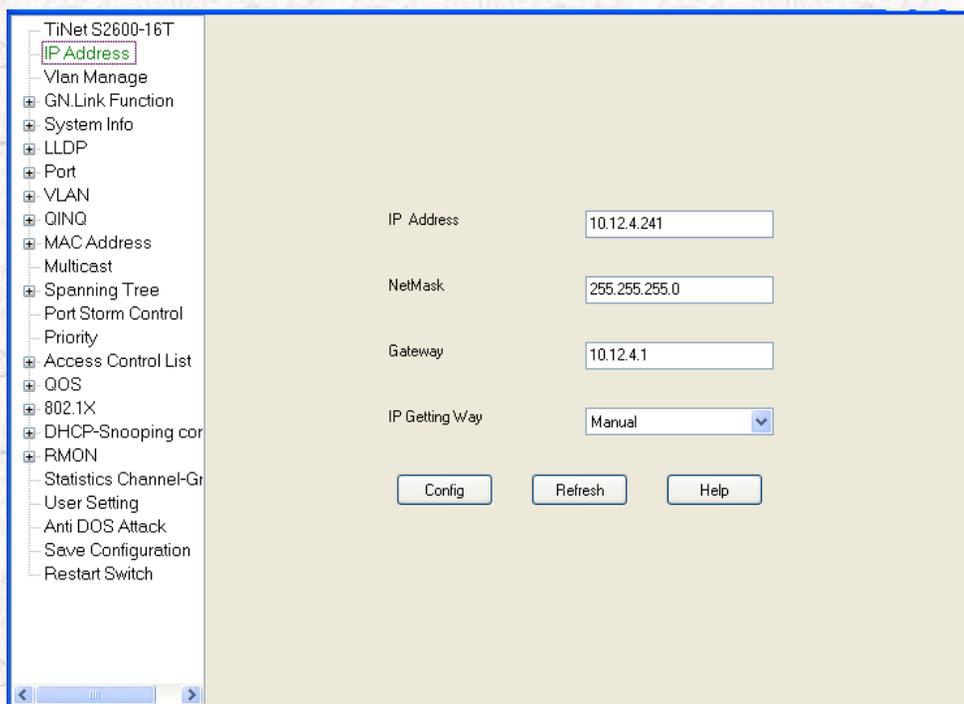


Figure2-1IP address configuration interface



**Notes:**

1. The types of receiving IP : by manual, BOOTP protocol, DHCP protocol.
- 2 .if need to configure gateway IP address, so the address must be the same rang of IP address.
- 3 .if the type of receiving IP changes to BOOTP protocol and DHCP protocol, or change IP address of the device, but still use original IP address to connect, link failure , then user needs delete MO with original IP address in the NMS, add MO with new IP address by manual, or wait for new IP address in system automatically.

as below :

After filling the configuration, click “**configure**” button, system starts to configure to the device, the result will be showed finally.

Click”**Refresh**”button, system will get the new data from the device.

Click”**help**”button, system will show the online help.

### 3 Management VLAN

---

Configuration interface as below :

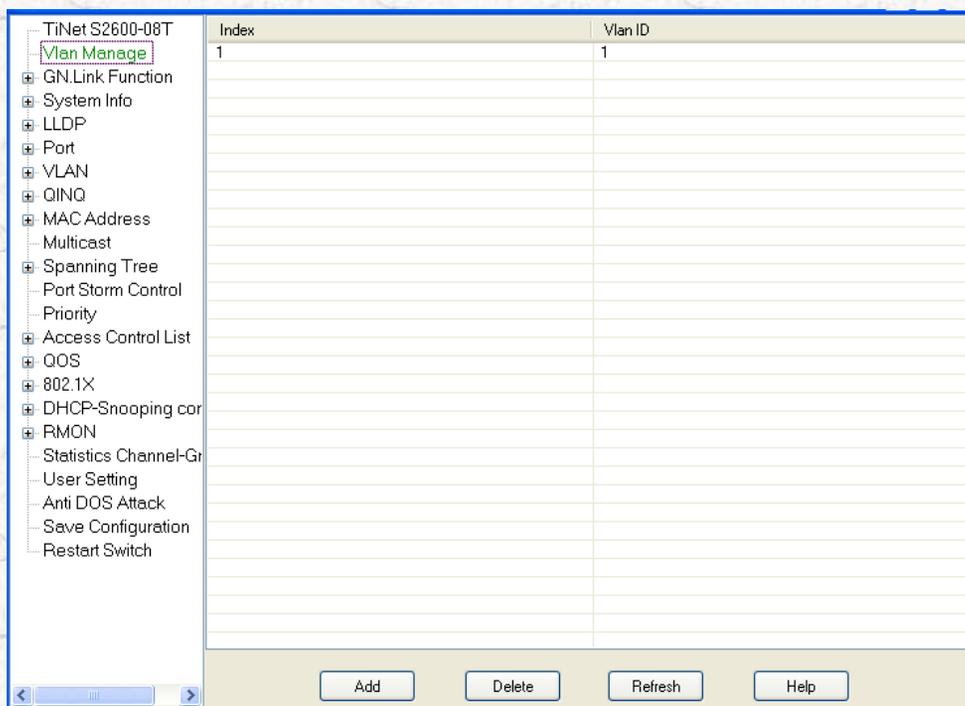


Figure3-1Management VLAN interface

Click”add”button,it shows a parameter configuration interface :

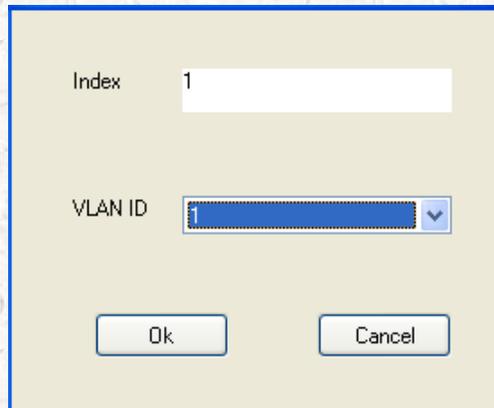
A dialog box with a light beige background and a blue border. It contains two input fields: 'Index' with the value '1' and 'VLAN ID' with a blue dropdown menu. At the bottom, there are two buttons: 'Ok' and 'Cancel'.

Figure3-2Parameter configuration interface

Click **OK** button, system starts to configure the device, the result will come out.

Click **Delete** button, system will delete selected management VLAN, the result will come out.

Click **Refresh** button, system will get the new data from the device..

Click **Help** button, system will show the online help.

## 4 GN.Link Confiugration

---

### 4.1 Service-side Switch Configuration

Open “service-side switch configuration” interface, as below, choose “enable management”.



Notess: it must configure this step without double, if without this step, the default switch is TiNetS3026E, so it can't manage to 20XX series switch!

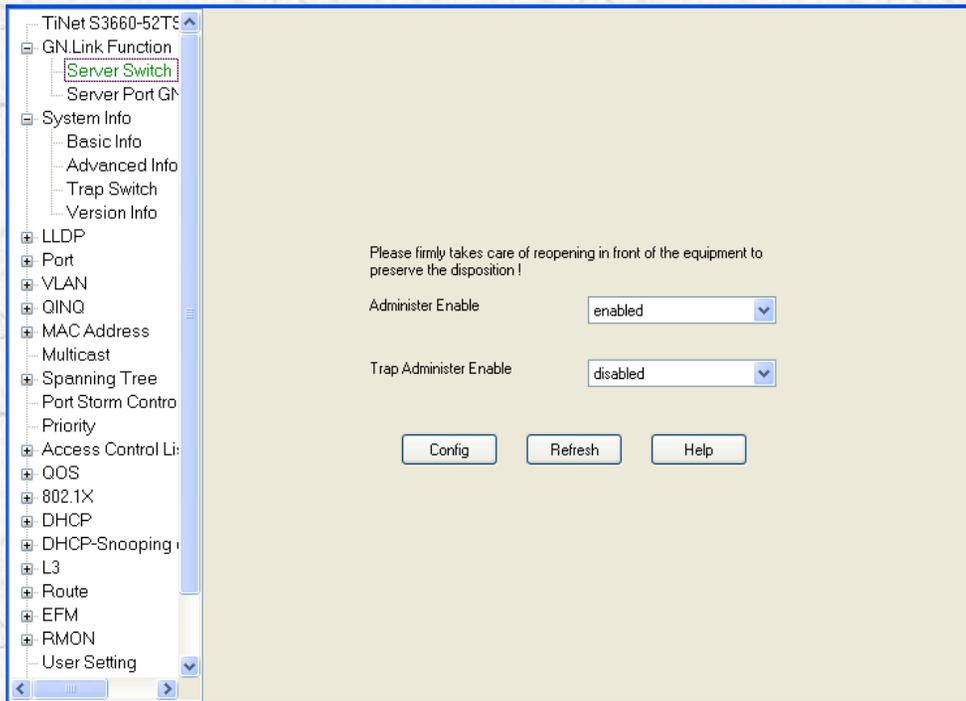


Figure4-1 service-side switch configuration interface

Choose “enable” in the “administrator enable”.

Click “**Config**” button, it shows configuration successfully prompt (Please make sure “write community” is correct).



Figure4-2Configuration success prompt



Notess:

1 TiNetS3026EB02D007P007 and above have the following functions.

2 if VLAN 4016 doesn' t exist, then create VLAN 4016 as GN. Link management VLAN, besides VLAN 4016 include all ports, all ports are tagged; if VLAN 4016 exists, modify VLAN 4016, then VLAN 4016 contains all ports with tagged;

**Trap management in GN.Link customer side** configuration enable can open or shut off Trap function of 20XX .

## 4.2Port GN.Link Enable



Notess:TiNetS3026EB02D007P007 and above have the following functions.

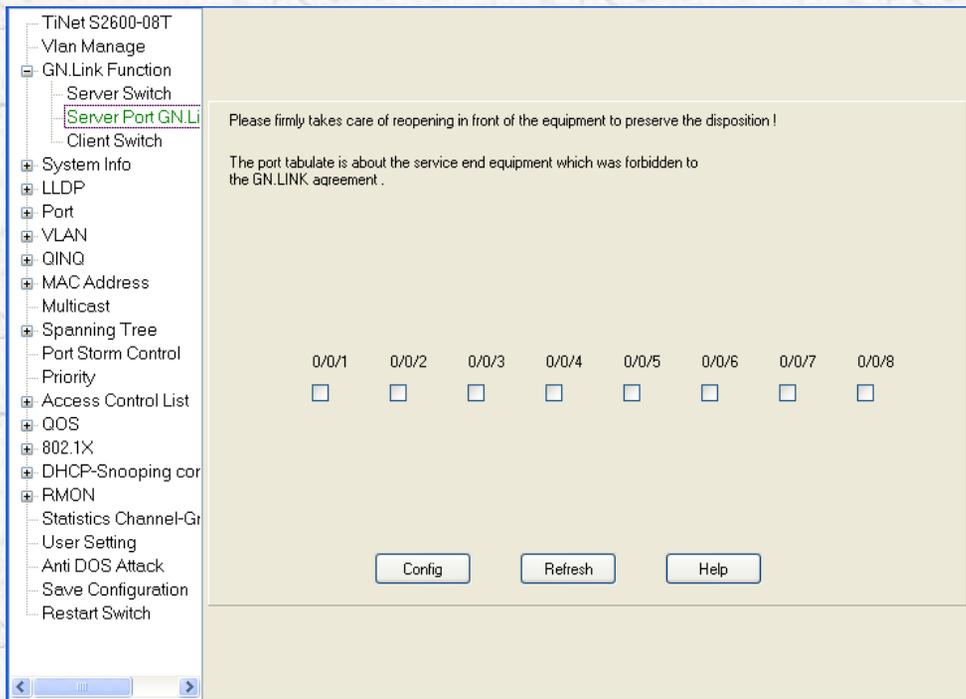


Figure4-3Port GN.Link enable configuration interface

In this lab ,choose forbidden port of GN.Link protocol. After forbidding GN.Link protocol,Port hanging 20XX device will not pass through S3526.

### 4.3Customer-side Switch Configuration

The interface is for reboot switch , as below :



# 5 System Information

## 5.1 Basic information

Basic information contains the read information of device type, product name, device OID, port number and running time , these are determined by the device feature, user can't modify the interface as below:

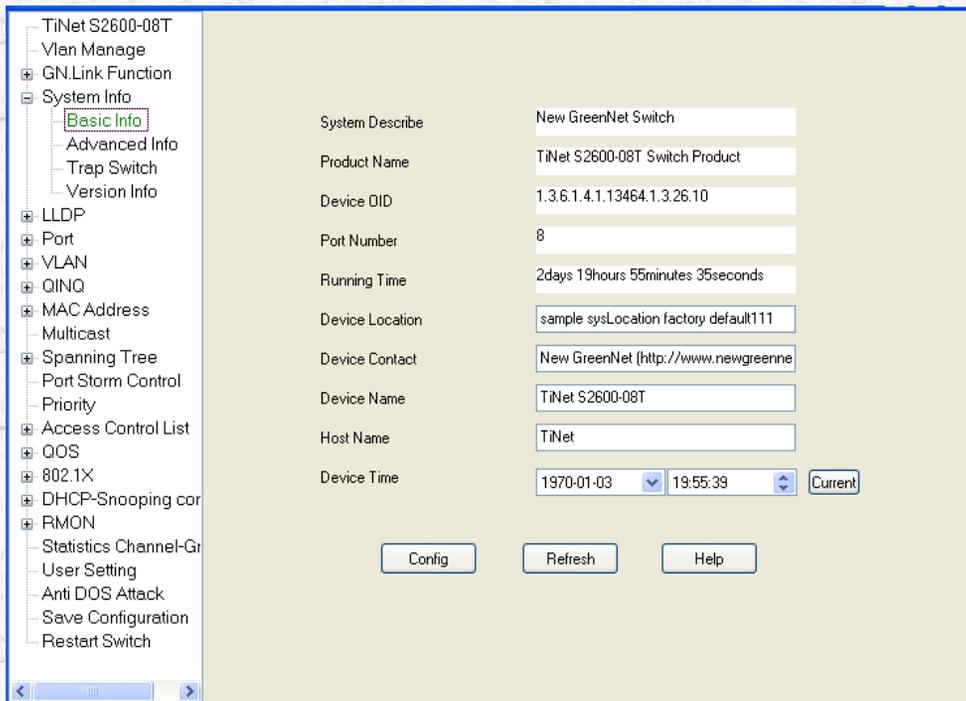


Figure5-1 Basic information interface

Device type: configure by the factory produce device, user can't modify this value , such as the type of TiNetS3526 chassis Switch is "GCOM Switch";

Product name:the detail name of product ;

Device ID:only identifier of device corresponding to SNMP network management ;

Port number: port total numbers ;

Running time :the running time with last starting;

Device location: fill the content by administrator ;

Device contact: device contact identification and information, fill the content by administrator;

Device name: give the name of the device,fill the content by administrator;

Host name: the default value is "TiNet",fill the content by administrator;

Click "**Config**" button,system begins to configure the device, the result will come out.

Click "**Refresh**" button,system will get the new data from the device..

Click "**Help**" button,system will show the online help.

## 5.2 Advance information

All configuration items can write , show as below :

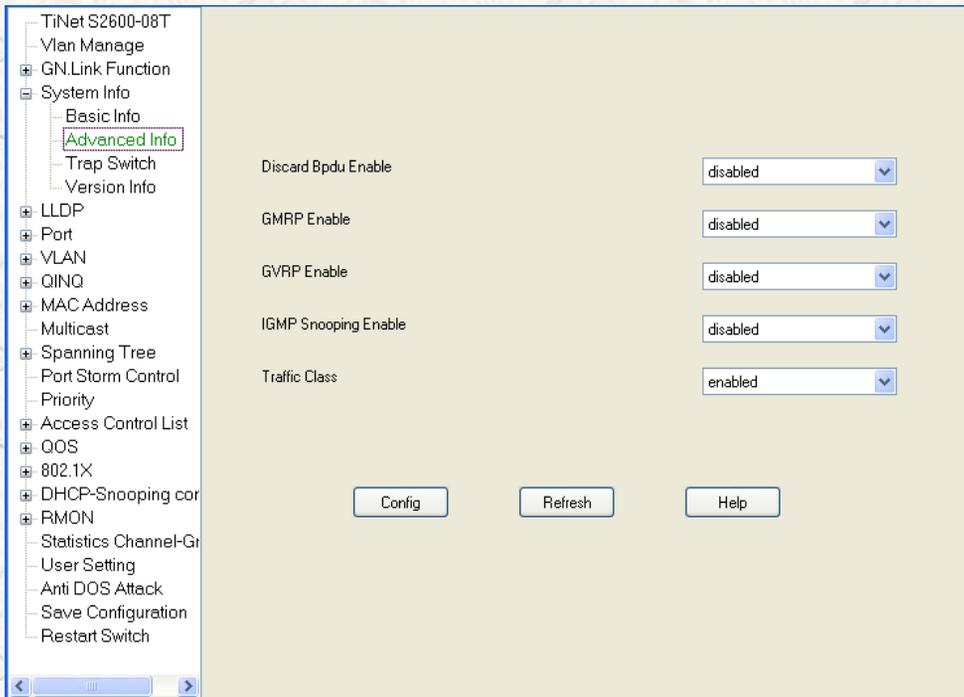


Figure5-2Advanced information interface

**GMRP enable:** configure GMRP, it has enable and disable options ;

**GVRP enable:** configure GVRP,switch can dynamic configure VLAN. , it has enable and disable options;

**IGMP Snooping enable:** configure IGMP Snooping, switch can analyze IGMP packets, it has enable and disable options.

**Traffic class:** configure switch if enable flow control or not, it has enable and disable options;

Max broadcast packets at each second : the range is from 0 to 200000;



Notes:

- 1 if the device doesn't have value, the drop-down box is empty ;
- 2 if configuring, no need to change this value, then choose blank item ;

Click "**Config**" button, system begins to configure the device, the result will come out.

Click "**Refresh**" button, system will get the new data from the device..

Click "**Help**" button, system will show the online help

## 5.3 Trap

Trap is what the device sends a variety of Trap information, it contains : Bridge Trap, Snmp Trap, Gbn Trap, GbnSaveCfg Trap, Interfaces Trap and RMON Trap etc. Configuration interface shows as below :

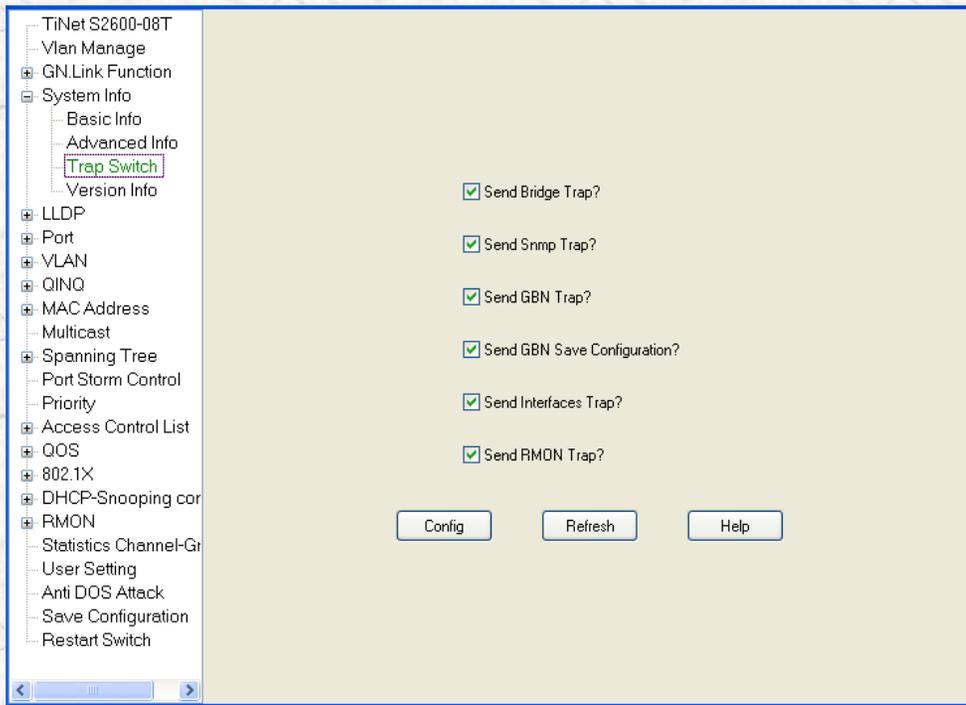


Figure5-3Trap

**Bridge Trap:** if sending Bridge Trap or not ;

**Snmp Trap:** if sending Snmp Trap or not;

**Gbn Trap:** if sending Gbn Trap or not;

**GbnSaveCfg Trap:** if sending Gbn SaveCfg Trap or not when saving configuration ;

**Interfaces Trap:** if sending Intrfaces Trap or not;

**RMON Trap:** if sending RMON Trap or not;

Click "**Config**" button, system begins to configure the device, the result will come out.

Click "**Refresh**" button, system will get the new data from the device..

Click "**Help**" button, system will show the online help

## 5.4 Version information

This interface shows software version, hardware version and BootRom.

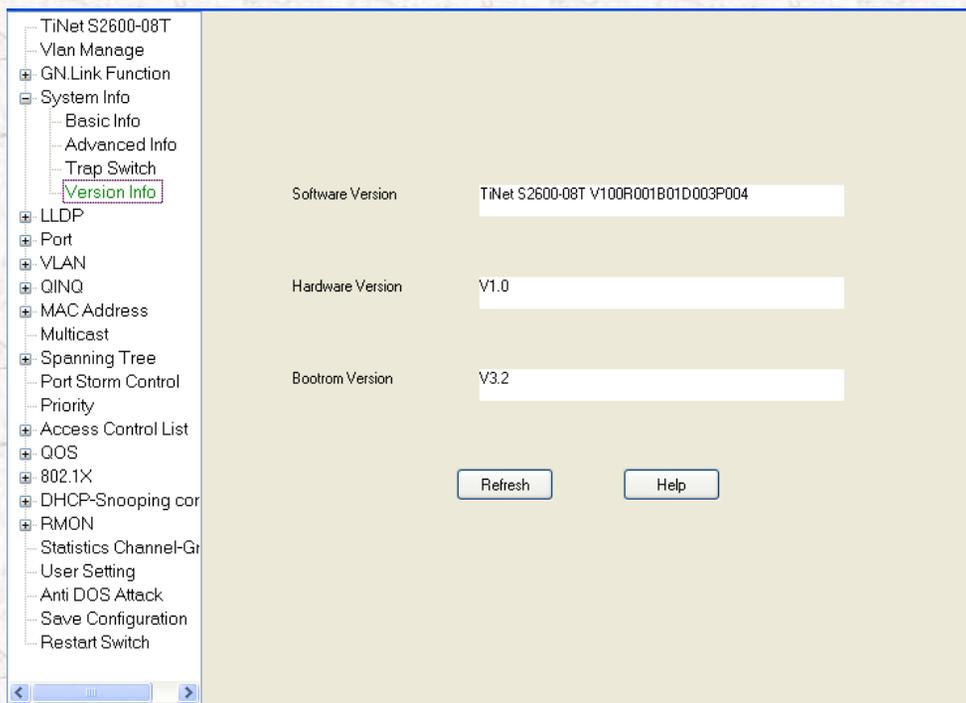


Figure5-4Version

Click “**Refresh**” button, system will get the new data from the device..

Click “**Help**” button, system will show the online help



Notes: if the version is lower, so configuration management doesn't contain this interface.

# 6 LLDP Configuration

---

## 6.1 LLDP in global configuration

Configuration interface as below:

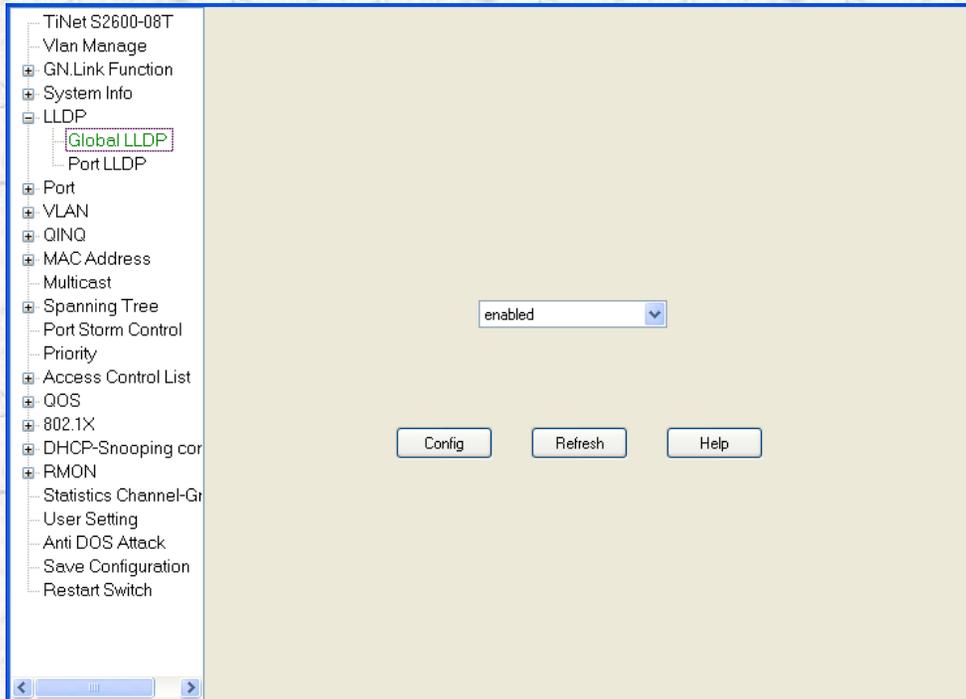


Figure6-1LLDP configuration

Click "Config" button, system begins to configure the device, the result will come out.

Click "Refresh" button, system will get the new data from the device.

Click "Help" button, system will show the online help.

## 6.2 Port LLDP configuration

Configuration interface as below:

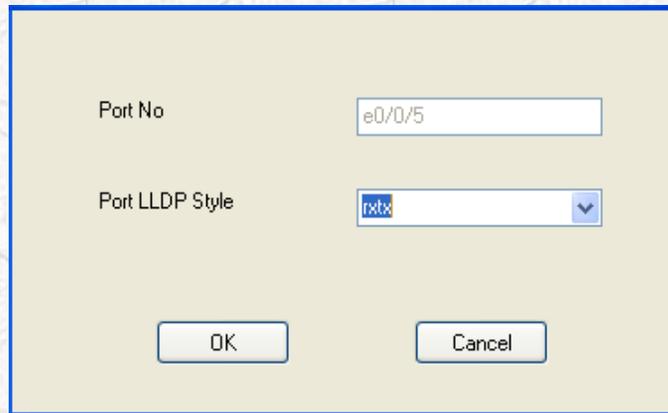
The screenshot displays the configuration interface for Port LLDP on a TiNet S2600-08T switch. The left sidebar shows a tree view with 'Port LLDP' selected under the 'LLDP' category. The main area contains a table with the following data:

Port No	Port LLDP Style
e0/0/1	ptx
e0/0/2	ptx
e0/0/3	ptx
e0/0/4	ptx
e0/0/5	ptx
e0/0/6	ptx
e0/0/7	ptx
e0/0/8	ptx

At the bottom of the interface, there are three buttons: 'Config', 'Refresh', and 'Help'.

Figure6-2Port LLDP configuration

Choose one line in the table, click “config” button , prompt as below :



Port No e0/0/5

Port LLDP Style rx

OK Cancel

Figure6-3Parameter configuration

Click”**OK**”button,system begins to configure the device, the result will come out.

Click “**Refresh**”button,system will get the new data from the device.

Click “**Help**”button,system will show the online help

# 7 Port Configuration

## 7.1 Port name

Configuration interface as below:

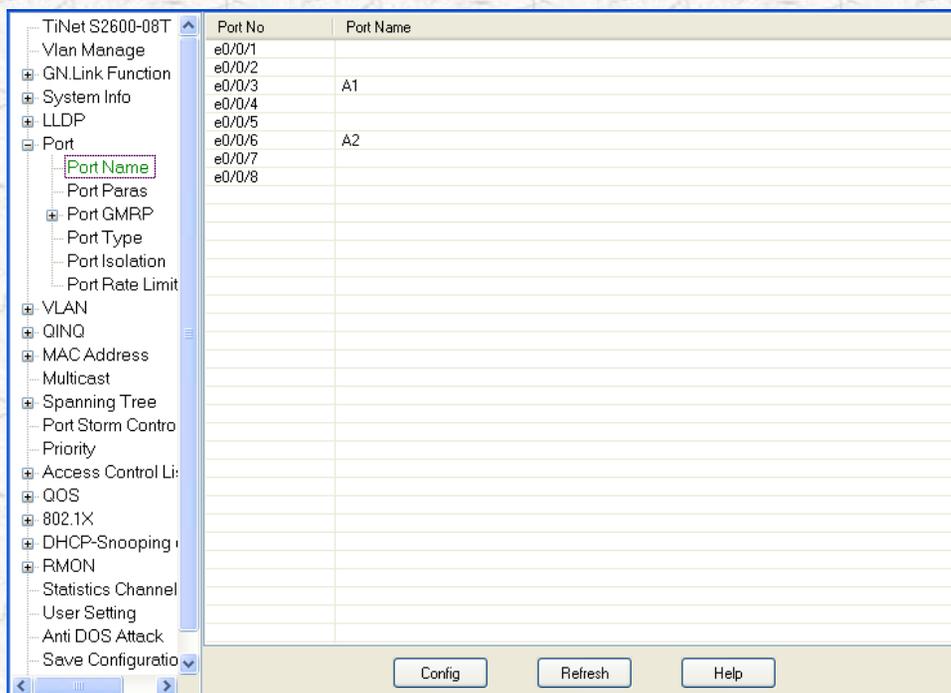
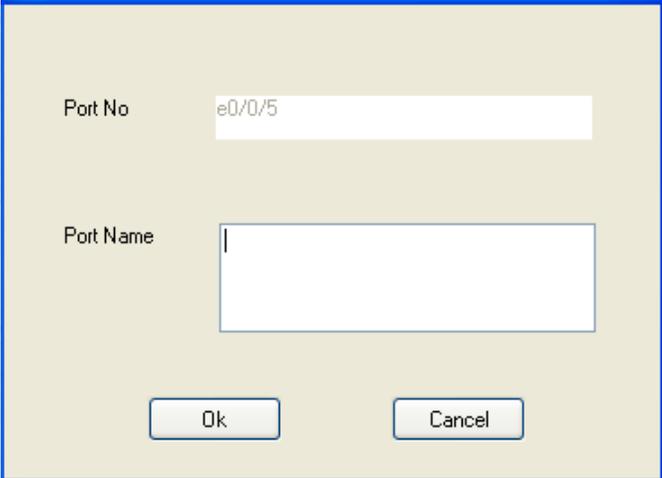


Figure7-1Port name configuration

Choose one line in the table, click “config” button , prompt as below :



A dialog box with a light beige background and a blue border. It contains two input fields: "Port No" with the value "e0/0/5" and "Port Name" which is empty. At the bottom, there are two buttons: "Ok" and "Cancel".

Figure7-2Parameter configuration

Click”**OK**”button,system begins to configure the device, the result will come out.

Click “**Refresh**”button,system will get the new data from the device.

Click “**Help**”button,system will show the online help

## 7.2Port parameter configuration

Scan and configure the port parameter ,it contains port enable, link station, duplex speed set and duplex speed get , configuration interface as below :

PortNo	PortEnable	LinkStatus	DuplexSpeedSet	DuplexSpeedGet	Flow Control
e0/0/1	enabled	link down	auto negotiate	illegal	disabled
e0/0/2	enabled	link down	auto negotiate	illegal	disabled
e0/0/3	enabled	link down	auto negotiate	illegal	disabled
e0/0/4	enabled	link down	auto negotiate	illegal	enabled
e0/0/5	enabled	link down	auto negotiate	illegal	disabled
e0/0/6	enabled	link down	auto negotiate	illegal	disabled
e0/0/7	enabled	link up	auto negotiate	full-100	disabled
e0/0/8	enabled	link down	auto negotiate	illegal	disabled

Figure7-3Port parameter configuration main interace



Notes:if the port isn' t in the link station, so “duplex speed get” is empty

Choose one line in the table, click “config” button , prompt as below:

The image shows a configuration dialog box with a light beige background and a blue border. It contains the following elements:

- Port No:** A text input field containing "e0/0/4".
- Port Enable:** A dropdown menu with "enabled" selected.
- Port Duplex Speed Set:** A radio button is selected next to the label, and the dropdown menu has "auto negotiate" selected.
- Flow Control:** A radio button is unselected next to the label, and the dropdown menu has "enabled" selected.
- Buttons:** "OK" and "Cancel" buttons are located at the bottom of the dialog.

Figure7-4Parameter configuration

Click **OK** button, system begins to configure the device, the result will come out.

Click **Refresh** button, system will get the new data from the device.

Click **Help** button, system will show the online help.

## 7.3 Port GMRP configuration

### 7.3.1 Enable configuration

GMRP (GARP Multicast Registration Protocol) is a kind of application of GARP (Generic Attribute Registration Protocol), which is based on GARP working mechanism to maintain the dynamic multicast register information in switch. All switches supported GMRP can receive multicast register information

from other switches and upgrade local multicast register information dynamically and transfer it to other switches to make the consistency of multicast information of devices supported GMRP in the same switching network. Multicast register information transferred by GMRP includes local manual configuration of static multicast register information and the dynamic multicast register information of other switch.

This item is configured GMRP enable of all ports,that is to enable or disable.

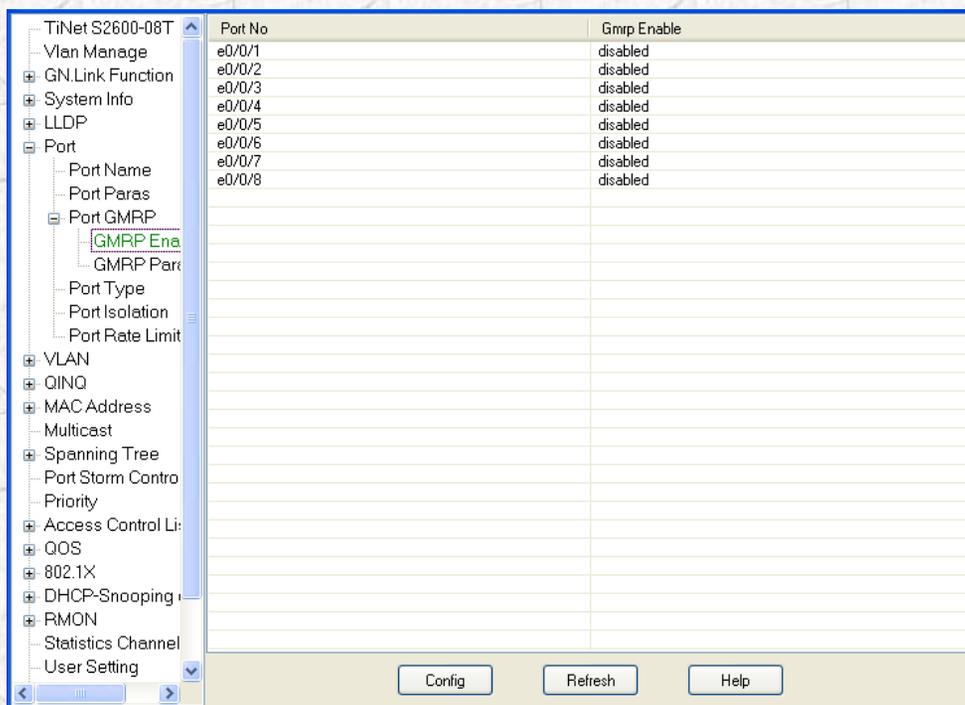


Figure7-5Port GMRP enable configuration

Click "Config" button, system begins to configure the device, the result will come out.

Click "Refresh" button, system will get the new data from the device.

Click "Help" button, system will show the online help

### 7.3.2 Parameter configuration

This is to configure the detailed parameter of ports corresponding to GMRP protocol, it contains Join Time, Leave Time and Leave All Time. Configuration interface as below :

Port No	Join Time(Unit:100ms)	Leave Time(Unit:100ms)	Leave All Time(Unit:100ms)
e0/0/1	20	60	1000
e0/0/2	20	60	1000
e0/0/3	20	60	1000
e0/0/4	20	60	1000
e0/0/5	20	60	1000
e0/0/6	20	60	1000
e0/0/7	20	60	1000
e0/0/8	20	60	1000

Figure7-6Port GMRP parameter configuration main interface

**Join Time:** intervals of device sending Join packets,the range is 20—20000,the unit is 100 ms;

**Leave Time:** intervals of device sending Leave packets,the range is 60—20000, intervals of device sending Join packets,the range is 100 ms;

**Leave All Time:** ntervals of device sending Leave All packets,the range is 500—20000, the range is 100 ms;

Choose one line in the table, click “config” button , prompt as below:

Port No	e0/0/5
Join Time(20-20000) Unit:100ms	20
Leave Time(60-20000) Unit:100ms	60
Leave All Time(500-20000) Uint:100ms	1000

Ok Cancel

Figure7-7Parametr configuration interface

Click "OK" button, system begins to configure the device, the result will come out.

Click "Refresh" button, system will get the new data from the device.

Click "Help" button, system will show the online help

## 7.4 Port type

This item is to display all ports types of current switches, different devices have discrepancy, such as TiNetS3526 permit up to 26 ports , but only 8 ports are fixed, other ports are modular ,as below:

Port No	Port Type
e0/0/1	fe
e0/0/2	fe
e0/0/3	fe
e0/0/4	fe
e0/0/5	fe
e0/0/6	fe
e0/0/7	fe
e0/0/8	fe

Figure7-8Port type configuration interface

The port types have fast Ethernet, 100M SM Base-X, 100M dual-mode Base-X ,1000M SM Base-X, 1000M dual-mode Base-X .

Click “**Refresh**”button,system will get the new data from the device.

Click “**Help**”button,system will show the online help

## 7.5Port isolation

This is to configure the port isolation, as below :

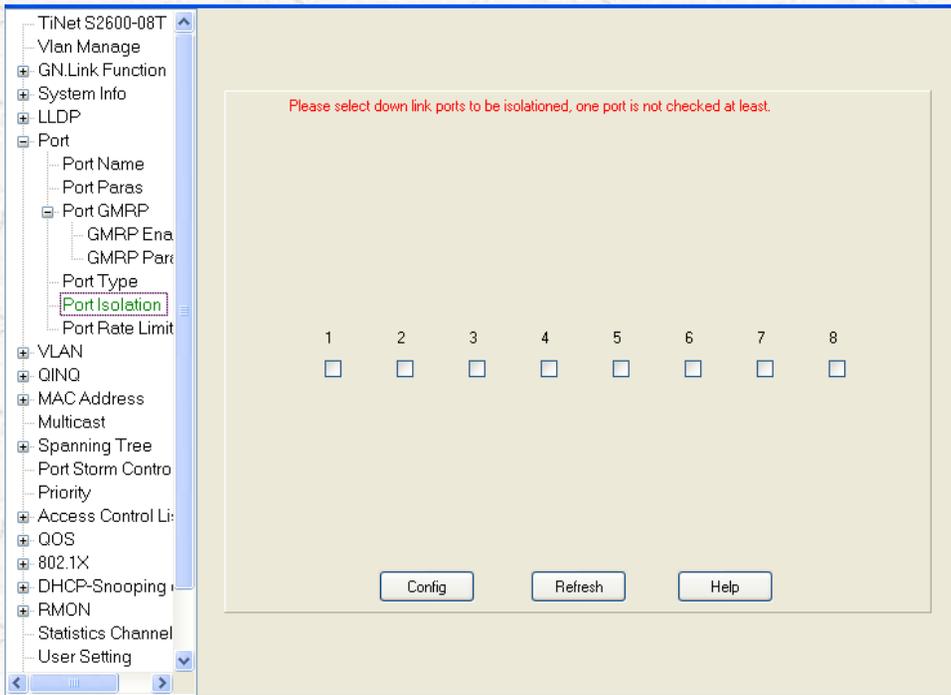


Figure7-9Port isolation

Click "OK" button, system begins to configure the device, the result will come out.

Click "Refresh" button, system will get the new data from the device.

Click "Help" button, system will show the online help.

## 7.6Port isolation(S2600)

Can be disabled by configuring port isolation between different communication port users.

In the port isolation, the port is divided into two, one for uplink ports, one for downstream ports. You can configure multiple upstream ports in the port, then the port was downstream ports. Downstream ports, and it can only uplink ports for communication. The user's computer is connected to the downstream port, more advanced switching device is connected to the uplink port, you can either shield communications between users, without affecting the user through more advanced switching equipment to access the external network.

Configuration interface as shown below:

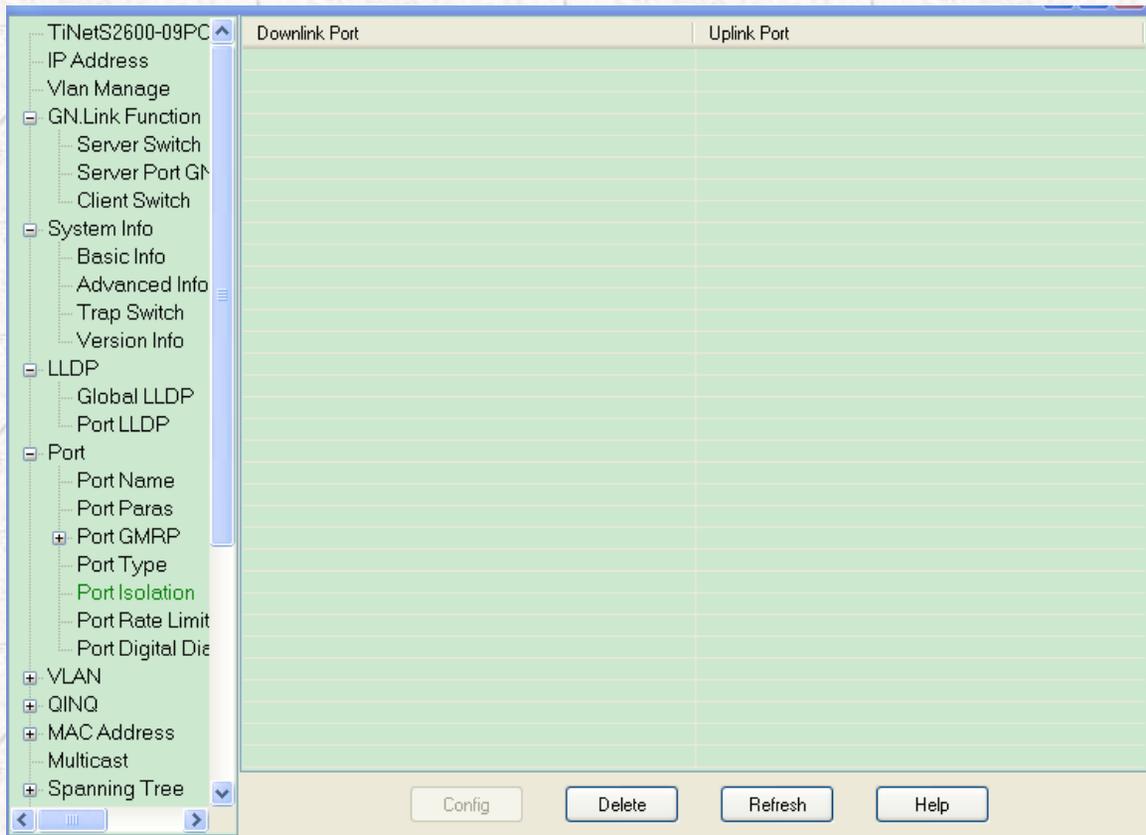


Figure7-10Port isolation (TiNetS2600)

Select any row in the table, click on the "Configure" button, pop-up dialog box shown in Figure:

Please select down link ports to be isolated, one port is not checked at least.

p0/1	p0/2	p0/3	p0/4	p0/5	p0/6	p0/7	p0/8	e0/1
<input type="checkbox"/>								
e0/2	e0/3	e0/4	e0/5	e0/6	e0/7	e0/8	e0/9	e0/10
<input type="checkbox"/>								
e0/11	e0/12	e0/13	e0/14	e0/15	e0/16	e1/1	e1/2	
<input type="checkbox"/>								

Figure7-11Port isolation (TiNetS2600) Configuration

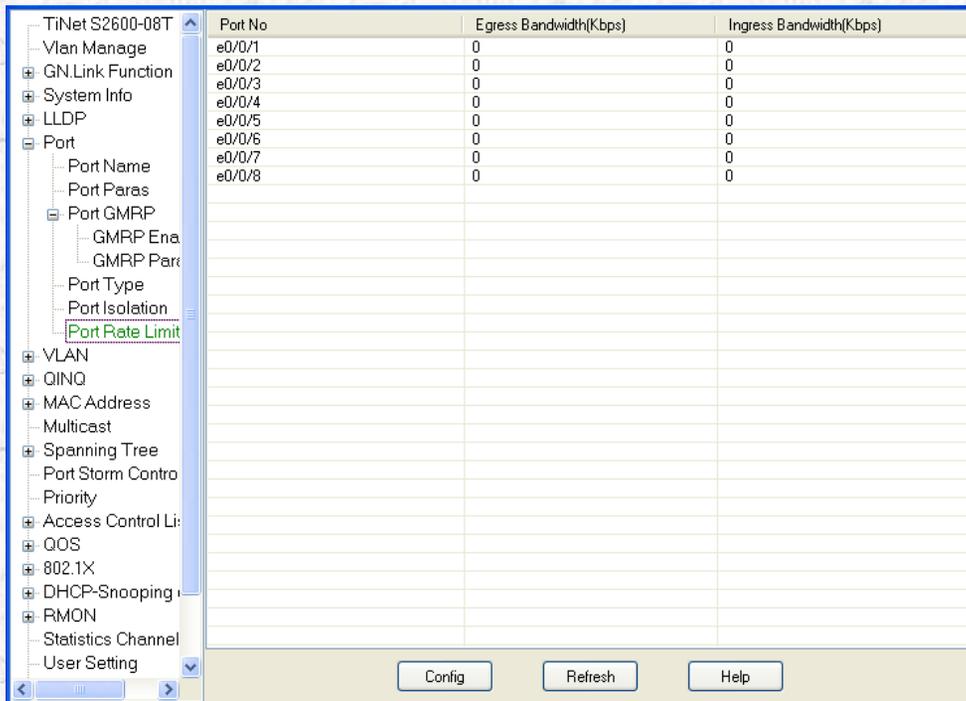
Click "OK" button, system begins to configure the device, the result will come out.

Click "Refresh" button, system will get the new data from the device.

Click "Help" button, system will show the online help

## 7.7 Port limitation

Port limitation permits the inflow and outflow rates of each port, configuration interface as below:



Port No	Egress Bandwidth(Kbps)	Ingress Bandwidth(Kbps)
e0/0/1	0	0
e0/0/2	0	0
e0/0/3	0	0
e0/0/4	0	0
e0/0/5	0	0
e0/0/6	0	0
e0/0/7	0	0
e0/0/8	0	0

Figure7-12Port limitation configuration main interface

**Send packet rate** : total speed rate of sending packets, the range is 64~1024000, the unit is Kbps;

**Receive packet rate**: total speed rate of receiving packets, the range is

64~1024000, the unit is Kbps;



Notess: when configuring sending or receiving packet rate as 0, it means to out of control of sending and receiving packet speed rate.

Choose one line in the table, click “config” button , prompt as below:

Attention: when ingress/egress rate is zero, means not to control the related port bandwidth.

Port No	<input type="text" value="e0/0/4"/>
Packet Egress Bandwidth(0, 261-1331200) Kbps	<input type="text" value="0"/>
Packet Ingress Bandwidth(0, 1-100000) Kbps	<input type="text" value="0"/>

Figure7-13Port limitation parameter configuration interface

Click”**OK**”button,system begins to configure the device, the result will come out.

Click “**Refresh**”button,system will get the new data from the device.

Click “**Help**”button,system will show the online help

## **7.8Port Digital Diagnostic Monitoring Informaiton**

This configuration is to display the current switch monitoring information. Display information includes: the transceiver type, compliance, connector type, wavelength, the transmission distance, digital detection, vendor name, serial number, date of manufacture, temperature, voltage, bias current, bias current, maximum received power, maximum receiving power, the lowest reception power, transmission power, the maximum transmission power and the minimum transmission power.

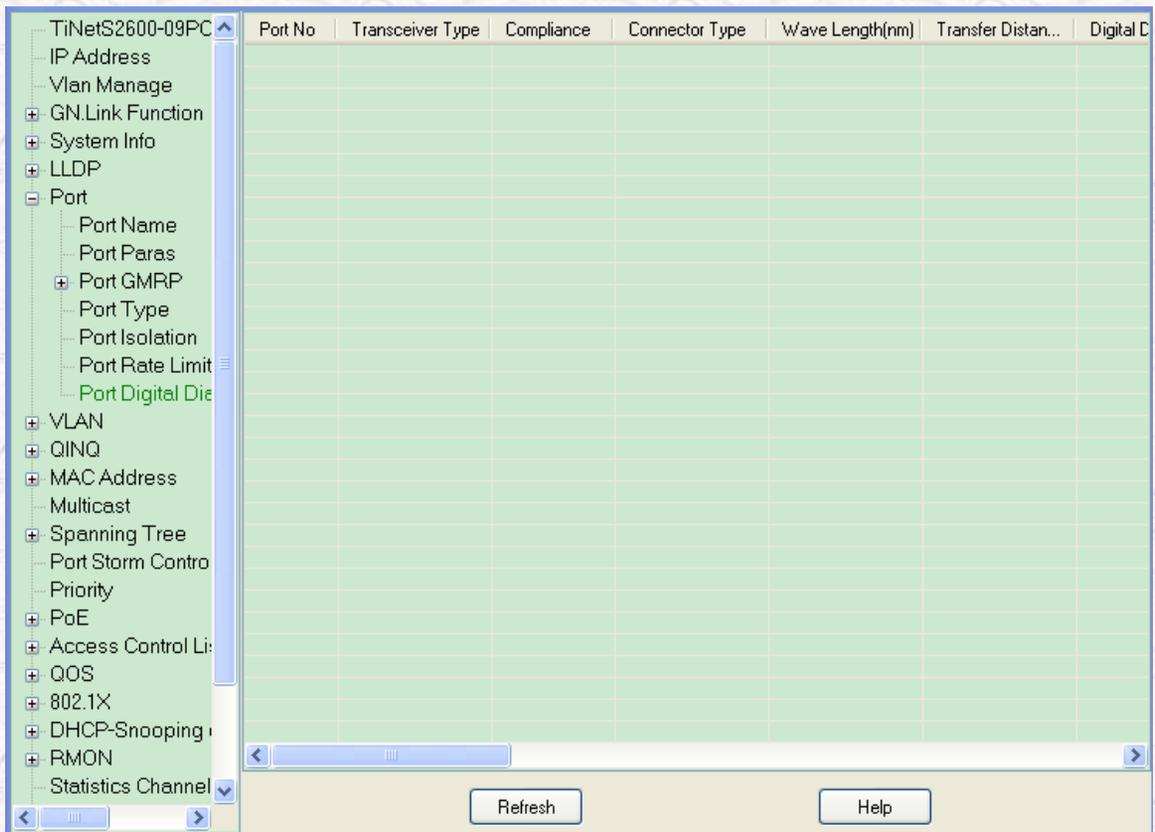


Figure7-14Port limitation parameter configuration interface

Click “**Refresh**”button,system will get the new data from the device.

Click “**Help**”button,system will show the online help

## 8 Port Mirror

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Port mirror is to copy packets to monitored port by selecting one or more ports to analysis and monitor, such as, copy packets of port 2 to appointed port 3, test and record by the protocol analyzer connecting with port 3.

### 8.1 Mirror port configuration

This is to configure mirror port about switch port mirror. Configuration interface as below:

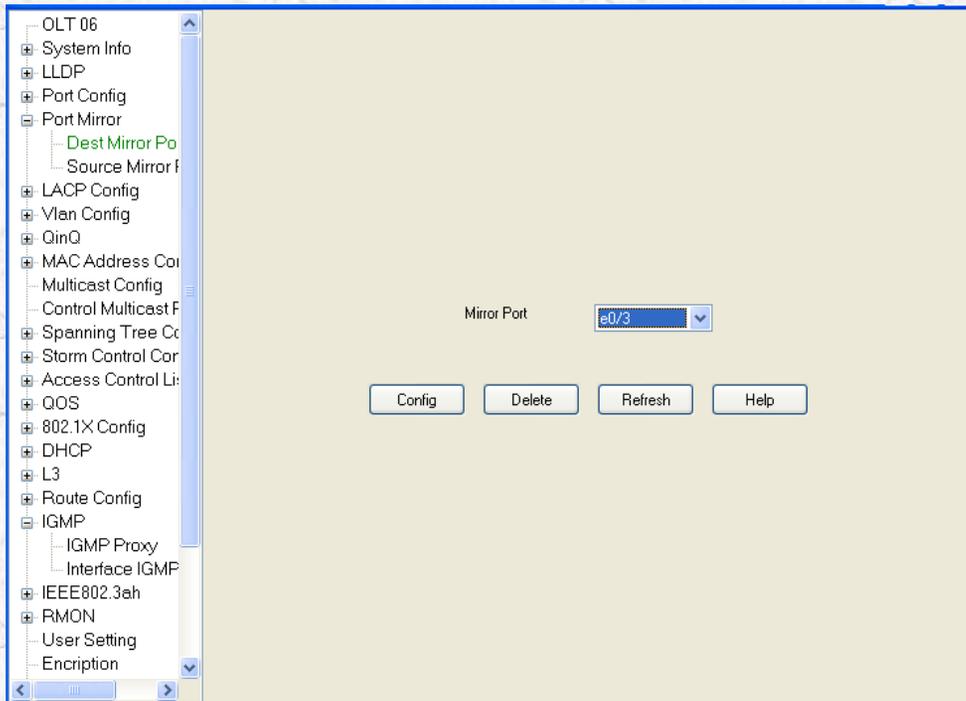


Figure8-1Mirror port configuration



Notes: it can't configure the mirror port as the port configure as mirrored port.

Click “**Config**”button, system configures mirror port .

Click “**Delete**”button, system deletes mirror port.

Click “**Refresh**”button,system will get the new data from the device.

Click “**Help**”button,system will show the online help

## 8.2 Mirrored port configuration

This is to configure the mirrored port configuration. Configuration interface as below:

The screenshot shows a configuration window for mirrored port configuration. On the left is a tree view with the following items: OLT 06, System Info, LLDP, Port Config, Port Mirror (expanded to show Dest Mirror Po and Source Mirror Po), LACP Config, Vlan Config, QinQ, MAC Address Cor, Multicast Config, Control Multicast F, Spanning Tree Co, Storm Control Cor, Access Control Li, QOS, 802.1X Config, DHCP, L3, Route Config, IGMP (expanded to show IGMP Proxy and Interface IGMP), IEEE802.3ah, RMON, User Setting, and Encryption. The main area contains three sections, each with a checkbox and a grid of interface selection buttons:

- mirror source egress interface
- Grid of interface selection buttons: cpu, e0/1, e0/2, e0/3, e0/4, e1/1, e1/2, e1/3, e1/4, p2/1, p2/2, p2/3, p2/4, p3/1, p3/2, p3/3, p3/4, p4/1, p4/2, p4/3, p4/4, p5/1, p5/2, p5/3, p5/4.
- mirror source ingress interface
- Grid of interface selection buttons: cpu, e0/1, e0/2, e0/3, e0/4, e1/1, e1/2, e1/3, e1/4, p2/1, p2/2, p2/3, p2/4, p3/1, p3/2, p3/3, p3/4, p4/1, p4/2, p4/3, p4/4, p5/1, p5/2, p5/3, p5/4.
- mirror source onu ingress interface
- Form fields: Slot No (dropdown), Pon No (dropdown), ONU ID(1-70) (text input), VLAN ID(1-4094) (text input).
- Buttons: Config, Delete, Refresh, Help.

Figure8-2 Mirrored port configuration



Notes: it can't configure the mirror port as the port configure as mirrored port

Click "**Config**" button, show as above;

Click "**Delete**" button, delete mirrored port of ONU ingress.

Click "**Refresh**" button, system will get the new data from the device.

Click "**Help**" button, system will show the online help

# 9 VLAN Configuration

## 9.1 Static VLAN configuration

This is to configure 802.1Q static VLAN, such as add, edit and delete VLAN, configuration as below:

VLAN ID	VLAN Name	Egress Ports	Untagged Ports
1		e0/0/1-e0/1/4	e0/0/1-e0/1/4
2		e0/0/2-e0/0/4,e0/0/24	e0/0/2-e0/0/4,e0/0/24
4016		e0/0/1-e0/1/4	e0/0/1-e0/1/4

Figure9-1 Static VLAN configuration main interface

**Vlan ID:** Vlan ID number, the range is 1—4094.

**Vlan name:** configure Vlan name.

**Untagged ports:** port is 802.1Q untagging.

**Static member port:** appoint the port to be the VLAN static member.



Notess:

- 1 when the mouse is in the some line , it will appear the VLAN attribution prompt;
- 2 When addingVLAN,Vlan ID doesn' t permit duplicating;
- 3 Vlan1 is the default Vlan,no permit editing and deleting ;
- 4 when editing Vlan,Vlan ID doesn' t permit modifying ;
- 5 lsome port is only for static member port, then it can be choosed as untagged member port.
- 6when PVID is the same as VLAN number, it can' t delete this port , must modify;
- 7 No peremit with the same of two VLAN names, if VLAN name is blank, system will show the default name such as:vlan0002;

Click "**Refresh**"button,system will get the new data from the device.

Click "**Help**"button,system will show the online help

## 9.2Port VLAN configuration

This is to configure assigned port as VLAN (PVID)number,accept Frame status ,enable or disable ingress filtering ,port enable or disable GVRP.

Configuration as below:

Port No	PVID	AcceptableFrameT...	IngressFiltering	GvrpStatus
e0/0/1	1	all frames	enabled	disabled
e0/0/2	1	all frames	enabled	disabled
e0/0/3	1	all frames	enabled	disabled
e0/0/4	1	all frames	enabled	disabled
e0/0/5	1	all frames	enabled	disabled
e0/0/6	1	all frames	enabled	disabled
e0/0/7	1	all frames	enabled	disabled
e0/0/8	1	all frames	enabled	disabled
e0/0/9	1	all frames	enabled	disabled
e0/0/10	1	all frames	enabled	disabled
e0/0/11	1	all frames	enabled	disabled
e0/0/12	1	all frames	enabled	disabled
e0/0/13	1	all frames	enabled	disabled
e0/0/14	1	all frames	enabled	disabled
e0/0/15	1	all frames	enabled	disabled
e0/0/16	1	all frames	enabled	disabled
e0/0/17	1	all frames	enabled	disabled
e0/0/18	1	all frames	enabled	disabled
e0/0/19	1	all frames	enabled	disabled
e0/0/20	1	all frames	enabled	disabled
e0/0/21	1	all frames	enabled	disabled
e0/0/22	1	all frames	enabled	disabled
e0/0/23	1	all frames	enabled	disabled
e0/0/24	1	all frames	enabled	disabled
e0/0/25	1	all frames	enabled	disabled
e0/0/26	1	all frames	enabled	disabled
e0/0/27	1	all frames	enabled	disabled
e0/0/28	1	all frames	enabled	disabled
e0/0/29	1	all frames	enabled	disabled
e0/0/30	1	all frames	enabled	disabled
e0/0/31	1	all frames	enabled	disabled
e0/0/32	1	all frames	enabled	disabled

Figure9-2 Port VLAN configuration main interface

**Port number:** port number corresponding to the switch.

**PVID:**Port VLAN number.if the packets are untagged,add a VLAN number to this packet,this VLAN number is PVID.PVID is also used for ingress filtering The range is from 1 to 4094, it must be the exsited VLAN number.

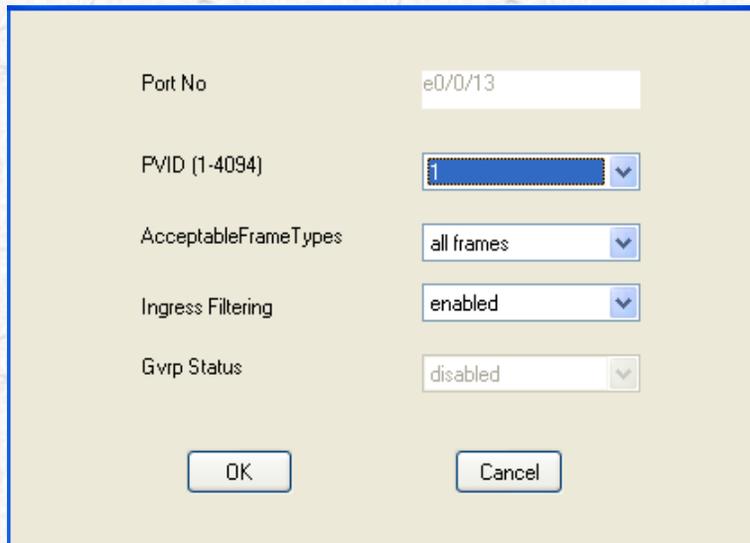
**Accept frame status:** the status of receiving frame, it has two choices, receive all frames and only tagged frames.

**Ingress filter:** compare VID of ingress filter packets with PVID of receiving

packets .if different, port will discard packets. It has two choices, disable and enable.

**GVRP enable:** enable GVRP to each port,only enable GVRP in advanced information can configure GVRP enable of specified port.

Choose one line in the table, click “config” button , prompt as below:



Port No	e0/0/13
PVID (1-4094)	
AcceptableFrameTypes	all frames
Ingress Filtering	enabled
Gvrp Status	disabled

OK Cancel

Figure9-3Parameter configuration interface



Notess:

1. The range of PVID is from 1 to 4094.
2. Configure port VID nuber must make sure the port belongs to this VLAN.

Click "**OK**" button, system begins to configure the device, the result will come out.

Click "**Refresh**" button, system will get the new data from the device.

Click "**Help**" button, system will show the online help

### **9.3 Port Mode Configuration**

This is to configure the VLAN with tag or not in port VLAN ,when port mode is access , configure it as trunk mode, so this port must be with tag in port VLAN; when port mode is trunk, configure as access mode, so this port must be with untag in port VLAN. Configuration interface as below:

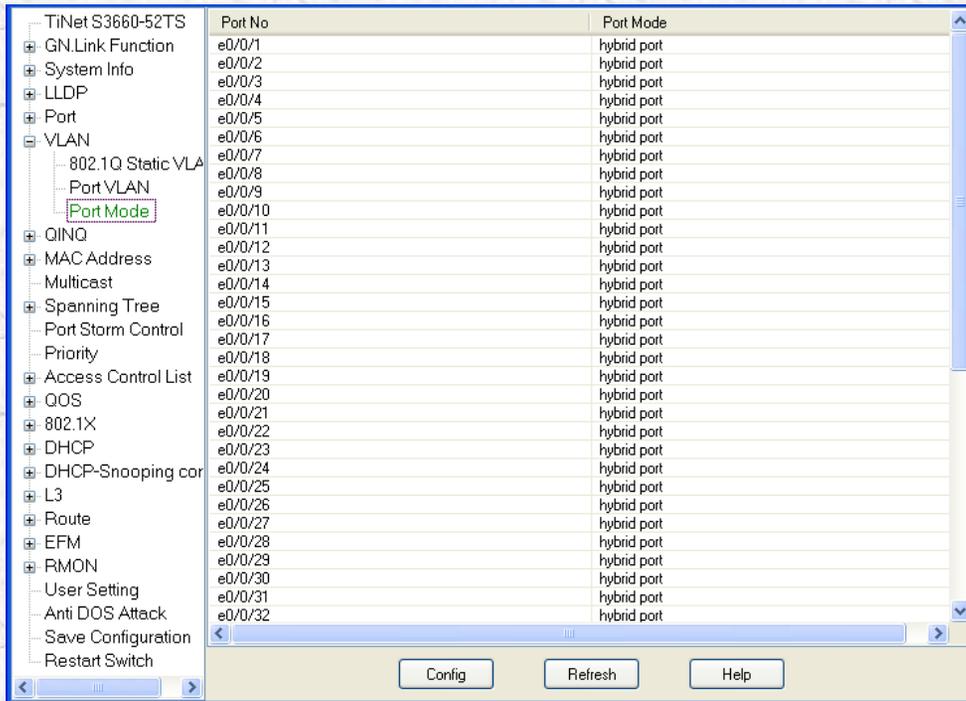


Figure9-4Port mode configuration main interface

Choose one line in the table, click “config” button , prompt as below:

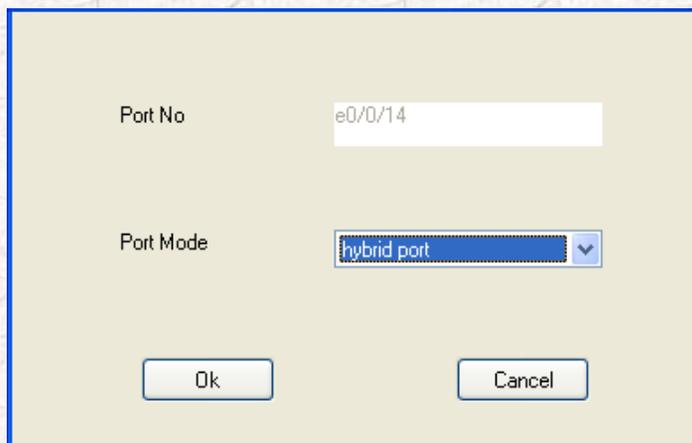


Figure9-5Parameter configuration

Click "**OK**" button, system begins to configure the device, the result will come out.

Click "**Refresh**" button, system will get the new data from the device.

Click "**Help**" button, system will show the online help



Figure9-7SVLAN insert –add interface



**Notes:**

- 1 For inner start vlan and inner end vlan in the same port, it should not be the same as configured Vlan (including vlan between start Vlan and end Vlan ).
- 2 Inner start Vlan is not bigger than inner end Vlan.

Click “**Delete**”button, system will delete from the record.

Click “**Refresh**”button,system will get the new data from the device.

Click “**Help**”button,system will show the online help.

# 10 QINQ Configuration

---

## 10.1 Global QinQ configuration

QinQ is used for the communication between discrete client vlan whose service model is the interconnection of one or more switches supported QinQ by service provider interfaces which are in service provider vlan. The interface linking client vlan is called customer interface. Packet with client vlan tag will add a tag head with the vlan id being service provider vlan when passing through the customer interface. The tag head will be stripped when passing through service provider vlan.

802.1QinQ dual Tag mode has three values:

**disable:** forbid 802.1QinQ .

**dot1q-in-dot1q:** port vlan protocol is 0x8100, it can configure whether tag header of ignore ingress packet or not, if vlan protocol id isn't equal to port configuration value or port is ignored with tag header , so from 12~13 bit , ingress packet will insert new tag header.

**non-dot1q-in-dot1q:** it can configure vlan protocol id at port , but can't configure the tag header attribution of ignore ingress packet , only when tag

header with vlan protocol id of ingress packet isn't neither equal to configuration nor default value 8100, then it will be added a new tag header. If engress is TAG, so protocol id of tag will be the configured vlan protocol vlan id.

This is to configure QINQ..

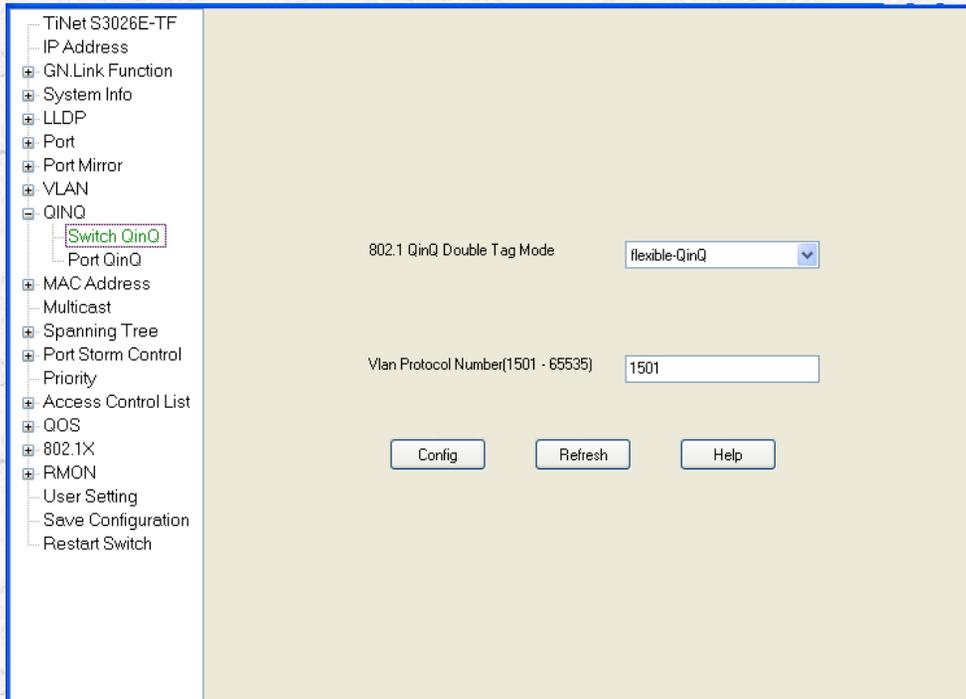


Figure10-1802.1 global QinQ configuration



Notess:

1. when 802.1QinQ dual Tag mode is dot1q-in-dot1q, the VLAN protocol number is fixed value 0x8100
2. Only choose 802.1QinQ dual Tag mode is non-dot1q-in-dot1q, VLAN protocol number is in the status of editing .

## 10.2 Port QinQ configuration

Port QinQ mode has two choices, one is service provider port , the other is customer port;the former doesn't permit ignoring ingress tag ,the latter permits ignoring ingress tag.

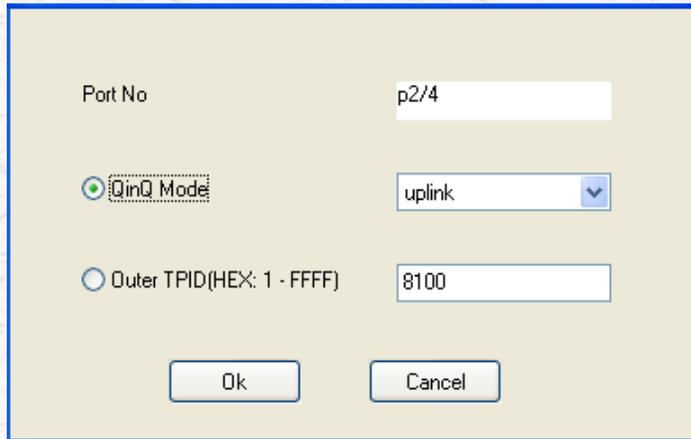


Notes:only when the switch is in the QinQ dual Tag mode is dot1q-in-dot1q, it permits configuring port QinQ mode.

Port No	Port QinQ Mode	Outer TPID(HEX)
e0/1	uplink	8100
e0/2	uplink	8100
e0/3	uplink	8100
e0/4	uplink	8100
e1/1	uplink	8100
e1/2	uplink	8100
e1/3	customer	8100
e1/4	uplink	8100
p2/1	uplink	8100
p2/2	uplink	8100
p2/3	uplink	8100
p2/4	uplink	8100
p3/1	uplink	8100
p3/2	uplink	8100
p3/3	uplink	8100
p3/4	uplink	8100
p4/1	uplink	8100
p4/2	uplink	8100
p4/3	uplink	8100
p4/4	uplink	8100
e5/1	uplink	8100
e5/2	uplink	8100
e5/3	uplink	8100
e5/4	uplink	8100

Figure10-2Port QinQ configuration

Choose one line in the table, click “config” button , prompt as below:



The image shows a configuration dialog box for Port QinQ. It has a light beige background and a blue border. The fields are as follows:

Port No	p2/4
<input checked="" type="radio"/> QinQ Mode	uplink
<input type="radio"/> Outer TPID(HEX: 1 - FFFF)	8100

At the bottom, there are two buttons: "Ok" and "Cancel".

Figure10-3Port QinQ configuration parameter interface

Click "OK" button, system begins to configure the device, the result will come out.

Click "Refresh" button, system will get the new data from the device.

Click "Help" button, system will show the online help.

## 10.3SVLAN Insert

Configure a successive vlan series as dynamic QinQ mode at the port , it is configured as source vlan plus destination vlan, in the premise of all VLAN tag not passing through in the source VLAN, all will be forwarded with a double target vlan tag header way.





Notes:

1. For inner start vlan and inner end vlan in the same port, it should not be the same as configured Vlan (including vlan between start Vlan and end Vlan ).
2. Inner start Vlan is not bigger than inner end Vlan.

Click “**Delete**”button, system will delete from the record.

Click “**Refresh**”button,system will get the new data from the device.

Click “**Help**”button,system will show the online help.

## 10.4SVLAN pass through

Configure a successive vlan series as dynamic QinQ mode at the port , it is configured as source vlan,all vlan tag packets of start vlan will be forwarded without tag header, priority of pass through is higher than insert tag header, so pass through from dtag insert has no effect





**Notes:**

- 1 For pass through start vlan and pass through end vlan in the same port, it should not be the same as configured Vlan (including vlan between start Vlan and end Vlan ).
- 2 Pass through start Vlan is not bigger than pass through end Vlan.

Click “**Delete**”button, system will delete from the record.

Click “**Refresh**”button,system will get the new data from the device

Click “**Help**”button,system will show the online help.

# 11 Mac Address Related Configuration

---

## 11.1 Address learning mode configuration

Configuration interface as below :

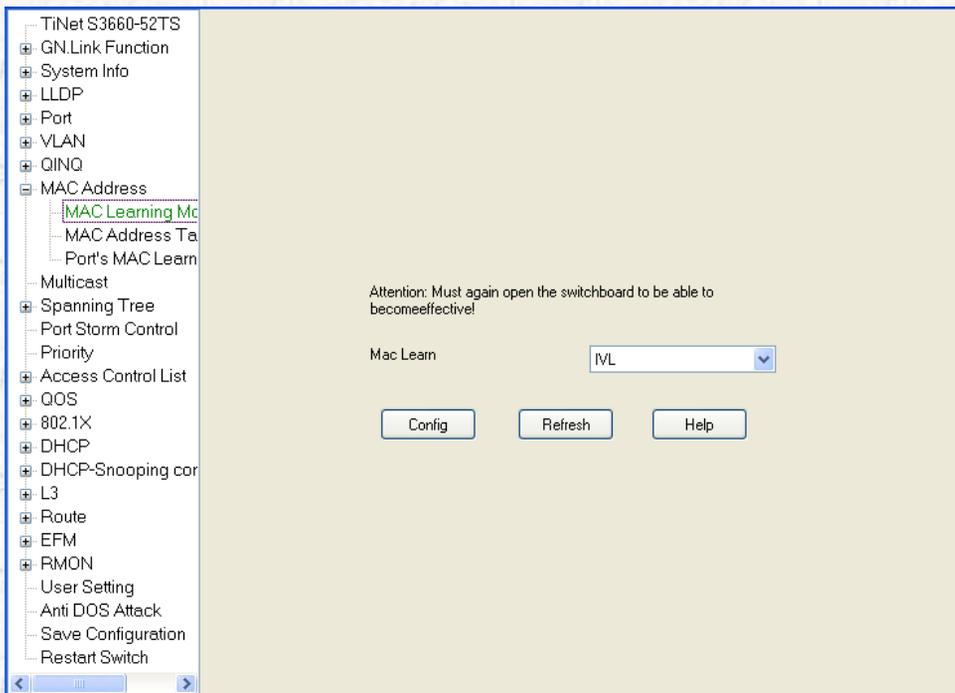


Figure 11-1 Mac address learning mode configuration interface

Mac address learning methods : IVL mode (independent VLAN learning) and SVL mode (sharing VLAN learning); The default value is IVL.

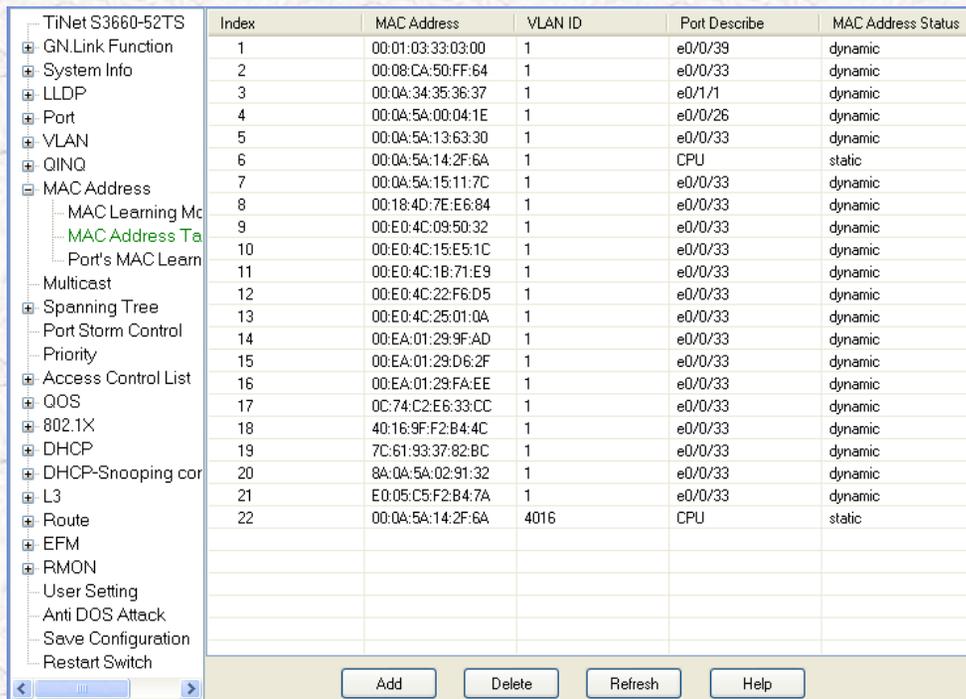
Click "Config" button, system begins to configure the device, the result will come out.

Click "Refresh" button, system will get the new data from the device.

Click "Help" button, system will show the online help.

## 11.2 Mac address configuration

Configuration interface as below :

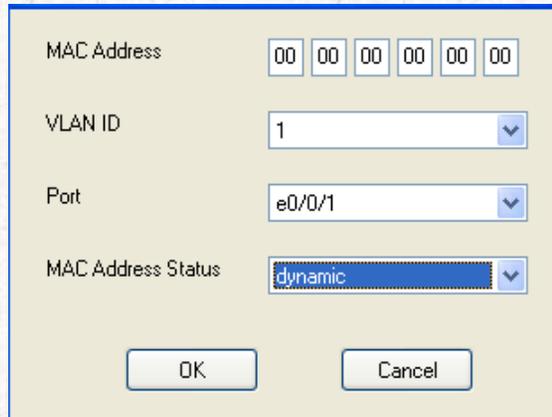


The screenshot shows a configuration interface for a TiNet S3660-52TS switch. On the left is a tree view of configuration options, with 'MAC Address' selected. The main area displays a table of MAC addresses. The table has columns for Index, MAC Address, VLAN ID, Port Describe, and MAC Address Status. The table contains 22 rows of data. At the bottom of the interface are buttons for 'Add', 'Delete', 'Refresh', and 'Help'.

Index	MAC Address	VLAN ID	Port Describe	MAC Address Status
1	00:01:03:33:03:00	1	e0/0/39	dynamic
2	00:08:CA:50:FF:64	1	e0/0/33	dynamic
3	00:0A:34:35:36:37	1	e0/1/1	dynamic
4	00:0A:5A:00:04:1E	1	e0/0/26	dynamic
5	00:0A:5A:13:63:30	1	e0/0/33	dynamic
6	00:0A:5A:14:2F:6A	1	CPU	static
7	00:0A:5A:15:11:7C	1	e0/0/33	dynamic
8	00:18:4D:7E:E6:84	1	e0/0/33	dynamic
9	00:E0:4C:09:50:32	1	e0/0/33	dynamic
10	00:E0:4C:15:E5:1C	1	e0/0/33	dynamic
11	00:E0:4C:1B:71:E9	1	e0/0/33	dynamic
12	00:E0:4C:22:F6:D5	1	e0/0/33	dynamic
13	00:E0:4C:25:01:0A	1	e0/0/33	dynamic
14	00:EA:01:29:9F:AD	1	e0/0/33	dynamic
15	00:EA:01:29:D6:2F	1	e0/0/33	dynamic
16	00:EA:01:29:FA:EE	1	e0/0/33	dynamic
17	0C:74:C2:E6:33:CC	1	e0/0/33	dynamic
18	40:16:9F:F2:B4:4C	1	e0/0/33	dynamic
19	7C:61:93:37:82:8C	1	e0/0/33	dynamic
20	8A:0A:5A:02:91:32	1	e0/0/33	dynamic
21	E0:05:C5:F2:B4:7A	1	e0/0/33	dynamic
22	00:0A:5A:14:2F:6A	4016	CPU	static

Figure 11-2 Mac address table basic interface

Click “**add**” button , it will prompt as below:



The screenshot shows a configuration dialog box with a light beige background and a blue border. It contains the following fields and controls:

- MAC Address:** A row of six small input boxes, each containing the value '00'.
- VLAN ID:** A text input field containing the number '1' and a downward-pointing arrow on the right.
- Port:** A text input field containing 'e0/0/1' and a downward-pointing arrow on the right.
- MAC Address Status:** A dropdown menu with 'dynamic' selected and a downward-pointing arrow on the right.
- Buttons:** Two buttons at the bottom: 'OK' on the left and 'Cancel' on the right.

Figure11-3Mac address configuration interface

#### Four types of learning Mac address

**Dynamic :** dynamic Mac address will be aging-time ;

**Static:**Static Mac address not aging-time, if not delete, it will exist permanently ;

**Permanent:** permanent Mac address is not aging-time, if not delete, it will exist permanently ;

**Blackhole:** filter the Mac address ,if the packets include Mac address, it won't be forwarded.



#### Notes:

1. Mac address must be unicast, that is not all 0, f, and the second bit can't be singular ;
2. Due to TiNetS3026E port is modular, no permit inputing virtual port ;

3. All selected VLAN ID is the corresponding VLAN, including all selected ports ;
4. No permit deleting Mac address of port num as cpu

Click “**Delete**”button, system will delete Mac address configuration. the result will come out after the configuration.

Click”**Config**”button,system begins to configure the device, the result will come out.

Click “**Refresh**”button,system will get the new data from the device.

Click “**Help**”button,system will show the online help.

## **11.3Port Mac address learning enable**

Configuration interface as below :

	PortNo	PortEnable
+	e0/0/1	enabled
+	e0/0/2	enabled
+	e0/0/3	enabled
+	e0/0/4	enabled
+	e0/0/5	enabled
+	e0/0/6	enabled
+	e0/0/7	enabled
+	e0/0/8	enabled
+	e0/0/9	enabled
+	e0/0/10	enabled
+	e0/0/11	enabled
+	e0/0/12	enabled
+	e0/0/13	enabled
+	e0/0/14	enabled
+	e0/0/15	enabled
+	e0/0/16	enabled
+	e0/0/17	enabled
+	e0/0/18	enabled
+	e0/0/19	enabled
+	e0/0/20	enabled
+	e0/0/21	enabled
+	e0/0/22	enabled
+	e0/0/23	enabled
+	e0/0/24	enabled
+	e0/0/25	enabled
+	e0/0/26	enabled
+	e0/0/27	enabled
+	e0/0/28	enabled
+	e0/0/29	enabled
+	e0/0/30	enabled
+	e0/0/31	enabled
+	e0/0/32	enabled

Figure11-4Port Mac address learning enable basic interface

Choose one line in the table, click “config” button , prompt as below:

PortNo	<input type="text" value="e0/0/7"/>
LearnStatus	<input type="text" value="enabled"/>
<input type="button" value="OK"/> <input type="button" value="Cancel"/>	

Figure11-5Mac address learning enable configuration interface

In this interface , it can configure the selected port if has Mac learning addrss or not.

Click "OK" button, system begins to configure the device, the result will come out.

Click "Refresh" button, system will get the new data from the device.

Click "Help" button, system will show the online help.

## 11.4 MAC Address Age Time Configuration

Configuration interface as the shown figure:

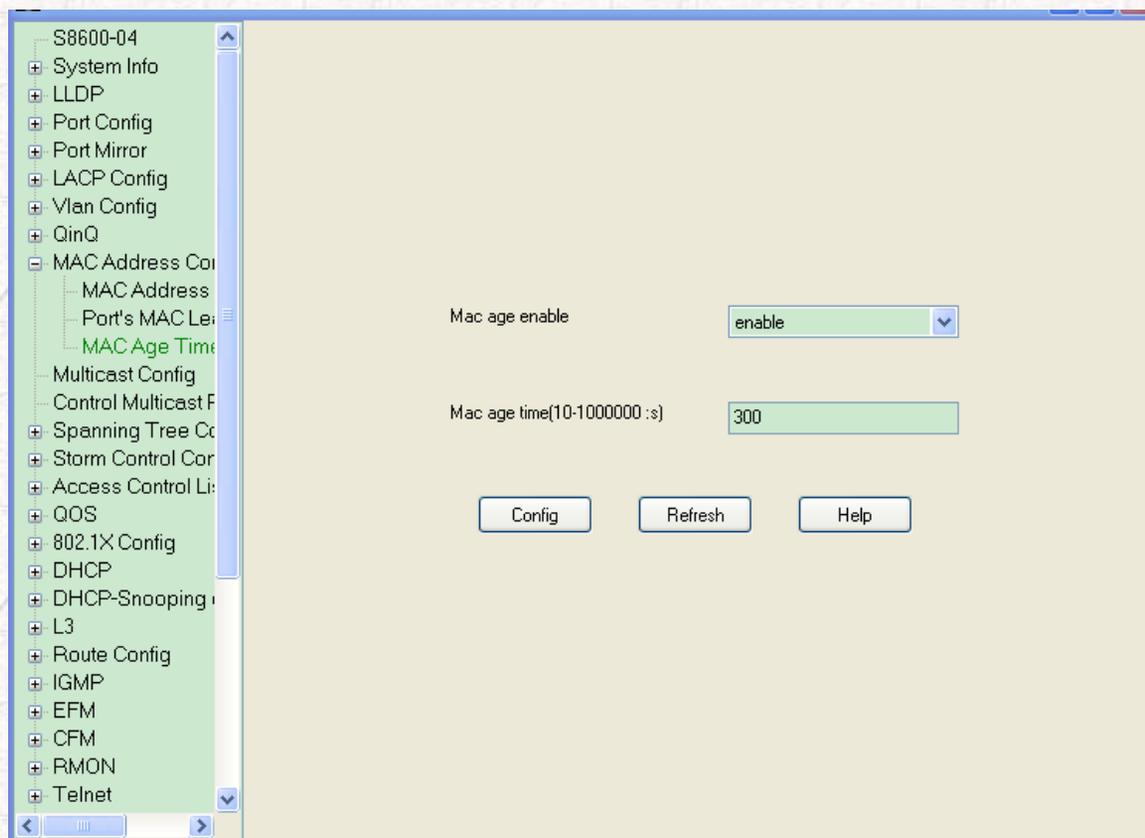


Figure11-6Mac Address Aging Function Configuration Interface

Click the' **Config**'button, the system began to configure the equipment, at the end will given the configuration result.

Click the'**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the'**Help**' button, the system will given a hand online.



Click “**Add**”button, start to add multicast configuration , the result will come out after the configuration.

Click “**Edit**”button, system will modify multicast configuration. the result will come out after the configuration.

Click “**Delete**”button, system will delete multicast configuration. the result will come out after the configuration.

Click “**Refresh**”button,system will get the new data from the device.

Click “**Help**”button,system will show the online help.



Notess: if the version is lower , the configuration management won’ t contain this interface.

# 13 Spanning Tree Configuration

## 13.1 Spanning tree configuration based on switch

This configuration interface is to configure the parameter of spanning tree protocol. Configuration interface as below:

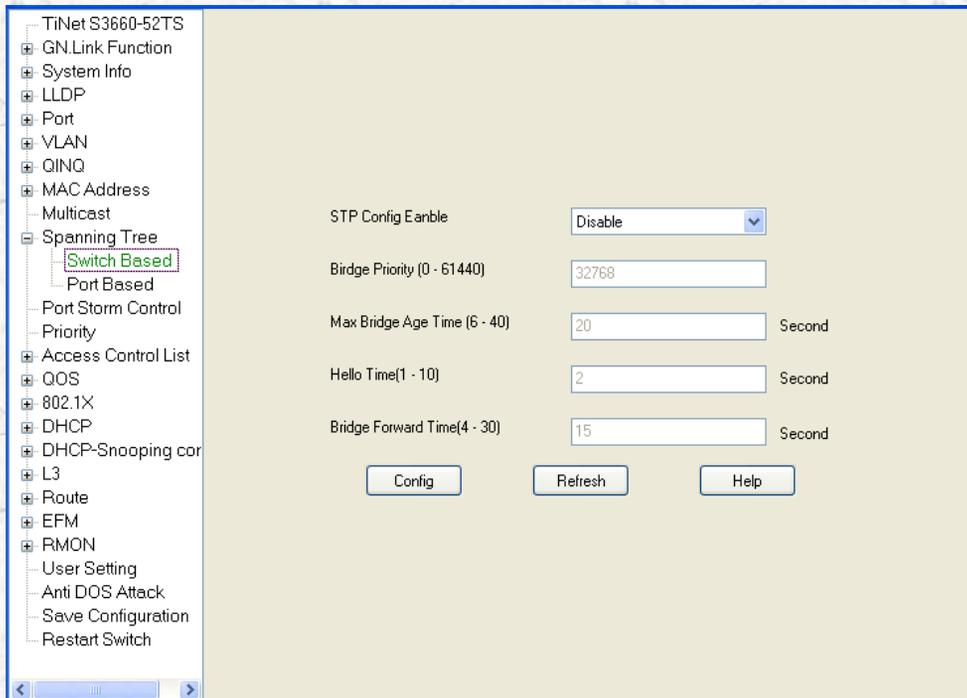


Figure13-1 Spanning tree configuration interface based on switch

**STP Config Enable** : stp is to prevent the network loop, you can change the STP parameter of bridge level. It has enable and disable types. The default is

disable;

**Max Bridge Time:** the range is from 6 to 40 s. Over this value, if not getting the BPDU signal from Root ,the switch will send own BPDU to other switch and apply for the root switch.If the switch has the smallest Bridge Identifier, it will become the root bridge .

**Hello Time:**the range is from 1s to 10s. This parameter is the intervals between two BPDU from root bridge. If the switch is configured this parameter, so hello time is less than the max bridge time after the switch is the root bridge, or it will show the error prompt. **Bridge Forward:**Forward Delay, the range is from 4 to 30s, the switch change the mode from blocking to forwarding with learning status time.



Tips:

Be refer to below format when configuring parameter

Max. Age = 2 x (Forward Delay - 1S)

Max. Age = 2 x (Hello Time + 1S)

**Bridge priority :** the range is from 0 to 65535,0 is the highest. This parameter is used to diagnose which switch will be root switch.The value is smaller , the priority is higher, the switch may be selected as root switch.



Notess:

1.Only when enable spanning tree configuration , the max bridge time , hello

time , forward time and priority can be configured, or it won' t .

2. It must obey the rule of  $2 \times (\text{HelloTime} + 1) \leq \text{MaxAgeTime} \leq 2 \times (\text{ForwardTime} - 1)$ , or it will show error prompt interface as below :



Figure13-2Error prompt

Click "**OK**" button, system begins to configure the device, the result will come out.

Click "**Refresh**" button, system will get the new data from the device.

Click "**Help**" button, system will show the online help.

## 13.2STP configuration based on port

This interface is to configure stp protocol parameters of each port.

Configuration interface as below:

	PortNo	STPPortState	StpPortPriority	StpPortPathCost	StpPortEnable
TiNet S3660-52TS					
GN.Link Function	e0/0/1	disabled	128	200000	enabled
System Info	e0/0/2	disabled	128	200000	enabled
LLDP	e0/0/3	disabled	128	200000	enabled
Port	e0/0/4	disabled	128	200000	enabled
VLAN	e0/0/5	disabled	128	200000	enabled
QINQ	e0/0/6	disabled	128	200000	enabled
MAC Address	e0/0/7	disabled	128	200000	enabled
Multicast	e0/0/8	disabled	128	200000	enabled
Spanning Tree	e0/0/9	disabled	128	200000	enabled
Switch Based	e0/0/10	disabled	128	200000	enabled
Port Based	e0/0/11	disabled	128	200000	enabled
Port Storm Control	e0/0/12	disabled	128	200000	enabled
Priority	e0/0/13	disabled	128	200000	enabled
Access Control List	e0/0/14	disabled	128	200000	enabled
QOS	e0/0/15	disabled	128	200000	enabled
802.1X	e0/0/16	disabled	128	200000	enabled
DHCP	e0/0/17	disabled	128	200000	enabled
DHCP-Snooping cor	e0/0/18	disabled	128	200000	enabled
L3	e0/0/19	disabled	128	200000	enabled
Route	e0/0/20	disabled	128	200000	enabled
EFM	e0/0/21	forwarding	128	200000	enabled
RMON	e0/0/22	disabled	128	200000	enabled
User Setting	e0/0/23	disabled	128	200000	enabled
Anti DOS Attack	e0/0/24	disabled	128	200000	enabled
Save Configuration	e0/0/25	disabled	128	200000	enabled
Restart Switch	e0/0/26	disabled	128	200000	enabled
	e0/0/27	disabled	128	200000	enabled
	e0/0/28	disabled	128	200000	enabled
	e0/0/29	disabled	128	200000	enabled
	e0/0/30	disabled	128	200000	enabled
	e0/0/31	disabled	128	200000	enabled
	e0/0/32	disabled	128	200000	enabled

Figure13-3 STP configuration interface based on port

In this main interface , choose one line , Click” config”,it will show parameter as below:

Stp Port No	e0/0/12
Stp Port Priority(0 - 240)	128
Stp Port Path Cost(1 - 200000000)	200000
Stp Port Enable	enabled

Ok Cancel

Figure13-4STP parameter configuration interface

**STP port priority** : port priority,the range is from 0 to 240 .The priority is lower, the rate what the port will be selected to be the root port is bigger.

**STP port path cost:** port pah cost, the range is from 1 to 200000000. . The path cost is lower, the rate what the port will be selected to be the root port is bigger.

**STP port status:** five status, port only effects reponse network management information,port won't forward or receive packets, port waits to accept BPDU packets,port can forward packets and no changeable when be in block.

**STP port enable:** configure port spanning tree status, it has enable and disable.

Click”**OK**”button,system begins to configure the device, the result will come out.

Click “**Refresh**”button,system will get the new data from the device.

Click “**Help**” button, system will show the online help.

### **13.3 Multiple spanning tree configuration**

Multiple spanning tree (IEEE802.1S, Multiple spanning tree) is upgrade of SST ( single spanning tree, IEEE802.1D / 802.1W ), Single spanning tree can link the redundancy and cancellation loop function, But because of all the VLAN only shared one tree, Often waste the effective bandwidth, cause some link overload, While some link always in the backup status. Multiple spanning tree can make up these defects , Use the different VLAN to mapped to different spanning tree instance, While in considering all the features make the SST achieving to load balance, That is, Different spanning tree instance can formation different topology, Different VLAN data can according the VLAN's spanning tree instance and may choice the different transmission channel.

When the spanning tree is open and the spanning tree protocol model for MSTP then the MSTP configuration parameters can take effect. When the MSTP is closed and these parameter configuration remains, When the next MSTP opening these parameters will come into effect.

### 13.3.1 Global MSTP configuration

The configuration interface is used to configure the switch MSTP timer value, identifier revision level and the maximum number of hops. The configuration interface as shown in the figure:

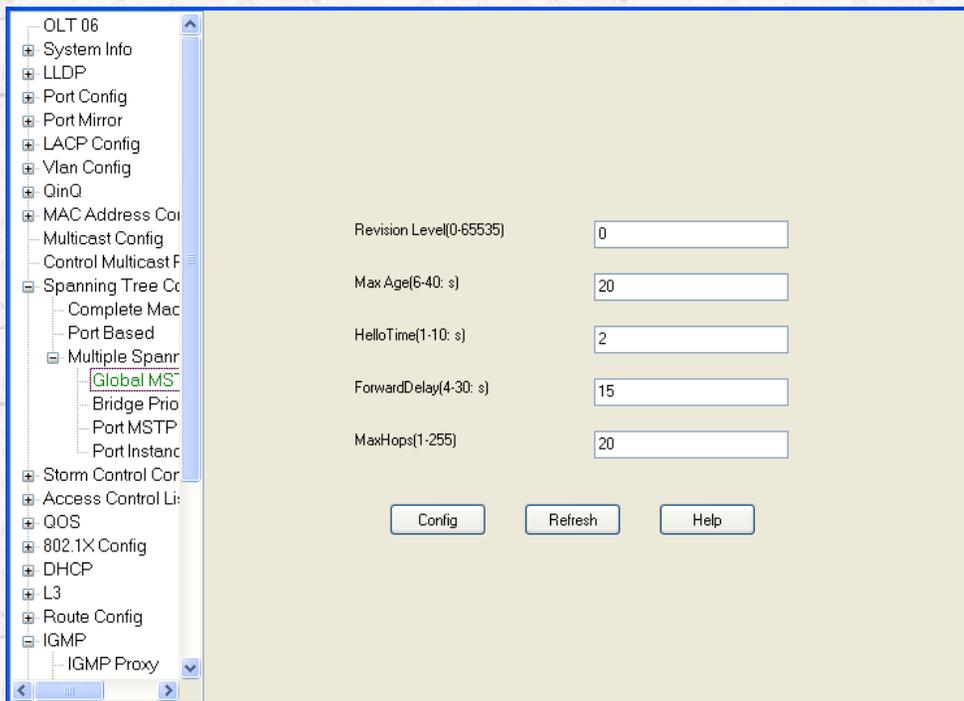


Figure 13-5 Global MSTP configuration interface

**Revision Level:** Values range is from 0 to 65535.

**Max Age:** Values range is from 6 to 40 s. If more than the setting value, it not from the root bridge ( Root Bridge )to receives the BPDU signal,so, your switch will make their BPDU to all other switches,Apply to become the root bridge.If

your switch has the smallest bridge marking series ( Bridge Identifier ), then it will become the root bridge.

**Hello Time:**Hello Time values range is from 1 second to 10 second.This parameter is time interval from the root bridge to issued two BPDU .If you set this parameter in your switch to

,Then, when you switch become to be the root bridge,after it will be put to use,Call time cannot longer than the largest bridge aging time, otherwise it will tip configuration error.

**Forward Delay:**Forward Delay,values range is from 4 second to 30 second,When the switch from blocking state ( blocking ) converted to the forwarding state ( forwarding ),is in the learning ( listening ) state of the time.



Tips:

Please refer to the following formula when you set the parameters

Max. Age = 2 x (Forward Delay - 1S)

Max. Age = 2 x (Hello Time + 1S)

Max Hops:Values range is from 1 to 255.



Notes:

1. Only when the spanning tree configured is enable, greatest bridge aging time, the call time, bridge forward delay and Bridge priority can be configure, Otherwise the above four could not be configured.

2. configuration must be followed  $2 \times (\text{hello\_time}) \leq \text{maximum bridge aging time} \leq 2 \times (\text{bridge forward delay} - 1)$  these rules, if not conformity, it will appear error interface as the figure:



Figure13-6The error dialog box

Click the '**config**' button, the system began to configure the equipment, It will given the configuration results after the end result.

Click the '**Refresh**' button, The system will restart obtain the latest data from the equipment.

Click the '**Help**' button, The system will given a hand online.

### 13.3.2 Bridge priority

In MSTP, Bridge priority is based on each spanning tree instance parameters bridge priority with the port priority and port path cost and decided each spanning tree instance topology

,constitute to link load balance. Configuration interface as the shown figure:

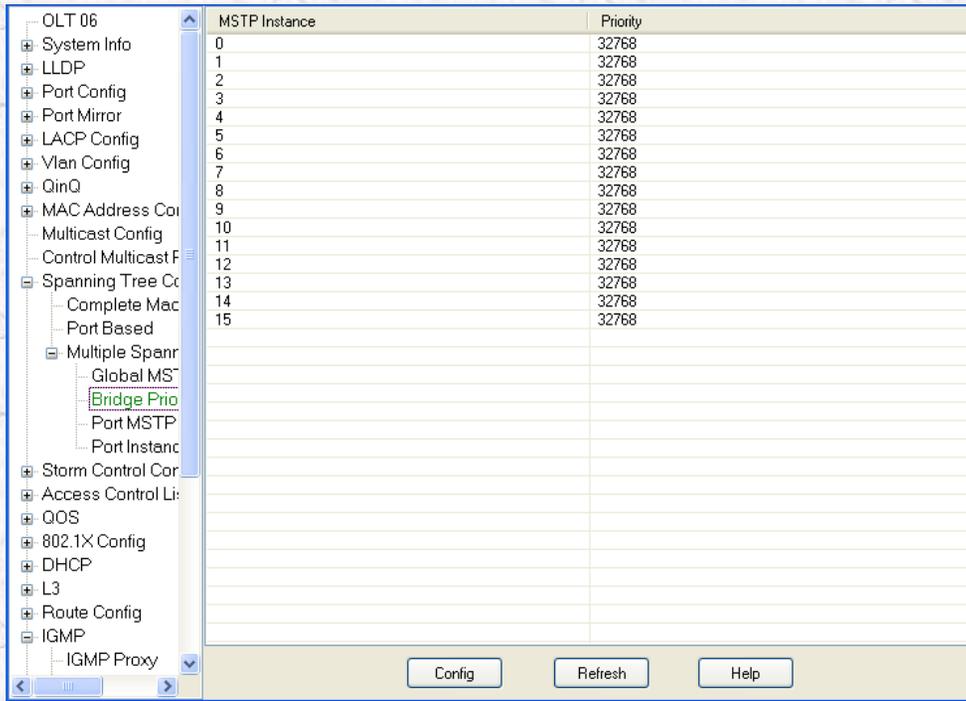
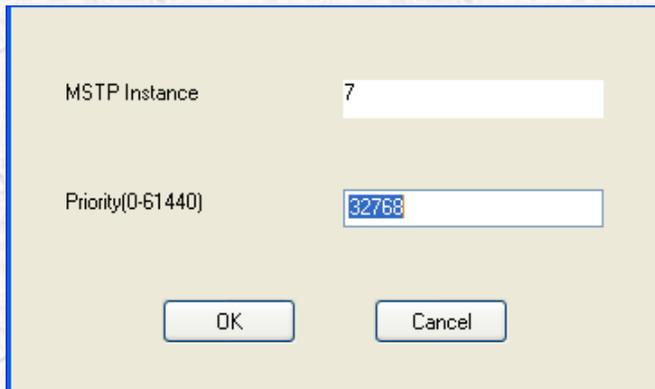


Figure13-7Bridge priority configuration interface

Select one of the line in the interface, click the' **Config**' button, it will appear a dialog box

as the shown figure:



MSTP Instance 7

Priority(0-61440) 32768

OK Cancel

Figure13-8Bridge priority configuration parameters interface

**Priority:**Values range is from 0 to 61440.And the configuration value must be integer multiple of 4096.

Click the “**OK**” button, the system began to equipment for configuration, After configuration,it will give configuration results.

Click the'**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the'**Help**” button, the system will given a hand online.

### 13.3.3 Port MSTP Configuration

Configuration interface as the shown figure:

	Port No	Port Fast	Link Type	External Cost
OLT 06				
System Info	e0/1	Yes	auto	20000
LLDP	e0/2	Yes	auto	20000
Port Config	e0/3	Yes	auto	20000
Port Mirror	e0/4	Yes	auto	20000
LACP Config	e1/1	Yes	auto	20000
Vlan Config	e1/2	Yes	auto	20000
QinQ	e1/3	Yes	auto	20000
MAC Address Co	e1/4	Yes	auto	20000
Multicast Config	p2/1	Yes	auto	20000
Control Multicast F	p2/2	Yes	auto	20000
Spanning Tree Co	p2/3	Yes	auto	20000
Complete Mac	p2/4	Yes	auto	20000
Port Based	p3/1	Yes	auto	20000
Multiple Spannr	p3/2	Yes	auto	20000
Global MST	p3/3	Yes	auto	20000
Bridge Prio	p3/4	Yes	auto	20000
Port MSTP	p4/1	Yes	auto	20000
Port Instanc	p4/2	Yes	auto	20000
Storm Control Cor	p4/3	Yes	auto	20000
Access Control Li	p4/4	Yes	auto	20000
QOS	e5/1	Yes	auto	20000
802.1X Config	e5/2	Yes	auto	20000
DHCP	e5/3	Yes	auto	20000
L3	e5/4	Yes	auto	20000
Route Config				
IGMP				
IGMP Proxy				

Figure13-9Port MSTP Configuration main interface

Select one of the line in the interface, click the' **Config**' button, it will appear a dialog box as the shown figure:

Port No	p3/1
Port Fast	Yes
Link Type	auto
External Cost(1-200000000)	20000

OK Cancel

Figure13-10Port MSTP Configuration parameters interface

**Port Fast:**As the single spanning tree,Having a border port attribute port in after of link up,If after two the cycle without receiving spanning tree ,then the port will into the forwarding status message.

**Link Type:**Port link types divided into two types:One is shared medium link type ( use the hub(and so on) to link ),the other is a point-to-point link types.Link type is mainly used in the port state the rapid conversion of the proposal - agree mechanism,Only when the link types for point-to-point port can allow to rapid conversion of the port state,Link type can be specified by hand or by the spanning tree protocol automatic detection.The corresponding configuration type are forceTrue,forceFalse and auto.

**External Cost:**Values range is from 1 to 200000000.Used to determine the region component of CST topology.

Click the ' **Config** ' button, the system began to configure the equipment, It will given the configuration results after the end result.

Click the '**Refresh**' button, The system will restart obtain the latest data from the equipment. Click the '**Help**' button, the system will given a hand online.

### 13.3.4 Port example MSTP configuration

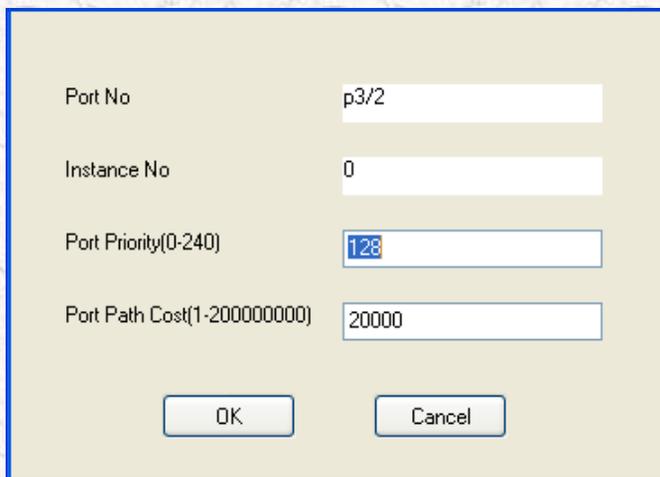
Configuration interface as the shown figure:

Port No	Instance No	Port Priority	Port Path Cost
e0/1	0	128	20000
e0/2	0	128	20000
e0/3	0	128	20000
e0/4	0	128	20000
e1/1	0	128	20000
e1/2	0	128	20000
e1/3	0	128	20000
e1/4	0	128	20000
p2/1	0	128	20000
p2/2	0	128	20000
p2/3	0	128	20000
p2/4	0	128	20000
p3/1	0	128	20000
p3/2	0	128	20000
p3/3	0	128	20000
p3/4	0	128	20000
p4/1	0	128	20000
p4/2	0	128	20000
p4/3	0	128	20000
p4/4	0	128	20000
e5/1	0	128	20000
e5/2	0	128	20000
e5/3	0	128	20000
e5/4	0	128	20000
e0/1	1	128	20000
e0/2	1	128	20000
e0/3	1	128	20000
e0/4	1	128	20000
e1/1	1	128	20000
e1/2	1	128	20000
e1/3	1	128	20000
e1/4	1	128	20000

Figure13-11Port example MSTP configuration main interface

Select one of the line in the interface, click the' **Config**'' button, it will appear a dialog box

as the shown figure:



The image shows a dialog box for MSTP configuration. It has a light beige background and a blue border. The dialog contains four input fields and two buttons. The fields are: 'Port No' with the value 'p3/2', 'Instance No' with the value '0', 'Port Priority(0-240)' with the value '128', and 'Port Path Cost(1-200000000)' with the value '20000'. The 'OK' and 'Cancel' buttons are at the bottom.

Port No	p3/2
Instance No	0
Port Priority(0-240)	128
Port Path Cost(1-200000000)	20000

OK Cancel

Figure13-12Port example MSTP configuration parameter interface

**Port Priority:**Values range is from 0 to 240,and the configuration data must be a multiple of 16.Based on the parameters of each spanning tree instance.

**Port Path Cost:**Values range is from 1 to 200000000.Based on the parameters of each spanning tree instance,To decision each MSTP region within different topology.

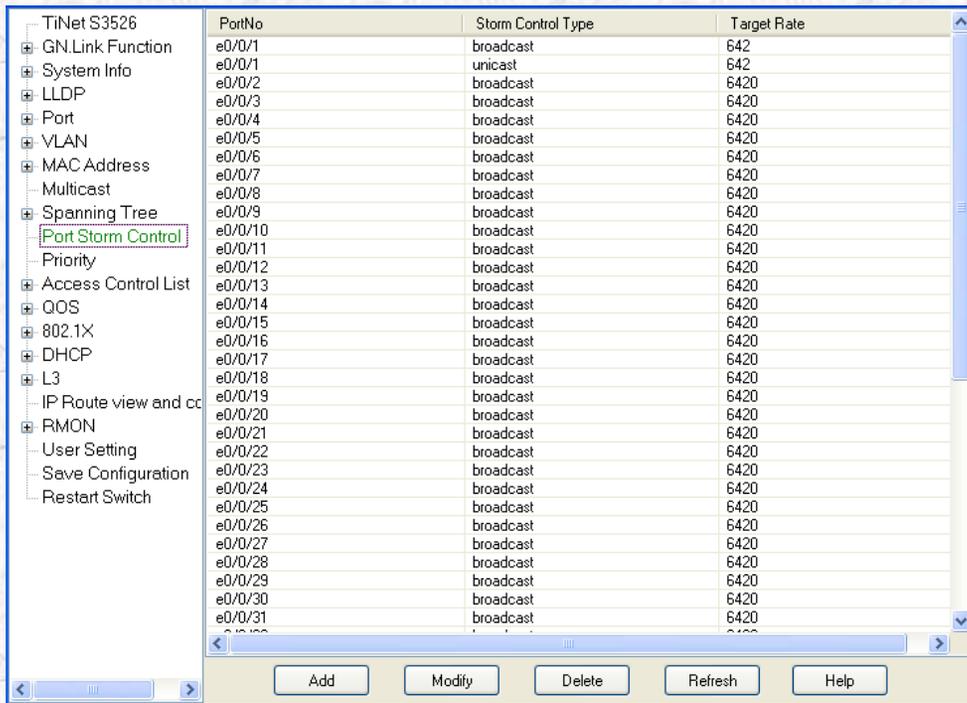
Click the' **Config**'' button, the system began to configure the equipment, It will given the configuration results after the end result.

Click the '**Refresh**' button, The system will restart obtain the latest data from the equipment. Click the '**Help**' button, the system will given a hand online.

# 14 Storm Control

## 14.1 Broadcast storm control

Can use the storm control to limit the port to receive the broadcast / multicast / unknown unicast message rate. Configuration interface as the shown figure:

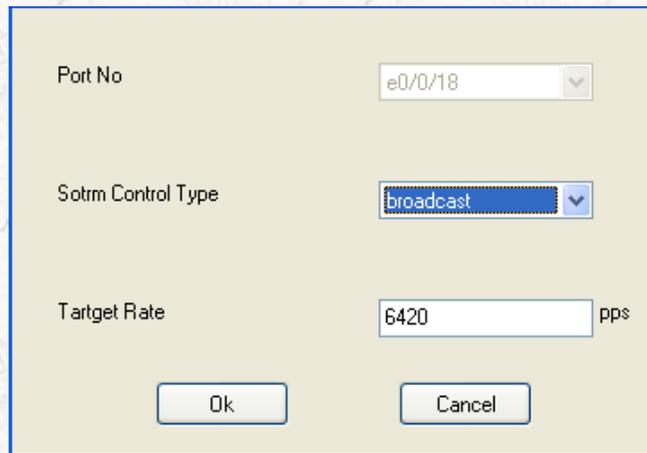


The screenshot shows a configuration interface for broadcast storm control. On the left is a tree view with 'Port Storm Control' selected. The main area is a table with columns: PortNo, Storm Control Type, and Target Rate. The table lists ports e0/0/1 through e0/0/31, all with a target rate of 642. At the bottom are buttons for Add, Modify, Delete, Refresh, and Help.

PortNo	Storm Control Type	Target Rate
e0/0/1	broadcast	642
e0/0/1	unicast	642
e0/0/2	broadcast	6420
e0/0/3	broadcast	6420
e0/0/4	broadcast	6420
e0/0/5	broadcast	6420
e0/0/6	broadcast	6420
e0/0/7	broadcast	6420
e0/0/8	broadcast	6420
e0/0/9	broadcast	6420
e0/0/10	broadcast	6420
e0/0/11	broadcast	6420
e0/0/12	broadcast	6420
e0/0/13	broadcast	6420
e0/0/14	broadcast	6420
e0/0/15	broadcast	6420
e0/0/16	broadcast	6420
e0/0/17	broadcast	6420
e0/0/18	broadcast	6420
e0/0/19	broadcast	6420
e0/0/20	broadcast	6420
e0/0/21	broadcast	6420
e0/0/22	broadcast	6420
e0/0/23	broadcast	6420
e0/0/24	broadcast	6420
e0/0/25	broadcast	6420
e0/0/26	broadcast	6420
e0/0/27	broadcast	6420
e0/0/28	broadcast	6420
e0/0/29	broadcast	6420
e0/0/30	broadcast	6420
e0/0/31	broadcast	6420

Figure14-1Broadcast storm control main interface

Select one line of the table , it said one of port, click' add' button, there will appear the interface :



The image shows a configuration dialog box with a light beige background and a blue border. It contains three rows of configuration options:

- Port No:** A dropdown menu with the value "e0/0/18" selected.
- Storm Control Type:** A dropdown menu with the value "broadcast" selected.
- Target Rate:** A text input field containing the number "6420", followed by the unit "pps".

At the bottom of the dialog, there are two buttons: "Ok" on the left and "Cancel" on the right.

Figure14-2Parameter configuration interface

Click the' **OK**' button,the system began to configure the equipment, after configuration system will given the configuration result.

Click the'**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the'**Help**' button, the system will given a hand online.

## 14.2Basic storm control

Configuration interface as the shown figure:

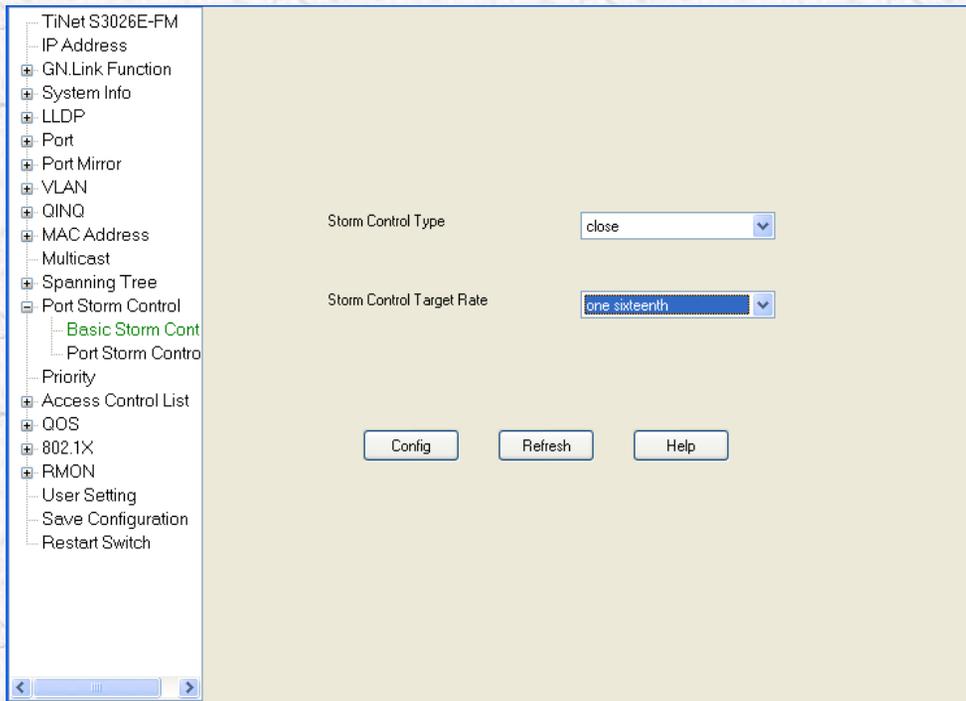


Figure14-3Basic storm control interface

Click the '**Config**' button, the system began to configure the equipment, It will given the configuration results after the end result.

Click the '**Refresh**' button, The system will restart obtain the latest data from the equipment. Click the '**Help**' button, the system will given a hand online.

## 14.3Port storm control

Configuration interface as the shown figure:



Click the '**Config**' button, the system began to configure the equipment, It will given the configuration results after the end result.

Click the '**Refresh**' button, The system will restart obtain the latest data from the equipment. Click the '**Help**' button, the system will given a hand online.

# 15 Priority Allocation

Configuration interface as the shown figure:

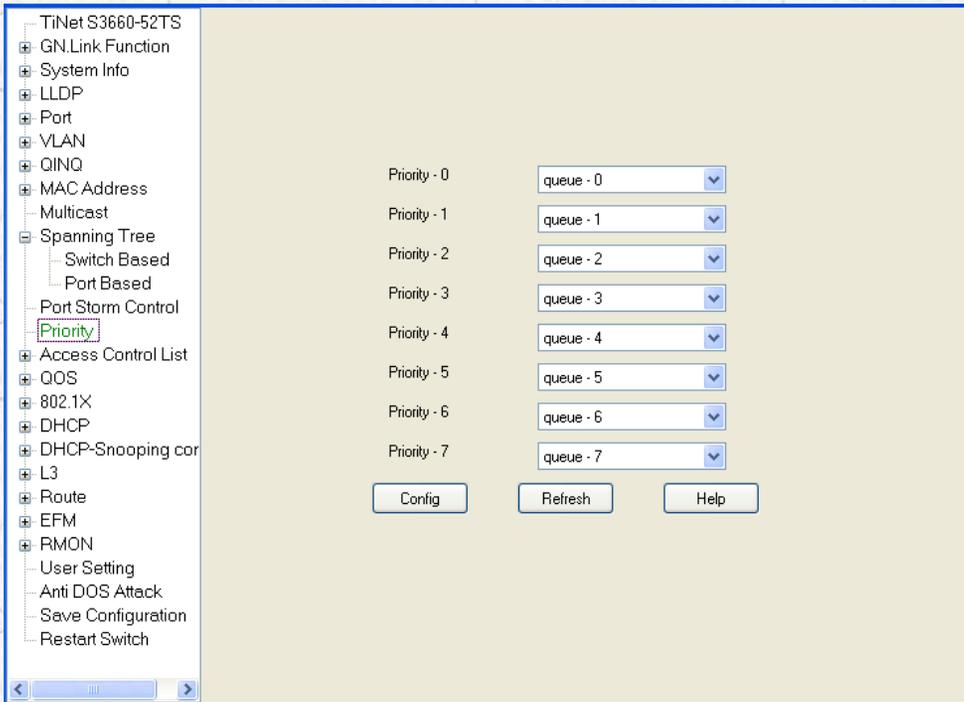


Figure15-1Priority allocation configuration interface

Switch for transmitting data packets of the sent order is:Four cohort, from small to large to send, that is,from 0 to 3,In each queue, according to the priority level of the packet to send,that is from 0 to 7, this configuration is said that the priority level of the packet and they enter a particular queue outgoing correspondence.



Notes:

1. If in the drop-down box to choose the empty entry, the entries will not be configured, only keep the original value;
2. It does not allow all of the drop-down box to choose empty item, click 'profile' button;

Click the '**Config**' button, the system began to configure the equipment, It will give the configuration results after the end result.

Click the '**Refresh**' button, The system will restart obtain the latest data from the equipment. Click the '**Help**' button, the system will give a hand online.

# 16 PoE

## 16.1 Global PoE configuration

Configuration interface as the shown figure:

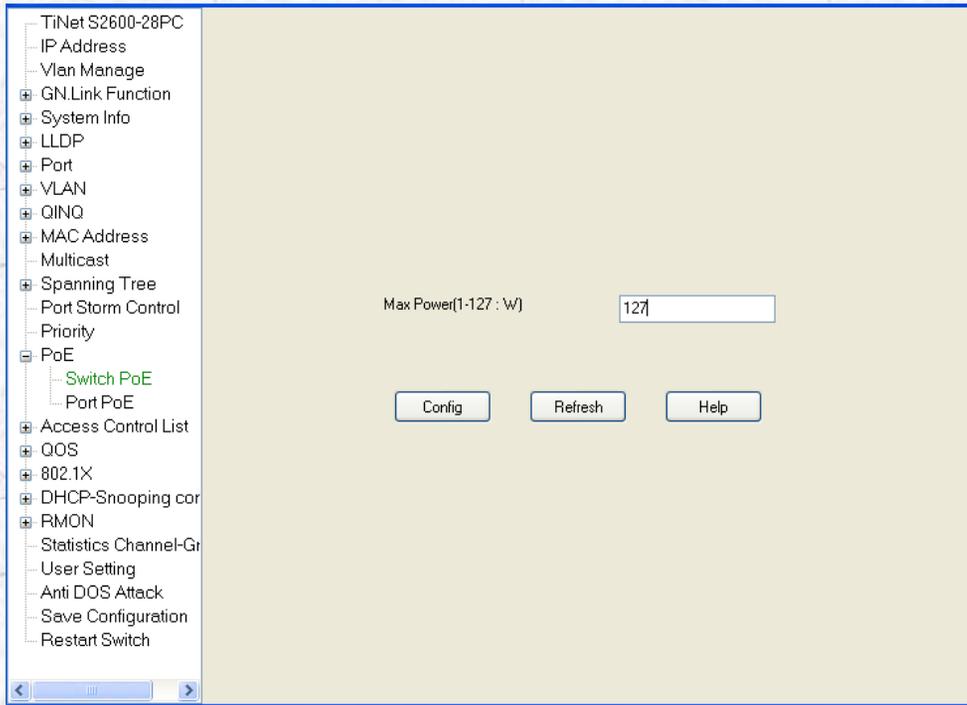


Figure16-1Global PoE configuration interface

Max power:Values range is from1-400.

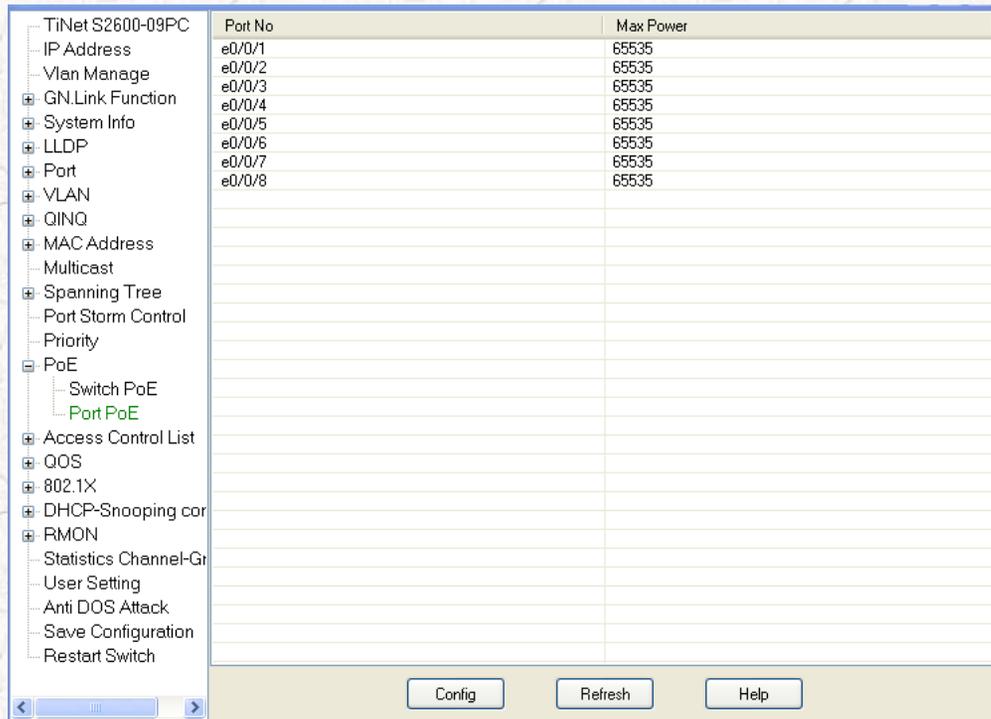
Click the' **Config**' button, the system began to configure the equipment, It will

given the configuration results after the end result.

Click the '**Refresh**' button, The system will restart obtain the latest data from the equipment. Click the '**Help**' button, the system will given a hand online.

## 16.2 Port PoE Configuration

Configuration interface as the shown figure:

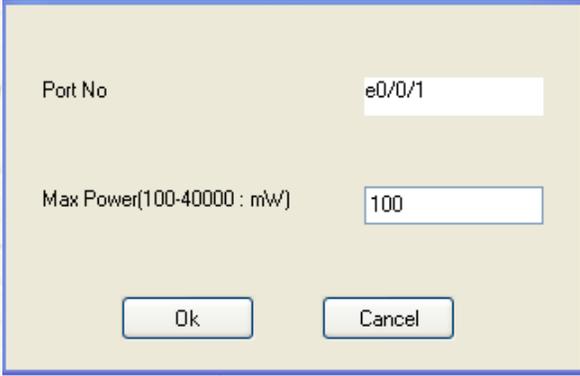


The screenshot displays a configuration interface for a TiNet S2600-09PC. On the left is a tree view of configuration options, with 'Port PoE' selected. The main area shows a table with two columns: 'Port No' and 'Max Power'. The table lists ports e0/0/1 through e0/0/8, all with a 'Max Power' of 65535. At the bottom, there are three buttons: 'Config', 'Refresh', and 'Help'.

Port No	Max Power
e0/0/1	65535
e0/0/2	65535
e0/0/3	65535
e0/0/4	65535
e0/0/5	65535
e0/0/6	65535
e0/0/7	65535
e0/0/8	65535

Figure16-2Port PoE configuration interface

Click the '**Config**' button, it will appear a parameter configuration interface.:

A dialog box with a light beige background and a blue border. It contains two input fields and two buttons. The first input field is labeled 'Port No' and contains the text 'e0/0/1'. The second input field is labeled 'Max Power(100-40000 : mW)' and contains the number '100'. At the bottom, there are two buttons: 'Ok' on the left and 'Cancel' on the right.

Port No	e0/0/1
Max Power(100-40000 : mW)	100
Ok	Cancel

Figure16-3Parameter configuration interface

Max Power:Values range is from100-40000.

Click the' **OK**' button,The system began to configure the equipment, after configuration system will given the configuration result.

Click the'**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the'**Help**' button, the system will given a hand online.

## 17 ACL

---

Access control list is used in the router interface command list, The list of instructions used to tell the router which the packet can be received, which data packets need to reject. The packet is being received or rejected, can use source address, destination address, port number, protocol and other conditions to determine the specific instructions. By flexibly increase to access control list, ACL. Can be used as a powerful tool for network control, used to filter the inflow and outflow of the router interface packet.

After establishment of the access control list, Can limit the network flow, improve the performance of the network, the communication flow to control means, it is on the basic level of security for access network. After access control list in switch router interface configured, Can use to the inbound interface, station interface and relay data packets to security detection.



Notes: Part of the device itself may not support SNMP mode ACL management, the specific version can check the equipment specification or to customer service consulting.

## 17.1 Based on the name identification

### 17.1.1 Based on the name ACL

Configuration interface as the shown figure:

Name	Type	MatchOrder	ToteSubItems
a	Standard ACL	config	1
b	Link ACL	config	1
c	Extended ACL	config	1

Figure17-1Based on the name ACL configuration interface

**List Name:** Based on the ACL name of the list name.

**Type:**ACL type.

**Match Order:**Match Order,it's the user configuration or depth priority order.

**Tote Sutltems:**Corresponding types of sub ACL number.

Click the '**add**' button,begin to add the ACL to equipment, after configuration system will given the configuration result.

Click the' **Delete**' button,The system will delete the selected ACL,after configuration system will given the configuration result.

Click the'**Refresh**' button, the system will restart from the equipment to obtain the latest data.

Click the'**Help**' button, the system will given a hand online.

### **17.1.2 Based on the name standard sub ACL**

Configuration interface as the shown figure:



**Time Range:**The sub ACL play time.



Notes:Source address and the source address wildcard interaction showed that a ACL rule the role of the network of the scope.

Click the '**add**' button,began to add the ACL to equipment, after configuration system will given the configuration result.

Click the' **Delete**'' button,The system will delete the selected ACL,after configuration system will given the configuration result.

Click the'**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the'**Help**' button, the system will given a hand online.

### **17.1.3 Extended sub ACL based on name**

Configuration interface as below:



Figure17-3 Configuration interface of expanding Sub-ACL based on name identifier

**List ordinal:** ACL list ordinal based on digital identifier .

**Subkey number:** subkey number of expanding Sub-ACL.

**Management state:** the state of adding Sub-ACL is default not activated and invoked.

**Action type:** is default rejected.

**Protocol number:** Protocol number.

**Source address:**source address.

Source address wildcard:wildcard.

**Destination address:**destination address.

Destination address wildcard: wildcard.

**ICMP Packet type:**ICMP Packet type.

**ICMP packet code:**ICMP packet code.

**Filter TCP the first created link package of TCP:filter TCP the first created link package of TCP.**

**Priority:** priority.

**TOS field:**TOS field.

**DSCP field:**DSCP field.

**Fragment:whether make** Fragment when IP message is transferred,default is "not".

**timebucket:** timebucket that the Sub-ACL works.



Notes: source address and source address wildcard working together indicates the range of network segment which an ACL works.

Click “ **add** ” button ,add ACL ,configuration result will be shown after configuration.

Click “ **delete** ” button , system deletes the selected ACL,configuration result will be shown after configuration.

Click “ **refresh** ” button ,the system will acquire latest data from device once again.

Click “ **help** ” button ,the system shows on-line help.

## 17.1.4 Link Named ACL based on name

Configuration interface as follows :

Name	SubNumber	AdminStatus	Action	Protocol(H...	COS	VlanID	SrcI
------	-----------	-------------	--------	---------------	-----	--------	------

Figure17-4Link Named ACL based on name interface

Click “ **add** “ button ,add Link Named ACL ,configuration result will be shown after configuration.

Click “ **delete** “ button , system deletes the selected Link Named ACL,configuration result will be shown after configuration.

Click “ **refresh** “ button ,the system will acquire latest data from device once again.

Click “ **help** “ button ,the system shows on-line help.

## **17.2Based on the digital identification**

### **17.2.1 Based on the digital ACL**

Configuration interface as follows :

Num	Type	MatchOrder	TolleSubItems
11	Standard ACL	config	1
12	Standard ACL	config	1

Figure17-5based on digital ACL identifier Configuration interface

Click the '**add**' button,begin to add the ACL to equipment, after configuration system will given the configuration result.

Click the' **Delete**' button,The system will delete the selected ACL,after configuration system will given the configuration result.

Click the'**Refresh**' button, the system will restart from the equipment to obtain the latest data.

Click the'**Help**' button, the system will given a hand online.

## 17.2.2 Based on the digital standard sub ACL

Configuration interface as follows :

Num	SubNumber	AdminSta...	Action	SrcAddr	SrcAddr...	Fragments	TimeRange
11	0	not active...	allow	0.0.0.0	255.255.2...	No	
12	0	not active...	allow	0.0.0.0	255.255.2...	No	

Figure17-6Based on the digital standard sub ACL identifier Configuration interface

Click the '**add**' button,begin to add the standard sub ACL to equipment, after configuration system will given the configuration result.

Click the' **Delete**' button,The system will delete the selected standard sub ACL,after configuration system will given the configuration result.

Click the **Refresh** button, the system will restart from the equipment to obtain the latest data.

### 17.2.3 Based on the digital Extended sub ACL

Configuration interface as follows :

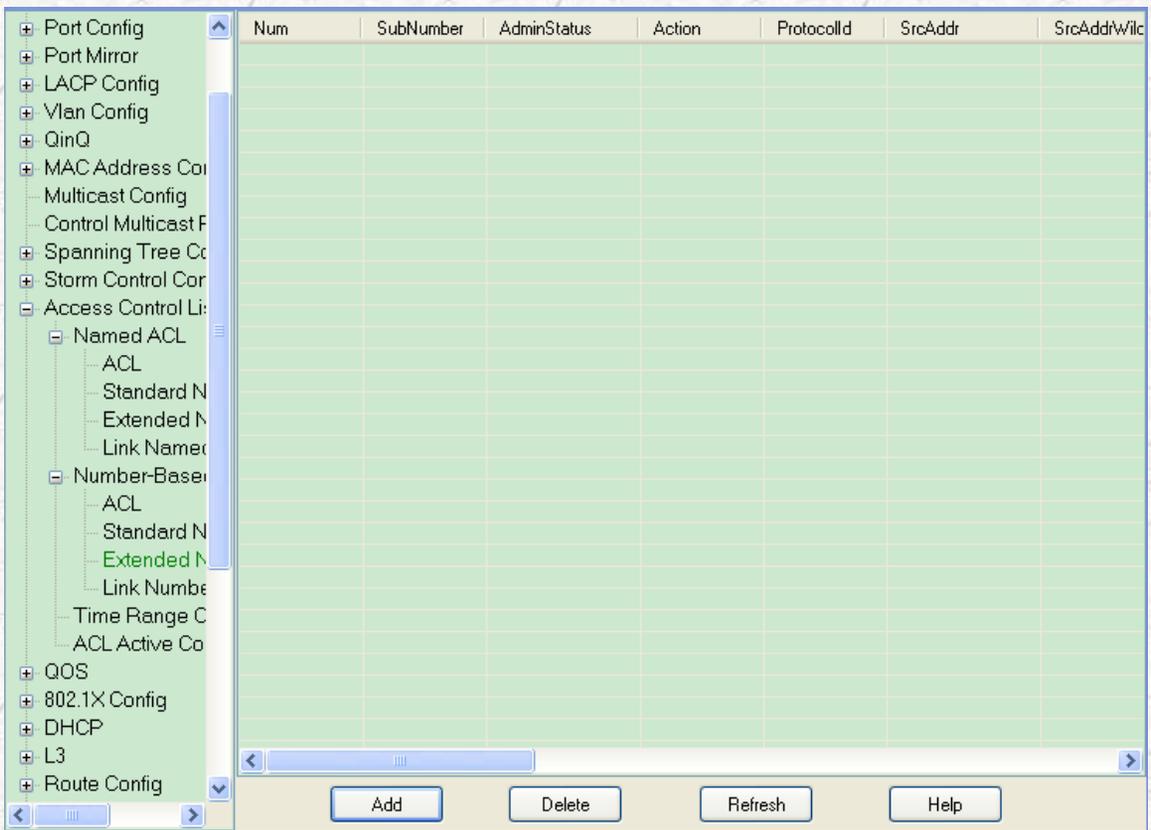


Figure17-7Based on the digital standard sub ACL identifier Configuration interface

Click the **add** button,begin to add the Extended sub ACL to equipment, after configuration system will given the configuration result.

Click the' **Delete**' button,The system will delete the selected Extended sub ACL,after configuration system will given the configuration result.

Click the'**Refresh**' button, the system will restart from the equipment to obtain the latest data.

Click the'**Help**' button, the system will given a hand online.

### **17.2.4 Based on the digital Link sub ACL**

Configuration interface as follows :



**COS:**COS.

**VLAN ID:**VLAN ID.

**Source MAC address :** source MAC address .

**Source MAC address wildcard:**MAC address wildcard.

**Destination MAC address :** destination MAC address .

**Destination MAC address wildcard:**MAC address wildcard.

**Timebucket:**timebucket that Sub-ACL works.



Notess: source address and source address wildcard woking together indicates the range of network segment which an ACL works.

Click “ **add** “ button ,add ACL,configuration result will be shown after configuration.

Click “ **delete** “ button , system will delete the selectedACL,configuration result will be shown after configuration.

Click “ **refresh** “ button ,the system will acquire latest data from device once again.

Click “ **help** “ button ,the system shows on-line help.

## 17.2.5 User-defined Sub-ACL Based On Digital

Configuration interface as follows:

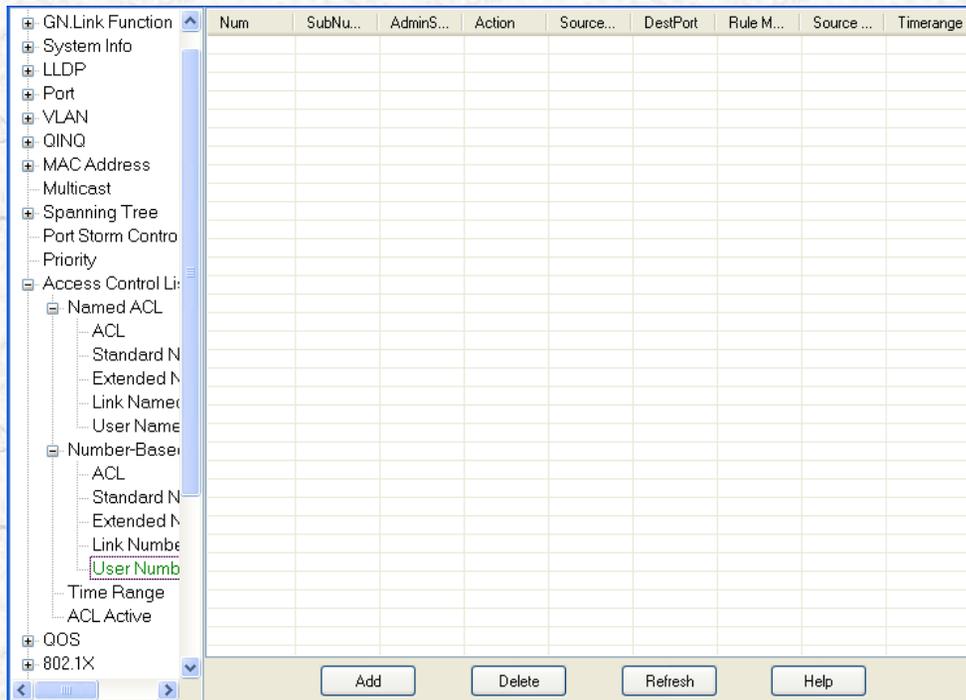


Figure17-9User-defined Sub-ACL based on digital identifier Configuration interface

**List name** : the list name of ACL based on digital identifier.

**Subkey number**:subkey number of user-defined Sub-ACL.

**Management state**:newly adding Sub-ACL state,default is” not activated and invoked ”.

**Action type**:default is ” rejected”.

**Rule bunch netmask and bunch offset:**user-defined **Rule bunch netmask and bunch offset.**

**Timebucket:**timebucket that the Sub-ACL works.



Notess: source address and source address wildcard woking together indicates the range of network segment which an ACL works.

Click “ **add** “ button ,add ACL,configuration result will be shown after configuration.

Click “ **delete** “ button , system will delete the selected ACL,configuration result will be shown after configuration.

Click “ **refresh** “ button ,the system will acquire latest data from device once again.

Click “ **help** “ button ,the system shows on-line help.

## **17.3Time bucket configuration**

Configuration interface as follows :

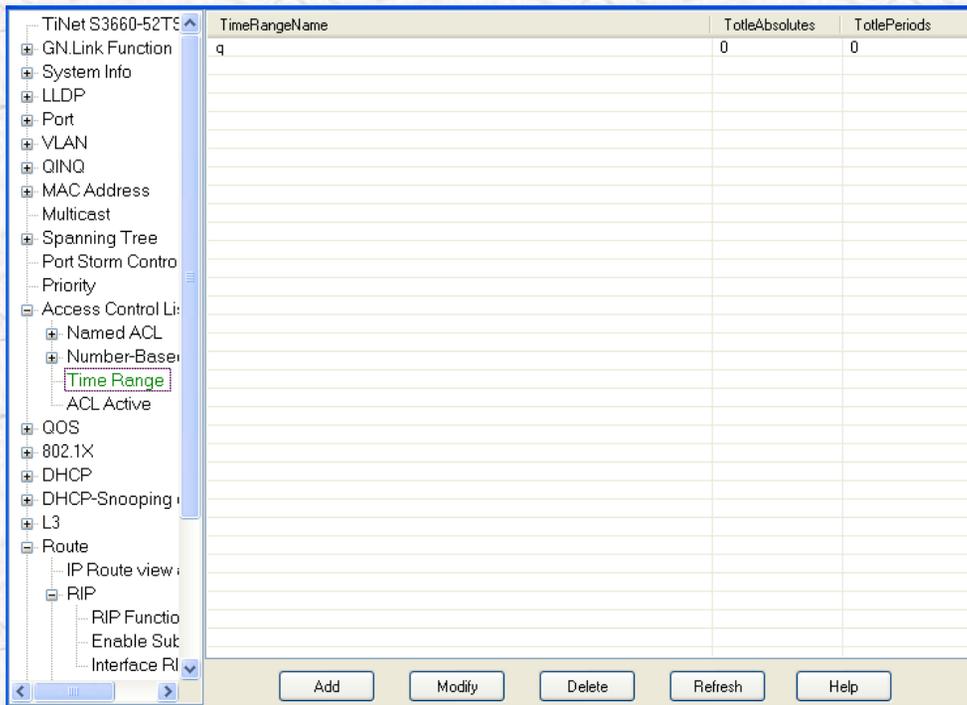


Figure17-10timebucket Configuration interface

**Timebucket name :** timebucket name .

**Range sum of absolute time:**the defined range sum of absolute time.

**Range sum of period :**range sum of period absolute time.

Click “ **add** “ button , add timebucket,configuration result will be shown after configuration.

Click “ **edit** “ button , edit timebucket,and specify absolute timebucket or periodic timebucket, configuration result will be shown after configuration.

Click “ **delete** ” button , system will delete selected timebucket, configuration result will be shown after configuration.

Click “ **refresh** ” button ,the system will acquire latest data from device once again.

Click “ **help** ” button ,the system shows on-line help.

## 17.4 ACL active setting

Configuration interface as follows :

The screenshot shows a network configuration interface for a TiNet S3660-52T5. The left sidebar contains a tree view of configuration categories, with 'ACL Active' selected under 'Access Control List'. The main area displays a table with the following data:

IpGroupName	IpGroupSubitem	LinkGroupName	LinkGroupSubitem	IsRunning
1	0			Yes

At the bottom of the interface, there are four buttons: 'Add', 'Delete', 'Refresh', and 'Help'.

Figure17-11ACL active settings

**User-defined list name:** user-defined list name.

**User-defined list subkey number:**the subkey number of user-defined list.

**IP list name:**IP list name.

**IP list subkey number:**IP list subkey number.

**Link list name:**Link list name.

**Link list subkey number:**subkey number of Link list .

**Block0 priority:**Block0 priority.

**Block1 priority:**Block1 priority.

**Block2 priority:**Block2 priority.

**Block3 priority:**Block3 priority.

**Block4 priority:**Block4 priority.

**Running or not:**Running or not.

Click “ **add** “ button ,add active item , configuration result will be shown after configuration.

Click “ **delete** “ button , system will delete the selected active item , configuration result will be shown after configuration.

Click “ **refresh** “ button ,the system will acquire latest data from device once

again.

Click “ **help** “ button ,the system shows on-line help.

# 18 QoS

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Quality of service (quality of service, abbreviation is QoS) is the convention about Transmission and sharing of information between network and user or among users with network communication Transmission and sharing of information. It includes that all combination indicating the attribute of quality of service ( bandwidth ,delay ,delay jitter and tranching lost rate and so on).



Notess:NGBNView Network Management platform only supports for TiNetS3026E' s above version about V100R001B03D002.

## 18.1 Layer 2 priority tagged table (S3650)

The configuration of layer 2 priority tagged table configuration :when monitoring three color marker of double rate, message is tagged by one colour of green yellow and red as a result of the flow control rule,if three color marker of double rate specifies requirement of reset about layer 2 priority,the colour of message and 802.1p priority are used to search layer 2 priority tagged table as index,and replace the priority of message with the priority of matched item.The “No” command is used to recover default configuration of layer 2 priority tagged item.

Configuration interface as follows:

	L2Remark ID	Color	Old Cos	Dscp	Drop Prece...	Traffic Class	Cos
GN Link Function	1	Green	0	0	0		0
System Info	2	Green	1	0	0		0
LLDP	3	Green	2	0	0		0
Port	4	Green	3	0	0		0
VLAN	5	Green	4	0	0		0
QINQ	6	Green	5	0	0		0
MAC Address	7	Green	6	0	0		0
Multicast	8	Green	7	0	0		0
Spanning Tree	9	Yellow	0	0	0		0
Port Storm Contro	10	Yellow	1	0	0		0
Priority	11	Yellow	2	0	0		0
Access Control Li	12	Yellow	3	0	0		0
QOS	13	Yellow	4	0	0		0
L2 Priority Ren	14	Yellow	5	0	0		0
L3 Priority Ren	15	Yellow	6	0	0		0
Two Rate Poli	16	Yellow	7	0	0		0
Rate Limit	17	Red	0	0	0		0
Traffic Statics	18	Red	1	0	0		0
Traffic Priority	19	Red	2	0	0		0
Traffic Redirec	20	Red	3	0	0		0
Mirrored To	21	Red	4	0	0		0
Traffic Topy Tr	22	Red	5	0	0		0
802.1X	23	Red	6	0	0		0
DHCP	24	Red	7	0	0		0
L3							
Route							
EFM							

Figure18-1layer 2 priority tag table configuration main interface

**Colour** :colour of three color marker of double rate,such as red yellow and green,is the index of layer 2 priority tagged table.

**Index of 802.1p priority:**the index of layer 2 priority tag table,value range is 0~7.

**DSCP priority:**if the message that uses this item is IP message ,its DSCP priority is changed tothis DSCP priority,optional parameter , value range is 0~63.

**Discarded priority:**discarded priority of the message that uses this item is changed to this discarded priority,optional parameter,value range is 0~2.

**Local priority:** local priority of the message that uses this item is changed to this local priority, optional parameter, value range is 0~7.

**802.1p priority:** 802.1p priority of the message that uses this item is changed to this 802.1p priority, optional parameter, value range is 0~7.

Click “ **configuration** ” button, can configure selected layer-3 interface with IP address, configuration result will be shown after configuration.

Click “ **refresh** ” button, the system will acquire latest data from device once again.

Click “ **help** ” button, the system shows on-line help.

## **18.2 Layer3 priority tagged table (S3650)**

Layer-3 priority tagged table configuration :when monitoring three color marker of double rate, message is tagged by one colour of green yellow and red as a result of the flow control rule, if three color marker of double rate specifies requirement of reset about layer-3 priority, the colour of message and 802.1p priority are used to search layer-3 priority tagged table as index, and replace the priority of message with the priority of matched item. The “No” command is used to recover default configuration of layer-3 priority tagged item.

Configuration interface as follows :

	L3Remark ID	Color	Old Dscp	Dscp	Drop Prece...	Traffic Class	Cos
+	GN.Link Function	1	Green	0	0	0	0
+	System Info	2	Green	1	0	0	0
+	LLDP	3	Green	2	0	0	0
+	Port	4	Green	3	0	0	0
+	VLAN	5	Green	4	0	0	0
+	QINQ	6	Green	5	0	0	0
+	MAC Address	7	Green	6	0	0	0
+	Multicast	8	Green	7	0	0	0
+	Spanning Tree	9	Green	8	0	0	0
+	Port Storm Contro	10	Green	9	0	0	0
+	Priority	11	Green	10	0	0	0
+	Access Control Li	12	Green	11	0	0	0
+	QOS	13	Green	12	0	0	0
+	L2 Priority Ren	14	Green	13	0	0	0
+	L3 Priority Ren	15	Green	14	0	0	0
+	Two Rate Poli	16	Green	15	0	0	0
+	Rate Limit	17	Green	16	0	0	0
+	Traffic Statics	18	Green	17	0	0	0
+	Traffic Priority	19	Green	18	0	0	0
+	Traffic Redirec	20	Green	19	0	0	0
+	Mirroed To	21	Green	20	0	0	0
+	Traffic Topy To	22	Green	21	0	0	0
+	802.1X	23	Green	22	0	0	0
+	DHCP	24	Green	23	0	0	0
+	L3	25	Green	24	0	0	0
+	Route	26	Green	25	0	0	0
+	EFM	27	Green	26	0	0	0
+		28	Green	27	0	0	0
+		29	Green	28	0	0	0
+		30	Green	29	0	0	0
+		31	Green	30	0	0	0
+		32	Green	31	0	0	0

Figure18-2Layer-3 priority tagged table configuration main interface

**Color** :color of three color marker of double rate,such as red yellow and green,is the index of layer-3 priority tagged table.

**Index of 802.1p priority**:the index of layer-3 priority tag table,value range is 0~7.

**DSCP priority**:if the message that uses this item is IP message,its DSCP priority is changed tothis DSCP priority,optional parameter ,value range is 0~63.

**Discarded priority**:discarded priority of the message that uses this item is changed to this discarded priority,optional parameter,value range is 0~2.

**Local priority:** local priority of the message that uses this item is changed to this local priority, optional parameter, value range is 0~7.

**802.1p priority:** 802.1p priority of the message that uses this item is changed to this 802.1p priority, optional parameter, value range is 0~7.

Click “ **configuration** ” button, can configure selected layer-3 interface with IP address, configuration result will be shown after configuration.

Click “ **refresh** ” button, the system will acquire latest data from device once again.

Click “ **help** ” button, the system shows on-line help.

### **18.3 Three color marker of double rate (S3650)**

Configure S3650 with the three color marker of double rate, three color marker of double rate is called in flow control, to realize the function of three color marker of double rate.

Configuration interface as follows :

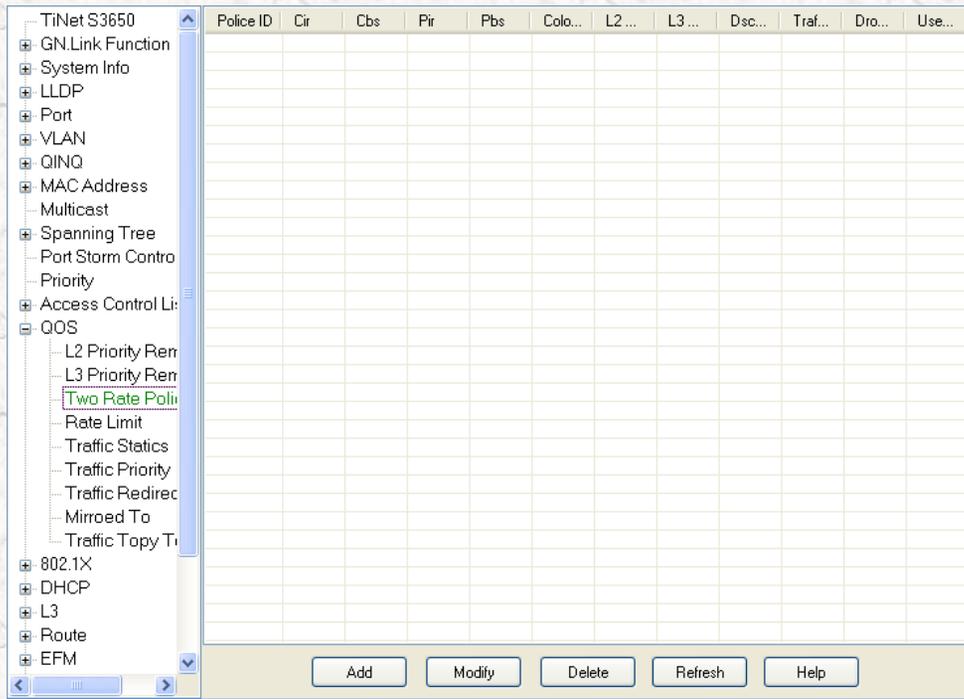


Figure18-3 Three color marker of double rate configuration main interface

**ID of three color marker of double rate:** value range is 0~255.

**Convention information rate:** value range is 1~1048575, the unit is Kbps.

**Convention burst size:** value range is 1~12800, the unit is bytes.

**Peak information rate :** value range is 1~1048575, the unit is Kbps.

**Peak burst size :** value range is 1~12800, the unit is bytes.

**Color Awarred mode:** enable , means that three color marker of double rate is in the color awared mode , optional parameter.

**Layer 2 priority reset:** enable , means that reset layer-2 priority, optional

parameter .

**Layer-3 priority reset:** enable ,means that reset layer-3 priority, optional parameter .

**Modified DSCP和802.1p priority:**enable ,means that user need modify DSCP priority and 802.1p priority of message when reset priority of layer-2 or layer-3 , optional parameter .

**Modified local priority:**enable ,means that user need modify local priority of message when reset priority of layer-2 or layer-3,optional parameter .

**Discarded red message :** enable ,means that discard red message ,optional parameter .

**Quantity used:**count quantity of used id of the one three color marker of double rate.

Click “ **add** “ button , add a new ID of three color marker of double rate, configuration result will be shown after configuration.

Click “ **edit** “ button ,modify related configuration about the selected ID of three color marker of double rate, configuration result will be shown after configuration.

Click “ **delete** “ button , delete related configuration information about the selected ID three color marker of double rate.

Click “ **refresh** ” button,the system will acquire latest data from device once again.

Click “ **help** ” button ,the system shows on-line help.

## 18.4Flow control (S3650)

Flow control of TiNetS3650 Configuration interface as following :

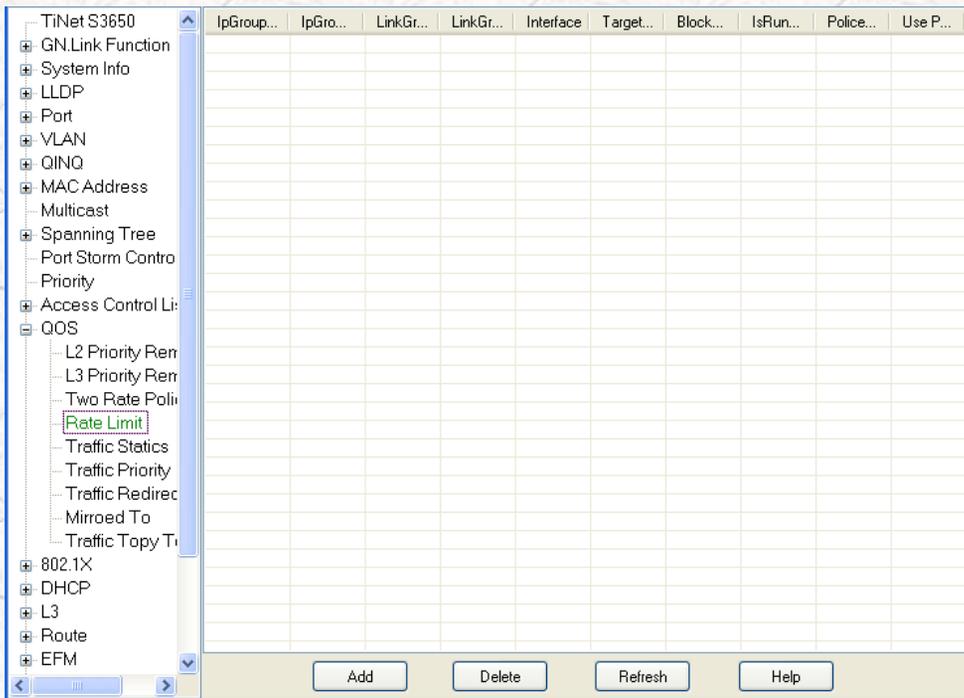


Figure18-4Flow control TiNetS3650 mian Configuration interface

**IP list name:**IP list name.

**IP list subkey number:**IP list subkey number.

**Link list name:**Link list name.

**Link list subkey number:**Link list subkey number.

**Input port number:** input port number.

**Maximum rate :** rate maximum.

**Block0 priority:**Block0 priority.

**Running or not:**running or not.

**ID of three color marker of double rate:**citable ID number of configured three color marker of double rate.

**Three color marker of double rate enable:**enable ,means that ID of configured three color marker of double rate.

Click “ **add** “ button , add a new flow control item ,configuration result will be shown after configuration.

Click “ **delete** “ button,delete related configuration information of selected flow control .

Click “ **refresh** “ button ,the system will acquire latest data from device once again .

Click “ **help** “ button ,the system shows on-line help .

## 18.5 Flow control (S3750)

Flow control TiNetS3750 Configuration interface as follows :

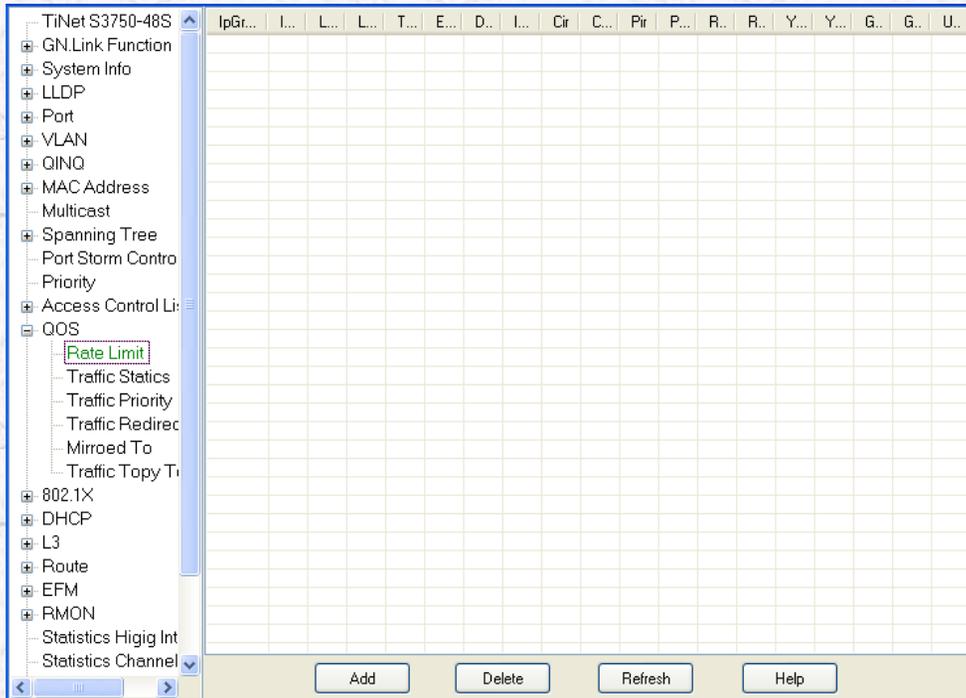


Figure18-5Flow control of TiNetS3750 main Configuration interface

**IP list name:**IP list name.

**IP list subkey number:**IP list subkey number.

**Link list name:**Link list name.

**Link list subkey number:**Link list subkey number.

**`input** port number.

**maximum rate** :set normal flow ,value range is 64-1048512,the unit is Kbps,and must be a multiple of 64.

**Beyond action of rate:beyond action of rate.**

**DSCP value:DSCP value.**

**Running or not:** running or not.

**Convention information rate** :value range is 64-1048512,the unit is Kbps,and must be a a multiple of 64.

**Convention burst size** :value range is 4~16384,the unit is Kbytes,and must be power of 2.

**Peak information rate** :value range is 64-1048512,the unit is Kbps,and must be a multiple of 64.

**Peak burst size** :value range is 4~16384, the unit is Kbytes,and must be power of 2.

**Action of message tagged red:**message is tagged with red,is the action that's took when flow of data package is beyond setting flow.

**Action of message tagged yellow:**message is tagged with yellow,is the action that's took when flow of data package is beyond setting flow.

**Action of message tagged green:**message is tagged with green,is the action that's took when flow of data package is beyond setting flow.

**Message tag action type:**action type includes discarding message,setting

new DSCP value,message forward to cpu and permit message to pass.And when action type is setting new DSCP value,set DSCP value.

**Three color marker of double rate enable** :enable ,means that uses configured three color marker of double rate.

Click “ **add** “ button,add a new flow control item ,configuration result will be shown after configuration.Configuration interface as follows :

if no ACL subitem selected, all subitem will be added.

Ip Group Name	<input type="text"/>	Ip Group Subitem	<input type="text"/>
Link Group Name	<input type="text"/>	Link Group Subitem	<input type="text"/>
Exceed Action	<input type="text" value="drop (1)"/>	Dscp Value	<input type="text" value="af1 (10)"/>
Target Rate(64-1048512: Kbps)	<input type="text"/>		

two rate policer

Cir(64-1048512: Kbps)	<input type="text"/>	Cbs(4-16384: KByte)	<input type="text"/>
Pir(64-1048512: Kbps)	<input type="text"/>	Pbs(4-16384: KByte)	<input type="text"/>
Red Action	<input type="text"/>	Red Dscp(0-63)	<input type="text"/>
Yellow Action	<input type="text"/>	Yellow Dscp(0-63)	<input type="text"/>
Green Action	<input type="text"/>	Green Dscp(0-63)	<input type="text"/>

Use trTCM

Ok      Cancel

Figure18-6Adding flow control of S3750 sub Configuration interface

Click “ **delete** “ button ,delete related configuration information of selected flow.

Click “ **refresh** ” button ,the system will acquire latest data from device once again.

Click “ **help** ” button ,the system shows on-line help.



Notess:if configure three color marker of double rate,select” three color marker of double rate configuration” .

## 18.6Flow control

Configuration interface as follows :

IpGroup...	IpGro...	LinkGr...	LinkGr...	Interface	Target...	Block...	IsRun...	Police...	Use P...
100	0			e0/0/1	102400	1516	Yes	0	disabled

Figure18-7Flow control Configuration interface

**User-defined list name:**user-defined list name.

**User-defined list subkey number:**user-defined list subkey number.

**IP list name:**IP list name.

**IP list subkey number:**IP list subkey number.

**Link list name:**Link list name.

**Link list subkey number:**Link list subkey number.

**Input port number:**input port number.

**Maximum rate :** rate maximum.

**Action beyond rate:** action beyond rate.

**DSCP value:**DSCP value .

**Block0 priority:**Block0 priority.

**Block1 priority:**Block1 priority.

**Block2 priority:**Block2 priority.

**Block3 priority:**Block3 priority.

**Block4 priority:**Block4 priority.

**Running or not:**running or not.

Click “ **add** ” button ,add flow control item .

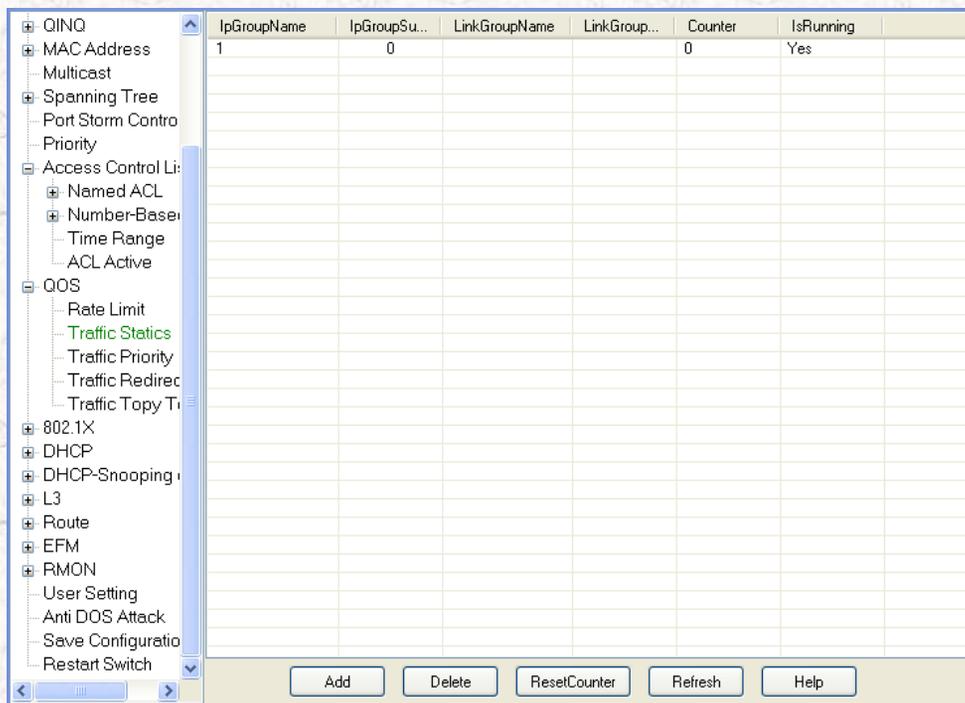
Click “ **delete** ” button ,delete a flow control item .

Click “ **refresh** ” button ,the system will acquire latest data from device once again.

Click “ **help** ” button ,the system shows on-line help.

## 18.7Flow count

Configuration interface as follows :



The screenshot displays the configuration interface for flow counting. On the left is a tree view with the following structure:

- QINQ
- MAC Address
  - Multicast
- Spanning Tree
- Port Storm Control
- Priority
- Access Control List
  - Named ACL
  - Number-Based
    - Time Range
    - ACL Active
- QOS
  - Rate Limit
  - Traffic Statics
  - Traffic Priority
  - Traffic Redirection
  - Traffic Topy T...
- 802.1X
- DHCP
- DHCP-Snooping
- L3
- Route
- EFM
- RMON
- User Setting
- Anti DOS Attack
- Save Configuration
- Restart Switch

On the right is a table with the following columns: IpGroupName, IpGroupSu..., LinkGroupName, LinkGroup..., Counter, and IsRunning. The table contains one row with the following values:

IpGroupName	IpGroupSu...	LinkGroupName	LinkGroup...	Counter	IsRunning
1	0			0	Yes

At the bottom of the interface are five buttons: Add, Delete, ResetCounter, Refresh, and Help.

Figure18-8Flow count Configuration interface

**User-defined list name:**user-defined list name.

**User-defined list subkey number:**user-defined list subkey number.

**IP list name:**IP list name.

**IP list subkey number:**IP list subkey number.

**Link list name:**Link list name.

**Link list subkey number:**Link list subkey number.

**Block0 priority:**Block0 priority.

**Block1 priority:**Block1 priority.

**Block2 priority:**Block2 priority.

**Block3 priority:**Block3 priority.

**Block4 priority:**Block4 priority.

**Status:**status

**Running or not:**running or not .

Click “ **add** “ button , add a flow control item .

Click “ **delete** “ button , delete a flow count item .

Click “**zero clearing** ” button , clear flow value zero .

Click “ **refresh** “ button ,the system will acquire latest data from device once again.

Click “ **help** “ button ,the system shows on-line help.

## 18.8 Priority tagged configuration

Configuration interface as follows :

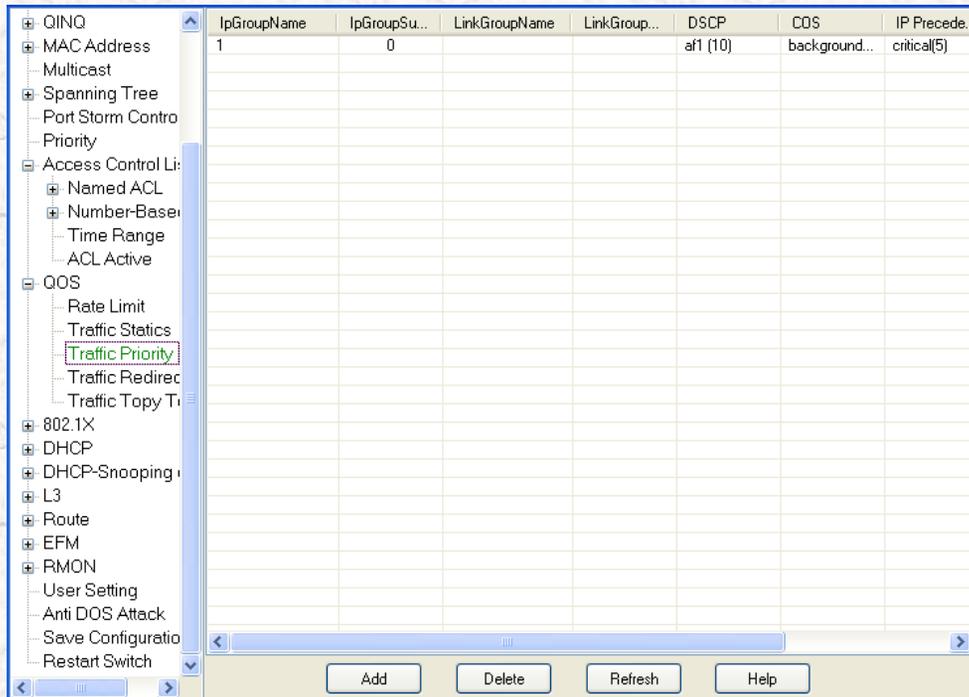


Figure18-9 Priority tagged configuration interface

**User-defined list name:**user-defined list name.

**User-defined list subkey number:**user-defined list subkey number.

**IP list name:**IP list name.

**IP list subkey number:**IP list subkey number.

**Link list name:**Link list name.

**Link list subkey number:**Link list subkey number.

**DSCP priority:**DSCP priority.

**IP priority:**IP priority.

**COS priority:**COS priority.

**Local priority:** local priority.

**Block0 priority:**Block0 priority.

**Block1 priority:**Block1 priority.

**Block2 priority:**Block2 priority.

**Block3 priority:**Block3 priority.

**Block4 priority:**Block4 priority.

**Runnning or not:**runnning or not

Click “ **add** “ button , add configuration item of priority tagged .

Click “ **delete** “ button , delete a configuration item of priority tagged .

Click “ **refresh** “ button , the system will acquire latest data from device once again.

Click “ **help** “ button , the system shows on-line help.

## 18.9 Message redirected configuration

Configuration interface as follows :

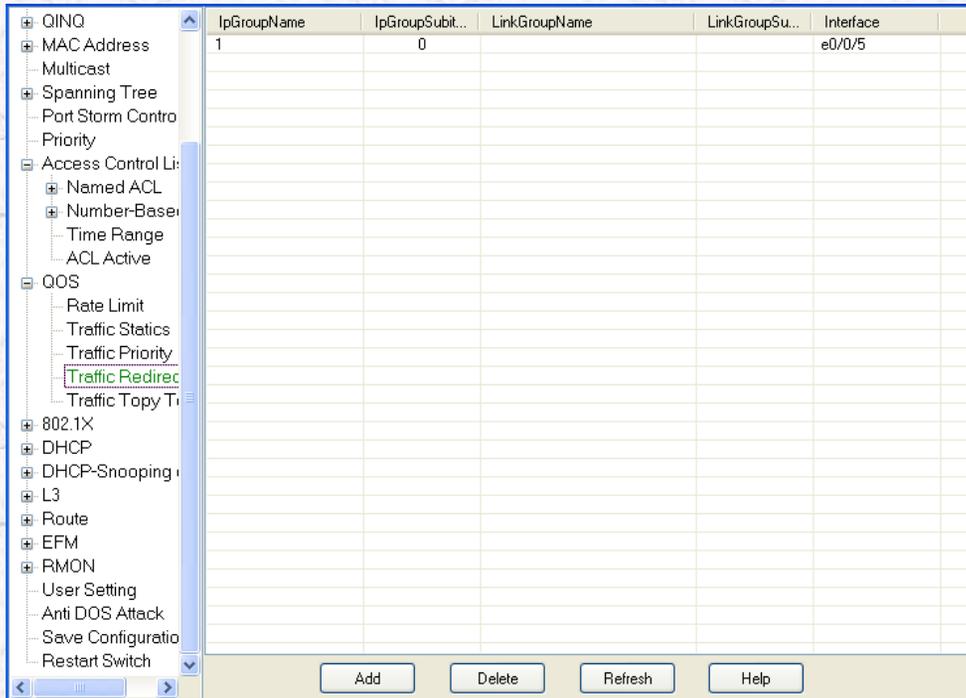


Figure18-10 Message redirected configuration interface

**User-defined list name:**user-defined list name.

**User-defined list subkey number:**user-defined list subkey number.

**IP list name:**IP list name.

**IP list subkey number:**IP list subkey number.

**Link list name:**Link list name.

**Link list subkey number:**Link list subkey number.

**DSCP priority:**DSCP priority.

**IP priority:**IP priority.

**COS priority:**COS priority.

**Local priority:** local priority.

**Block0 priority:**Block0 priority.

**Block1 priority:**Block1 priority.

**Block2 priority:**Block2 priority.

**Block3 priority:**Block3 priority.

**Block4 priority:**Block4 priority.

**Runnning or not:**runnning or not

Click “ **add** “ button , add configuration item of priority tagged .

Click “ **delete** “ button , delete a configuration item of priority tagged .

Click “ **refresh** “ button , the system will acquire latest data from device once again.

Click “ **help** “ button , the system shows on-line help.

## 18.10 Flow mirror configuration

Configuration interface as follows :

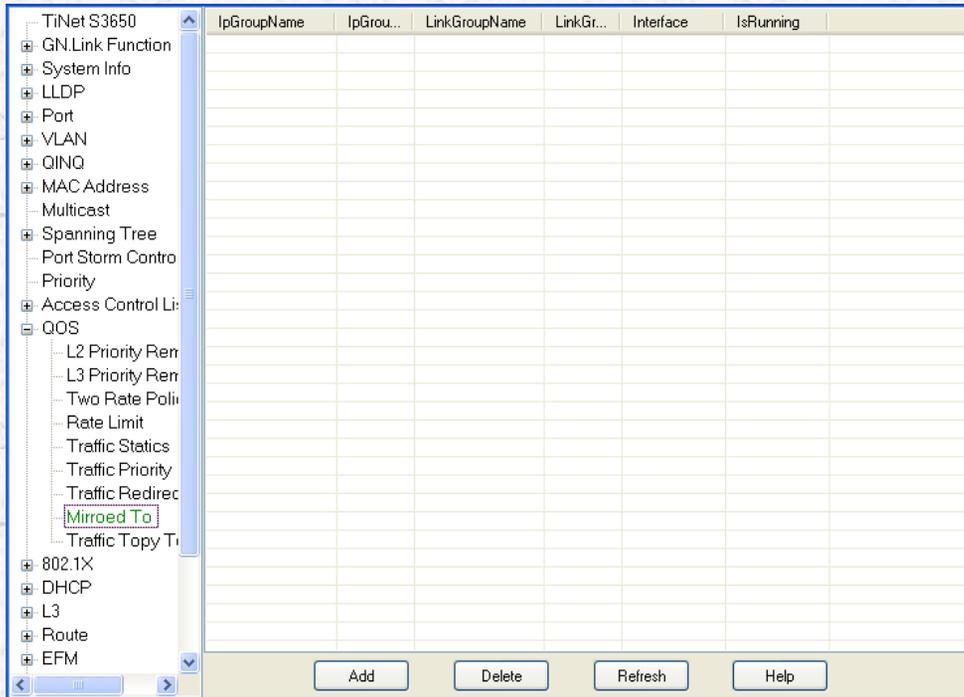


Figure18-11Flow mirror Configuration interface

**User-defined list name:**user-defined list name.

**User-defined list subkey number:**user-defined list subkey number.

**IP list name:**IP list name.

**IP list subkey number:**IP list subkey number.

**Link list name:**Link list name.

**Link list subkey number:**Link list subkey number.

**DSCP priority:**DSCP priority.

**IP priority:**IP priority.

**COS priority:**COS priority.

**Local priority:** local priority.

**Block0 priority:**Block0 priority.

**Block1 priority:**Block1 priority.

**Block2 priority:**Block2 priority.

**Block3 priority:**Block3 priority.

**Block4 priority:**Block4 priority.

**Runnning or not:**runnning or not

Click “ **add** “ button , add configuration item of priority tagged .

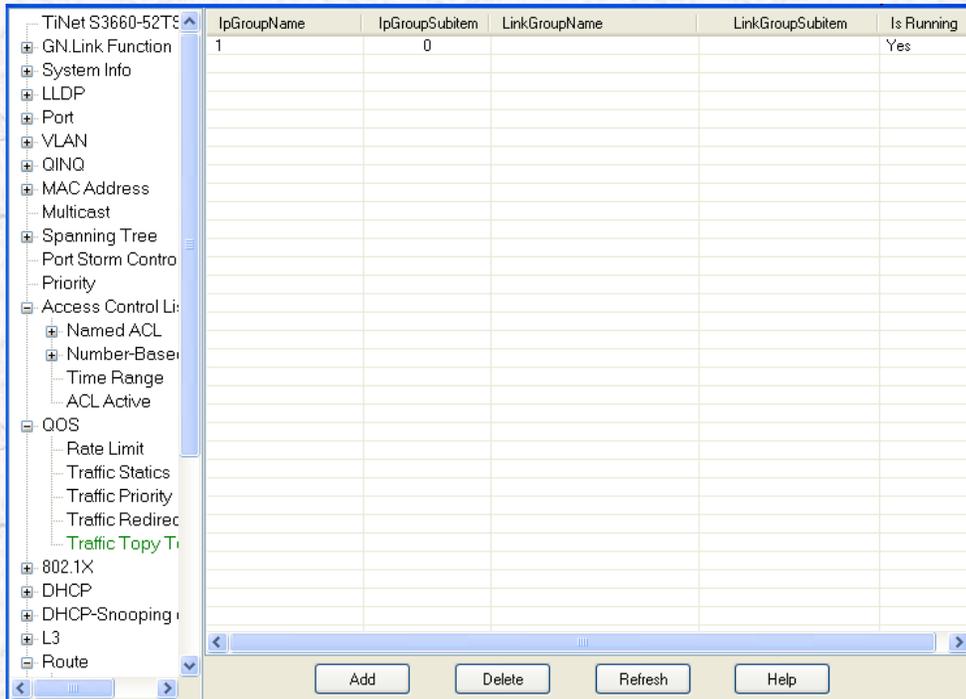
Click “ **delete** “ button , delete a configuration item of priority tagged .

Click “ **refresh** “ button , the system will acquire latest data from device once again.

Click “ **help** “ button , the system shows on-line help.

## 18.11 Message copying to CPU

Configuration interface as follows :



IpGroupName	IpGroupSubitem	LinkGroupName	LinkGroupSubitem	Is Running
1	0			Yes

Figure18-12 Message copying to CPU Configuration interface

**User-defined list name:**user-defined list name.

**User-defined list subkey number:**user-defined list subkey number.

**IP list name:**IP list name.

**IP list subkey number:**IP list subkey number.

**Link list name:**Link list name.

**Link list subkey number:**Link list subkey number.

**DSCP priority:**DSCP priority.

**IP priority:**IP priority.

**COS priority:**COS priority.

**Local priority:** local priority.

**Block0 priority:**Block0 priority.

**Block1 priority:**Block1 priority.

**Block2 priority:**Block2 priority.

**Block3 priority:**Block3 priority.

**Block4 priority:**Block4 priority.

**Runnning or not:**runnning or not

Click “ **add** “ button , add configuration item of priority tagged .

Click “ **delete** “ button , delete a configuration item of priority tagged .

Click “ **refresh** “ button , the system will acquire latest data from device once again.

Click “ **help** “ button , the system shows on-line help.

# 19 802.1x Configuration

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## 19.1 Basic configuration

The configuration item is the mode of operation that use configuration 802.1x protocol enable and EAP mode of operation. Configuration interface as follows :

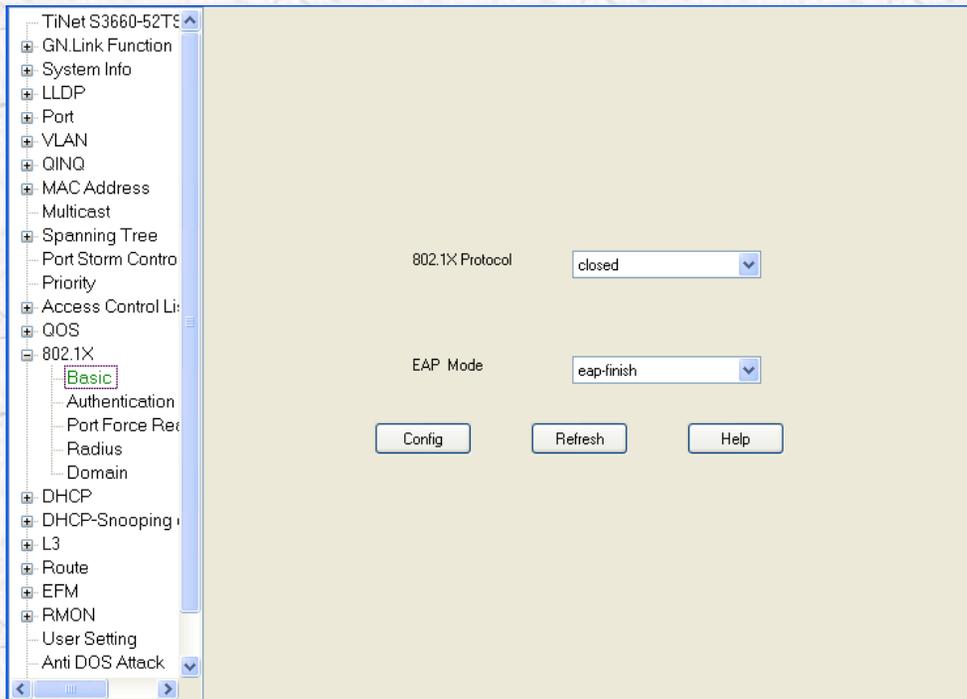


Figure19-1Basic configuration main interface

IEEE 802.1x is called access control protocol based on port (Port based network access control protocol),its main purpose is to solve difficulty of user's access authentication.

Function of 802.1x protocol has two items ,enable and disable.

mode of EAP operation has two items ,EAP to Radius and EAP over Radius.

EAP end (EAP to Radius):EAP message ends in TiNetS3026E, after authentication information is extracted from the EAP message,it's Packed tostandardized Radius message ,and is sent to Radius server for authentication ;

EAP retry (EAP over Radius):TiNetS3026E don't deal distinguishingly with EAP authentication message,and send directly it to Radius server authentication ;

Click “ **configuration** “ button , system configure the device,configuration result will be shown after configuration.

Click “ **refresh** “ button ,the system will acquire latest data from device once again.

Click “ **help** “ button , the system shows on-line help.

## **19.2Authentication port configuration**

The configuration item display and configure authentication attribute of port , includes control of port,port reauthentication period and whether port permit period reauthentication . Configuration interface as follows :

Port No	Port Control Mode	Re-Authenticate Period	Allow Re-Authentication
e0/0/1	auto	3600	No
e0/0/2	auto	3600	No
e0/0/3	auto	3600	No
e0/0/4	auto	3600	No
e0/0/5	auto	3600	No
e0/0/6	auto	3600	No
e0/0/7	auto	3600	No
e0/0/8	auto	3600	No
e0/0/9	auto	3600	No
e0/0/10	auto	3600	No
e0/0/11	auto	3600	No
e0/0/12	auto	3600	No
e0/0/13	auto	3600	No
e0/0/14	auto	3600	No
e0/0/15	auto	3600	No
e0/0/16	auto	3600	No
e0/0/17	auto	3600	No
e0/0/18	auto	3600	No
e0/0/19	auto	3600	No
e0/0/20	auto	3600	No
e0/0/21	auto	3600	No
e0/0/22	auto	3600	No
e0/0/23	auto	3600	No
e0/0/24	auto	3600	No
e0/0/25	auto	3600	No
e0/0/26	auto	3600	No
e0/0/27	auto	3600	No
e0/0/28	auto	3600	No
e0/0/29	auto	3600	No
e0/0/30	auto	3600	No
e0/0/31	auto	3600	No
e0/0/32	auto	3600	No

Figure19-2Port configuration main interface



**Notess:**

- 1 Port has three states, coerced not authorized state, auto and coerced authorized state;
- 2 Port reauthentication period range is from 1 to 3600 seconds;
- 3 Whether port permit period reauthentication, yes and not;
- 4 Only if mode of EAP operation is EAP over Radius, user can configure " port reauthentication period " and " whether port permit period reauthentication " ;

Select one line of table, configuration button, system pop up a parameter Configuration interface . as follows :

The image shows a configuration window with a light beige background and a blue border. It contains four rows of configuration options:

- Port No**: A text input field containing the value "e0/0/16".
- Port Control Mode**: A dropdown menu with "auto" selected.
- Re-Authenticate Period(1 - 3600) (Unit:second)**: A text input field containing the value "3600".
- Allow Re-Authentication**: A dropdown menu with "No" selected.

At the bottom of the window, there are two buttons: "Ok" on the left and "Cancel" on the right.

Figure19-3Parameter configuration interface

Click “**ok**” button , system configure device , configuration result will be shown after configuration.

Click “ **refresh** “ button ,the system will acquire latest data from device once again .

Click “ **help** “ button ,the system shows on-line help.

### 19.3Port coerced reauthentication configuration

The configuration item is for port coerced reauthentication . Configuration interface as follows :

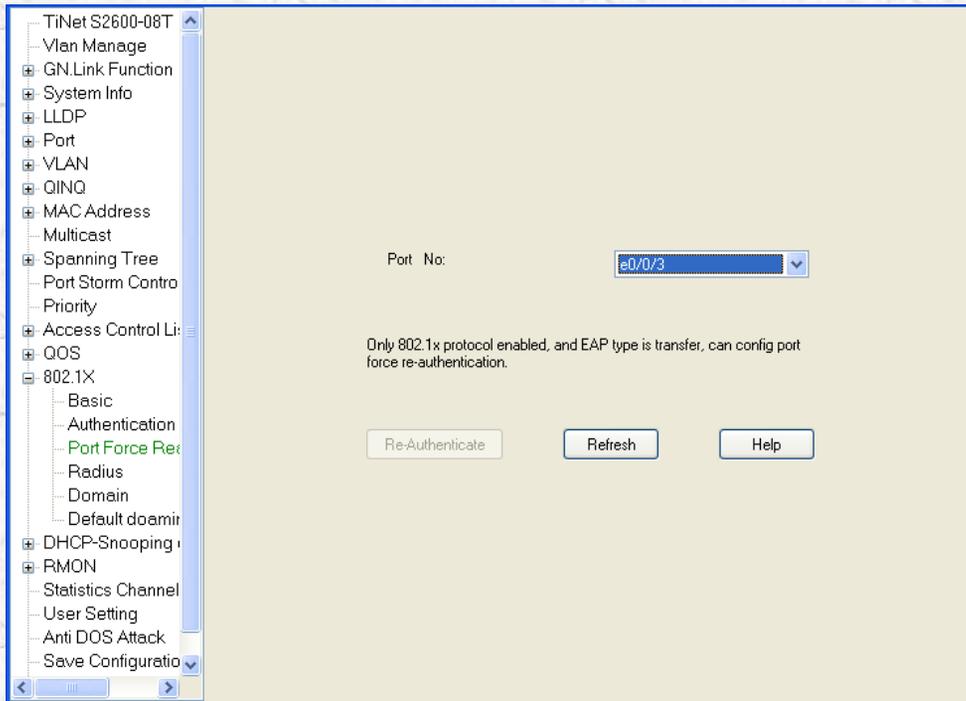


Figure19-4Port coerced reauthentication configuration main interface

There are from port-1 to port-8 and existing port in drop-down box of port number (Due to port of TiNetS3526 is modular, if not add the corresponding port module, then ports won't exist.).



Notess: only if 802.1x protocol is enabled and EAP mode is EAP over Radius, the item can be configured, but if not, "reauthentication" button isn't optional, click refresh button.

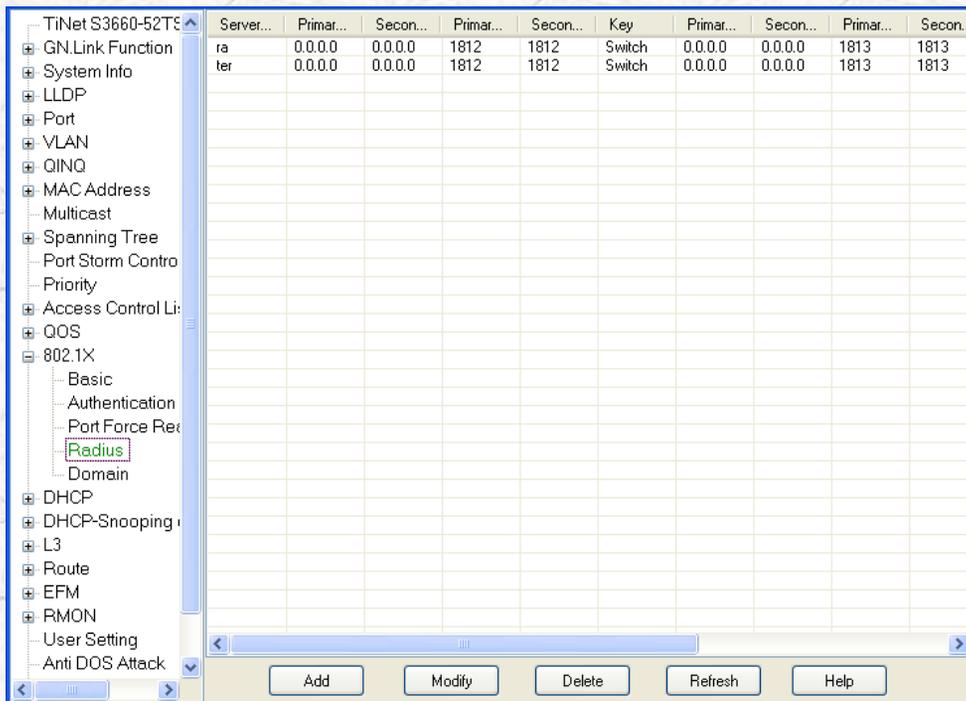
Click "**reauthentication**" button, system configure device, configuration result will be shown after configuration.

Click “ **refresh** ” button ,the system will acquire latest data from device once again.

Click “ **help** ” button ,the system shows on-line help.

## 19.4 Radius configuration

The configuration item can add ,edit and delete Radius server. as follows :



The screenshot displays the Radius configuration main interface. On the left is a tree view of configuration options, with 'Radius' selected under the '802.1X' category. The main area shows a table of configured Radius servers. The table has columns for Server Name, Primary IP, Secondary IP, Primary Port, Secondary Port, Key, and Primary/Secondary Authentication Ports. One server named 'ra' is listed with IP 0.0.0.0 and ports 1812 and 1813. Below the table are buttons for 'Add', 'Modify', 'Delete', 'Refresh', and 'Help'.

Server...	Primar...	Secon...	Primar...	Secon...	Key	Primar...	Secon...	Primar...	Secon...
ra	0.0.0.0	0.0.0.0	1812	1812	Switch	0.0.0.0	0.0.0.0	1813	1813

Figure19-5Radius configuration main interface



Notess:

1 Write name of Radius server ,no repeat;

- 2 Radius server name and share secret key are both forbid to input Chinese characters;
- 3 Radius server is forbid to be blank and be beyond 32 bytes;
- 4 Share secret key is forbid to be blank and be beyond 16 bytes;
- 5 If configure main IP address and back IP address up, user must write valid IP address ; authentication port and charging port range is from 1 to 65535;

Click ok” button ,system configure device,configuration result will be shown after configuration.

Click “ **refresh** “ button , the system will acquire latest data from device once again.

Click “ **help** “ button ,the system shows on-line help.

## **19.5 Domain name configuration**

The configuration item is for domain name configuration of Radius server ,add ,modified and delete the domain name item .as follows :

Domain Name	Server Name	Max Links	Current Links	Is Active
do	ra	32	0	No
dotest	ra	64	0	No

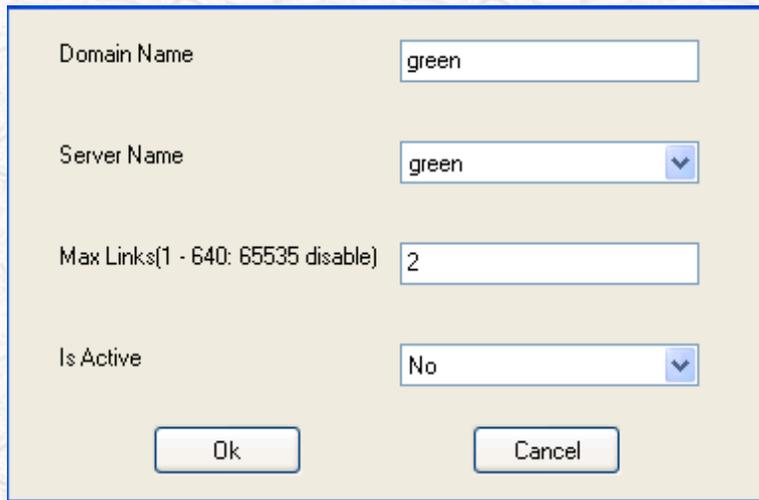
Figure19-6Domain name configuration main interface



**Notess:**

- 1 For this item configuration ,Radius server must exist, and corresponding configuration is in Radius configuration .
- 2 Device mostly support 10 item CM domain name settings, select a empty item to edit , and also edit the built - item ;
- 3 When delete the built CM domain name item,user can' t delete the empty item;

If the device has configured Radius server ,pop up the following .Configuration interface , as follows :



The image shows a parameter configuration interface with a light beige background and a blue border. It contains four rows of configuration fields and two buttons at the bottom. The first row is 'Domain Name' with a text input field containing 'green'. The second row is 'Server Name' with a drop-down menu showing 'green'. The third row is 'Max Links(1 - 640: 65535 disable)' with a text input field containing '2'. The fourth row is 'Is Active' with a drop-down menu showing 'No'. At the bottom, there are two buttons: 'Ok' on the left and 'Cancel' on the right.

Domain Name	<input type="text" value="green"/>
Server Name	<input type="text" value="green"/>
Max Links(1 - 640: 65535 disable)	<input type="text" value="2"/>
Is Active	<input type="text" value="No"/>

Figure19-7Parameter configuration interface

CM domain name is forbid to input Chinese characters,and be blank;

Radius server is a drop-down box,the drop-down box includes configured Radius server name;

Max connections is the number of user via the domain name connecting to Radius server, range is from 1 to 640;

“Active or not ”has two items ,yes and not;

Click “**OK**” button , system configure device,configuration result will be shown after configuration.

Click “ **refresh** “ button ,the system will acquire latest data from device once again.

Click “ **help** “ button ,the system shows on-line help.

## 19.6 Default domain name

Configuration interface as follows :

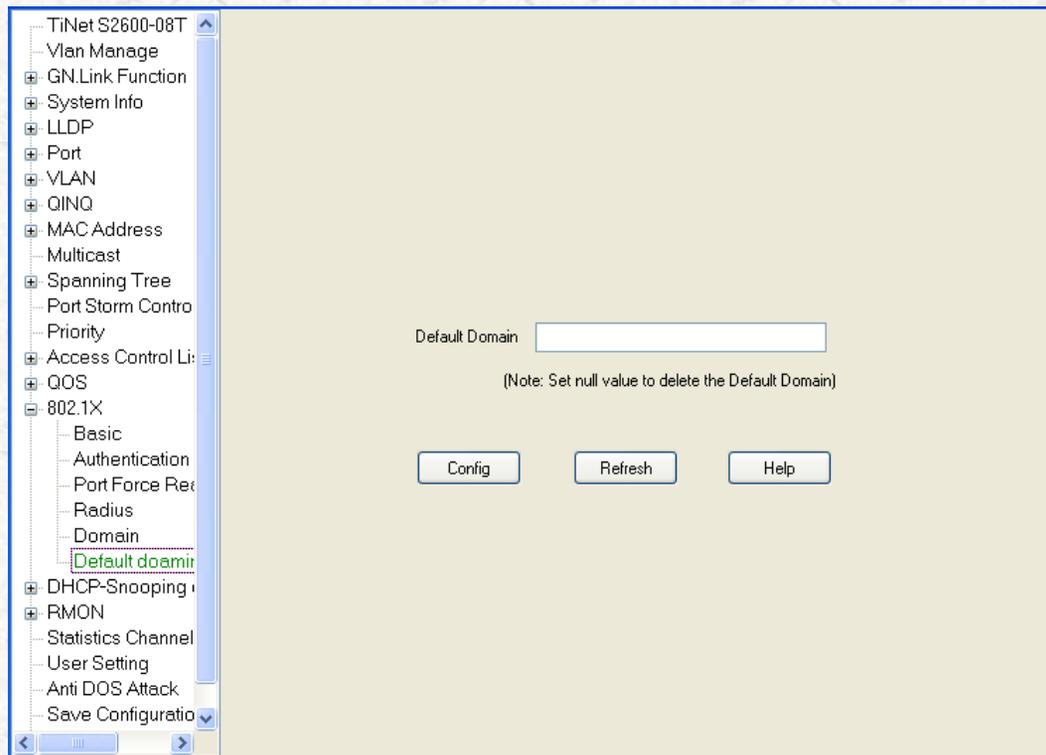


Figure19-8Default domain name configuration interface

Click “ **configuration** ” button , system configure device , configuration result will be shown after configuration.

Click “ **refresh** ” button ,the system will acquire latest data from device once

again.

Click “ **help** “ button ,the system shows on-line help.

## 20 DHCP

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Generally, DHCP message is broadcast message ,so layer-3 network frame and use DHCP to distribute IP address,there's a DHCP server in each broadcast domian.

### 20.1DHCP server configuration

Configuration interface as follow:

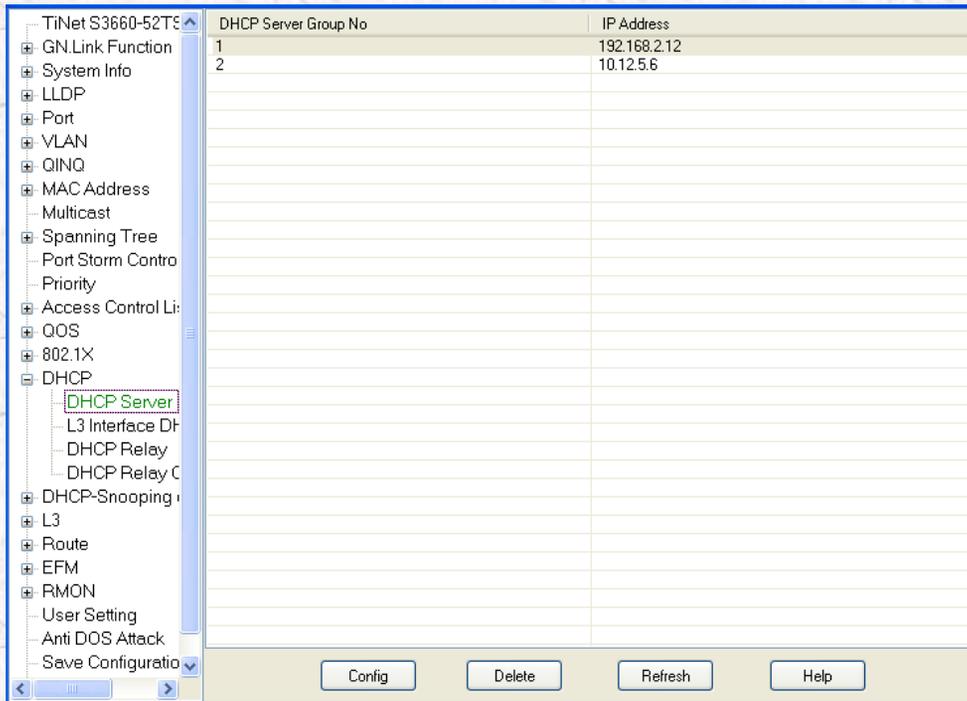


Figure20-1DHCP server configuration interface

Click “ **configuration** ” button ,pop up a parameter Configuration interface . as follows :

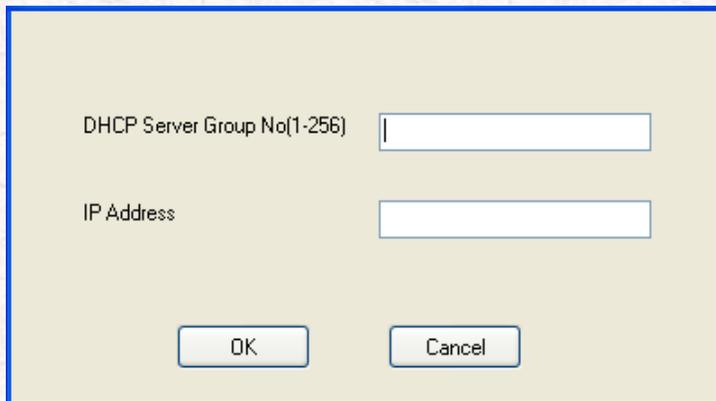
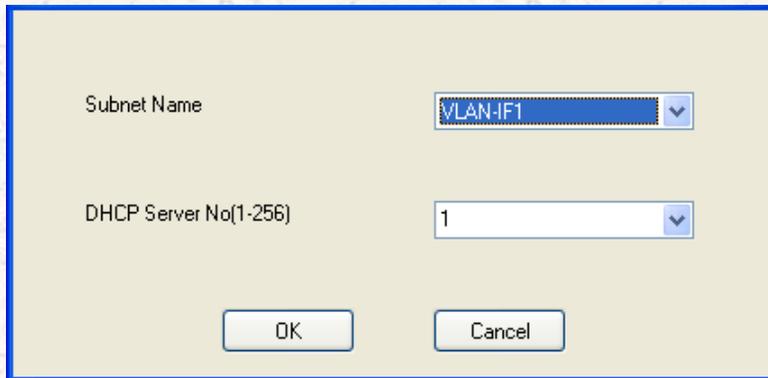


Figure20-2Parameter configuration interface



Figure20-3Layer-3 interface DHCP server configuration interface

Click “ **configuration** ” button ,pop up a parameter configuration interface . as follows :



The image shows a parameter configuration dialog box with a light beige background and a blue border. It contains two dropdown menus. The first is labeled 'Subnet Name' and has 'VLANIF1' selected. The second is labeled 'DHCP Server No(1-256)' and has '1' selected. At the bottom, there are two buttons: 'OK' and 'Cancel'.

Figure20-4Parameter configuration interface

Click “ **delete** ” button , system delete the selected DHCP server of layer-3 interface, configuration result will be shown after configuration.

Click “ **refresh** ” button , the system will acquire latest data from device once again .

Click”help” button , the system shows on-line help.

## 20.3DHCP relay configuration

Configuration interface as follows :

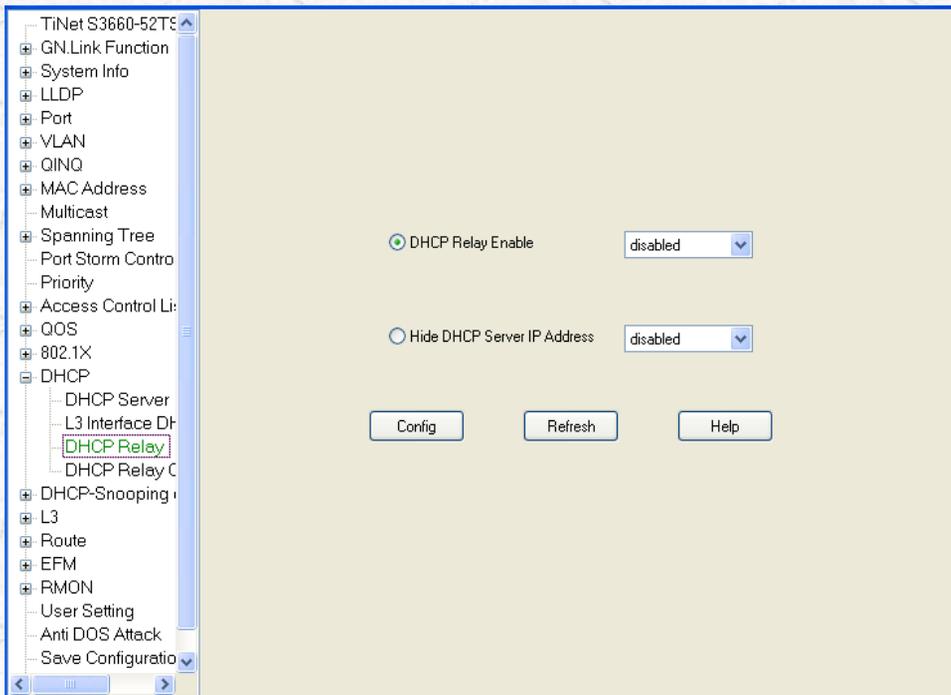


Figure20-5DHCP relay configuration interface

Click “ **configuration** ” button , system configure device, configuration result will be shown after configuration.

Click “ **refresh** ” button ,the system will acquire latest data from device once again.

Click “ **help** ” button ,the system shows on-line help.

## 20.4 DHCP relay option82 configuration

Configuration interface as follows:

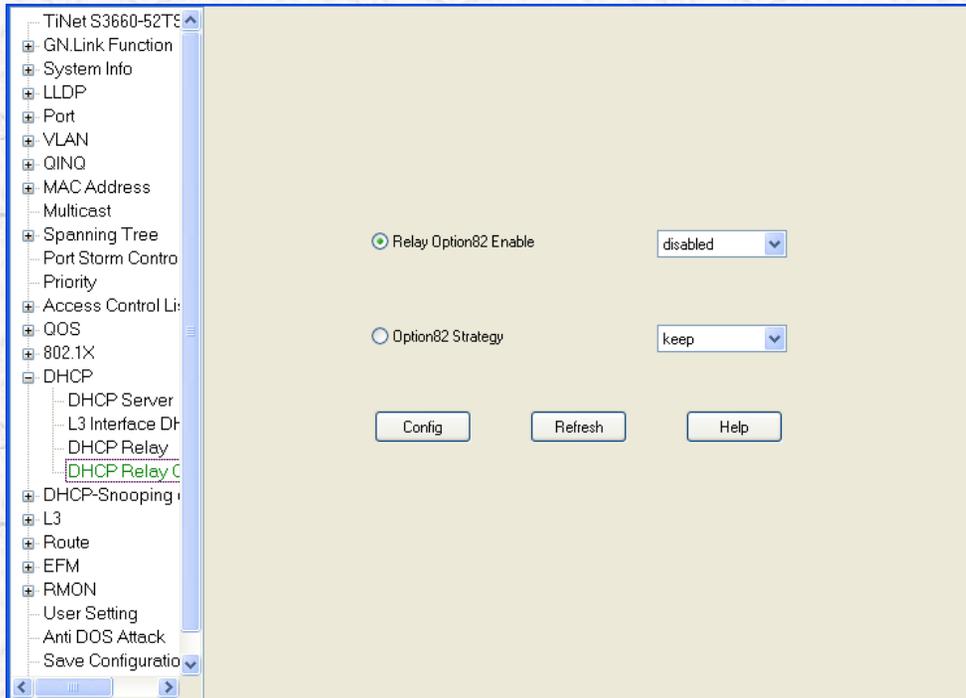


Figure20-6DHCP relay option82 configuration interface

Click “ **configuration** ” button , system configure device, configuration result will be shown after configuration.

Click “ **refresh** ” button ,the system will acquire latest data from device once again.

Click “ **help** ” button ,the system shows on-line help.

## 20.5 DHCP Port relay option82 configuration

Configuration interface as follows:

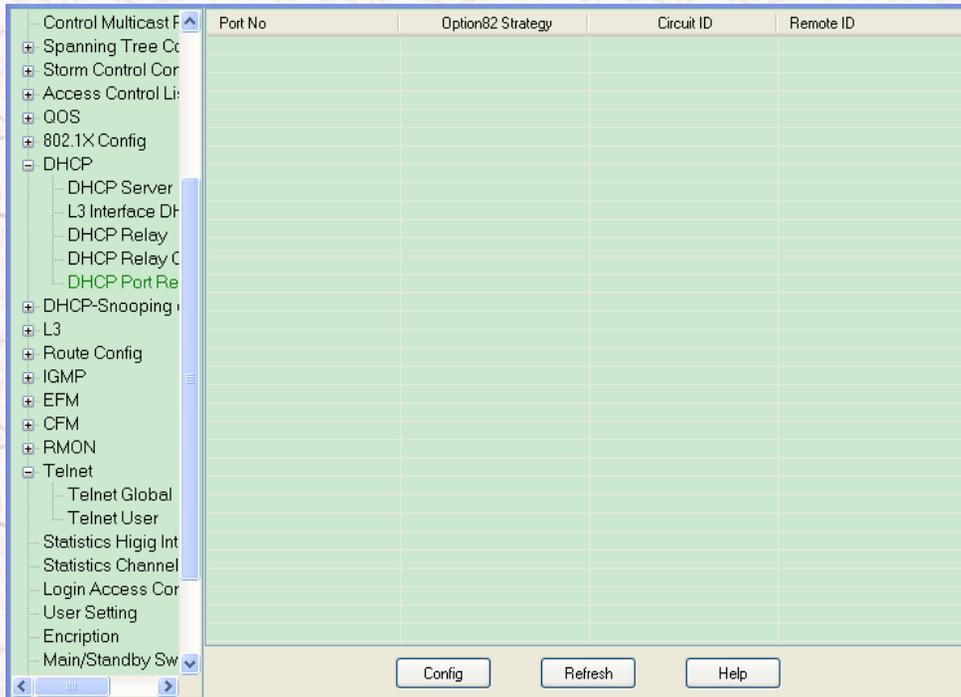


Figure20-7DHCP port relay option82 configuration interface

Click “ **configuration** ” button , system configure device, configuration result will be shown after configuration.

Click “ **refresh** ” button ,the system will acquire latest data from device once again.

Click “ **help** ” button ,the system shows on-line help.

## 21 DHCP-Snooping Configuration

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It's one function of the layer-2 ,and it allow the switch to monitor DHCP message ,record IP address information of user,the function can't synchronously run with DHCP Relay.After enable the function, switch filter all DHCP message from CPU and transmit from CPU in the layer 2.

To allow user get IP address via valid DHCP server ,DHCP SNOOPING includes trusted port and non- trusted port ,only the trusted port can receive DHCP message of DHCP server ,and avoid interfere of illegal DHCP server.

About security,DHCP SNOOPING also configure the maximum of DHCP client in one port or VLAN ,in case of preventing malicious asking attack.

### 21.1DHCP-Snooping on-off

Configuration interface as follows:

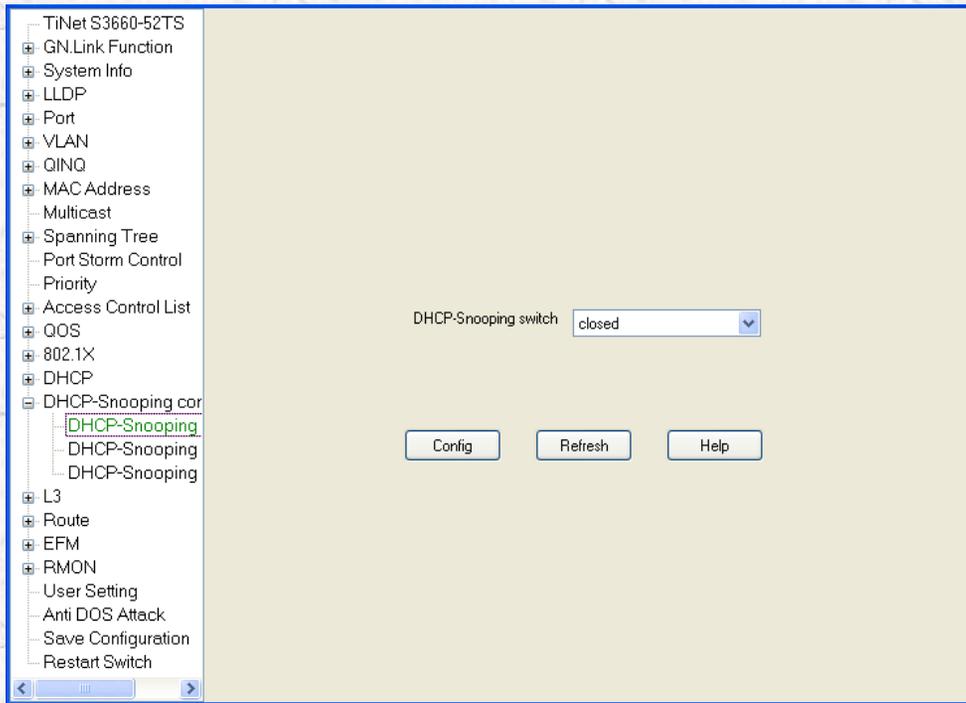


Figure21-1DHCP-Snooping on-off Configuration interface

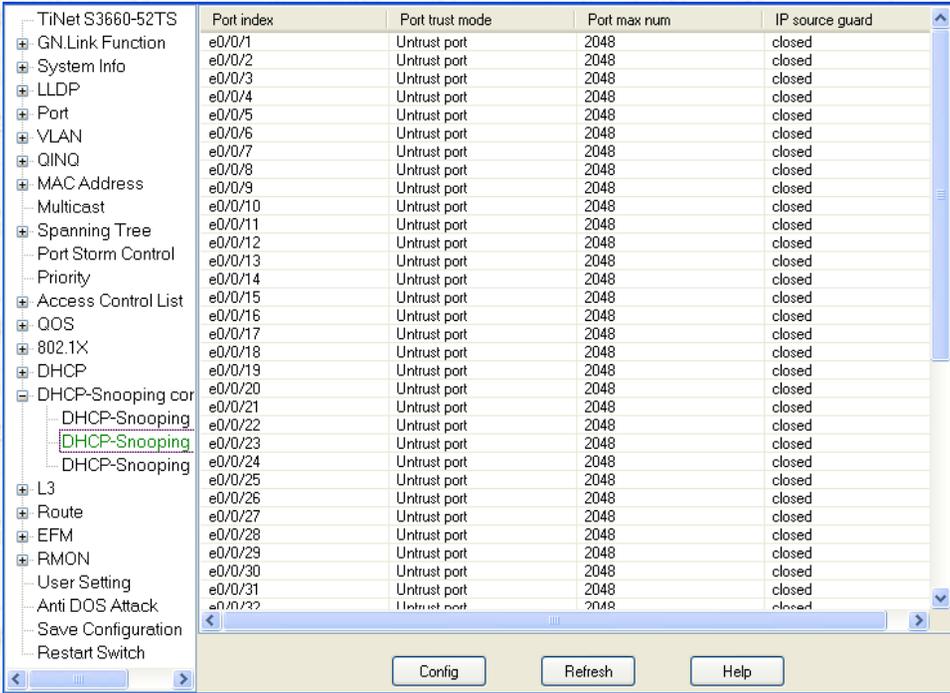
Click “ **configuration** ” button , system configure device, configuration result will be shown after configuration.

Click “ **refresh** ” button , the system will acquire latest data from device once again .

Click “ **help** ” button , the system shows on-line help.

## 21.2DHCP-Snooping port table

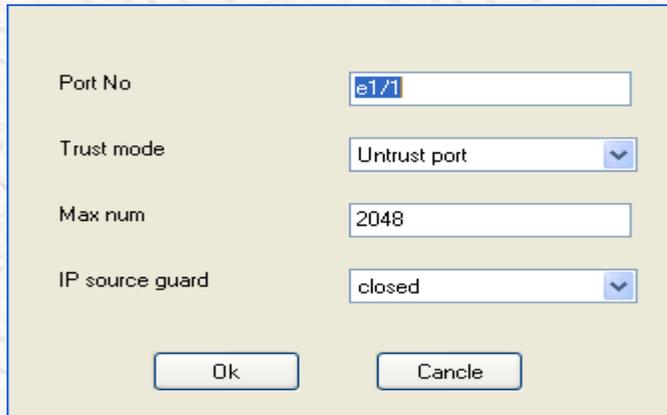
Configuration interface as follows:



	Port index	Port trust mode	Port max num	IP source guard
+	e0/0/1	Untrust port	2048	closed
+	e0/0/2	Untrust port	2048	closed
+	e0/0/3	Untrust port	2048	closed
+	e0/0/4	Untrust port	2048	closed
+	e0/0/5	Untrust port	2048	closed
+	e0/0/6	Untrust port	2048	closed
+	e0/0/7	Untrust port	2048	closed
+	e0/0/8	Untrust port	2048	closed
+	e0/0/9	Untrust port	2048	closed
+	e0/0/10	Untrust port	2048	closed
+	e0/0/11	Untrust port	2048	closed
+	e0/0/12	Untrust port	2048	closed
+	e0/0/13	Untrust port	2048	closed
+	e0/0/14	Untrust port	2048	closed
+	e0/0/15	Untrust port	2048	closed
+	e0/0/16	Untrust port	2048	closed
+	e0/0/17	Untrust port	2048	closed
+	e0/0/18	Untrust port	2048	closed
+	e0/0/19	Untrust port	2048	closed
+	e0/0/20	Untrust port	2048	closed
+	e0/0/21	Untrust port	2048	closed
+	e0/0/22	Untrust port	2048	closed
+	e0/0/23	Untrust port	2048	closed
+	e0/0/24	Untrust port	2048	closed
+	e0/0/25	Untrust port	2048	closed
+	e0/0/26	Untrust port	2048	closed
+	e0/0/27	Untrust port	2048	closed
+	e0/0/28	Untrust port	2048	closed
+	e0/0/29	Untrust port	2048	closed
+	e0/0/30	Untrust port	2048	closed
+	e0/0/31	Untrust port	2048	closed
+	e0/0/32	Untrust port	2048	closed

Figure21-2DHCP-Snooping port table Configuration interface

Click “ **configuration** “ button ,pop up a parameter Configuration interface . as follows :



The image shows a configuration window with a light beige background and a blue border. It contains four rows of configuration options:

- Port No**: A text input field containing "e1/1".
- Trust mode**: A dropdown menu with "Untrust port" selected.
- Max num**: A text input field containing "2048".
- IP source guard**: A dropdown menu with "closed" selected.

At the bottom of the window are two buttons: "Ok" on the left and "Cancel" on the right.

Figure21-3Parameter configuration interface

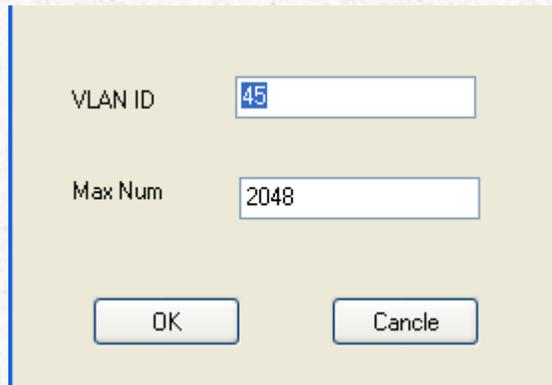
Click “ **refresh** “ button , the system will acquire latest data from device once again .

Click “help” button , the system shows on-line help.

## 21.3DHCP-Snooping Vlan table

Configuration interface as follow:





The image shows a parameter configuration interface with a light beige background and a blue border. It contains two text input fields. The first field is labeled "VLAN ID" and contains the number "45". The second field is labeled "Max Num" and contains the number "2048". Below the fields are two buttons: "OK" on the left and "Cancel" on the right.

VLAN ID	45
Max Num	2048

OK Cancel

Figure21-5Parameter configuration interface

Click “ **refresh** ” button , the system will acquire latest data from device once again .

Click “ help ” button , the system shows on-line help.

## 22 Layer-3 Function Configuration

---

TiNet S3526, TiNet S3650 and TiNet S3750 is 1G smart routing switch based on ASIC technology, can transmit in layer 2 and layer-3. Hosts are in the same VLAN transmitting in layer-2, while hosts are in the different VLAN transmitting in layer-3.

### 22.1 Layer3 interface configuration

Layer 3 interface includes ordinary VLAN interface and super VLAN interface, ordinary VLAN interface is interface that one VLAN creates, but super VLAN interface is what superVLAN creates (superVLAN is inexistent VLAN, which does not include any port), superVLAN maybe include many sub VLAN (sub VLAN existing VLAN). TiNet S3526 system at most create 32 layer-3 interface, in which superVLAN interface at most is 11; TiNet S3650 and TiNet S3750 system at most create 256 layer-3 interface, in which superVLAN interface at most is 128;

Each VLAN only belongs to one layer-3 interface, in the superVLAN, port can be one untagged member in one sub VLAN, and in other VLAN the port must be tagged member. Configuration interface as follows:



Subnet Name

VLAN-IF

superVLAN-IF

OK Cancel

Figure22-2Add layer 3 interface configuration interface

Click “ configuration sub Vlan”,to configure sub Vlan of superVLAN interface.Select ” add subVlan”, create subVlan;select ” delete subVlan”, delete the corresponding subvlan of superVLAN interface .click ”OK”, configuration result will be shown. Configuration interface as follows :

Subnet Name

Interface Index

Add SubVlan

Delete SubVlan

OK Cancel

Figure22-3Configuration subVlan interface

Click “ **refresh** ” button , the system will acquire latest data from device once again.

Click “ **help** ” button , the system shows on-line help .



Notess:if delete layer-3 interface ,user finish it in the command.

## 22.2IP address configuration

Each VLAN interface or superVLAN interface of TiNet S3526,TiNet S3650 at most configure 32 IP addresses ;TiNet S3750 at most configure 8 IP addresses .IP address of these interface can't be in the same network segment.The first configure IP address of interface is elected as main IP address ,after deleting the main IP address interface elect other IP address of interface to be the main IP address ,and also manually assign a configured other IP address to be main IP address .IP address configuration interface as follows :

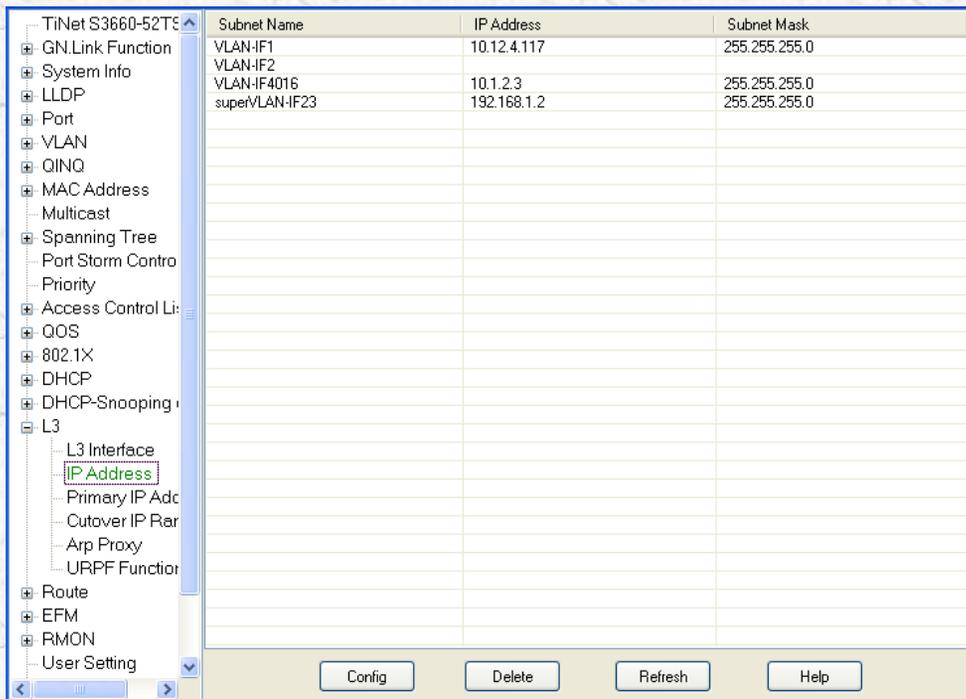
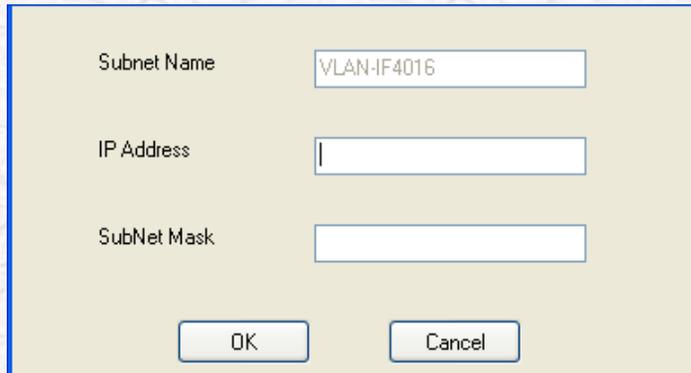


Figure22-4IP address configuration main interface

Click “ configuration “ button ,configure IP address for selected layer-3 interface .

Click ”OK”, configuration result will be shown. Configuration interface as follows :



Subnet Name

IP Address

SubNet Mask

Figure22-5IP address configuration interface

Click “ **delete** ” button ,delete selected IP address from interface .

Click “ **refresh** ” button ,the system will acquire latest data from device once again.

Click “ **help** ” button , the system shows on-line help.



Notess:the record of IP address and netmask is blank, it means that IP address of the interface is not configured .

## 22.3Main IP address configuration

The IP address configured is assigned for the main IP address of the interface .

Configuration interface as follows :

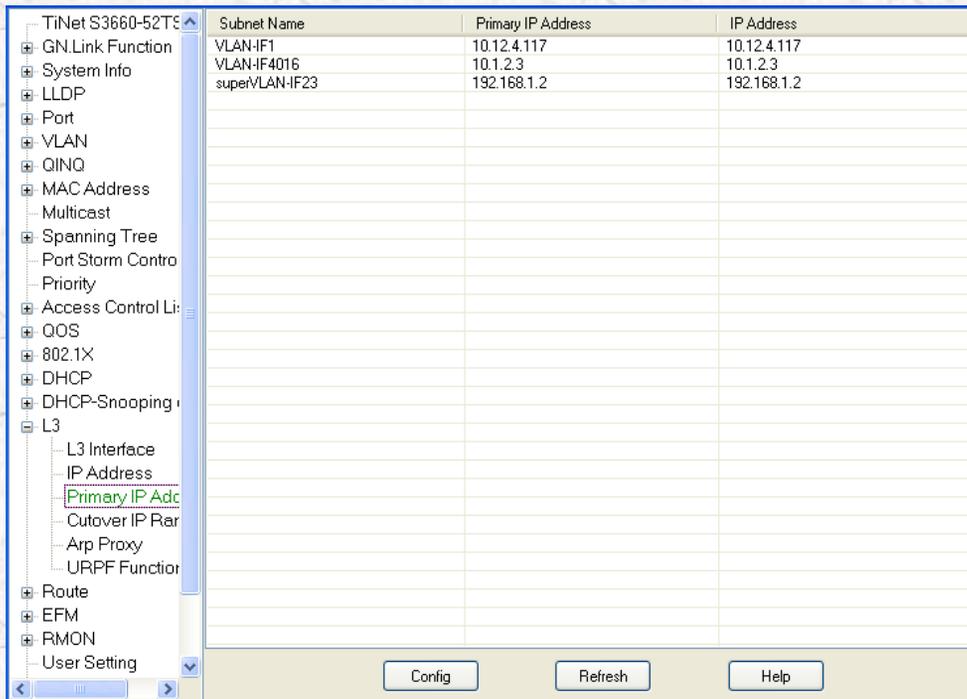


Figure22-6Main IP address Configuration interface

Click “ **configuration** ” button , assign selected IP address to be the main IP address of interface .

Click “ **refresh** ” button ,the system will acquire latest data from device once again.

Click “ **help** ” button ,the system shows on-line help .

## 22.4 Access IP address range

Each VLAN interface or superVLAN interface at most configure 8 access ranges , after access range is configured user's ARP can be learned in these range, and limit the access of user. Configuration interface as follows:

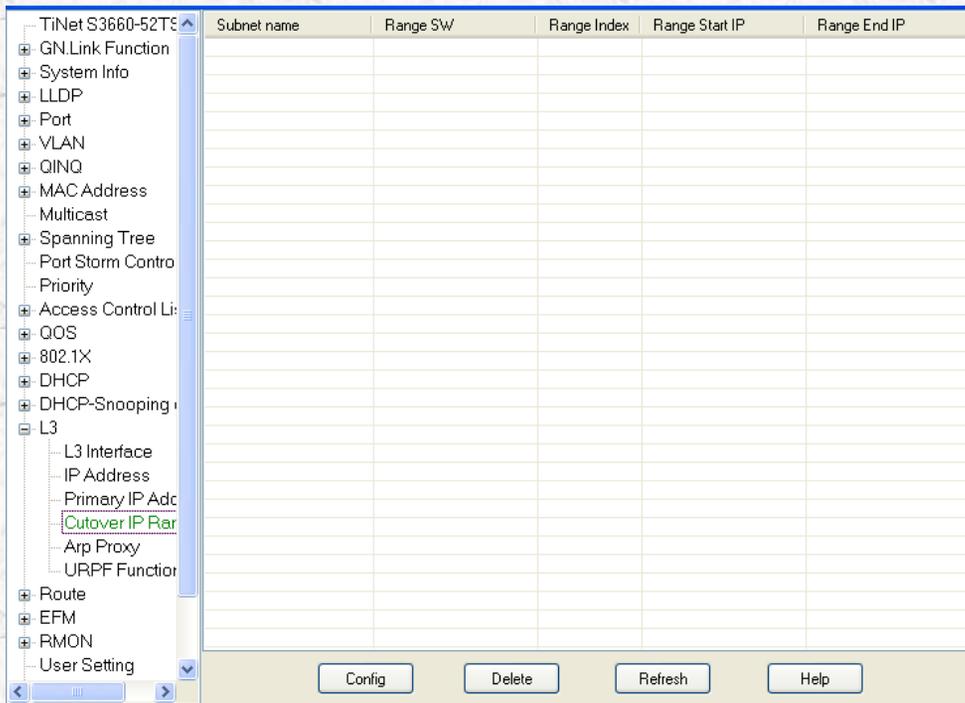
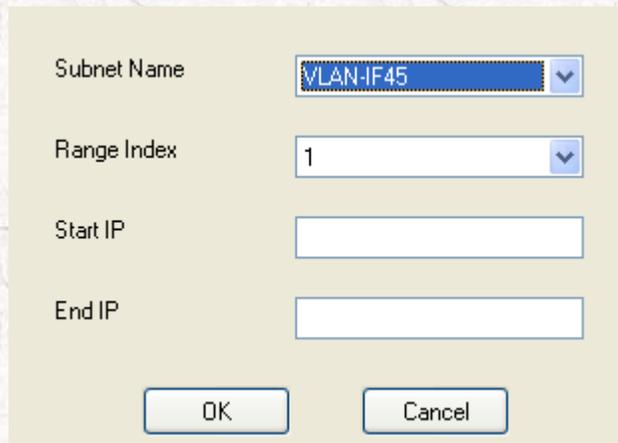


Figure 22-7 Access IP address range main interface

Click “ **configuration** ” button ,configure IP range for selected layer-3 interface .  
Configuration interface as follows :



Subnet Name: VLAN-IF45

Range Index: 1

Start IP: [Empty]

End IP: [Empty]

OK Cancel

Figure22-8Access IP address range configuration interface



Notes:the start of IP address must be less than the end of IP address .

Click “ **delete** ” button , delete IP address range .

Click “ **refresh** ” button ,the system will acquire latest data from device once again.

Click “ **help** ” button ,the system shows on-line help .

## 22.5ARP proxy configuration

Because ARP request message is boardcast message ,and can't pass through VLAN, if the ARP proxy function is enabled ,the ARP of hosts in subVLAN of the

same superVLAN interact .if ARP proxy is disabled,hosts in subVLAN of superVLAN interface can't communicate.The mode of ARP proxy includes :enable and disable. Configuration interface as follows :

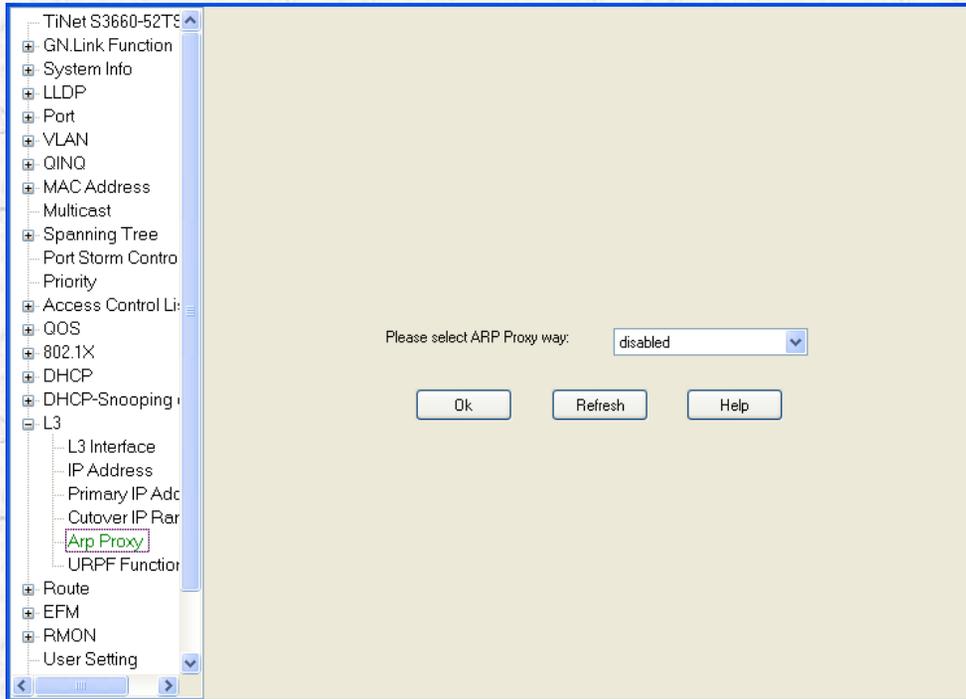


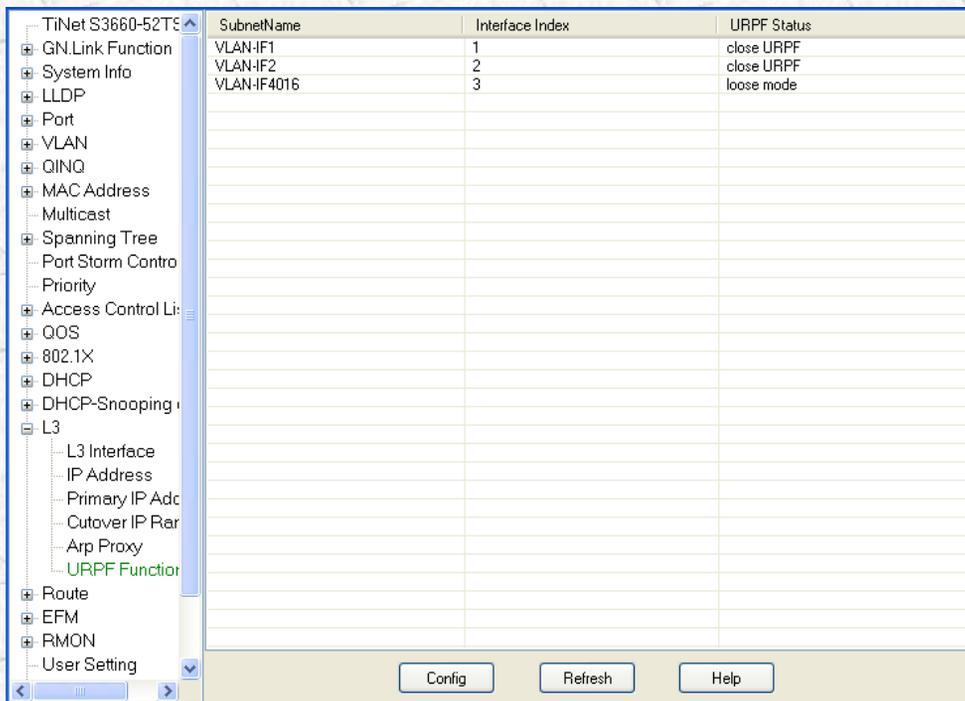
Figure22-9ARP proxy configuration interface

Click “ **refresh** ” button , the system will acquire latest data from device once again .

Click “ **help** ” button ,the system shows on-line help .

## 22.6 URPF function configuration

URPF is abbreviation for unicast Reverse Path Forwarding ( unicast Reverse Path Forwarding) ,its main function is to avoid network Spoofing attack based on source address.by acquired message of source address and incoming interface,URPF lookup the routing of corresponding source address in the routing table,taking source address as destination address ,if the message matches, transmit it,otherwise discard it.Configuration interface as follows :



SubnetName	Interface Index	URPF Status
VLAN-IF1	1	close URPF
VLAN-IF2	2	close URPF
VLAN-IF4016	3	loose mode

Figure22-10URPF function configuration main interface

Click “ **configuration** ” button ,set state of URPF.Its state includes three types:

1. Close URPF:is used to close URPF function of VLAN interface .

2.Strict mode (strict mode ):when lookuping routing table for detecting reverse path,there is a matched source address in the routing table,and outgoing interface of source address arrived data package is same as the incoming interface of data package.

3.Loose mode (loose mode ):when lookuping routing table for detecting reverse path, check that whether the source address of data package is in unicast routing table, and if it exists, it pass.

Configuration interface as follows :

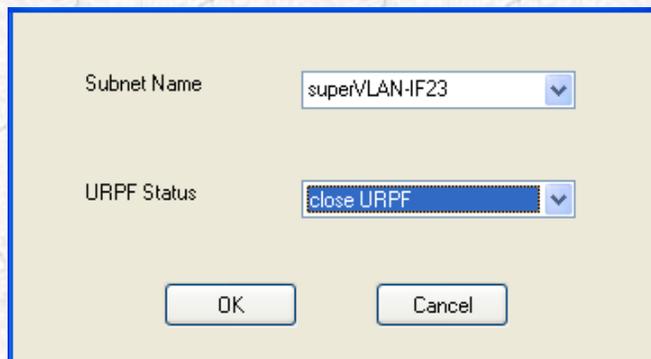
The image shows a configuration dialog box for URPF. It has a light beige background and a blue border. There are two dropdown menus. The first is labeled 'Subnet Name' and has 'superVLAN-IF23' selected. The second is labeled 'URPF Status' and has 'close URPF' selected. At the bottom, there are two buttons: 'OK' and 'Cancel'.

Figure22-11URPF function Configuration interface

Click “ **refresh** ” button ,the system will acquire latest data from device once again .

Click “ **help** ” button ,the system shows on-line help .

# 23 Mac Authentication

## 23.1 Global mode

### 23.1.1 Global mode on-off

Configuration interface as follows:

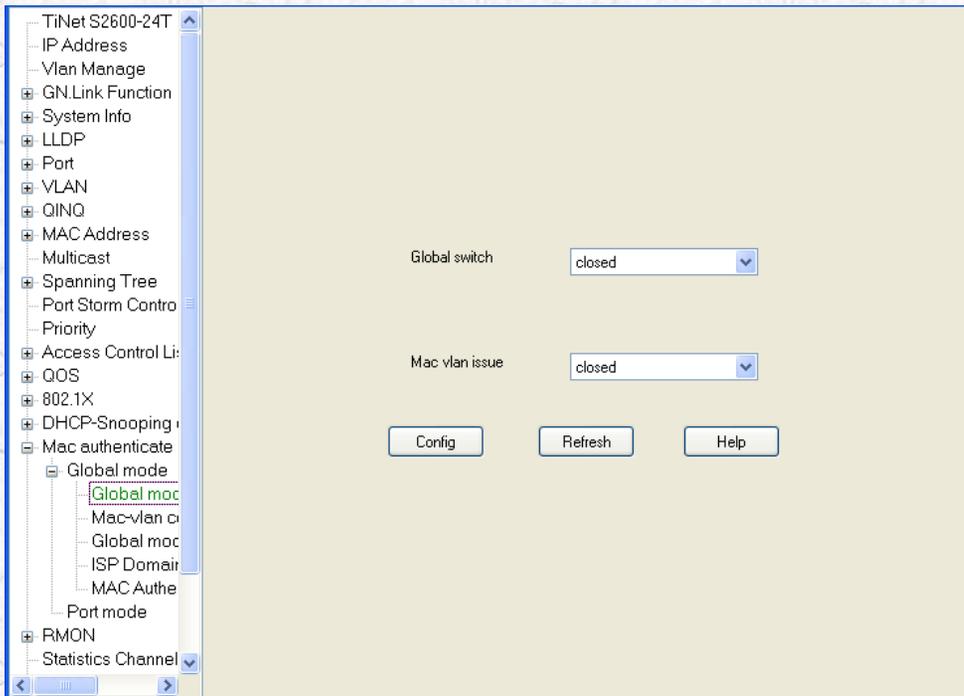


Figure23-1 Global mode on-off Configuration interface

Click “ **configuration** ” button , system configure device, configuration result will be shown after configuration.

Click “ **refresh** ” button ,the system will acquire latest data from device once again.

Click “ **help** ” button ,the system shows on-line help .

## 23.1.2 Mac-vlan configuration

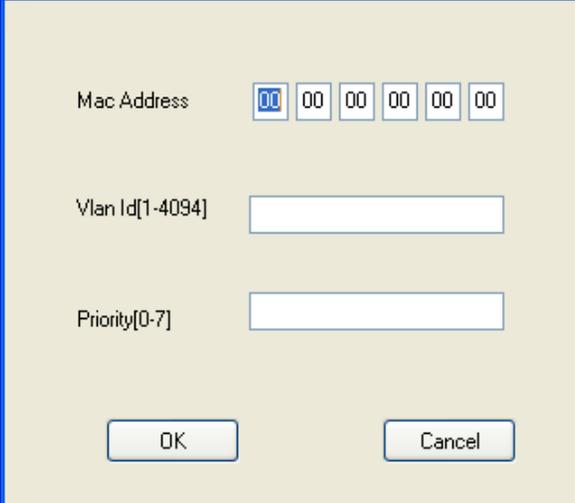
Configuration interface as follows:

The screenshot shows a network configuration interface for a device named 'TiNet S2600-24T'. The interface is divided into a left sidebar with a tree view of configuration options and a main content area. The tree view includes options like IP Address, Vlan Manage, GN.Link Function, System Info, LLDP, Port, VLAN, QINQ, MAC Address, Multicast, Spanning Tree, Port Storm Control, Priority, Access Control List, QOS, 802.1X, DHCP-Snooping, Mac authentication (with sub-options for Global mode and Port mode), and RMON. The 'Mac authentication' option is expanded, and 'Global mode' is selected, showing sub-options for 'Global mac', 'Mac-vlan configuration', and 'Global mac'. The 'Mac-vlan configuration' option is highlighted in green. The main content area is a table with three columns: 'MacAddress', 'VlanId', and 'Priority'. The table is currently empty. At the bottom of the interface, there are four buttons: 'Add', 'Delete', 'Refresh', and 'Help'.

MacAddress	VlanId	Priority
------------	--------	----------

Figure23-2Mac-vlan Configuration interface

Click “ **add** ” button ,pop up a parameter configuration interface as follows :



The image shows a parameter configuration dialog box with a light beige background and a blue border. It contains three input fields and two buttons. The first field is labeled 'Mac Address' and contains six boxes, each with '00'. The second field is labeled 'Vlan Id[1-4094]' and is empty. The third field is labeled 'Priority[0-7]' and is empty. At the bottom, there are two buttons: 'OK' and 'Cancel'.

Figure23-3Parameter configuration interface

Click “ **delete** ” button , system delete selected Mac-vlan item ,configuration result will be shown after configuration.

Click “ **refresh** ” button , the system will acquire latest data from device once again .

Click “ **help** ” button , the system shows on-line help.

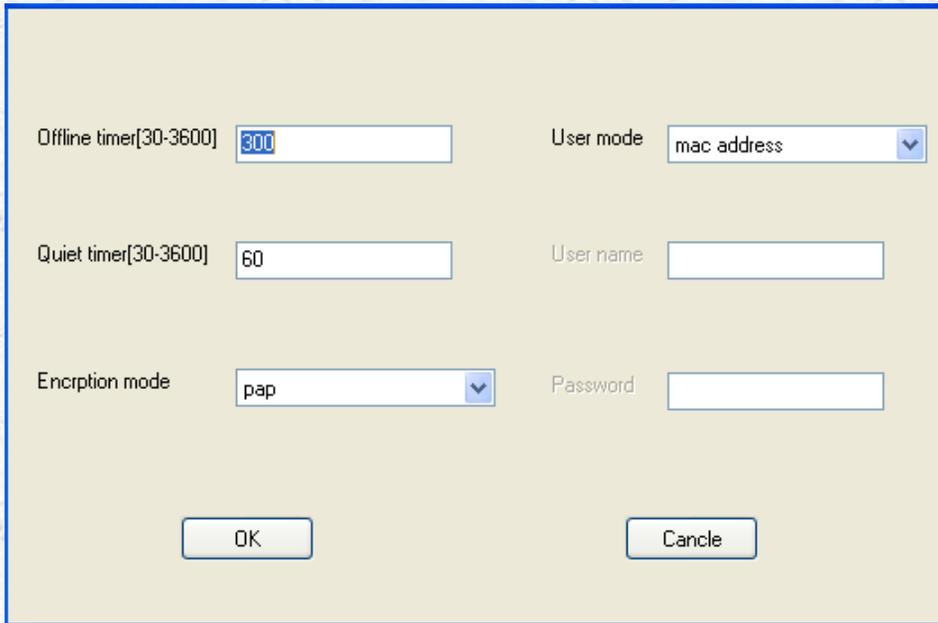
## 23.1.3 Global mode configuration

Configuration interface as follows:

	offlineTimer	quietTimer	userMode	userName	password	encryptionMode
IP Address	300	60	mac address			pap
Vlan Manage						
GN Link Function						
System Info						
LLDP						
Port						
VLAN						
QINQ						
MAC Address						
Multicast						
Spanning Tree						
Port Storm Control						
Priority						
Access Control List						
QOS						
802.1X						
DHCP-Snooping						
Mac authentication						
Global mode						
Global mode						
Mac-vlan						
Global mode						
ISP Domain						
MAC Authentication						
Port mode						
RMON						
Statistics Channel						

Figure23-4Global mode Configuration interface

Click “ **configuration** “ button ,pop up a parameter configuration interface as follows :



The image shows a parameter configuration interface with a light beige background and a blue border. It contains the following fields and controls:

- Offline timer[30-3600]:** A text input field containing the value "300".
- User mode:** A dropdown menu with "mac address" selected.
- Quiet timer[30-3600]:** A text input field containing the value "60".
- User name:** An empty text input field.
- Encription mode:** A dropdown menu with "pap" selected.
- Password:** An empty text input field.
- OK:** A button located at the bottom left.
- Cancel:** A button located at the bottom right.

Figure23-5Parameter configuration interface

Click “ **refresh** ” button , the system will acquire latest data from device once again .

Click”help” button , the system shows on-line help.

### **23.1.4 ISP domain name configuration**

Configuration interface as follows:

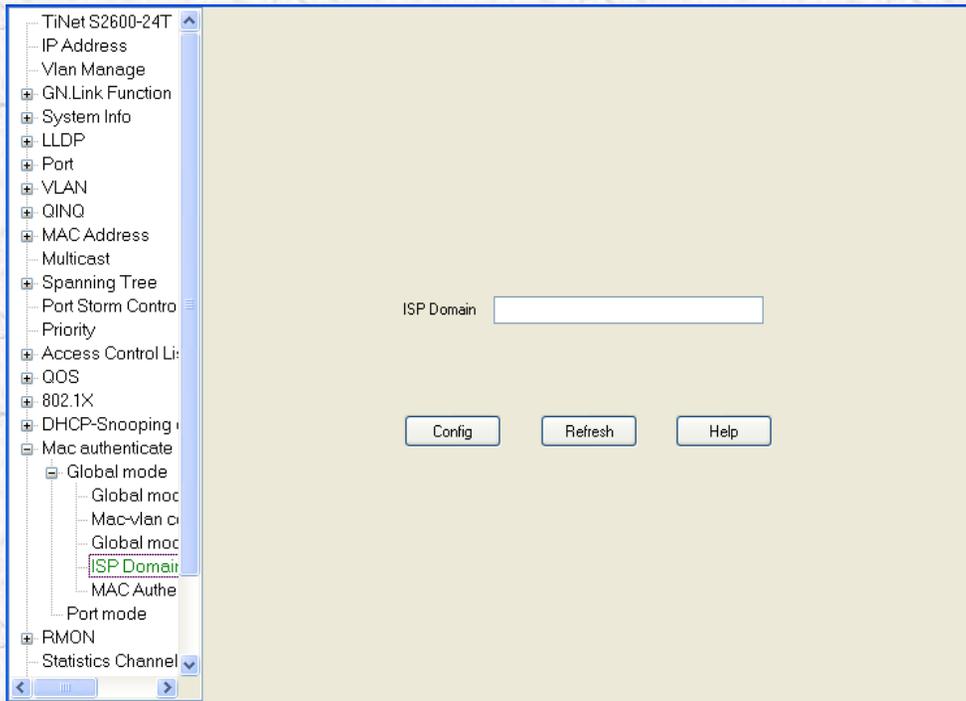


Figure23-6ISP domain name Configuration interface

Click “ **configuration** ” button , system configure device, configuration result will be shown after configuration.

Click “ **refresh** ” button , the system will acquire latest data from device once again .

Click “ **help** ” button , the system shows on-line help.

### 23.1.5 MAC authentication user information

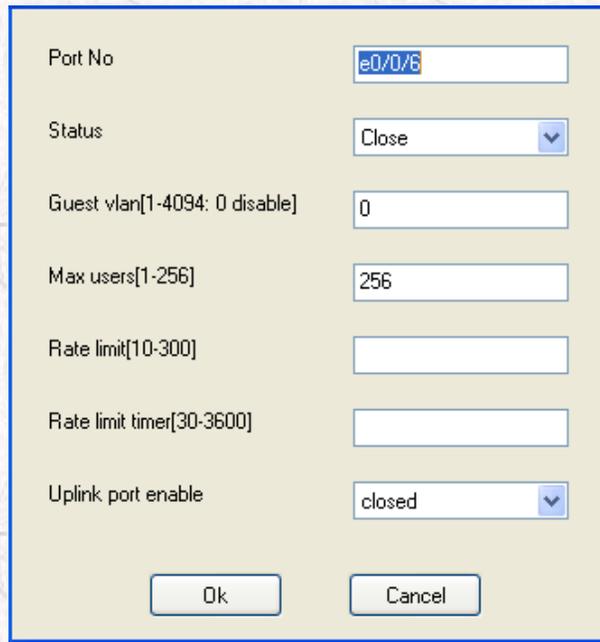
Configuration interface as follows:



	Port No	Auth Status	Guest vlan	Max users	Rate limit	Rate limit timer	Uplink port ...
TiNet S2600-24T							
IP Address	e0/0/1	Close	Closed	256			closed
Vlan Manage	e0/0/2	Close	Closed	256			closed
+ GN.Link Function	e0/0/3	Close	Closed	256			closed
+ System Info	e0/0/4	Close	Closed	256			closed
+ LLDP	e0/0/5	Close	Closed	256			closed
+ Port	e0/0/6	Close	Closed	256			closed
+ VLAN	e0/0/7	Close	Closed	256			closed
+ QINQ	e0/0/8	Close	Closed	256			closed
+ MAC Address							
Multicast							
+ Spanning Tree							
Port Storm Control							
Priority							
+ Access Control List							
+ QOS							
+ 802.1X							
+ DHCP-Snooping cor							
+ Mac authenticate							
+ Global mode							
+ <b>Port mode</b>							
+ RMON							
Statistics Channel-Gr							
User Setting							
FTP							
Save Configuration							
Restart Switch							

Figure23-8Port mode Configuration interface

Click “ **configuration** ” button ,pop up a parameter configuration interface as follows :



The image shows a parameter configuration interface dialog box with a light beige background and a blue border. It contains the following fields and controls:

Port No	<input type="text" value="e0/0/6"/>
Status	<input type="button" value="Close"/>
Guest vlan[1-4094: 0 disable]	<input type="text" value="0"/>
Max users[1-256]	<input type="text" value="256"/>
Rate limit[10-300]	<input type="text"/>
Rate limit timer[30-3600]	<input type="text"/>
Uplink port enable	<input type="button" value="closed"/>

At the bottom of the dialog are two buttons: "Ok" and "Cancel".

Figure23-9Parameter configuration interface

Click “ **refresh** ” button , the system will acquire latest data from device once again .

Click “ **help** ” button , the system shows on-line help.

## 24 Routing Configuration

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### 24.1 Routing table lookup and configuration

TiNet S3526, TiNet S3650, TiNet S3750 and EL5600 are 10G smart routing switch based on ASIC technology, and its system inside support layer-3 routing table, which are used to indicate the address and related information of the next hop forward to one destination, and which are learned dynamically from the routing protocol, which are added manually. The static routing are appointed routing forward to one or a segment of address added manually. The configuration item is used to configured static routing, which is used to show synchronously the related information of routing table. Configuration interface as follows:

	Route Dest	Route Mask	Route Next Hop	Subnet Name	Route Proto	Route Metr...
	0.0.0.0	0.0.0.0	10.12.4.1	VLAN-IF1	static	0
	10.12.4.0	255.255.255.0	10.12.4.117	VLAN-IF1	local	0
	10.12.4.117	255.255.255.255	10.12.4.117	LoopBack	other	0
	127.0.0.0	255.0.0.0	127.0.0.1	LoopBack	other	0
	127.0.0.1	255.255.255.255	127.0.0.1	LoopBack	other	0

Figure24-1 Routing table and Configuration interface

Click “ **configuration** ” button ,and pop a parameter Configuration interface up.as follows :

The image shows a parameter configuration interface with a light beige background and a blue border. It contains three input fields: 'Route Dest', 'Route Mask', and 'Route Next Hop'. Below these fields are two buttons: 'OK' and 'Cancel'.

Route Dest	<input type="text"/>
Route Mask	<input type="text"/>
Route Next Hop	<input type="text"/>

Figure24-2Parameter configuration interface

Destination address can't be in the same subnet and the address of next hop must be in the IP address range of layer-3 interface.

Click “ **delete** ” button , system will delete the selected static routing, configuration result will be shown after configuration.

Click “ **refresh** ” button , the system will acquire latest data from device once again .

Click “ **help** ” button , the system shows on-line help .

## 24.2RIP configuration

### 24.2.1 RIP function configuration

The Configuration interface is used to configure initiating RIP of device , route

aggregation function and Host route function. Configuration interface as follows:

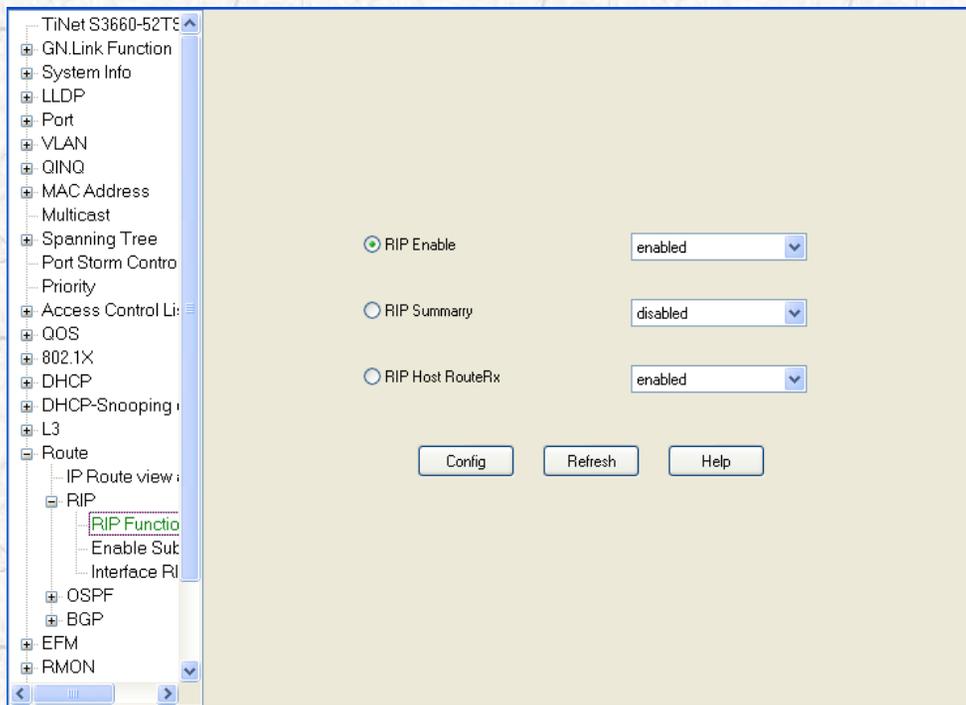


Figure24-3RIP function Configuration interface

Click “ **configuration** ” button , system start to configure device, configuration result will be shown after configuration.

Click “ **refresh** ” button , the system will acquire latest data from device once again .

Click “ **help** ” button ,the system shows on-line help .

## 24.2.2 IP network segment configuration

By default,RIP protocol is not in operation on any interface after RIP is enabled,and only if administrator specify that RIP protocol is enabled in some IP network segment,its interface can Send and receive RIP message ,and firstly enable RIP.Configuration interface as follows:

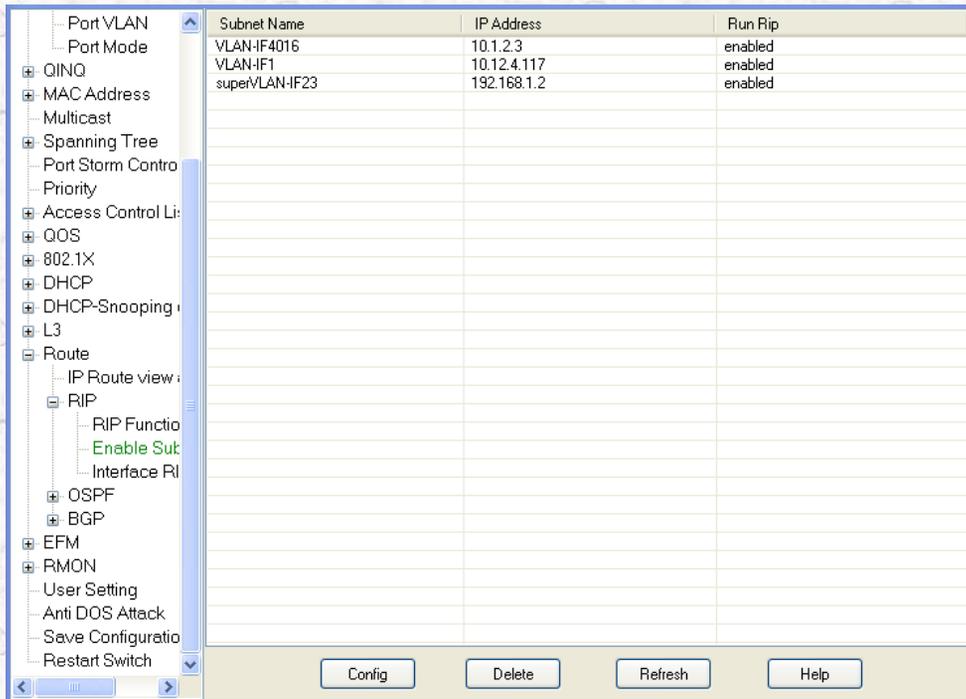
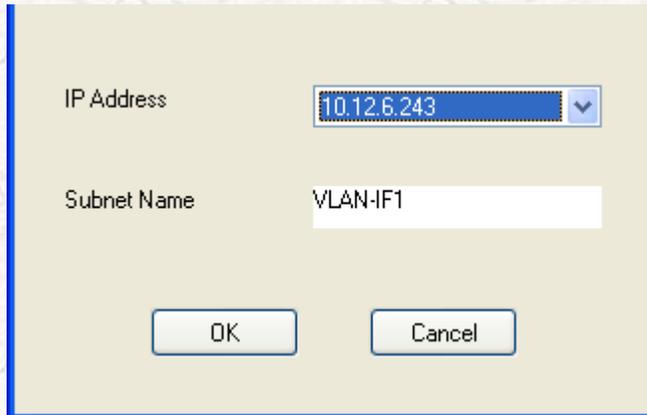


Figure24-4IP network segment Configuration interface

Click “ **configuration** “ button ,and pop a parameter Configuration interface up.  
as follows :



IP Address 10.12.6.243

Subnet Name VLAN-IF1

OK Cancel

Figure24-5IP network segment parameter configuration interface

Click “ **delete** ” button , system will cancel RIP protocol running in IP network segment , configuration result will be shown after configuration.

Click “ **refresh** ” button , the system will acquire latest data from device once again .

Click “ **help** ” button ,the system shows on-line help .

### 24.2.3 Port RIP configuration

Configuration interface as follows:

The screenshot shows a network configuration interface for a TiNet S3660-52T8. The left sidebar contains a tree view with the following items: GN.Link Function, System Info, LLDP, Port, VLAN, QINQ, MAC Address, Multicast, Spanning Tree, Port Storm Control, Priority, Access Control List, QOS, 802.1X, DHCP, DHCP-Snooping, L3, Route, IP Route view, RIP, RIP Function, Enable Subnet, Interface, OSPF, BGP, EFM, and RMON. The 'RIP' item is expanded, and 'Interface' is selected. The main area displays a table with the following data:

Subnet Name	IP Address	Rip Split	Rip MetricIn	Rip MetricOut
VLAN-IF4016	10.1.2.3	enabled	0	0
VLAN-IF1	10.12.4.117	enabled	0	0
superVLAN-IF23	192.168.1.2	enabled	0	0

At the bottom of the interface, there are three buttons: 'Config', 'Refresh', and 'Help'.

Figure24-6Port RIP Configuration interface

Click “**configuration**” button ,and pop a parameter configuration interface up.  
as follows :

IP Address	10.12.6.243
Subnet Name	VLAN-IF1
<input checked="" type="radio"/> Rip Split	enabled
<input type="radio"/> Rip MetricIn(0-16: 0 disable)	0
<input type="radio"/> Rip MetricOut(0-16: 0 disable)	0

OK Cancel

Figure24-7Port RIP parameter configuration interface

**Split horizon:**means that the interface don't send the routing learned from itself,and avoid routing loop.But in special conditions,there's a need to forbid split horizon,and exchanged efficiency for correct routing.By default,split horizon is enabled in any interface.

**Additional route Weights :**value range is from 0 to 16,0 is the additional route Weights as a result of forbidding receiving and sending RIP message.additional route Weights (Routing Metric) is the inputing or outputing value added for routing with RIP, additional route Weights don't change directly route Weights value of routing table,but add a appointed weight when receiving or sending routing.

Click “ **refresh** “ button ,the system will acquire latest data from device once again .

Click “ help “ button ,the system shows on-line help .

## 24.3 OSPF Configuration

### 24.3.1 OSPF Function Configuration

Configuration interface as shown below:

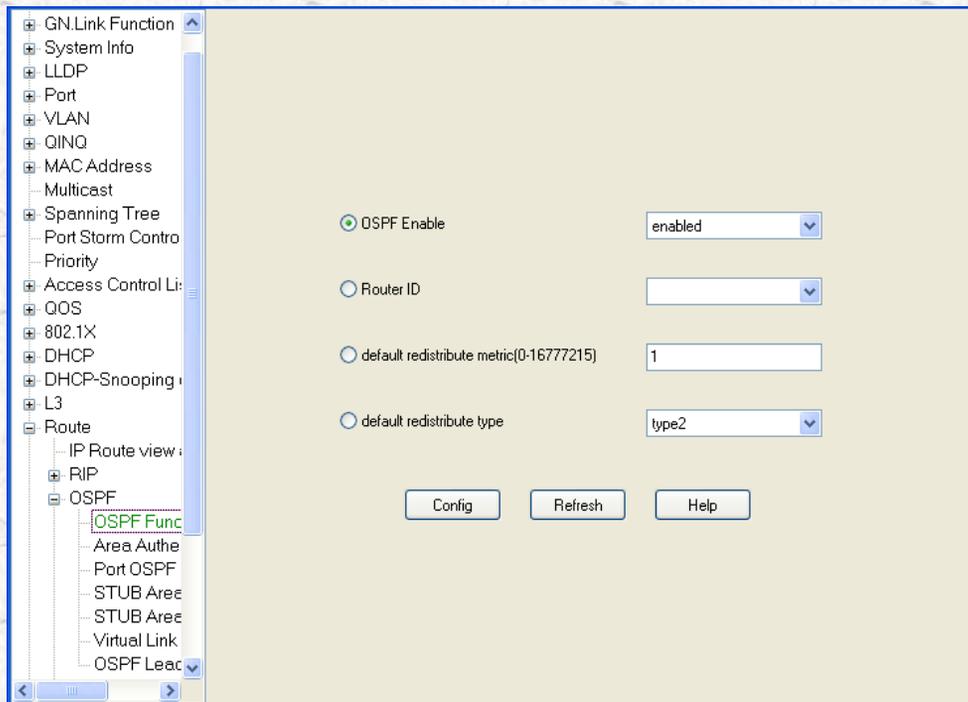


Figure24-8OSPF Function configure interface

**Router ID:**Router ID is a 32 byte intergeral number without symbols wghich is the unique sign of a router in autonomy system and user must configure it. Configuring router ID manually must guarantee the router ID of any two routers

are different. Generally, configure router ID to be the same as the IP address of some interface of router.

**Default redistribute nmetric:** Ranges from 0 to 16777215.

Click the '**Config**':The system began to configure the device configuration after configuration results is given.

Click the '**Refresh**':The system will re-obtain the latest data from the device.

Click the '**Help**':The system will display the help of online.

### **24.3.2 Area Authentication**

All routers in an area authentication type must be consistent (does not support authentication, support for plain text authentication, support for MD5 authentication), first enable OSPF enabled. Configuration screen as shown:



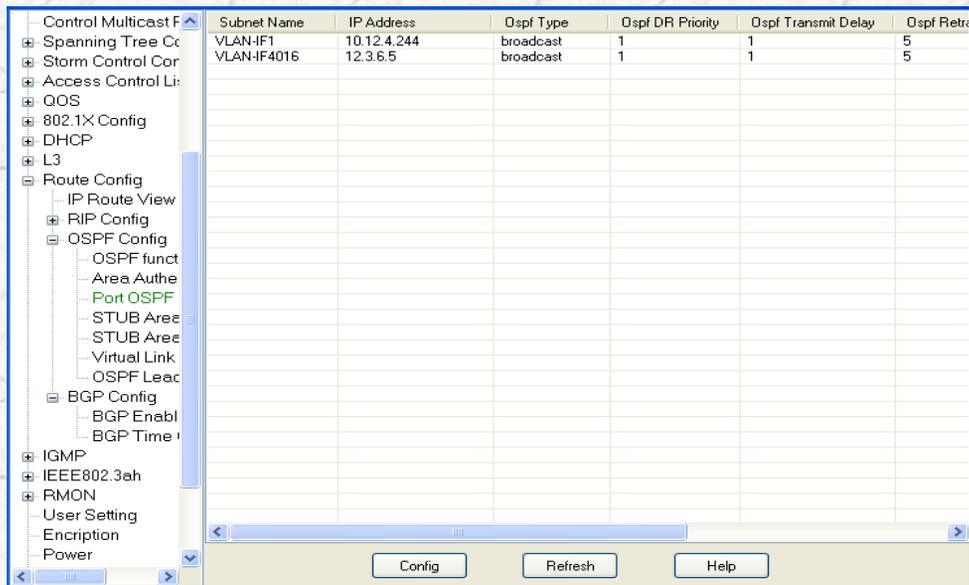
Figure24-10Area Authentication parameter configuration interface

Click the 'refresh' button, the system will re-obtain the latest data from the device.

Click the 'Help' button, the system will appear online help

### 24.3.3 Port OSPF Configuration

Configuration interface as shown below



The screenshot shows a network configuration interface with a tree view on the left and a table on the right. The tree view includes categories like Control Multicast, Spanning Tree, Storm Control, Access Control, QOS, 802.1X, DHCP, L3, Route Config, IP Route View, RIP Config, OSPF Config, BGP Config, IGMP, IEEE802.3ah, RMON, User Setting, Encryption, and Power. The OSPF Config sub-tree is expanded to show 'Port OSPF'. The table on the right has columns for Subnet Name, IP Address, Ospf Type, Ospf DR Priority, Ospf Transmit Delay, and Ospf Retri. It contains two rows of data.

Subnet Name	IP Address	Ospf Type	Ospf DR Priority	Ospf Transmit Delay	Ospf Retri
VLAN-IF1	10.12.4.244	broadcast	1	1	5
VLAN-IF4016	12.3.6.5	broadcast	1	1	5

Figure24-11Configuration interface

Click 'Config' button pops up a parameter configuration interface. as shown:

IP Address	10.12.4.244
Subnet Name	VLAN-IF1
<input checked="" type="radio"/> Ospf Type	broadcast
<input type="radio"/> Ospf DR Priority(0-255)	1
<input type="radio"/> Ospf Transmit Delay(1-65535: s)	1
<input type="radio"/> Ospf Retransmit LSA Interval(1-65535: s)	5
<input type="radio"/> Ospf Hello Interval(1-255: s)	10
<input type="radio"/> Ospf Dead Interval(1-65535: s)	40
<input type="radio"/> Ospf Cost(1-65535)	10

Figure24-12Port OSPF configuration interface

**OSPF Type:**The OSPF protocol computing routing is based on the topology of the network of the router adjacency based. Each router to their adjacent network topology is described, is passed to all other routers. OSPF link-layer protocol type, network is divided into four types: broadcast, non-broadcast multi-access, Point-to-Point and Point-to-the Multipoint.

**Ospf DR Priority:**Range from 0-255. The priority of the router interface determine the qualifications of the interface with the election of the designated router priority first consider the right to vote in conflict

**Ospf Transmit delay:**Range from 1 to 65535. Aging time of the link state advertisement (LSA) in the LSU packets before sending to increase the

transmit-delay seconds. The parameter settings are taken into consideration the time required to send packets on the interface. LSA in the router's link state database (LSDB) aging over time (per second, plus 1), but the network transfer process but not so necessary before sending the aging time increases the transmit-the delay seconds this configuration is more important for low-speed networks.

**Ospf Retransmit LSA interval:**Range from 1 to 65535.When a router to its neighbors to send a 'link state advertisement (LSA), the need to wait for the acknowledgment message. Receives no acknowledgment packets retransmit-interval time will retransmission of the LSA to the neighbors.

**Ospf Hello Interval:**Range from 1-255. Hello packets are the most common form of packets, it is periodically sent to neighboring routers, used to discover and maintain neighbor relationships, the election of the DR and BDR. hello-interval value of the smaller changes in the network will be found sooner, but will spend more network traffic. The same segment of the router's hello-interval must be the same.

**OSPF Dead Interval:**Range from 1 to 65535.Between adjacent router failure within the time interval If you do not receive each other's Hello packet, the peer router failure. The user can set the value of the failure time dead-interval . Dead-interval's value must be at least four times than the hello-interval value , the same segment of the router dead-interval.

**Ospf Cost:**Range from 1 to 65535.

Click the 'refresh' button, the system will re-obtain the latest data from the device.

Click the 'Help' button, the system will appear online help.

### 24.3.4 STUB Area Configure

Configuration interface as shown:

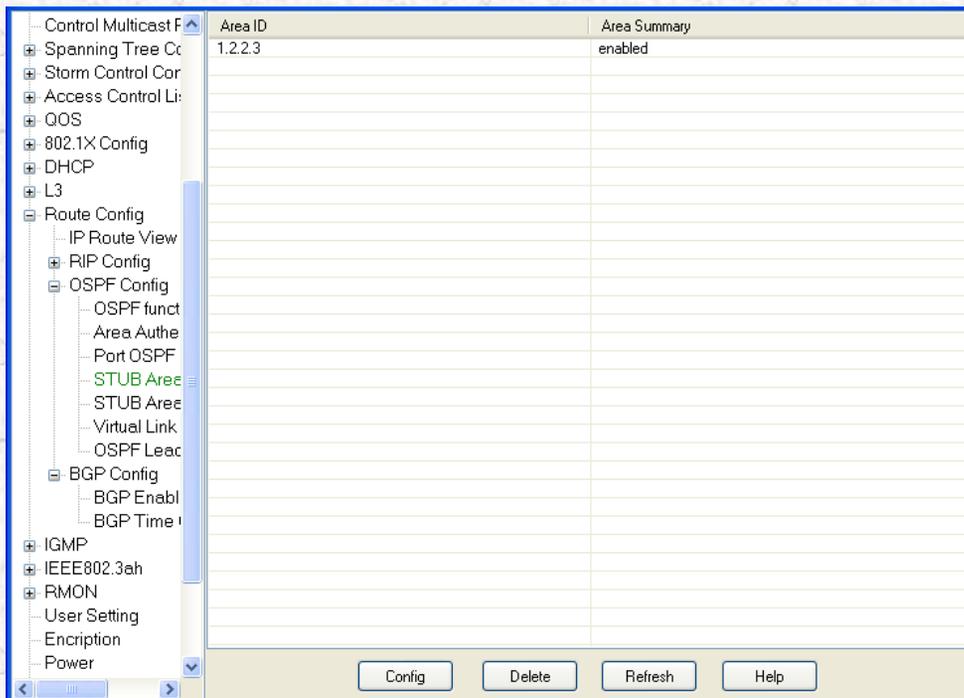
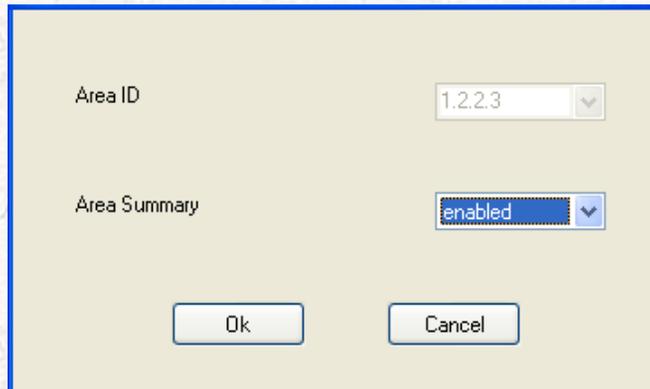


Figure24-13STUB Area configuration interface

Click '**Config**' button pops up a parameter configuration interface. as shown



The screenshot shows a configuration dialog box with a light beige background and a blue border. It contains two dropdown menus: 'Area ID' with the value '1.2.2.3' and 'Area Summary' with the value 'enabled'. At the bottom, there are two buttons: 'Ok' and 'Cancel'.

Figure24-14STUB Area Parameter Configuration Interface

Click the '**Cancel**' button: it can cancel the area of configuration. The result will be given after the configuration.

Click the '**Rerensh**' button, the system will re-obtain the latest data from the device.

Click the '**Help**' button, the system will appear online help

### 24.3.5 STUB Area Cost

Configuration interface as shown below:

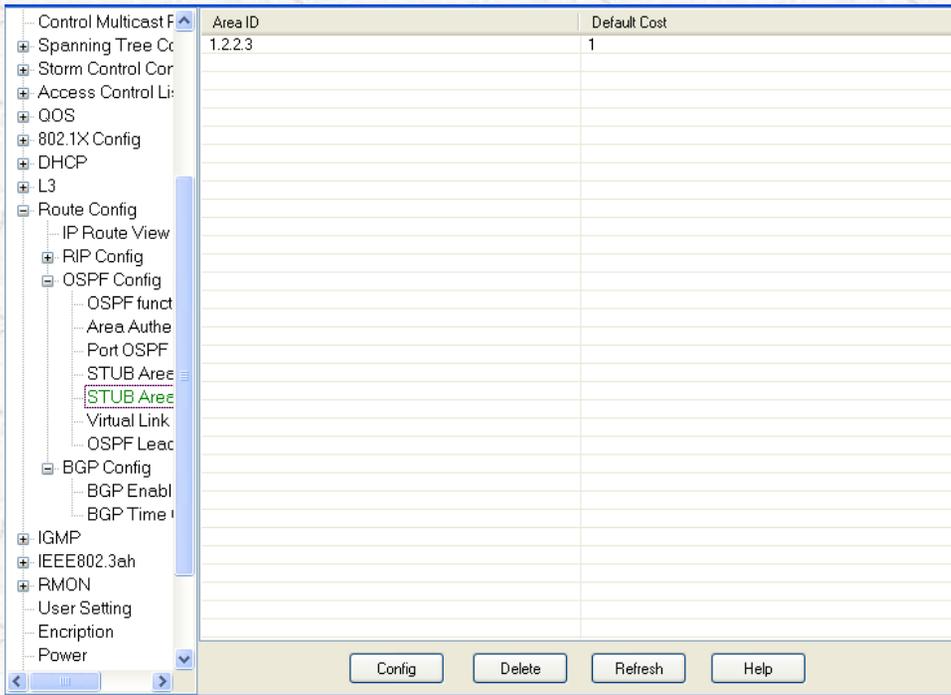


Figure24-15STUB area cost configuration interface

Click '**Config**' button pops up a parameter configuration interface as shown:

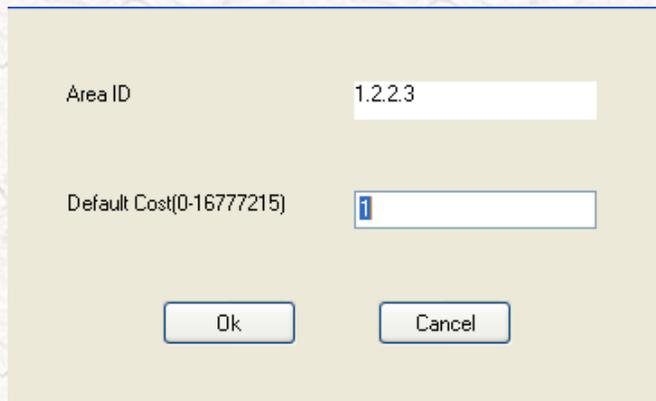


Figure24-16STUB Area Cost Parameter interface

**Default Cost:**Range from 0 to 16777215. By default, do not configure a stub area; It will send to Stub area default route cost value of 1.

Click the '**Cancel**' button: it can cancel the area of configuration.The result will be given after the configuration.

Click the '**refresh**' button, the system will re-obtain the latest data from the device.

Click the '**Help**' button, the system will appear online help.

### 24.3.6 Virtual Link Configuration

Configuration interface as shown:



The image shows a configuration window for a virtual link. It has a light beige background and a blue border. At the top left, there is a small icon of a person. The window contains the following fields and controls:

- Area ID:** A dropdown menu with the value "10.1.7.1" selected.
- Router ID:** A dropdown menu with the value "10.12.4.244" selected.
- Transmit Delay(1-8192: s):** A radio button is selected, and the value "1" is entered in the text box.
- Retransmit LSA Interval(1-8192: s):** A radio button is unselected, and the value "5" is entered in the text box.
- Hello Interval(1-8192: s):** A radio button is unselected, and the value "10" is entered in the text box.
- Dead Interval(4-32768: s):** A radio button is unselected, and the value "40" is entered in the text box.

At the bottom of the window, there are two buttons: "OK" and "Cancel".

Figure24-18Virtual Link Configuration interface

**Transmot Delay:**Ranged from 1 to 8192.

**Reransmit LSA Interval:**Ranged from 1 to 8192

**Hello Interval:** Ranged from 1 to 8192.

**Dead Interval:**Ranged from 4 to 32768.The value of dead interval is at least 4 time larger than the value of hello-interval

Click the '**Cancel**' button: it can cancel the area of configuration.The result will be given after the configuration.

Click the **'refresh'** button, the system will re-obtain the latest data from the device.

Click the **'Help'** button, the system will appear online help.

### 24.3.7 OSPF Lead

The interface as shown:

Protocol	Metric	Type	Tag	Always
rip	1	type1	1	disabled
connected	0	type2	1	disabled

Figure24-19OSPF Lead Interface

Click **'Config'** button pops up a parameter configuration interface. as shown:

Protocol

Metric(0-16777215)

Type

Tag(1-4294967295)

Always

Figure24-20OSPF Lead router parameter interface

**Metric:**Ranged from 1 to 16777215

**Tag:**Ranged from 1 to 4294967295.

Click the '**Cancel**' button: it can cancel the area of configuration.The result will be given after the configuration.

Click the '**refresh**' button, the system will re-obtain the latest data from the device.

Click the '**Help**' button, the system will appear online help.

## 24.4 BGP Configuration

### 24.4.1 BGP Enable Configuration

Configuration interface as shown:

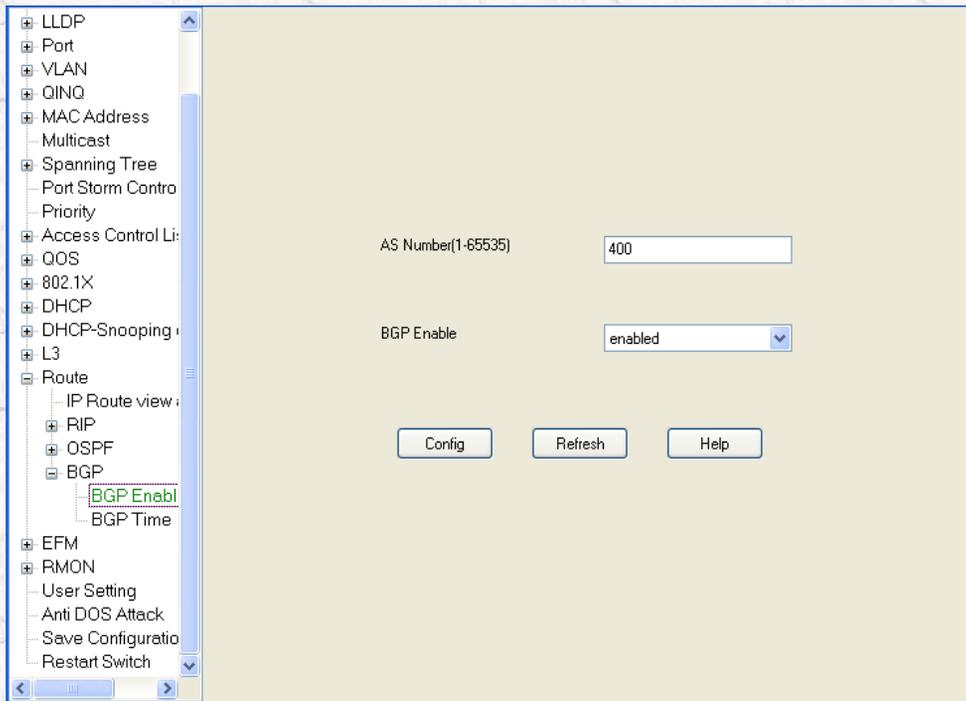


Figure24-21 BGP Enabled Setting Interface

Click '**Delete**' button, the system configuration, device configuration after configuration results is given.

Click the '**refresh**' button, the system will re-obtain the latest data from the

device.

Click the **'Help'** button, the system will appear online help



Notes: BGP can only run a local AS number. If you want to run the other AS, the need to first running disable the AS number, and then configure the other AS number.

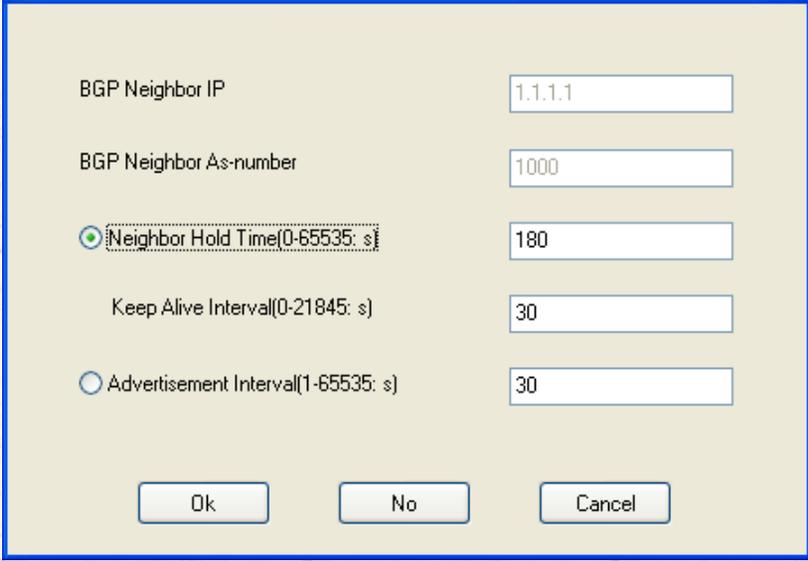
## 24.4.2 BGP Time Configuration

Configuration interface as shown:

BGP Neighbor IP	BGP Neighbor As...	Neighbor Hold Time	Keep Alive Interval	Advertisement Inte...
1.1.1.1	1000	180	30	30

Figure24-22BGP Time Configuration interface

Select a record, click '**Config**' button ,Pops up a parameter configuration interface. as shown:



The image shows a parameter configuration interface for a BGP neighbor. It features a light beige background with a blue border. The interface contains five rows of configuration fields, each with a label on the left and a text input field on the right. The first row is 'BGP Neighbor IP' with the value '1.1.1.1'. The second row is 'BGP Neighbor As-number' with the value '1000'. The third row is 'Neighbor Hold Time(0-65535: s)' with the value '180', and it has a radio button selected. The fourth row is 'Keep Alive Interval(0-21845: s)' with the value '30'. The fifth row is 'Advertisement Interval(1-65535: s)' with the value '30', and it has a radio button unselected. At the bottom of the interface, there are three buttons: 'Ok', 'No', and 'Cancel'.

BGP Neighbor IP	1.1.1.1
BGP Neighbor As-number	1000
<input checked="" type="radio"/> Neighbor Hold Time(0-65535: s)	180
Keep Alive Interval(0-21845: s)	30
<input type="radio"/> Advertisement Interval(1-65535: s)	30

Ok No Cancel

Figure24-23Parameter Configuration Interface

Click the '**Delete**' button, the system will configure the value of the equipment, configuration result will be given after configuration.

Click the '**refresh**' button, the system will re-obtain the latest data from the device.

Click the '**Help**' button, the system will appear online help.



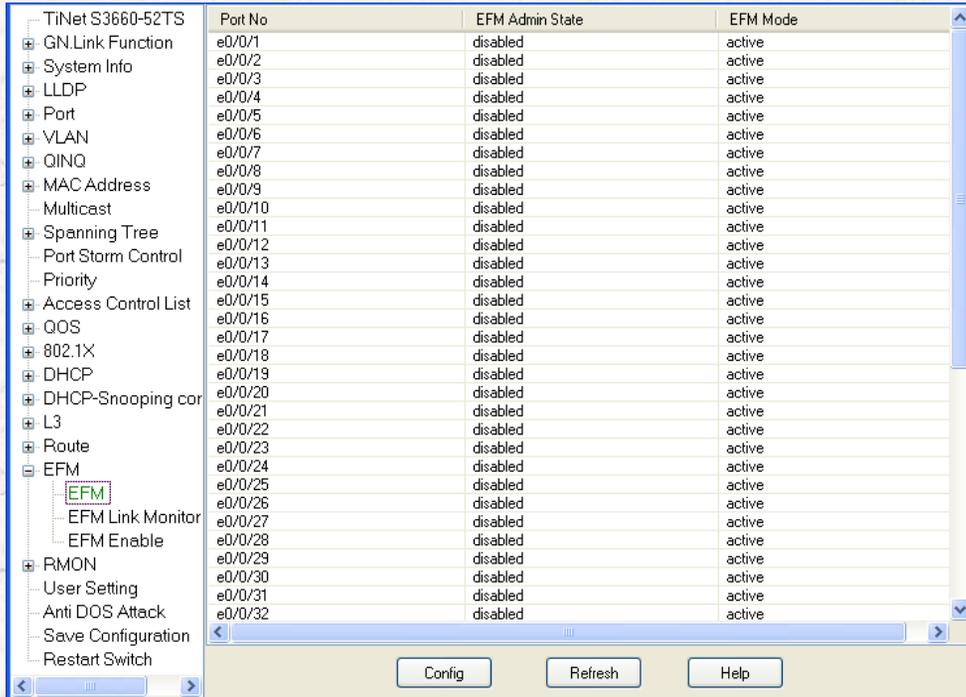
Notes: The configuration you need to configure the neighbor, the BGP. Such as

the configuration of the neighbors to keep time and neighbors to send Keepalive packet interval is not 0, you need to meet the neighbors to keep at least 3 multiples of the value of the neighbors send Keepalive packet interval.

# 25 EFM

## 25.1 EFM Configuration

Configuration interface as shown:

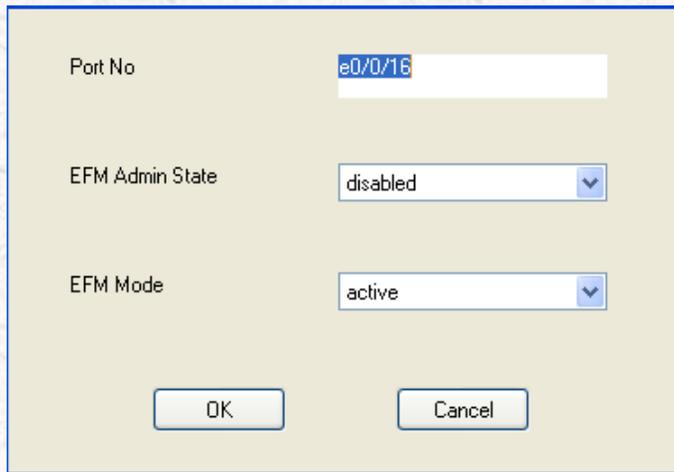


The screenshot displays a configuration interface for EFM. On the left is a tree view menu with the following items: TiNet S3660-52TS, GN.Link Function, System Info, LLDP, Port, VLAN, QinQ, MAC Address Multicast, Spanning Tree, Port Storm Control, Priority, Access Control List, QOS, 802.1X, DHCP, DHCP-Snooping cor, L3, Route, EFM (highlighted), EFM Link Monitor, EFM Enable, RMON, User Setting, Anti DOS Attack, Save Configuration, and Restart Switch. The main area contains a table with four columns: Port No, EFM Admin State, and EFM Mode. The table lists 32 ports from e0/0/1 to e0/0/32. Ports e0/0/1 through e0/0/24 have 'disabled' EFM Admin State and 'active' EFM Mode. Ports e0/0/25 through e0/0/32 have 'disabled' EFM Admin State and 'active' EFM Mode. At the bottom of the interface are three buttons: Config, Refresh, and Help.

Port No	EFM Admin State	EFM Mode
e0/0/1	disabled	active
e0/0/2	disabled	active
e0/0/3	disabled	active
e0/0/4	disabled	active
e0/0/5	disabled	active
e0/0/6	disabled	active
e0/0/7	disabled	active
e0/0/8	disabled	active
e0/0/9	disabled	active
e0/0/10	disabled	active
e0/0/11	disabled	active
e0/0/12	disabled	active
e0/0/13	disabled	active
e0/0/14	disabled	active
e0/0/15	disabled	active
e0/0/16	disabled	active
e0/0/17	disabled	active
e0/0/18	disabled	active
e0/0/19	disabled	active
e0/0/20	disabled	active
e0/0/21	disabled	active
e0/0/22	disabled	active
e0/0/23	disabled	active
e0/0/24	disabled	active
e0/0/25	disabled	active
e0/0/26	disabled	active
e0/0/27	disabled	active
e0/0/28	disabled	active
e0/0/29	disabled	active
e0/0/30	disabled	active
e0/0/31	disabled	active
e0/0/32	disabled	active

Figure25-1 EFM Configuration interface

Click '**Config**' button pops up a parameter configuration interface. as shown:



The image shows a dialog box titled "Parameter Configuration Interface" with a light beige background and a blue border. It contains three configuration fields: "Port No" with a text input field containing "e0/0/16"; "EFM Admin State" with a dropdown menu set to "disabled"; and "EFM Mode" with a dropdown menu set to "active". At the bottom, there are two buttons: "OK" and "Cancel".

Figure25-2Parameter Configuration Interface

Click the '**Rerensh**' button, the system will re-obtain the latest data from the device.

Click the '**Help**' button, the system will appear online help.

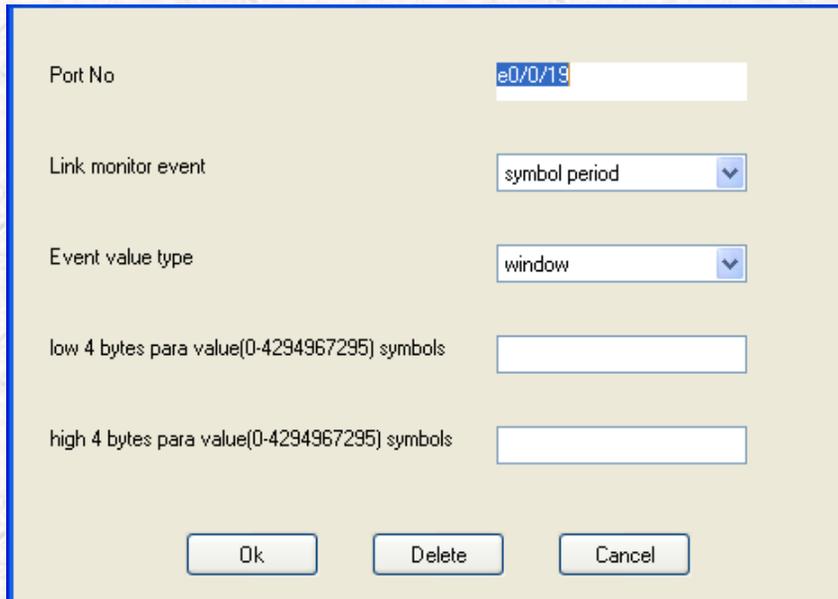
## 25.2EFM Monitor Event Configuration

Configuration interface as shown:

TiNet S3660-52TS											
	Port No	Sym...	Sym...	Sym...	Sym...	Fram...	Fram...	Fram...	Fram...	Fram...	Fram...
GN Link Function	e0/0/1	0	10000	0	1	10000	1	10	1	600	1
System Info	e0/0/2	0	10000	0	1	10000	1	10	1	600	1
LLDP	e0/0/3	0	10000	0	1	10000	1	10	1	600	1
Port	e0/0/4	0	10000	0	1	10000	1	10	1	600	1
VLAN	e0/0/5	0	10000	0	1	10000	1	10	1	600	1
QINQ	e0/0/6	0	10000	0	1	10000	1	10	1	600	1
MAC Address	e0/0/7	0	10000	0	1	10000	1	10	1	600	1
Multicast	e0/0/8	0	10000	0	1	10000	1	10	1	600	1
Spanning Tree	e0/0/9	0	10000	0	1	10000	1	10	1	600	1
Port Storm Control	e0/0/10	0	10000	0	1	10000	1	10	1	600	1
Priority	e0/0/11	0	10000	0	1	10000	1	10	1	600	1
Access Control List	e0/0/12	0	10000	0	1	10000	1	10	1	600	1
QOS	e0/0/13	0	10000	0	1	10000	1	10	1	600	1
802.1X	e0/0/14	0	10000	0	1	10000	1	10	1	600	1
DHCP	e0/0/15	0	10000	0	1	10000	1	10	1	600	1
DHCP-Snooping cor	e0/0/16	0	10000	0	1	10000	1	10	1	600	1
L3	e0/0/17	0	10000	0	1	10000	1	10	1	600	1
Route	e0/0/18	0	10000	0	1	10000	1	10	1	600	1
EFM	e0/0/19	0	10000	0	1	10000	1	10	1	600	1
EFM	e0/0/20	0	10000	0	1	10000	1	10	1	600	1
EFM Link Monitor	e0/0/21	0	10000	0	1	10000	1	10	1	600	1
EFM Enable	e0/0/22	0	10000	0	1	10000	1	10	1	600	1
RMON	e0/0/23	0	10000	0	1	10000	1	10	1	600	1
User Setting	e0/0/24	0	10000	0	1	10000	1	10	1	600	1
Anti DOS Attack	e0/0/25	0	10000	0	1	10000	1	10	1	600	1
Save Configuration	e0/0/26	0	10000	0	1	10000	1	10	1	600	1
Restart Switch	e0/0/27	0	10000	0	1	10000	1	10	1	600	1
	e0/0/28	0	10000	0	1	10000	1	10	1	600	1
	e0/0/29	0	10000	0	1	10000	1	10	1	600	1
	e0/0/30	0	10000	0	1	10000	1	10	1	600	1
	e0/0/31	0	10000	0	1	10000	1	10	1	600	1
	e0/0/32	0	10000	0	1	10000	1	10	1	600	1

Figure25-3EFM Link Monitor Event Configuration Interface

Click '**Config**' button pops up a parameter configuration interface. as shown:



The image shows a 'Parameter Configuration Interface' dialog box with a light beige background and a blue border. It contains the following fields and controls:

- Port No:** A text input field containing the value 'e0/0/19'.
- Link monitor event:** A dropdown menu with 'symbol period' selected.
- Event value type:** A dropdown menu with 'window' selected.
- low 4 bytes para value(0-4294967295) symbols:** An empty text input field.
- high 4 bytes para value(0-4294967295) symbols:** An empty text input field.
- Buttons:** Three buttons at the bottom: 'Ok', 'Delete', and 'Cancel'.

Figure25-4Parameter Configuration Interface

Click the '**Rerensh**' button, the system will re-obtain the latest data from the device.

Click the '**Help**' button, the system will appear online help.

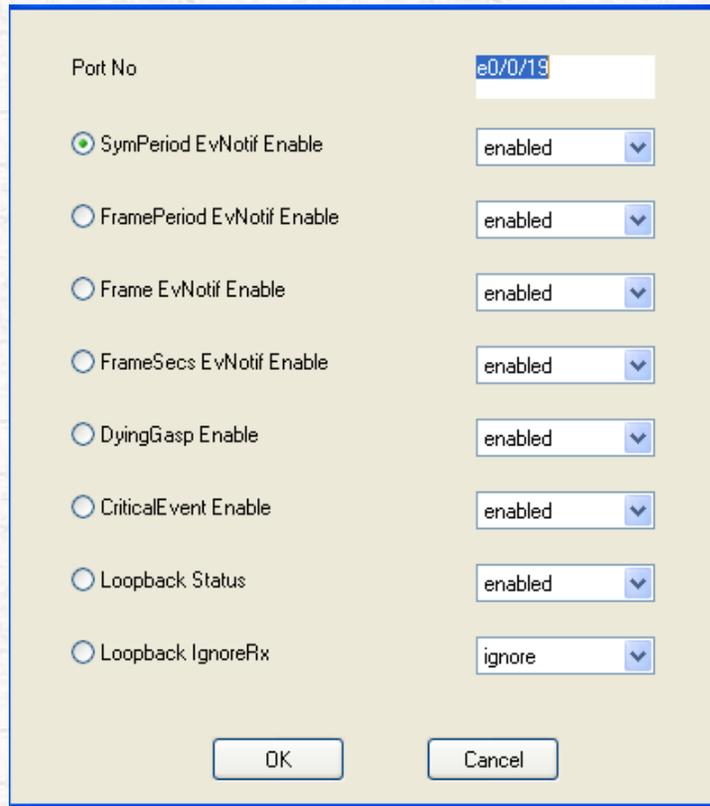
## 25.3EFM Enabled Configuration

Configuration interface as shown:

	Port No	SymPeriod E...	FramePerio...	Frame EvNotif ...	FrameS...	DyingG...	CriticalE...	Loopb
--- TiNet S3660-52TS								
+ GN Link Function	e0/0/1	enabled	enabled	enabled	enabled	enabled	enabled	enable
+ System Info	e0/0/2	enabled	enabled	enabled	enabled	enabled	enabled	enable
+ LLDP	e0/0/3	enabled	enabled	enabled	enabled	enabled	enabled	enable
+ Port	e0/0/4	enabled	enabled	enabled	enabled	enabled	enabled	enable
+ VLAN	e0/0/5	enabled	enabled	enabled	enabled	enabled	enabled	enable
+ QinQ	e0/0/6	enabled	enabled	enabled	enabled	enabled	enabled	enable
+ MAC Address	e0/0/7	enabled	enabled	enabled	enabled	enabled	enabled	enable
+ Multicast	e0/0/8	enabled	enabled	enabled	enabled	enabled	enabled	enable
+ Spanning Tree	e0/0/9	enabled	enabled	enabled	enabled	enabled	enabled	enable
+ Port Storm Control	e0/0/10	enabled	enabled	enabled	enabled	enabled	enabled	enable
+ Priority	e0/0/11	enabled	enabled	enabled	enabled	enabled	enabled	enable
+ Access Control List	e0/0/12	enabled	enabled	enabled	enabled	enabled	enabled	enable
+ QoS	e0/0/13	enabled	enabled	enabled	enabled	enabled	enabled	enable
+ 802.1X	e0/0/14	enabled	enabled	enabled	enabled	enabled	enabled	enable
+ DHCP	e0/0/15	enabled	enabled	enabled	enabled	enabled	enabled	enable
+ DHCP-Snooping cor	e0/0/16	enabled	enabled	enabled	enabled	enabled	enabled	enable
+ L3	e0/0/17	enabled	enabled	enabled	enabled	enabled	enabled	enable
+ Route	e0/0/18	enabled	enabled	enabled	enabled	enabled	enabled	enable
+ EFM	e0/0/19	enabled	enabled	enabled	enabled	enabled	enabled	enable
+ EFM	e0/0/20	enabled	enabled	enabled	enabled	enabled	enabled	enable
+ EFM Link Monitor	e0/0/21	enabled	enabled	enabled	enabled	enabled	enabled	enable
+ EFM Enable	e0/0/22	enabled	enabled	enabled	enabled	enabled	enabled	enable
+ RMON	e0/0/23	enabled	enabled	enabled	enabled	enabled	enabled	enable
+ User Setting	e0/0/24	enabled	enabled	enabled	enabled	enabled	enabled	enable
+ Anti DOS Attack	e0/0/25	enabled	enabled	enabled	enabled	enabled	enabled	enable
+ Save Configuration	e0/0/26	enabled	enabled	enabled	enabled	enabled	enabled	enable
+ Restart Switch	e0/0/27	enabled	enabled	enabled	enabled	enabled	enabled	enable
	e0/0/28	enabled	enabled	enabled	enabled	enabled	enabled	enable
	e0/0/29	enabled	enabled	enabled	enabled	enabled	enabled	enable
	e0/0/30	enabled	enabled	enabled	enabled	enabled	enabled	enable
	e0/0/31	enabled	enabled	enabled	enabled	enabled	enabled	enable
	e0/0/32	enabled	enabled	enabled	enabled	enabled	enabled	enable

Figure25-5EFMEnabledConfiguration Interface

Click '**Config**' button pops up a parameter configuration interface as shown:



The image shows a 'Parameter Configuration Interface' dialog box with a light beige background and a blue border. At the top, there is a 'Port No' field containing the text 'e0/0/19'. Below this are eight rows of configuration options, each consisting of a radio button, a text label, and a dropdown menu. The first option, 'SymPeriod EvNotif Enable', has its radio button selected. The other seven options have unselected radio buttons. The dropdown menus for 'SymPeriod EvNotif Enable' through 'Loopback Status' are all set to 'enabled', while the 'Loopback IgnoreRx' dropdown is set to 'ignore'. At the bottom of the dialog are two buttons: 'OK' on the left and 'Cancel' on the right.

Option	Value
Port No	e0/0/19
<input checked="" type="radio"/> SymPeriod EvNotif Enable	enabled
<input type="radio"/> FramePeriod EvNotif Enable	enabled
<input type="radio"/> Frame EvNotif Enable	enabled
<input type="radio"/> FrameSecs EvNotif Enable	enabled
<input type="radio"/> DyingGasp Enable	enabled
<input type="radio"/> CriticalEvent Enable	enabled
<input type="radio"/> Loopback Status	enabled
<input type="radio"/> Loopback IgnoreRx	ignore

Figure25-6Parameter Configuration Interface

Click '**Rerensh**' button,The system will get the last data from device again.

Click the '**Help**' button, the system will appear online help.

## 26 RMON

---

### 26.1 RMON Statistics

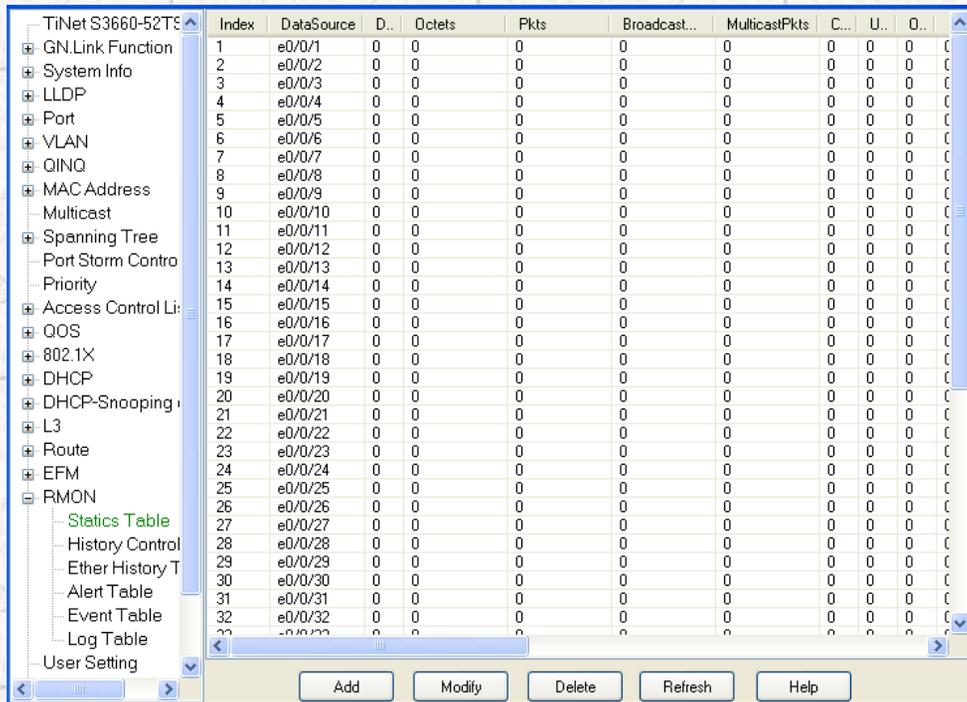
For Statistics Section, the control function of the tables and data tables is bound in a management workstation can request the Monitor one or more statistical information collected Ethernet interface. Statistical information collected from the Configuration is the same for all interfaces, all of these interfaces must be connected to the Ethernet interface

The statistics group contains each monitoring subnet statistics, RFC1757 for the group defined a simple table where each row corresponds to a Monitor interface (subnet). These statistics exist in the form of a counter, the counter in the valid entry created from scratch. Tables for each subnet to collect a variety of counts, including the type, packet, error, and frame size, the table for the Ethernet interface. The table includes only a defined object based on the Ethernet interface. The future management of the library expansion will include the other LAN types, such as Token Ring and FDDI.

The tables provide useful information on the subnet load the same time, because it also includes a lot of error messages. Such as the CRC error information, conflicting information, as well as above or below the required size of the package, so the table provides useful information on the subnet load and

network conditions.

Although the management station can control the Monitor while collecting more than one port, but all of the information format is the same, but also must be an Ethernet interface. The tables contain 20 objects. Most of which are used for the counter. Configuration Interface, as shown in Figure:



	Index	DataSource	D..	Octets	Pkts	Broadcast...	MulticastPkts	C...	U..	O..	
TiNet S3660-52TS											
GN.Link Function	1	e0/0/1	0	0	0	0	0	0	0	0	(
System Info	2	e0/0/2	0	0	0	0	0	0	0	0	(
LLDP	3	e0/0/3	0	0	0	0	0	0	0	0	(
Port	4	e0/0/4	0	0	0	0	0	0	0	0	(
VLAN	5	e0/0/5	0	0	0	0	0	0	0	0	(
QINQ	6	e0/0/6	0	0	0	0	0	0	0	0	(
MAC Address	7	e0/0/7	0	0	0	0	0	0	0	0	(
Multicast	8	e0/0/8	0	0	0	0	0	0	0	0	(
Spanning Tree	9	e0/0/9	0	0	0	0	0	0	0	0	(
Port Storm Contro	10	e0/0/10	0	0	0	0	0	0	0	0	(
Priority	11	e0/0/11	0	0	0	0	0	0	0	0	(
Access Control Li	12	e0/0/12	0	0	0	0	0	0	0	0	(
QOS	13	e0/0/13	0	0	0	0	0	0	0	0	(
802.1X	14	e0/0/14	0	0	0	0	0	0	0	0	(
DHCP	15	e0/0/15	0	0	0	0	0	0	0	0	(
DHCP-Snooping	16	e0/0/16	0	0	0	0	0	0	0	0	(
L3	17	e0/0/17	0	0	0	0	0	0	0	0	(
Route	18	e0/0/18	0	0	0	0	0	0	0	0	(
EFM	19	e0/0/19	0	0	0	0	0	0	0	0	(
RMON	20	e0/0/20	0	0	0	0	0	0	0	0	(
Static Table	21	e0/0/21	0	0	0	0	0	0	0	0	(
History Control	22	e0/0/22	0	0	0	0	0	0	0	0	(
Ether History T	23	e0/0/23	0	0	0	0	0	0	0	0	(
Alert Table	24	e0/0/24	0	0	0	0	0	0	0	0	(
Event Table	25	e0/0/25	0	0	0	0	0	0	0	0	(
Log Table	26	e0/0/26	0	0	0	0	0	0	0	0	(
User Setting	27	e0/0/27	0	0	0	0	0	0	0	0	(
	28	e0/0/28	0	0	0	0	0	0	0	0	(
	29	e0/0/29	0	0	0	0	0	0	0	0	(
	30	e0/0/30	0	0	0	0	0	0	0	0	(
	31	e0/0/31	0	0	0	0	0	0	0	0	(
	32	e0/0/32	0	0	0	0	0	0	0	0	(
	33	e0/0/33	0	0	0	0	0	0	0	0	(

Figure26-1 Statistics Information Interface

**Data Discard:**This is not necessarily the actual number of dropped packets, but to detect the number of such circumstances;

**Octets:**The number of packets received, including error packets, broadcast packets and multicast packets

**Pkts:**The number of bytes of data received, including the error number of data bytes in the bag;

**Broadcast:**The number of normal broadcast packets received;

**MulticastPkts:**The number of normal multicast packets received;

**CRCAlignErrors:**Appropriate size of the number of packets received, but there is a CRC error or alignment error (not an integer bytes). CRC is widely used encoding (coding), mainly in the 'a' data after a fixed length of bits (called the Frame the Check Sequence FCS), also called the frame check sequence, and then follow certain algorithm to determine whether the packet received error;

The number of bytes received and 64 below with the integrity of the number of packets of the FCS bytes: the receiver to the correct format but less than the number of packets of 64 bytes of data;

**UdersizePkts:**Received the correct format, but greater than the number of packets of 1518 bytes;

**Pkts64Octets:**Received less than 64 bytes and the number of packets with a CRC error or alignment error (not an integer bytes);

**fragments:**Received greater than 1518 bytes and the number of packets with a CRC error or alignment error (not an integer bytes);

**Pkts64octets:**The received packet length of 64 bytes (including the number of

error packets);

**Collisions:**Best estimate the total number of the conflict;

**Pkts64to127octets:**The number of packets whose length is between 64 and127 bytes(Including error packets);

**Pkts128to255octets:**The number of packets whose length is between 128 and255 bytes(Including error packets);

**Pkts256to511octets:**The number of packets whose length is between 255 and511 bytes(Including error packets);

**Pkts512to1023octets:**The number of packets whose length is between 512 and1023 bytes(Including error packets);

**Pkts1024to1518octets:**The number of packets whose length is between 1024 and1518 bytes(Including error packets);

Table need to explain a few non-counter object:

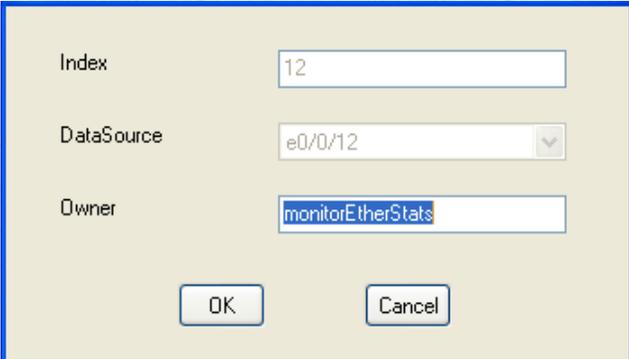
**Index:**Integer index of the line. Each of the devices Monitor Ethernet interface defines a line.

**DataSource:**Identify the interface.

**Owner:**Set The statistics of the owner name.

Click Interface one row,Click '**Config**' button pops up a parameter configuration

interface. as shown:

A dialog box titled "Parameter Configuration Interface" with a light beige background and a blue border. It contains three input fields: "Index" with the value "12", "DataSource" with a dropdown menu showing "e0/0/12", and "Owner" with the text "monitorEtherStats". At the bottom, there are two buttons: "OK" and "Cancel".

Index	12
DataSource	e0/0/12
Owner	monitorEtherStats

Figure26-2Parameter Configuration Interface

Click '**Refresh**' button, The system will get the last data from device again.

Click the '**Help**' button, the system will appear online help.

## 26.2RMON History Control

The history group for the definition of one or more Monitor port sampling function, the RFC defines two tables: the history control table and Ethernet History table. History control table is used to specify the interface as well as details of the sampling function. Each record in the history control table defines a specific interface specification to specify the sampling interval of data collection, collected after each sample is stored in a new line of Ethernet history table. Information Interface as shown:

Index	DataSource	BucketsRequest	BucketsGranted	Interval	Owner
1	e0/0/1	10	10	30	monitorHistory
2	e0/0/1	10	10	1800	monitorHistory
3	e0/0/2	10	10	30	monitorHistory
4	e0/0/2	10	10	1800	monitorHistory
5	e0/0/3	10	10	30	monitorHistory
6	e0/0/3	10	10	1800	monitorHistory
7	e0/0/4	10	10	30	monitorHistory
8	e0/0/4	10	10	1800	monitorHistory
9	e0/0/5	10	10	30	monitorHistory
10	e0/0/5	10	10	1800	monitorHistory
11	e0/0/6	10	10	30	monitorHistory
12	e0/0/6	10	10	1800	monitorHistory
13	e0/0/7	10	10	30	monitorHistory
14	e0/0/7	10	10	1800	monitorHistory
15	e0/0/8	10	10	30	monitorHistory
16	e0/0/8	10	10	1800	monitorHistory
17	e0/0/9	10	10	30	monitorHistory
18	e0/0/9	10	10	1800	monitorHistory
19	e0/0/10	10	10	30	monitorHistory
20	e0/0/10	10	10	1800	monitorHistory
21	e0/0/11	10	10	30	monitorHistory
22	e0/0/11	10	10	1800	monitorHistory
23	e0/0/12	10	10	30	monitorHistory
24	e0/0/12	10	10	1800	monitorHistory
25	e0/0/13	10	10	30	monitorHistory
26	e0/0/13	10	10	1800	monitorHistory
27	e0/0/14	10	10	30	monitorHistory
28	e0/0/14	10	10	1800	monitorHistory
29	e0/0/15	10	10	30	monitorHistory
30	e0/0/15	10	10	1800	monitorHistory
31	e0/0/16	10	10	30	monitorHistory
32	e0/0/16	10	10	1800	monitorHistory
33	e0/0/17	10	10	30	monitorHistory
34	e0/0/17	10	10	1800	monitorHistory

Figure26-3History control list Information Interface

**Index:**Specifically defined historical control table row integer. The integer is also used to identify Ethernet history table or other media related tables in the corresponding row;

**Datasource:**Used to identify the interface;

**BucketsRequest:**According to this interval, the data stored in the media table associated with the entry;

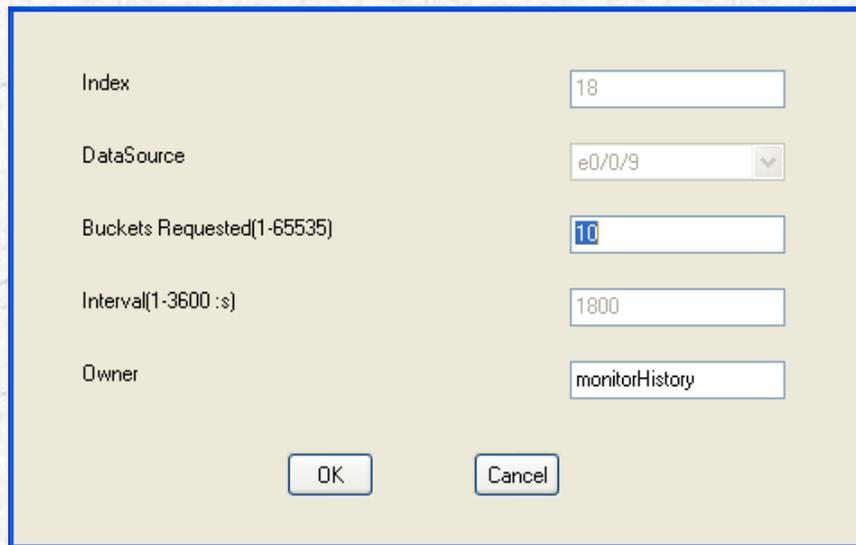
**BucketsGranted:**The actual number of discontinuous sampling interval of the stored data, when the number of requests to create and modify the interval of

related discontinuities sampling time, should try to set the Monitor and the required value consistent;

**Interval:**The number of seconds for each store sampling interval, the interval can be set to any value between 1 to 3600 (1 hour). If you do not provide value, then assign a default value of 1;

**Owner:**Set The statistics of the owner name.

Choose one row of the Interface,Click '**Config**' button pops up a parameter configuration interface. as shown:



The image shows a parameter configuration dialog box with a light beige background and a blue border. It contains five rows of configuration fields and two buttons at the bottom. The fields are: 'Index' with a text input containing '18'; 'DataSource' with a dropdown menu showing 'e0/0/9'; 'Buckets Requested(1-65535)' with a text input containing '10'; 'Interval(1-3600 :s)' with a text input containing '1800'; and 'Owner' with a text input containing 'monitorHistory'. At the bottom, there are two buttons labeled 'OK' and 'Cancel'.

Index	18
DataSource	e0/0/9
Buckets Requested(1-65535)	10
Interval(1-3600 :s)	1800
Owner	monitorHistory

OK Cancel

Figure26-4Parameter Configuration Interface

Click the '**refresh**' button, the system will re-obtain the latest data from the

device.

Click the '**Help**' button, the system will appear online help.

## 26.3RMON Ether History Table

The history of the group for the definition of one or more Monitor port sampling, which includes two tables: the history control table and the table of Ethernet history. Ethernet history table is used to record data, and it is Ethernet media-specific table.

Each sample collected by the history control table stored in a record of Ethernet history table. Monitor device in accordance with the specified sampling interval sampling, each sample are stored in a record of Ethernet history table, and retain only the latest 50 records.



Notes: here 50 only refers to the index number of 50, sometimes more than one instance of the same index number, as shown shown in Ethernet history index of 1 record there are many. Thus, the real Ethernet history table records more than 50, an Ethernet history of index number and an Ethernet historical instances in order to find a record. An Ethernet index may contain a number of records.

Ethernet History table includes the following objects:

**Index:**The definition of the entry is which part of history. History by the specific values of the index to identify and control by the history of the same value of the

index number to identify is the same.

**SampleIndex:** Uniquely identify the index linked to the same line in the table of all historical control sample of the entries represent the only sample, the index from 1, each sample is incremented by one.

**IntervalStart:** Measurement sampling interval to the beginning of system boot time values.

In addition, the table also contains a counter that corresponds with the history of Statistics. Which can be used to measure the total number of bytes received and the total number of packets received subnet utilization.

The interface as shown:

In...	SampleIndex	IntervalStart	D...	O...	Pkts	Broad...	Multic...	(
1	7564	2days 15hours 2minutes 16seconds	0	0	0	0	0	0
1	7565	2days 15hours 2minutes 49seconds	0	0	0	0	0	0
1	7566	2days 15hours 3minutes 19seconds	0	0	0	0	0	0
1	7567	2days 15hours 3minutes 49seconds	0	0	0	0	0	0
1	7568	2days 15hours 4minutes 13seconds	0	0	0	0	0	0
1	7569	2days 15hours 4minutes 49seconds	0	0	0	0	0	0
1	7570	2days 15hours 5minutes 19seconds	0	0	0	0	0	0
1	7571	2days 15hours 5minutes 49seconds	0	0	0	0	0	0
1	7572	2days 15hours 6minutes 19seconds	0	0	0	0	0	0
1	7573	2days 15hours 6minutes 49seconds	0	0	0	0	0	0
2	117	2days 10hours 0minutes 45seconds	0	0	0	0	0	0
2	118	2days 10hours 30minutes 45seconds	0	0	0	0	0	0
2	119	2days 11hours 0minutes 45seconds	0	0	0	0	0	0
2	120	2days 11hours 30minutes 45seconds	0	0	0	0	0	0
2	121	2days 12hours 0minutes 45seconds	0	0	0	0	0	0
2	122	2days 12hours 30minutes 45seconds	0	0	0	0	0	0
2	123	2days 13hours 0minutes 45seconds	0	0	0	0	0	0
2	124	2days 13hours 30minutes 45seconds	0	0	0	0	0	0
2	125	2days 14hours 0minutes 45seconds	0	0	0	0	0	0
2	126	2days 14hours 30minutes 45seconds	0	0	0	0	0	0
3	7564	2days 15hours 2minutes 16seconds	0	0	0	0	0	0
3	7565	2days 15hours 2minutes 49seconds	0	0	0	0	0	0
3	7566	2days 15hours 3minutes 19seconds	0	0	0	0	0	0
3	7567	2days 15hours 3minutes 49seconds	0	0	0	0	0	0
3	7568	2days 15hours 4minutes 19seconds	0	0	0	0	0	0
3	7569	2days 15hours 4minutes 49seconds	0	0	0	0	0	0
3	7570	2days 15hours 5minutes 19seconds	0	0	0	0	0	0
3	7571	2days 15hours 5minutes 49seconds	0	0	0	0	0	0
3	7572	2days 15hours 6minutes 19seconds	0	0	0	0	0	0
3	7573	2days 15hours 6minutes 49seconds	0	0	0	0	0	0
4	117	2days 10hours 0minutes 45seconds	0	0	0	0	0	0

Figure26-5Ether History Table Information Interface

Click the 'Refresh' button, the system will re-obtain the latest data from the device.

Click the 'Help' button, the system will appear online help.

## 26.4RMON Alert Table

The alarm group used to define the threshold set for a network performance. The alarm group includes only one table: Alarm table. If a variable exceeds the set threshold will occur an alarm sent to the central console. For example, if



interval;

**Interval:**Seconds time interval, the time interval sampling and on the lower threshold to compare;

**Variable:**Specific variables to be sampled in the RMON MIB object identifier. Object type is only allowed INTEGER, counter, gauge, and TimeTicks. These object types are interpreted as in ASN.1 INTEGER type;

**SampleType:**If the object's value for the absolute data, the values of selected variables directly and threshold comparison; if the value of the object relative data in the selected variables on a sample value minus the current value, its difference with the threshold compared;

**Value:**Statistical values given in the last sampling period;

**StartupAlarm:**Value is divided into: upper limit alarm, lower limit alarm, upper and lower limit alarm; specified line is valid, the first sample is greater than or equal to upper threshold value, the upper limit alarm; the first sample is less than or equal to the lower threshold as lower limit alarms; both, resulting in upper and lower limit alarm. You can select alarm instance.

**RisingThreshold:**Upper threshold value of the sample statistics

**FallingThreshold:**Sampling statistics of the lower threshold

**RisingEventIndex:**Event index used by more than the limit

**FallingEventIndex:**Event index used by less than the limit

**Owner:**The user name recognized by the alarm

Click the '**Rerensh**' button, the system will re-obtain the latest data from the device.

Click the '**Help**' button, the system will appear online help.



Notes:

1. The alarm interval range is 2-65535;
2. The upper limit alarm Event index number range is 1-65535;
3. The lower limit alarm Event index number range is 1-65535.
4. Add the Configuration Interface, alarm variables OID must enter a valid OID format and the type of the variable is an integer type. Display in the results table for the character of the OID, because the system will be transformed into.
5. Edit an alarm when the index number and alarm variable OID are not allowed to modify;
6. Alarm limits must be greater than the lower limit alarm;
7. Alarm owner is not allowed to enter the Chinese characters

## 26.5RMON Event Table

The Event in the Event table is caused by conditions elsewhere in the MIB, the Event can trigger actions defined in the MIB, the Event may lead to record in the group Information, or issued by the SNMP trap messages. Similarly, the

definition of the Event of a group may lead to other groups in the Event, for example, an Event can be triggered to open or close the channel.

One of the main purposes of the Event table and alarm table, alarm table definition of the upper threshold value and lower limit threshold Event through the index reference to the Event table.

Event table includes the Event definition, each row of the table contains some of the parameters used to describe certain conditions are met to trigger the Event.

Configuration Interface as shown:

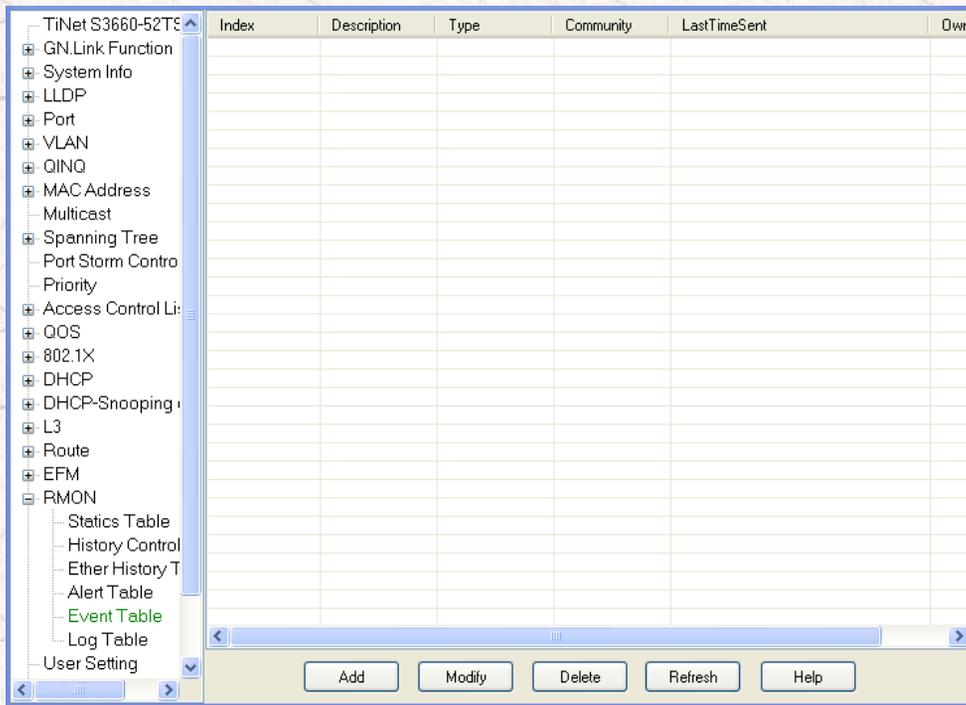


Figure 26-7 Event Table Configuration Interface

**Index:** Only identify the Event table row integer (the same integer can also be used to identify the corresponding row in the log table);

**Description:** Text description of the Event;

**type:** Value for the log Event, TrapEvent logs and TrapEvent-three kinds. (On the log each Event will be recorded in the log table one; Trap in terms of each of the Event occurs, send an SNMP message to one or more management workstations);

**Community:** If the sending SNMP messages require the public body to accept the message of the management workstation;

**Last time start:** This entry was last generated values of the system when the Event start time.

**owner:** Fill by the user named.



Notes:

- 1 Event index number of the range is 1-65535;
- 2 Event Description Event public body name and Event owners are not allowed to enter the Chinese characters;
- 3 Edit an Event, the Event index number does not allow editing;

Click the '**Rerensh**' button, the system will re-obtain the latest data from the device.



**Index:**All entries and the same Event type that uniquely identifies a specific record index. The index starts at 1 for each captured a new packet, the value is incremented by 1.

**Time:**Created which records when the system start-up time value.

**Description:**Stimulate achieve a description of the record Event.

Click the '**Rerensh**' button, the system will re-obtain the latest data from the device.

Click the '**Help**' button, the system will appear online help.

# 27 Telnet

## 27.1 Telnet Global

Configuration interface as shown:

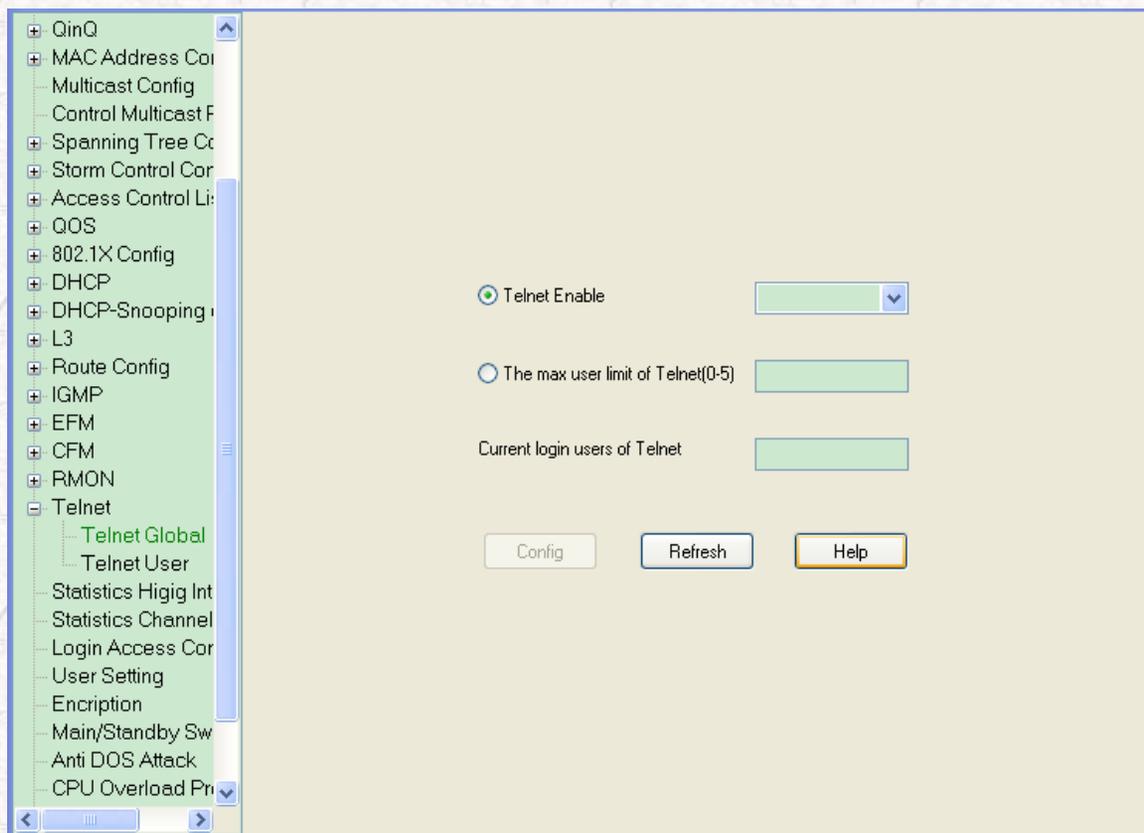


Figure27-1 Telnet Global Interface

Click the '**config**', System begin to Configure the device,After Configuration give the result of the Configuration.

Click the '**refresh**' button, the system will re-obtain the latest data from the device.

Click the '**Help**' button, the system will appear online help.

## **27.2Telnet User**

Configuration interface as shown:





## 29 Statistics Channel

---

Configuration interface as shown:

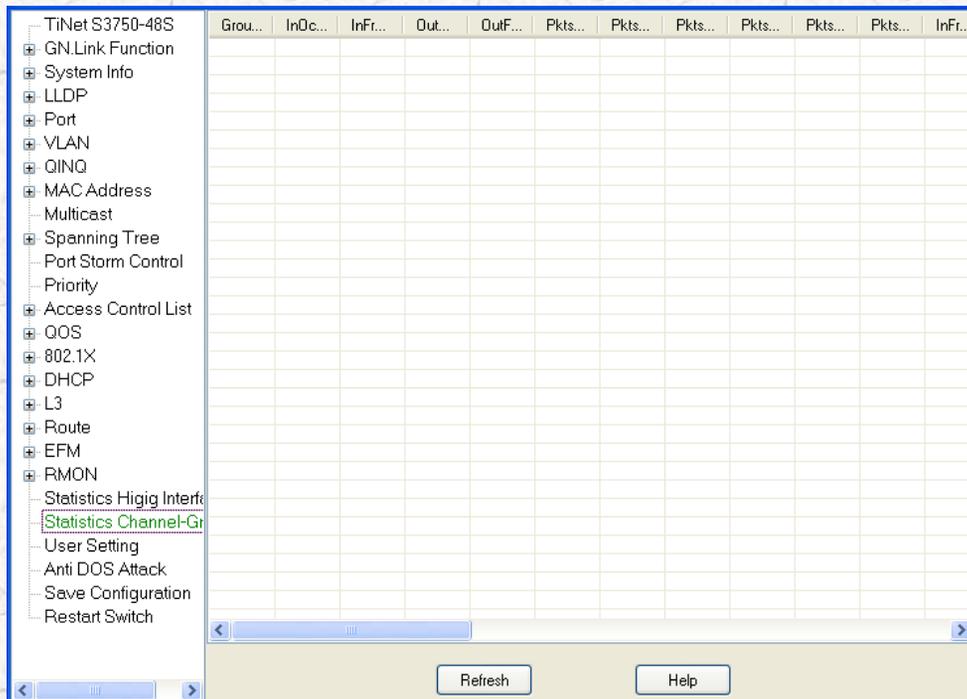


Figure29-1Static Channel Interface

Click '**Rerensh**' button,The system will get the last data from device again.

Click the '**Help**' button, the system will appear online help.

## 30 Login Access Control List

Configuration interface as shown:



Figure30-1Login Access Control List Interface

Choose Interface one line,Click '**Config**' button pops up a parameter configuration interface. as shown:

IP Address

Mask Wildcard 255.255.255.255

Terminal Type snmp

OK Cancel

Figure30-2Login Access Control List Configuration Interface

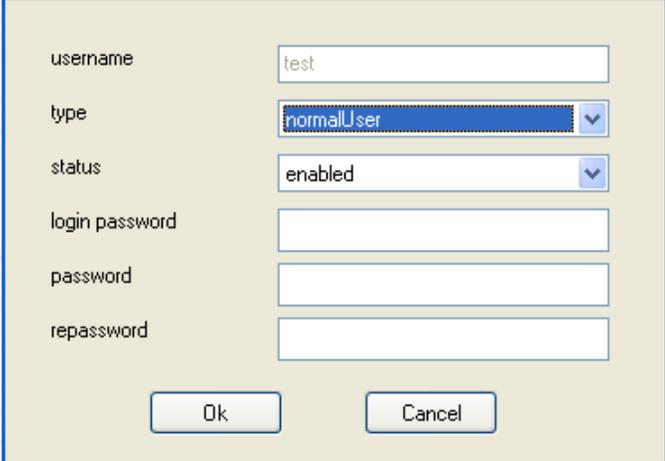
Click the '**OK**', System begin to Configure the device,After Configuration give the result of the Configuration.

Click the '**refresh**' button, the system will re-obtain the latest data from the device.

Click the '**Help**' button, the system will appear online help.



Choose Interface one line,Click '**Config**' button pops up a parameter configuration interface. as shown:



The image shows a dialog box titled "Parameter Configuration Interface" with a light beige background and a blue border. It contains the following fields and controls:

- username**: A text input field containing the value "test".
- type**: A dropdown menu with "normalUser" selected and highlighted in blue.
- status**: A dropdown menu with "enabled" selected and highlighted in blue.
- login password**: An empty text input field.
- password**: An empty text input field.
- repassword**: An empty text input field.

At the bottom of the dialog box, there are two buttons: "Ok" and "Cancel".

Figure31-2Parameter Configuration Interface

There are two types of user status, enable and not enabled when the choice is not enabled, the other three edit boxes for the non-edit mode, choose to enable three other edit box into editable state;



Notes:

- 1 When add or modify users, user name length does not allow more than 32 characters;
- 2 When add or modify users, user name, allows only English characters and numeric characters;
- 3 When add or modify user password length does not allow more than 16 characters;

Click the '**Rerensh**' button, the system will re-obtain the latest data from the device.

Click the '**Help**' button, the system will appear online help.

## 32 FTP Configuration

---

Configuration interface as shown:

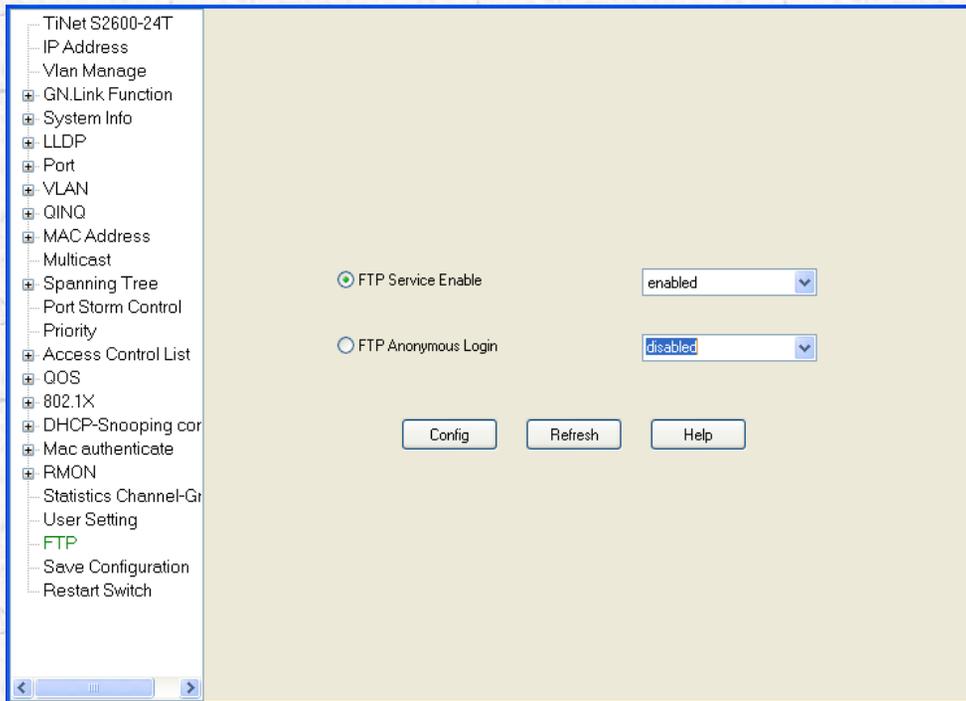


Figure32-1FTP Configuration Interface

Click '**Config**' button, The equipment Configuration, Configuration after completion of Configuration results is given.

Click the '**Rerensh**' button, the system will re-obtain the latest data from the device.

Click the '**Help**' button, the system will appear online help.

## 33 Anti DOS Attack

Configuration interface as shown:

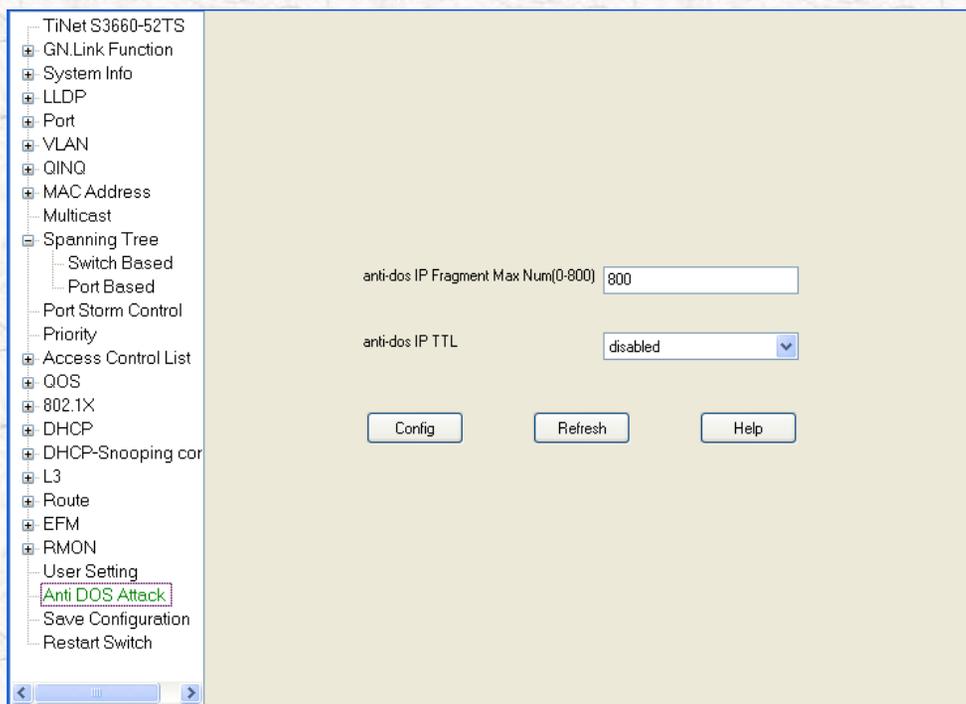


Figure33-1Anti DOS Attack Configuration Interface

**IP Fragment Max num** :System can receive the IP number of fragmented packets and receive packets resources occupied by the system, so even if the system is also subject to IP fragmentation attack can normally deal with other non-chip packet, and can ConfigurationIP slice number range, when0 indicates that the system does not

handle IP fragment packets, so the system can be avoided sub-piece attack.

**anti-dos IP TTL:**System can enable or disable the receiving packets of TTL is 0.

Click '**Config**' button, System equipment Configuration, the Configuration after Configuration results is given.

Click the '**Reresh**' button, the system will re-obtain the latest data from the device.

Click the '**Help**' button, the system will appear online help.

## 34 CPU Overload Protection

---

Configuration interface as shown:



Figure34-1CPU Overload protection Configuration Interface

Click the '**Rerensh**' button, the system will re-obtain the latest data from the device.

Click the '**Help**' button, the system will appear online help.

## 35 Quiet Time

---

Configuration interface as shown:

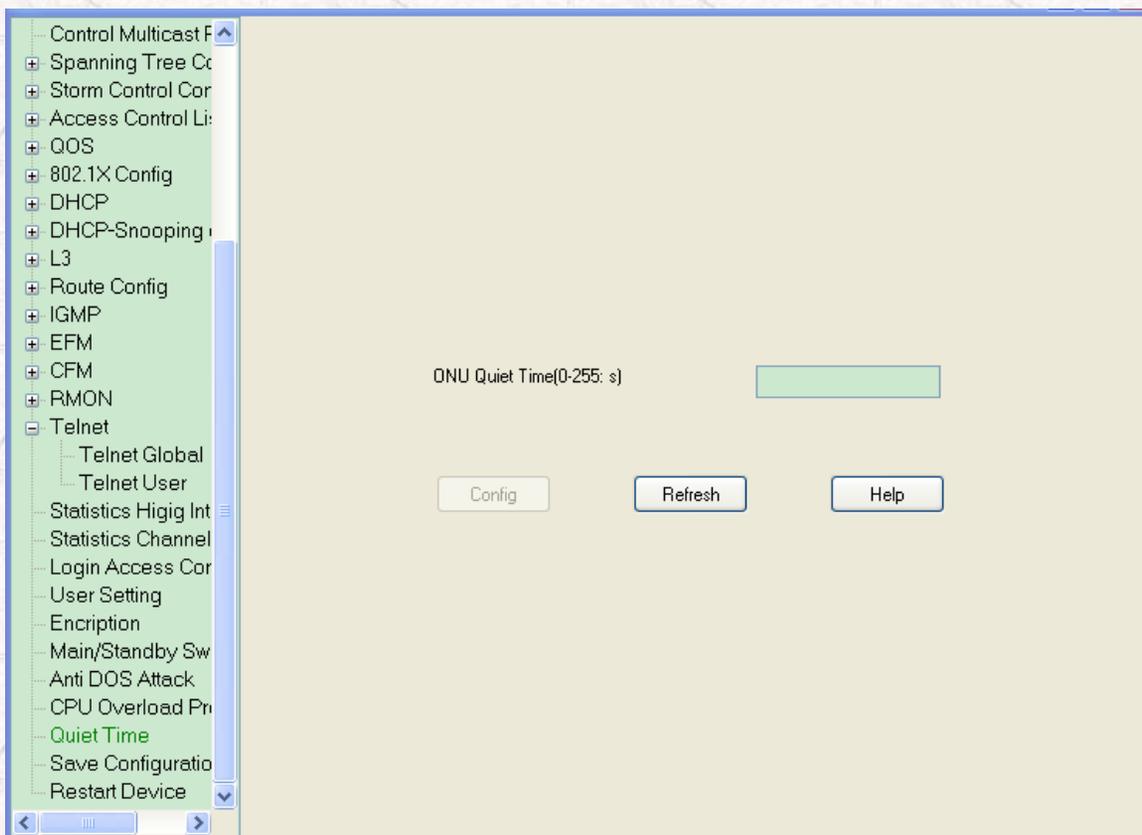


Figure35-1Quiet time Configuration Interface

Click '**Config**' button, System equipment Configuration, the Configuration after

Configuration results is given.

Click the '**Rerensh**' button, the system will re-obtain the latest data from the device.

Click the '**Help**' button, the system will appear online help.

## 36 Save Configuration

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The Configuration the Interface as shown Save Configuration parameters, modifying the parameters, you must save operation will modify the value written into NV-RAM, this modified value will not be lost next time you restart.



Figure36-1 Save Configuration Interface

Click on the 'Configuration Save' button, the system will be given to save the results saved successfully or save failed.

## 37 Restart Switch

The interface is used to restart switch. The interface as shown:

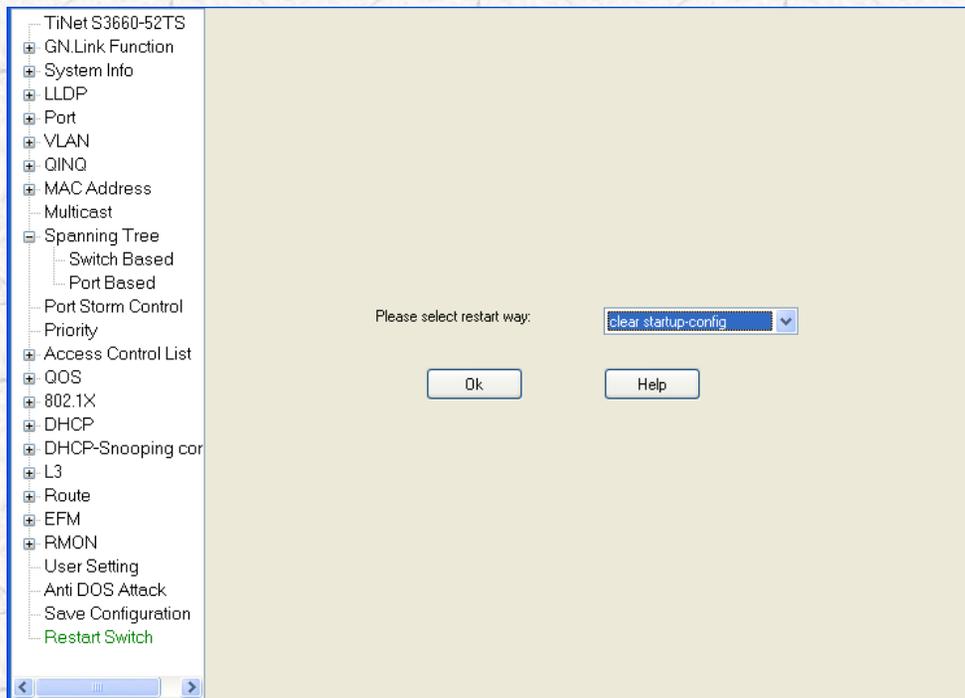


Figure37-1Restart Switch Interface

Restart, there are two ways to restart and restart the restore factory settings two types.

If you choose 'Restart' and click 'OK' button, as shown dialog box appears:

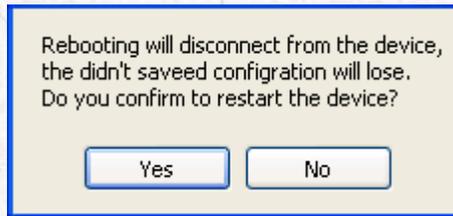


Figure37-2Make sure to restart Interface (1)

If you select 'Yes', then switch to enter the restart, restart before the completion of the switch in a non-connection state; If you select 'No', then return to the original Interface.

If you choose to restart the restore factory settings 'and click' OK 'button will appear as shown dialog box:

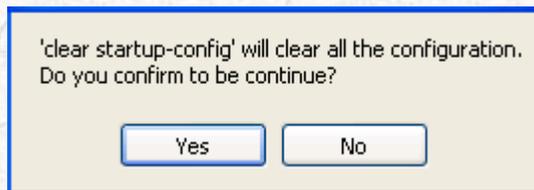


Figure37-3Make sure to restart Interface (2)

If you select 'Yes', the switch to enter the restart, reboot before the completion of the switch in a non-connection state, the reboot is complete, all Configuration restore the default settings; If you select 'No', then return to the original Interface.

# 38 EPON Configuration Management

## 38.1 Slot Type

Configuration interface as shown:

The screenshot shows a configuration interface for a device (model IEL8006-64). On the left is a tree view of configuration categories, with 'Slot Type' selected and highlighted by a red dashed box. The main area displays a table with the following data:

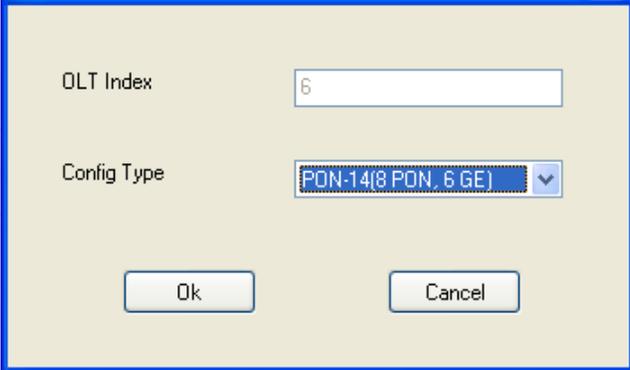
DLT Index	Config Type	Current Type	Status
2	PON-14(8 PON, 6 GE)	NULL	DOWN
3	PON-14(8 PON, 6 GE)	NULL	DOWN
4	PON-14(8 PON, 6 GE)	NULL	DOWN
5	PON-14(8 PON, 6 GE)	NULL	DOWN
6	PON-14(8 PON, 6 GE)	NULL	DOWN
7	PON-14(8 PON, 6 GE)	NULL	DOWN
8	PON-14(8 PON, 6 GE)	PON-14(8 PON, 6 GE)	ONLINE
9	GE-24(24 GE FIBER)	GE-24(24 GE FIBER)	ONLINE

At the bottom of the interface are three buttons: 'Config', 'Refresh', and 'Help'.

Figure38-1 Slot Type Configuration Interface

Select Interface one row,Click '**Config**' button pops up a parameter

configuration interface. as shown:

A dialog box with a light beige background and a blue border. It contains two input fields: 'OLT Index' with the value '6' and 'Config Type' with a dropdown menu showing 'PON-14(8 PON, 6 GE)'. At the bottom are 'Ok' and 'Cancel' buttons.

OLT Index	6
Config Type	PON-14(8 PON, 6 GE) ▼
Ok	Cancel

Figure38-2Parameter Configuration Interface

Click the '**Config**', System begin to Configure the device,After Configuration give the result of the Configuration.

Click the '**refresh**' button, the system will re-obtain the latest data from the device.

Click the '**Help**' button, the system will appear online help.

## 38.2Port Priority Configuration

Configuration interface as shown:

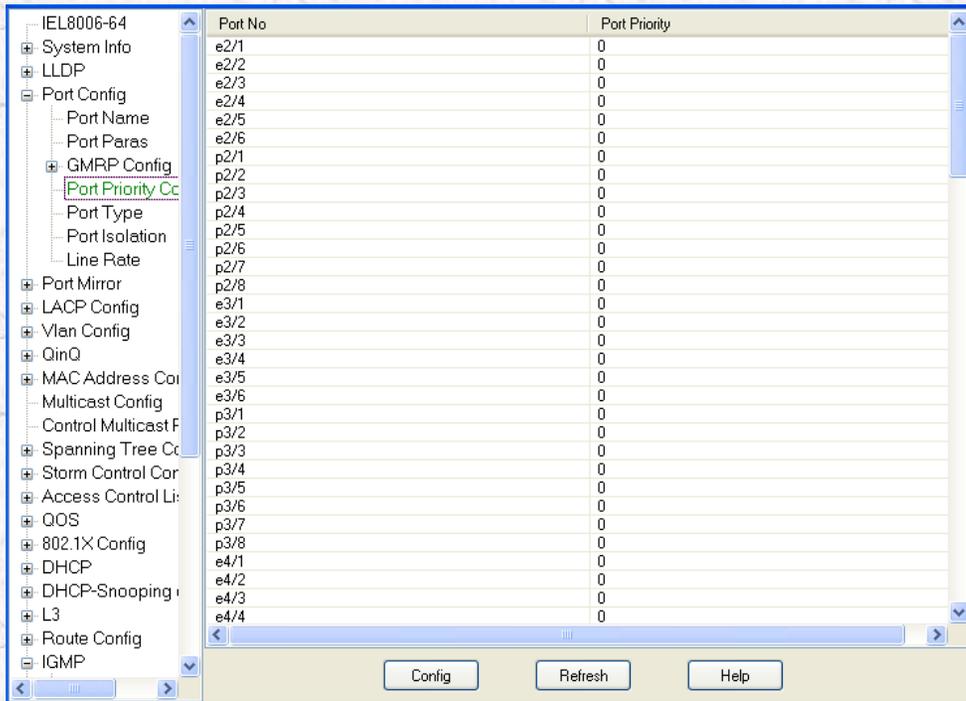


Figure38-3Port Primary Configuration Interface

Waiting to send data packets in the switch to send the order as follows: 8 queue sent from small to large, from 0-7 in each queue, in accordance with the priority of the packet from small to large to send, that is, from 07, Configuration, here is the priority of the packet queue to go with them into specific correspondence between.

Port priority: the priority of the packet from small to substantially 0-7.

Click the 'Configuration' button, the system begins to Equipment Configuration,

the Configuration after Configuration results is given.

Click the '**Rerensh**' button, the system will re-obtain the latest data from the device.

Click the '**Help**' button, the system will appear online help.

## 38.3 LACP Mode Configuration

### 38.3.1 EPON Port Mode Configuration

Configuration interface as shown:

The screenshot displays a network configuration interface for LACP Mode Configuration. On the left, a tree view shows the configuration hierarchy, with 'LACP Mode C' selected. The main area contains a table with the following data:

Group Index	Group PortList	Group Rule
2	e2/3-e2/4	src-mac

At the bottom of the interface, there are five buttons: Add, Modify, Delete, Refresh, and Help.

Figure38-4LACP Port ModeConfiguration Interface

Group Index(0-5)  Group Rule

Port Member2/1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>																	
Port Member21	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3/1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
Port Member17	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Port Member13	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5/1	2	3	4	5	6	7	8	
Port Member9	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Port Member5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Port Member7/1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Port Member21	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8/1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Port Member17	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Port Member13	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Ok Cancel

Figure38-5Parameter Configuration Interface

**Load balancing strategy:** Total source MAC, destination MA, source and destination MAC, source IP, destination IP and source and destination IP six types.

Add LACP port Click the 'Add' button, the device brings together the

Configuration, the Configuration after Configuration results is given.

Click 'Edit' button, the system began to modify LACP aggregation Configuration of the equipment, the Configuration after Configuration results is given.

Click the 'delete' button, the system will delete the selected LACP port brings together the Configuration, the Configuration after Configuration results is given.

Click the '**Rerensh**' button, the system will re-obtain the latest data from the device.

Click the '**Help**' button, the system will appear online help.

### **38.3.2 LACP Model Configuration**

Configuration interface as shown:

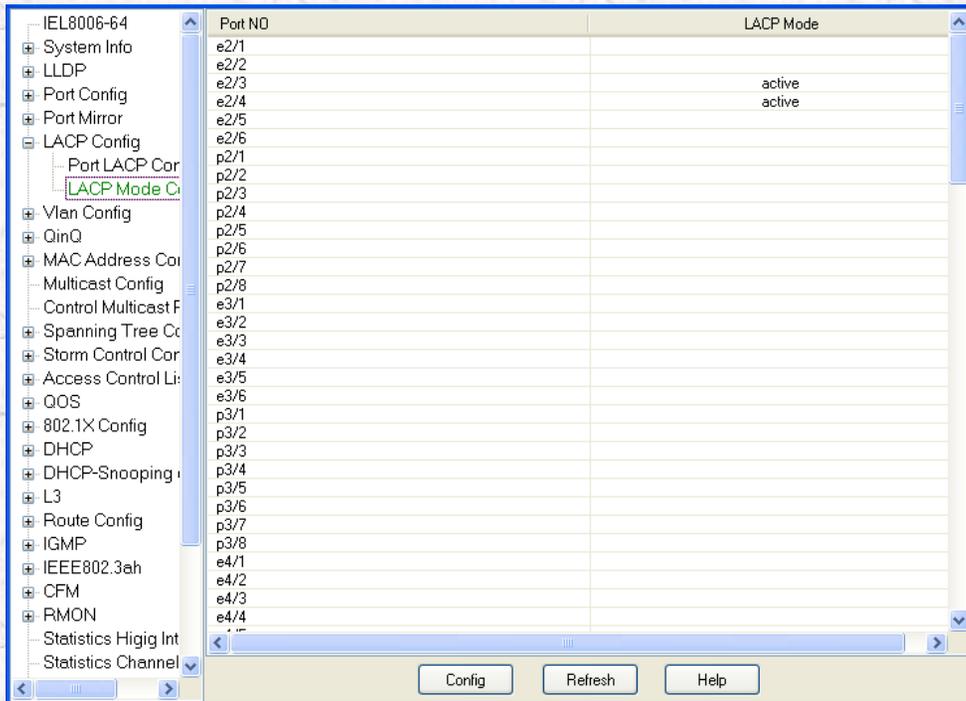


Figure38-6LACP Mode Configuration Interface

**LACP mode Config:**Including static,active and passive three model.

Click the '**Config**' button, System begin to configure the device., Configuration and send the configuration result.

Click the '**Refresh**' button, the system will re-obtain the latest data from the device.

Click the '**Help**' button, the system will appear online help.

## 38.4 EPON QinQ Configuration

### 38.4.1 Global QinQ Configuration

Configuration interface as shown:

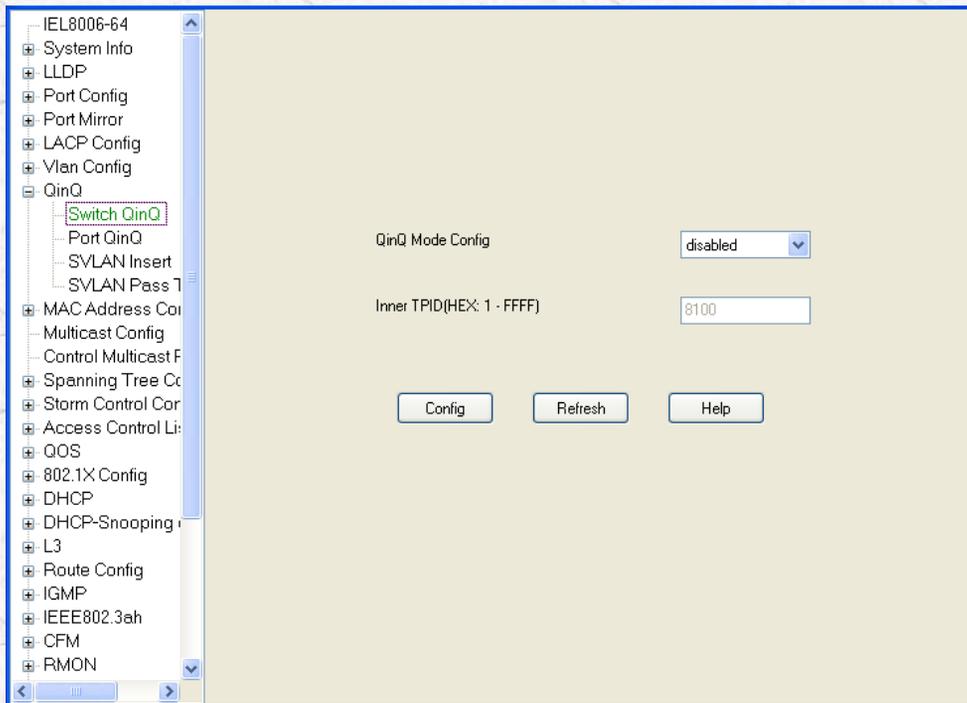


Figure38-7QinQ Configuration

Click the '**Config**' button, System begin to configure the device., Configuration and send the configuration result.

Click '**Refresh**' button, The system will get the last data from device again.

Click the 'Help' button, the system will appear online help.

## 38.4.2 Port QinQ Configuration

There are two choices of the QinQ mode of the port, First Configuration for both uplink and another Configuration for the customer; the former is not allowed to ignore the entrance of the tag of the packet header, while the latter allows to ignore the tag of the packet header.



Notes: only When QinQ Mode Configuration is enabled, allows the Configuration port QinQ mode, and outer TPID.

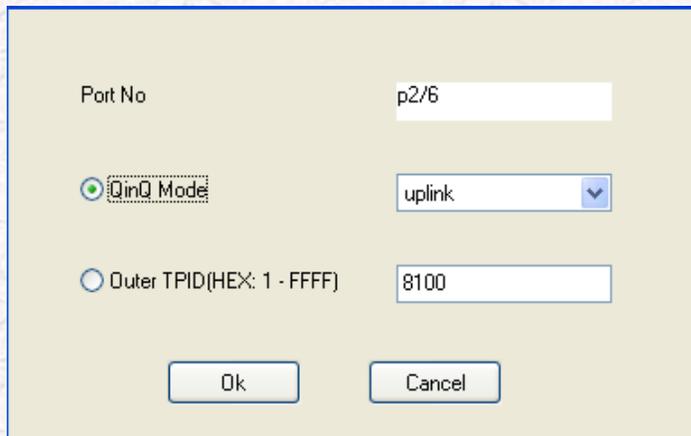
The screenshot shows a network configuration interface for device XHE9610. The left sidebar contains a tree view of configuration categories, with 'Port QinQ' selected. The main area displays a table with the following data:

Port No	Port QinQ Mode	Outer TPID(HEX)
e2/1	uplink	8100
e2/2	uplink	8100
e2/3	uplink	8100
e2/4	uplink	8100
e2/5	uplink	8100
e2/6	uplink	8100
p2/1	uplink	8100
p2/2	uplink	8100
p2/3	uplink	8100
p2/4	uplink	8100
p2/5	uplink	8100
p2/6	uplink	8100
p2/7	uplink	8100
p2/8	uplink	8100
e3/1	uplink	8100
e3/2	uplink	8100
e3/3	uplink	8100
e3/4	uplink	8100
e3/5	uplink	8100
e3/6	uplink	8100
p3/1	uplink	8100
p3/2	uplink	8100
p3/3	uplink	8100
p3/4	uplink	8100
p3/5	uplink	8100
p3/6	uplink	8100
p3/7	uplink	8100
p3/8	uplink	8100
e4/1	uplink	8100
e4/2	uplink	8100
e4/3	uplink	8100
e4/4	uplink	8100

At the bottom of the interface, there are three buttons: 'Config', 'Refresh', and 'Help'.

Figure38-8Port QinQConfiguration Interface

Select one row of the tabel.,Click '**Config**' button,Pop-up as shown:



The screenshot shows a configuration dialog box with a light beige background and a blue border. It contains the following elements:

- A text label "Port No" followed by a text input field containing "p2/6".
- A radio button labeled "QinQ Mode" which is selected (indicated by a green dot).
- A dropdown menu next to the "QinQ Mode" radio button, currently showing "uplink".
- A radio button labeled "Outer TPID(HEX: 1 - FFFF)" which is unselected.
- A text input field next to the "Outer TPID" radio button containing the value "8100".
- At the bottom, there are two buttons: "Ok" and "Cancel".

Figure38-9Port QinQ Configuration Parameter Interface

Click '**OK**' button,The system begin to configure the equipment and give the result after configuration.

Click '**Rerensh**' button,The system will get the last data from device again.

Click the '**Help**' button, the system will appear online help.

## 38.5MAC AGE Time Configuration

Configuration interface as shown:

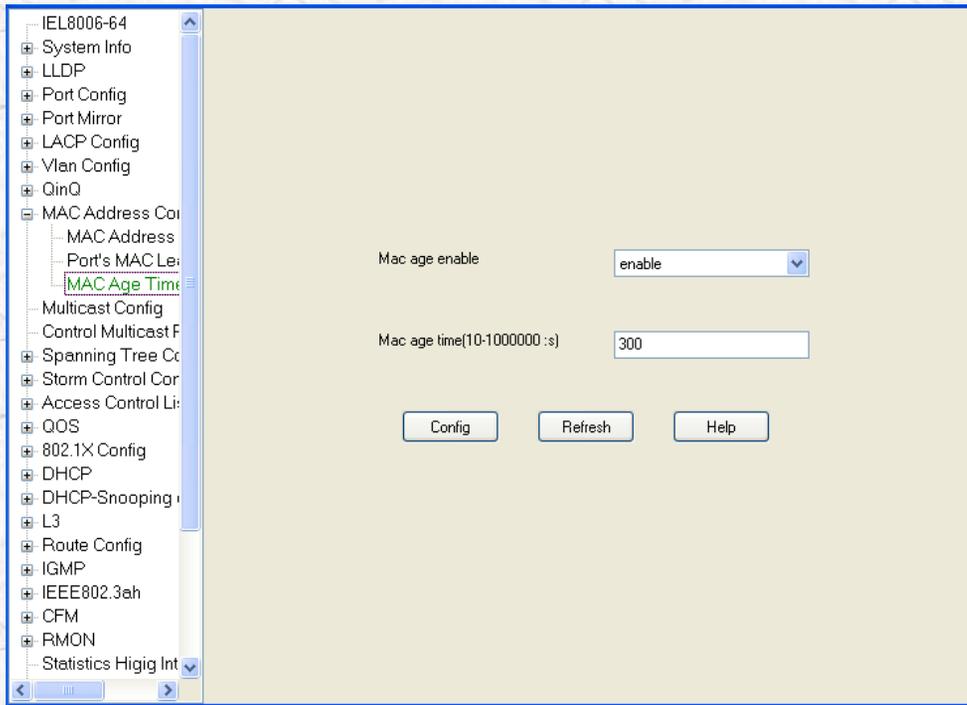


Figure 34-1 MAC Age Time Configuration Interface

Click the '**Configuration**' button, the system begin to configure the device and give the resulte after configuration.

Click the '**Rerensh**' button, the system will re-obtain the latest data from the device.

Click the '**Help**' button, the system will appear online help.

## 38.6 Control Multicast Parameter Configuration

Configuration interface as shown:

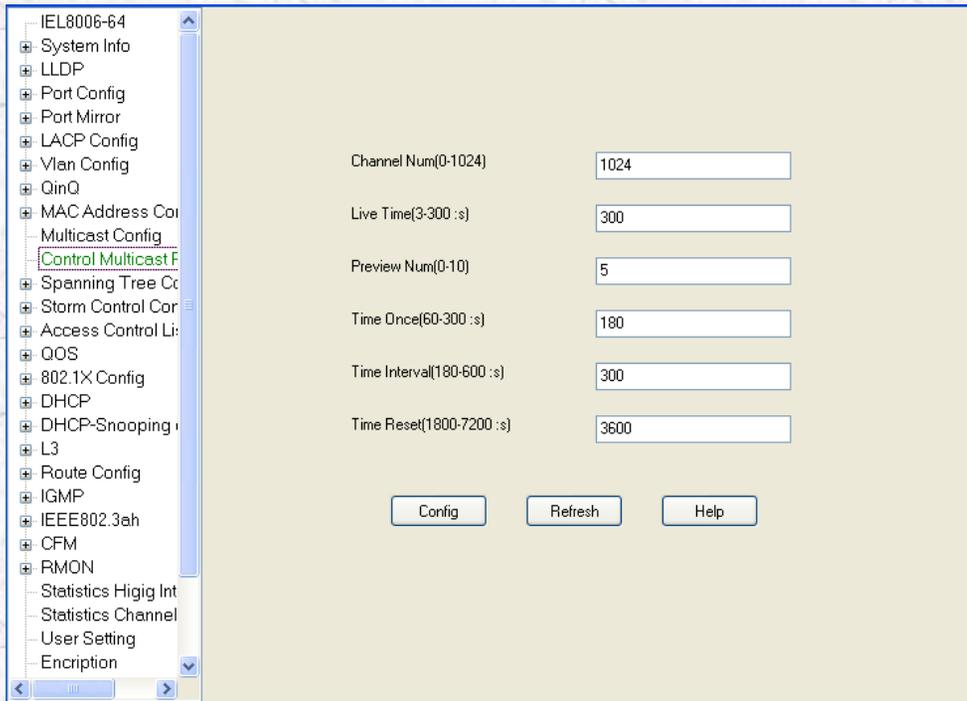


Figure38-10Control Multicast Parameter Configuration Interface

Click '**Config**' button,The system begin to configure the equipment and give the result after configuration.

Click the '**Refresh**' button, the system will re-obtain the latest data from the device.

Click the '**Help**' button, the system will appear online help.

## 38.7 Storm Control Configuration

### 38.7.1 Switch Undefined Message Forward Configuration

Configuration Interface as shown:

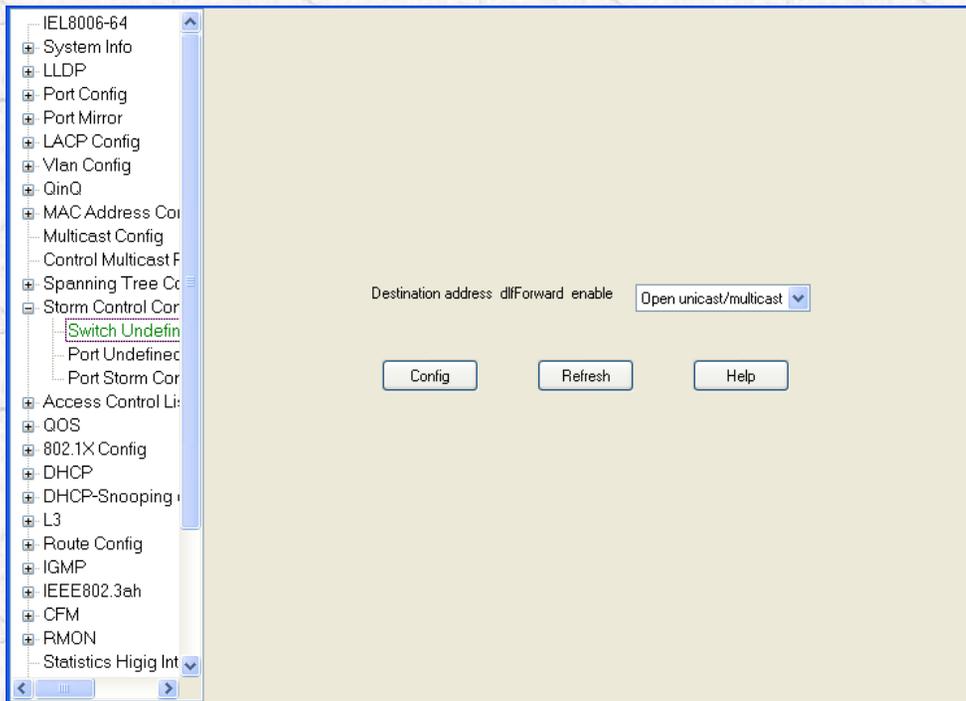


Figure38-11Switcth Undefined Message Forward Configuration Interface

Click '**Config**' button, The system begin to confiure the equipment and give the result after configuration.

Click the 'Refresh' button, the system will re-obtain the latest data from the device.

Click the 'Help' button, the system will appear online help.

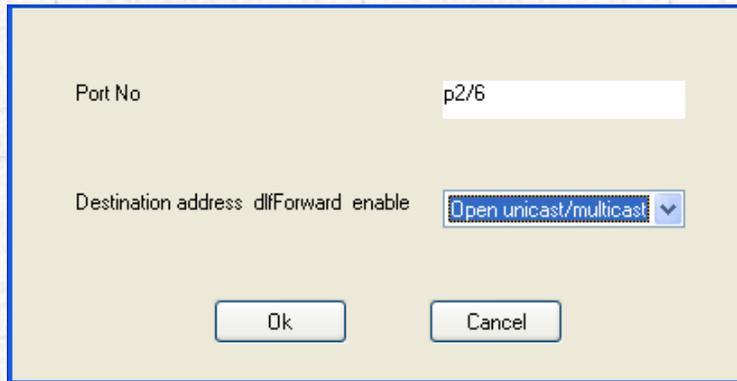
## 38.7.2 Port Undefined Message Forward Configuration

Configuration Interface as shown:

Port No	Destination Address	diffForward	Enable
e2/1	Open unicast/multicast		
e2/2	Open unicast/multicast		
e2/3	Open unicast/multicast		
e2/4	Open unicast/multicast		
e2/5	Open unicast/multicast		
e2/6	Open unicast/multicast		
p2/1	Open unicast/multicast		
p2/2	Open unicast/multicast		
p2/3	Open unicast/multicast		
p2/4	Open unicast/multicast		
p2/5	Open unicast/multicast		
p2/6	Open unicast/multicast		
p2/7	Open unicast/multicast		
p2/8	Open unicast/multicast		
e3/1	Open unicast/multicast		
e3/2	Open unicast/multicast		
e3/3	Open unicast/multicast		
e3/4	Open unicast/multicast		
e3/5	Open unicast/multicast		
e3/6	Open unicast/multicast		
p3/1	Open unicast/multicast		
p3/2	Open unicast/multicast		
p3/3	Open unicast/multicast		
p3/4	Open unicast/multicast		
p3/5	Open unicast/multicast		
p3/6	Open unicast/multicast		
p3/7	Open unicast/multicast		
p3/8	Open unicast/multicast		
e4/1	Open unicast/multicast		
e4/2	Open unicast/multicast		
e4/3	Open unicast/multicast		
e4/4	Open unicast/multicast		

Figure38-12Port Undefined Message Forward Configuration Interface

Select a row in a table, that is, a port, Click 'Config' button, Interface as shown:



The image shows a dialog box titled "Parameter Configuration Interface". It has a light beige background and a blue border. Inside the dialog, there are two main sections. The first section is labeled "Port No" and contains a text input field with the value "p2/6". The second section is labeled "Destination address difForward enable" and contains a dropdown menu with the selected option "Open unicast/multicast". At the bottom of the dialog, there are two buttons: "Ok" on the left and "Cancel" on the right.

Figure38-13Parameter Configuration Interface

Click '**OK**' button,The system begin to confiure the equipment and give the result after configuration.

Click the '**Rerensh**' button, the system will re-obtain the latest data from the device.

Click the '**Help**' button, the system will appear online help.

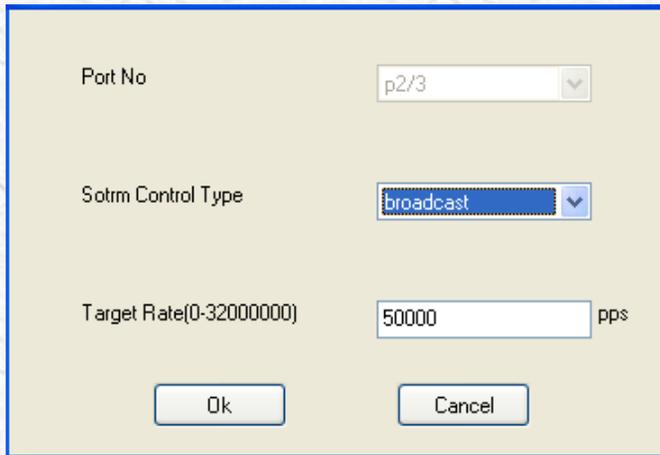
### 38.7.3 Port Storm Control

It can control the speed of Unicast/MultiCast/BroadCast.Configuration Interface as shown:

PortNo	Storm Control Type	Target Rate
e2/1	broadcast	50000
e2/2	broadcast	50000
e2/3	broadcast	50000
e2/4	broadcast	50000
e2/5	broadcast	50000
e2/6	broadcast	50000
p2/1	broadcast	50000
p2/2	broadcast	50000
p2/3	broadcast	50000
p2/4	broadcast	50000
p2/5	broadcast	50000
p2/6	broadcast	50000
p2/7	broadcast	50000
p2/8	broadcast	50000
e3/1	broadcast	50000
e3/2	broadcast	50000
e3/3	broadcast	50000
e3/4	broadcast	50000
e3/5	broadcast	50000
e3/6	broadcast	50000
p3/1	broadcast	50000
p3/2	broadcast	50000
p3/3	broadcast	50000
p3/4	broadcast	50000
p3/5	broadcast	50000
p3/6	broadcast	50000
p3/7	broadcast	50000
p3/8	broadcast	50000
e4/1	broadcast	50000
e4/2	broadcast	50000
e4/3	broadcast	50000
e4/4	broadcast	50000

Figure38-14Unicast/MultiCast/BroadCast Control Interface

Select a row in a table,that is,a port ,Click '**Edit**' button,It will appear the Interface:

A dialog box titled "Parameter Configuration Interface" with a light beige background and a blue border. It contains three configuration fields: "Port No" with a dropdown menu showing "p2/3", "Sotrm Control Type" with a dropdown menu showing "broadcast", and "Target Rate(0-32000000)" with a text input field containing "50000" and the unit "pps" to its right. At the bottom, there are two buttons: "Ok" and "Cancel".

Port No	p2/3
Sotrm Control Type	broadcast
Target Rate(0-32000000)	50000 pps

Ok Cancel

Figure38-15Parameter Configuration Interface

Click '**OK**' button,The system begin to confire the equipment and give the result after configuration.

Click the '**Rerensh**' button, the system will re-obtain the latest data from the device.

Click the '**Help**' button, the system will appear online help.

## 38.8Queue Schedule

Configuration interface as shown:

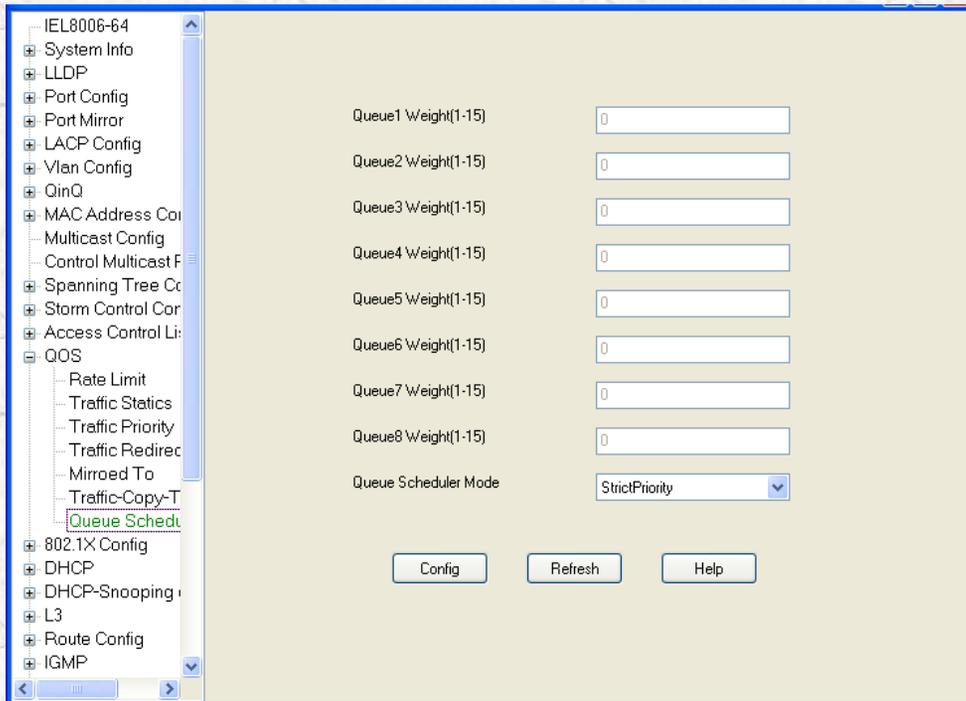


Figure38-16Queue Schedule Interface

**Queue Schedule Model:**Including StrictPriority,WRR and SP-WRR three models.

Click '**Config**' button,The system begin to confiure the equipment and give the result after configuration.

Click the '**Refresh**' button, the system will re-obtain the latest data from the device.

Click the '**Help**' button, the system will appear online help.

## 38.9 IGMP

### 38.9.1 IGMP Proxy Configuration

Configuration interface as shown:

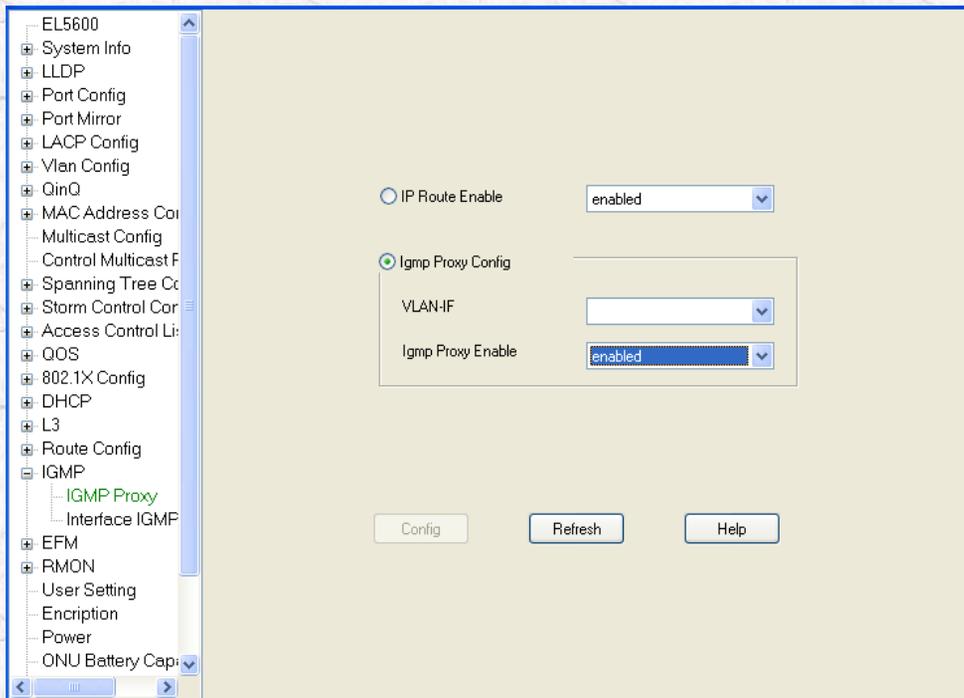


Figure38-17IGMP proxy Configuration Interface

Click '**Config**' button, The system begin to confiure the equipment and give the result after configuration.

Click the 'Rerensh' button, the system will re-obtain the latest data from the device.

Click the 'Help' button, the system will appear online help.

### 38.9.2 Interface IGMP Enabled Configuration

Configuration interface as shown:

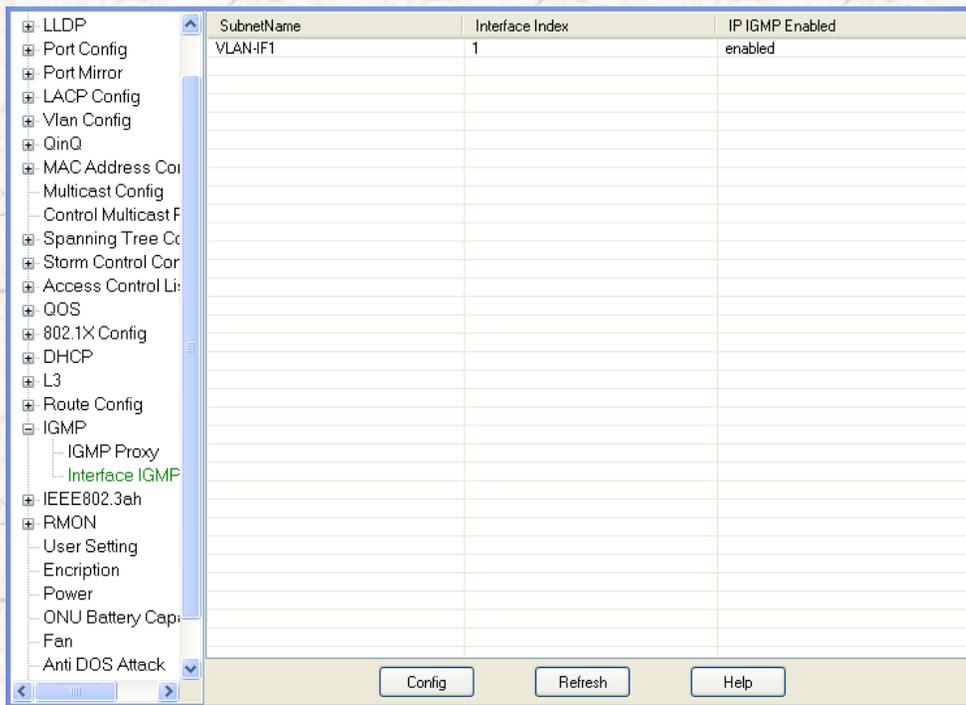
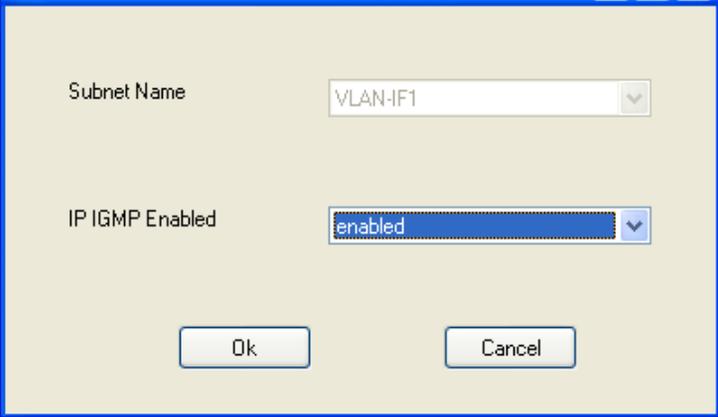


Figure38-18Interface IGMPEnabledConfiguration Interface

Select the Interface which his party, Click 'Configuration' button on the selected

interface modify Configuration, the Pop-up Parameter the Configuration Interface, as shown below. Such as direct Click 'Configuration', corresponding to the drop-down list, select the Layer 3 interface name corresponding to the Configuration interface the IP IGMPEnabled. Corresponding drop-down list, such as a three-tier interface name, first create a Layer 3 interface.



The image shows a dialog box titled "Parameter Configuration Interface" with a light beige background and a blue border. It contains two configuration fields: "Subnet Name" with a dropdown menu showing "VLAN-IF1", and "IP IGMP Enabled" with a dropdown menu showing "enabled". At the bottom, there are two buttons: "Ok" and "Cancel".

Figure38-19Parameter Configuration Interface

Click the '**Reresh**' button, the system will re-obtain the latest data from the device.

Click the '**Help**' button, the system will appear online help.

## 38.10CFM Configuration

CFM (Connectivity the Fault Management, Connectivity Fault Management

Protocol) is a Layer 2 link, VLAN-based end-to-end OAM (the Operations, Administration, and the Maintenance, operation, management and maintenance) mechanisms defined by the IEEE 802.1ag, the mainused to detects link layer 2 network connectivity, to confirm the fault and determine the location of failure.

### 38.10.1 CFM Maintenance Domain Configuration

Configuration interface as shown:

The screenshot displays a configuration interface for CFM Maintenance Domains. On the left is a navigation tree with 'CFM Maintenance' selected. The main area contains a table with the following data:

Maintenance Dom...	Maintenance Dom...	Maintenance Dom...	Maintenance Dom...	Status
1	dns-name	naname	1	inactive
2	none		2	inactive

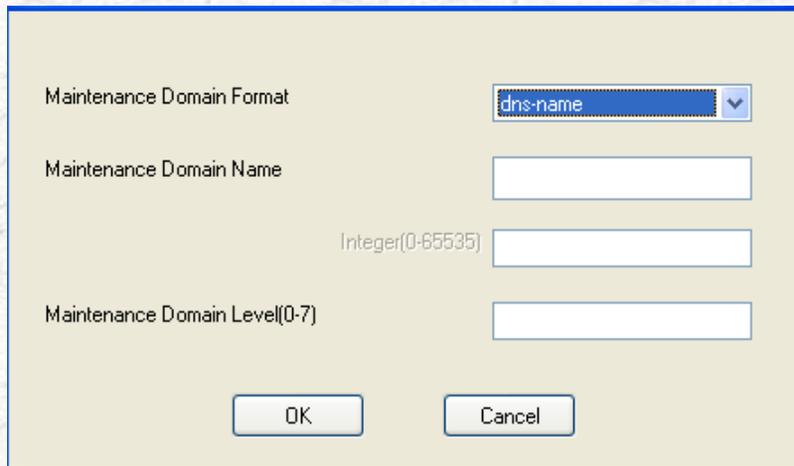
At the bottom of the interface are four buttons: 'Config', 'Delete', 'Refresh', and 'Help'.

Figure38-20CFM Maintenacne Domain Configuration Interface

**Maintenance Domain Model:**Including none,dns-name,mac-uint and string.

When the mode to none, there is no need to enter the maintenance of the domain name; the dns-name mode, enter the maintenance domain name length not more than 43 characters; mode, enter the maintenance domain mac-uint, said two parts of the MAC address and integer;mode name to string, enter the maintenance of the domain name length not more than 43 characters;

Click '**Config**' button pops up a parameter configuration interface. as shown:



The image shows a parameter configuration dialog box with a light beige background and a blue border. It contains the following fields and controls:

- Maintenance Domain Format:** A dropdown menu with 'dns-name' selected.
- Maintenance Domain Name:** A text input field.
- Integer(0-65535):** A text input field.
- Maintenance Domain Level(0-7):** A text input field.
- OK** and **Cancel** buttons at the bottom.

Figure38-21Parameter Configuration Interface

Click '**Delete**' button,it will delete something about the maintenance domain Configuration Information.

Click the '**Rerensh**' button, the system will re-obtain the latest data from the device.

Click the 'Help' button, the system will appear online help.

## 38.10.2 CFM Maintenance Association Configuration

Configuration interface as shown:

Maintenance...	Maintenanc...	Maintenanc...	Maintenanc...	Primary VL...	CCM Interval	Status
1	1	vpn-id	12:32:10:400	2	1	inactive
2	1	string	stringname	200	60	inactive

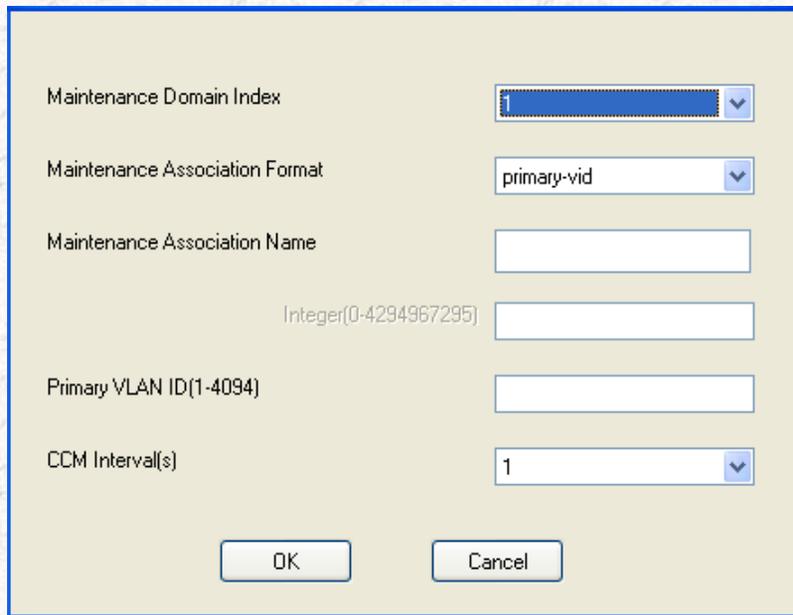
Figure38-22CFM Maintenance Configuration Interface

**Maintenance Domain Model:**Including primary-vid,string,uint16 and vpn-id.

When the primary-vid mode, enter the name of the maintenance set range is from 1-4094; mode name to string, enter the maintenance of the set name length not more than 45 characters; mode when uint16 input to maintain the set

name range 0-65535; modetwo parts of the vpn-id, enter the maintenance set name, including the OUI (the first three bytes of the MAC address) and integer;

Click '**Config**' button pops up a parameter configuration interface. as shown:



The image shows a 'Parameter Configuration Interface' dialog box with a light beige background and a blue border. It contains the following fields and controls:

- Maintenance Domain Index:** A dropdown menu with the value '1' selected.
- Maintenance Association Format:** A dropdown menu with the value 'primary-vid' selected.
- Maintenance Association Name:** An empty text input field.
- Integer(0-4294967295):** An empty text input field.
- Primary VLAN ID(1-4094):** An empty text input field.
- CCM Interval(s):** A dropdown menu with the value '1' selected.

At the bottom of the dialog box, there are two buttons: 'OK' and 'Cancel'.

Figure38-23Parameter Configuration Interface

Click '**Delete**' button,Delete something about the maintenance Configuration Information.

Click the '**Rerensh**' button, the system will re-obtain the latest data from the device.

Click the '**Help**' button, the system will appear online help.

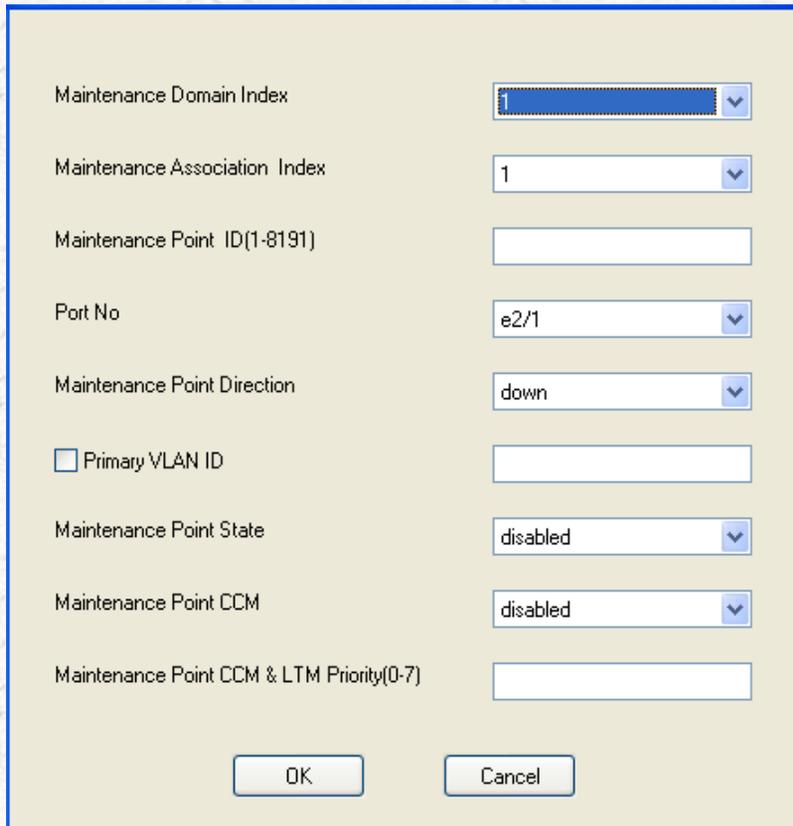
### 38.10.3 CFM Maintenance Point Configuration

Configuration interface as shown:

Mainten...	Maint...	Maint...	Port No	Maint...	Primar...	Maint...	Maint...	Maint...	Status
1	1	12	e2/1	down	0	disabled	disabled	3	inactive
2	1	81	e2/1	down	200	disabled	disabled	1	inactive

Figure38-24CFM Maintenance Point Configuration Interface

Click '**Config**' button pops up a parameter configuration interface. as shown:



The image shows a 'Parameter Configuration Interface' dialog box with a light beige background and a blue border. It contains several configuration fields:

- Maintenance Domain Index: A dropdown menu with a blue background and a downward arrow.
- Maintenance Association Index: A dropdown menu with the value '1' and a downward arrow.
- Maintenance Point ID(1-8191): An empty text input field.
- Port No: A dropdown menu with the value 'e2/1' and a downward arrow.
- Maintenance Point Direction: A dropdown menu with the value 'down' and a downward arrow.
- Primary VLAN ID: A checkbox followed by an empty text input field.
- Maintenance Point State: A dropdown menu with the value 'disabled' and a downward arrow.
- Maintenance Point CCM: A dropdown menu with the value 'disabled' and a downward arrow.
- Maintenance Point CCM & LTM Priority(0-7): An empty text input field.

At the bottom of the dialog box, there are two buttons: 'OK' and 'Cancel'.

Figure38-25Parameter Configuration Interface

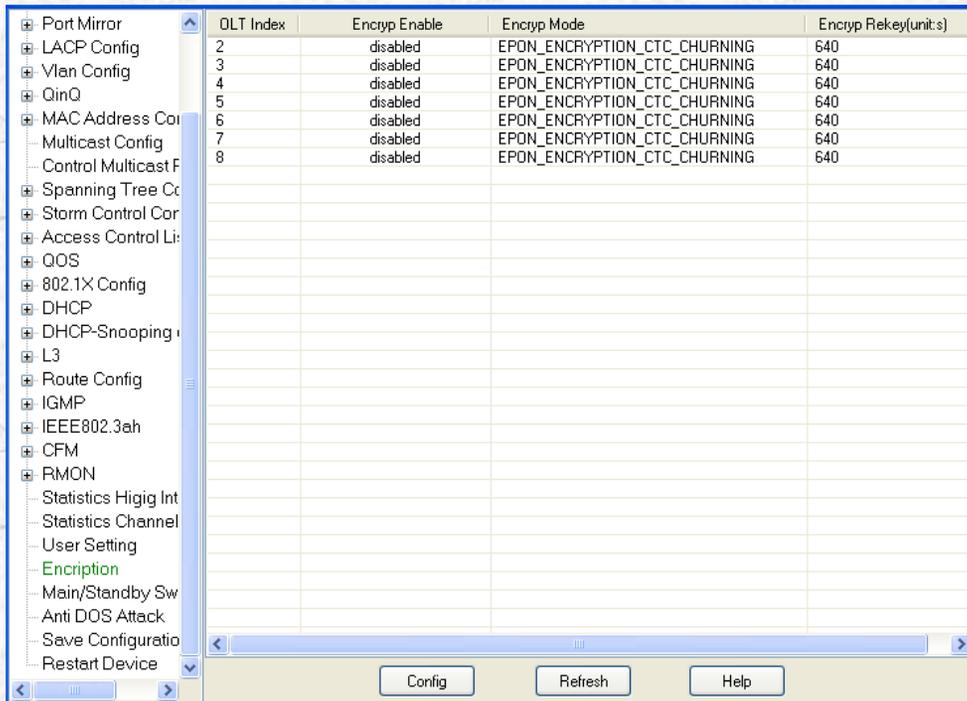
Click '**Delete**' button,Delete something you select about the maintenance point Configuration Information.

Click '**Rerensh**' button,The system will get the last data from device again.

Click the '**Help**' button, the system will appear online help.

## 38.11 Encryption Configuration

Configuration interface as shown:

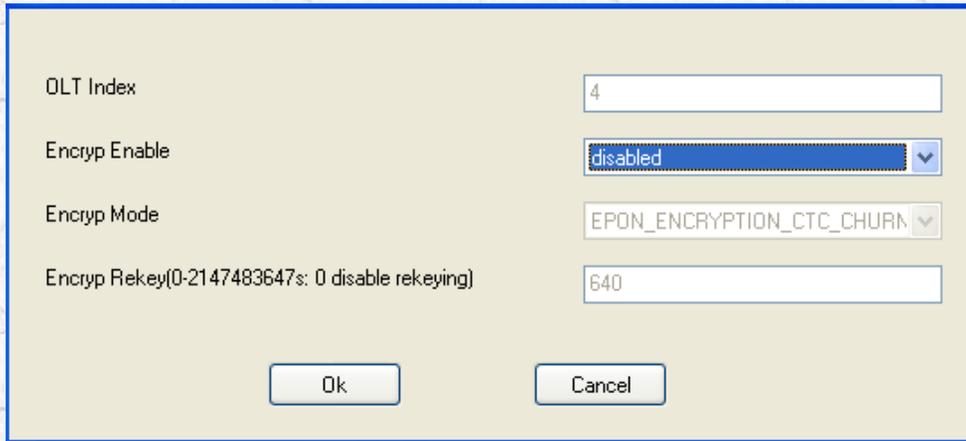


OLT Index	Encryp Enable	Encryp Mode	Encryp Rekey(unit:s)
2	disabled	EPON_ENCRYPTION_CTC_CHURNING	640
3	disabled	EPON_ENCRYPTION_CTC_CHURNING	640
4	disabled	EPON_ENCRYPTION_CTC_CHURNING	640
5	disabled	EPON_ENCRYPTION_CTC_CHURNING	640
6	disabled	EPON_ENCRYPTION_CTC_CHURNING	640
7	disabled	EPON_ENCRYPTION_CTC_CHURNING	640
8	disabled	EPON_ENCRYPTION_CTC_CHURNING	640

The screenshot shows a web-based configuration interface. On the left is a vertical navigation menu with various configuration options. The 'Encryption' option is highlighted in green. The main area displays a table with four columns: OLT Index, Encryp Enable, Encryp Mode, and Encryp Rekey(unit:s). The table contains eight rows of data, all with 'disabled' in the Encryp Enable column and 'EPON\_ENCRYPTION\_CTC\_CHURNING' in the Encryp Mode column. At the bottom of the interface are three buttons: 'Config', 'Refresh', and 'Help'.

Figure38-26Encryption Configuration Interface

Select one row of the Interface,Click '**Config**' button pops up a parameter configuration interface. as shown:



The image shows a 'Parameter Configuration Interface' dialog box with a light beige background and a blue border. It contains four configuration fields and two buttons. The fields are: 'OLT Index' with a text input containing '4'; 'Encryp Enable' with a dropdown menu showing 'disabled'; 'Encryp Mode' with a dropdown menu showing 'EPON\_ENCRYPTION\_CTC\_CHURN'; and 'Encryp Rekey(0-2147483647s: 0 disable rekeying)' with a text input containing '640'. At the bottom, there are 'Ok' and 'Cancel' buttons.

OLT Index	4
Encryp Enable	disabled
Encryp Mode	EPON_ENCRYPTION_CTC_CHURN
Encryp Rekey(0-2147483647s: 0 disable rekeying)	640

Figure38-27Parameter Configuration Interface

**Encrpt**

**Mode:**Including

EPON\_ENCRYPTION\_AES\_48,EPON\_ENCRYPTION\_AES\_32 and EPON\_ENCRYPTION\_CTC\_CHURNING three models.

**Encrype Rekey:**Range from 0 to 2147483647.

Click '**Config**' button,The system begin to confiure the equipment and give the result after configuration.

Click the '**refresh**' button, the system will re-obtain the latest data from the device.

Click the '**Help**' button, the system will appear online help.



## 38.13ONU Battery power

Configuration interface as shown:

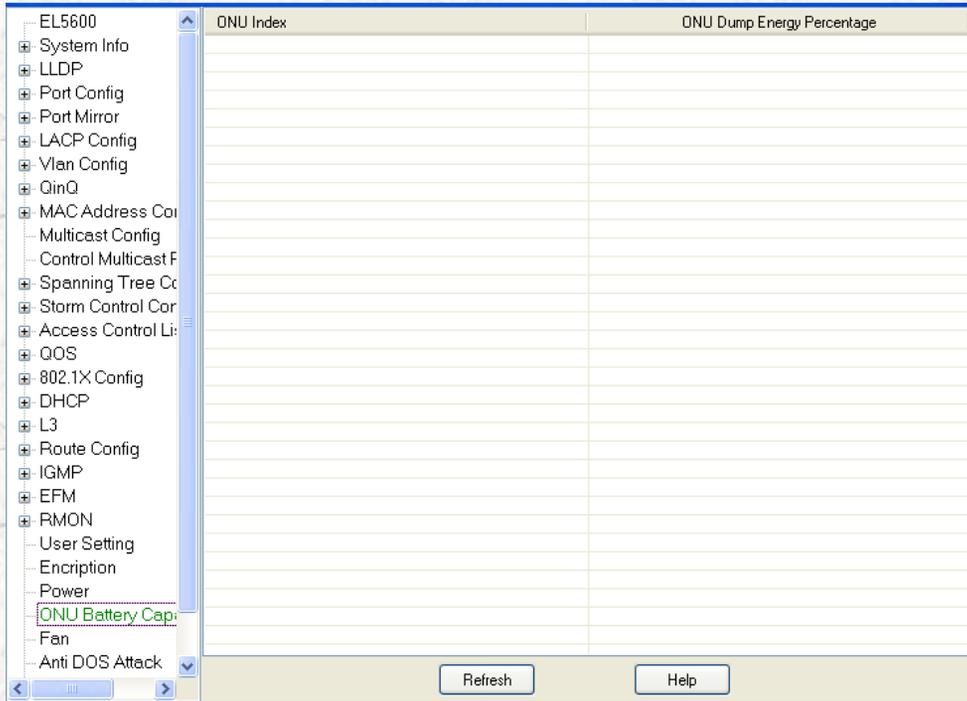


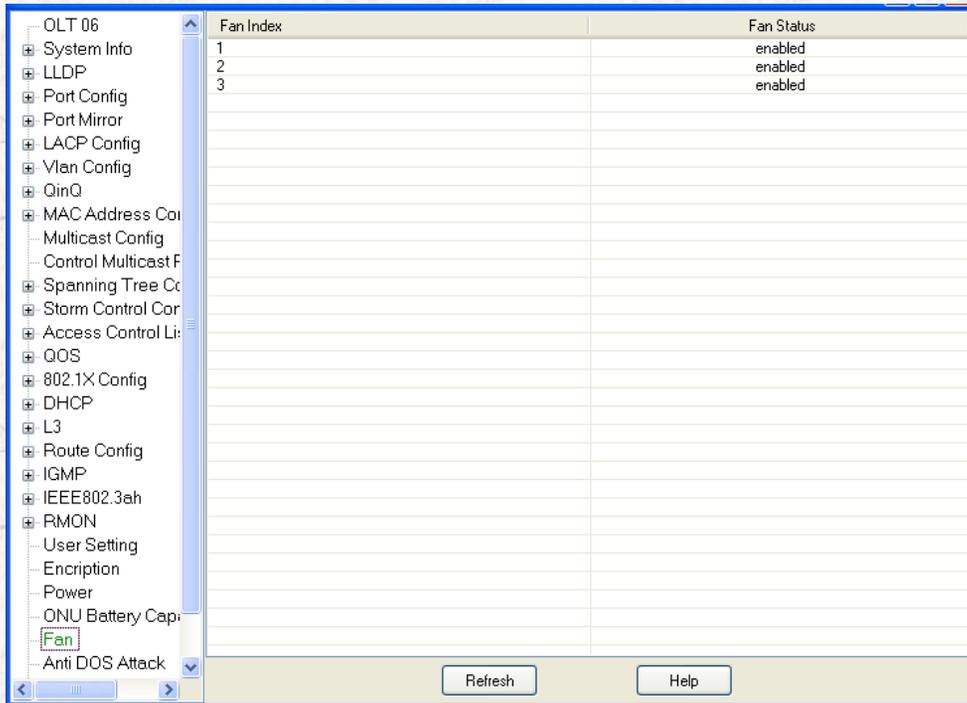
Figure38-29ONU Battery Power Configuration Interface

Click the '**Rerensh**' button, the system will re-obtain the latest data from the device.

Click the '**Help**' button, the system will appear online help.

## 38.14 Fan Configuration

Configuration interface as shown:



The screenshot displays a configuration interface for a device. On the left is a tree view of configuration categories, with 'Fan' selected. The main area shows a table with two columns: 'Fan Index' and 'Fan Status'. The table contains three rows of data, all with 'enabled' status. At the bottom of the interface are 'Refresh' and 'Help' buttons.

Fan Index	Fan Status
1	enabled
2	enabled
3	enabled

Figure38-30Fan Configuration Interface

Click the '**Refresh**' button, the system will re-obtain the latest data from the device.

Click the '**Help**' button, the system will appear online help.

## 38.15 Main/standby Switch Configuration

Configuration interface as shown:

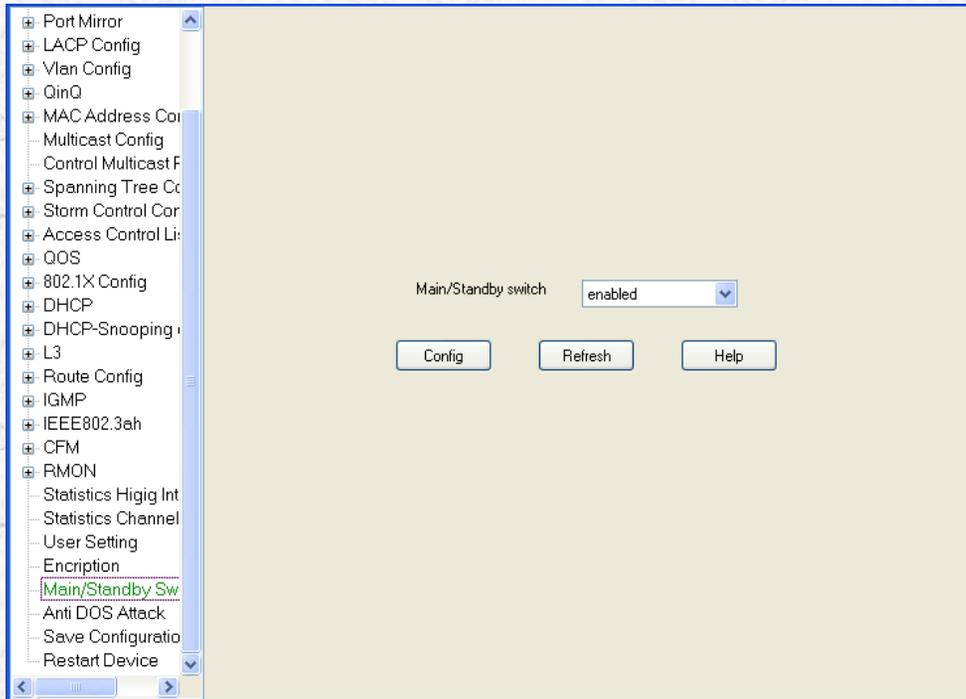


Figure38-31Main/StandbyConfiguration Interface

Click '**Config**' button, The system begin to confiure the equipment and give the result after configuration.

Click the '**Rerensh**' button, the system will re-obtain the latest data from the device.

Click the **'Help'** button, the system will appear online help.

## 38.16 EPON Save Configuration

Configuration interface as shown:

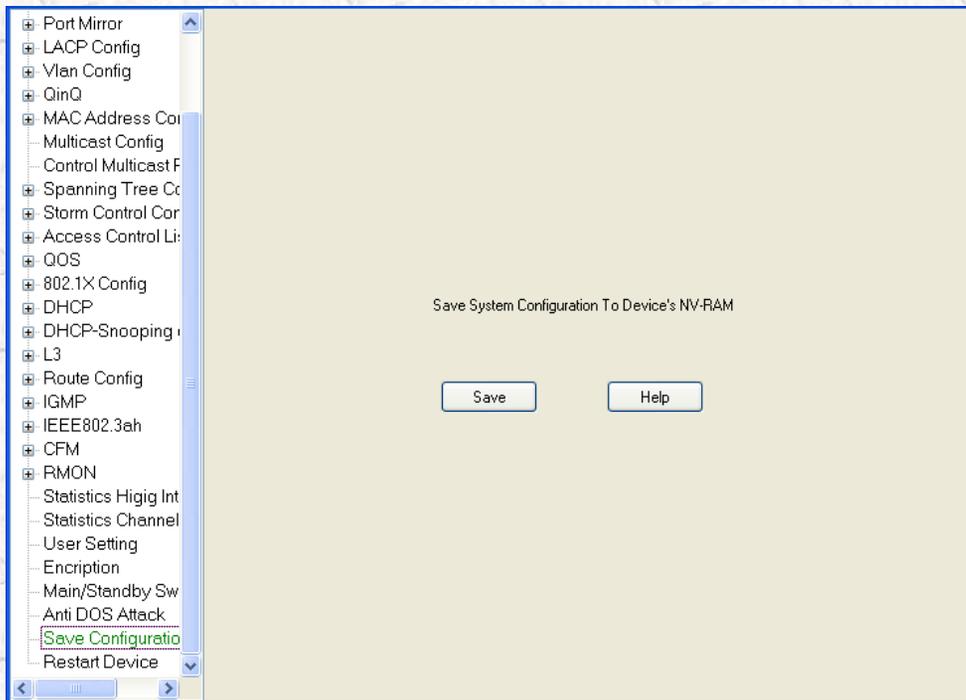


Figure38-32 Save Configuration Interface

Click **'Save'** button, The system begin to confuire the equipment and give the result after configuration.

Click the **'Help'** button, the system will appear online help.

## 38.17 Restart Device

Configuration interface as shown:

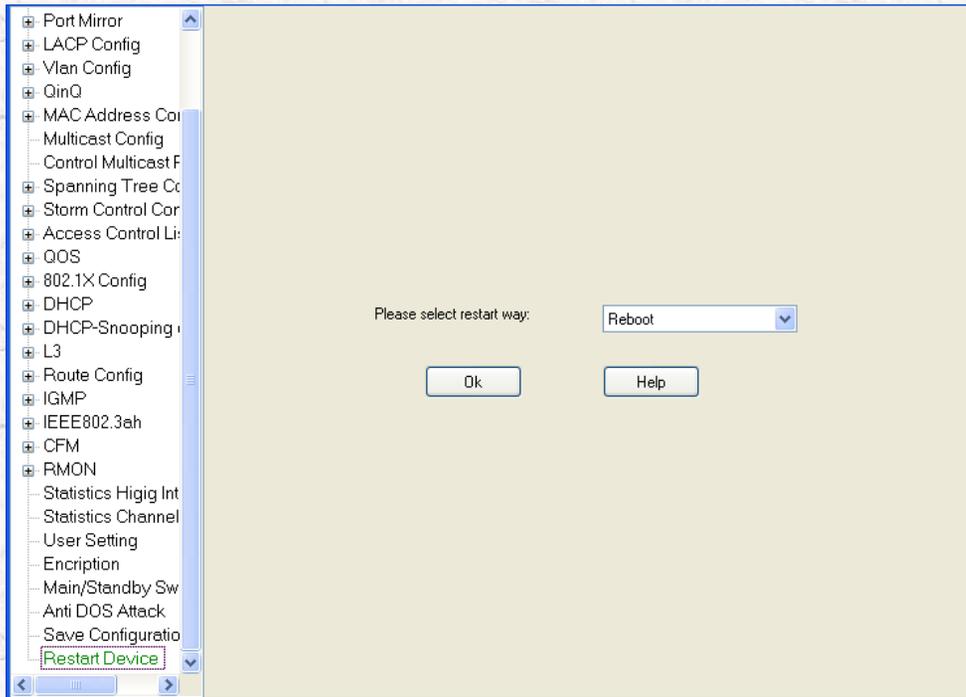


Figure38-33Restart device Interface

The style of restart has two types,including restart EPON and clear start-up config.

Click '**Ok**' button, The system begin to configure the equipment and give the result after configuration.

Click the '**Help**' button, the system will appear online help.

# 39 EPON OLT Configuration Management

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## 39.1 OLT Version information

OLT version information interface as the shown Figure:

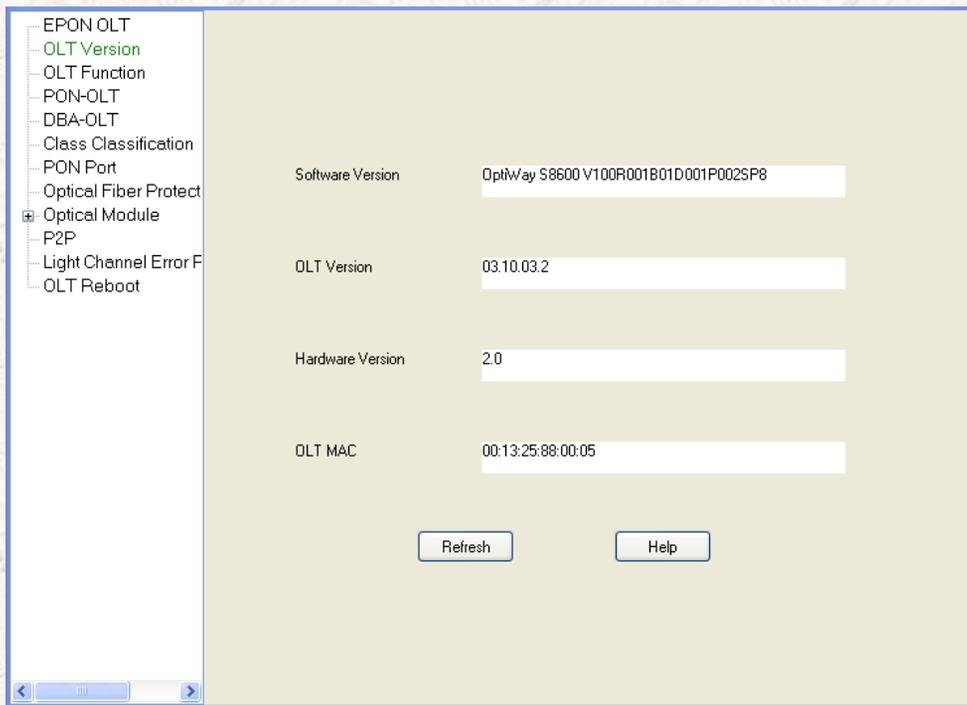


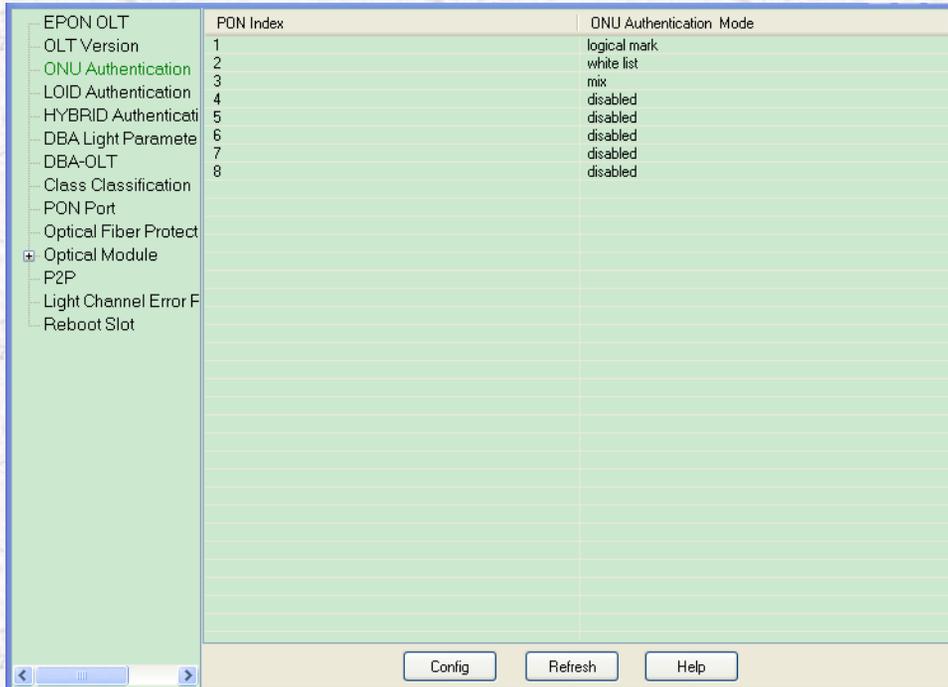
Figure39-1 OLT version information interface

Click the '**Refresh**' button, the system will restart from the equipment to obtain the latest data.

Click the '**Help**' button, the system will given a hand online.

## 39.2ONU Authentication Configuration

Configuration interface as the shown figure:



EPON OLT	PON Index	ONU Authentication Mode
OLT Version	1	logical mark
ONU Authentication	2	white list
LOID Authentication	3	mix
HYBRID Authentication	4	disabled
DBA Light Paramete	5	disabled
DBA-OLT	6	disabled
Class Classification	7	disabled
PON Port	8	disabled
Optical Fiber Protect		
Optical Module		
P2P		
Light Channel Error F		
Reboot Slot		

Figure39-2OLT function configuration interface

Click the '**config**' button, the system began to configure the equipment, at the end it will given the configuration results after the end result.

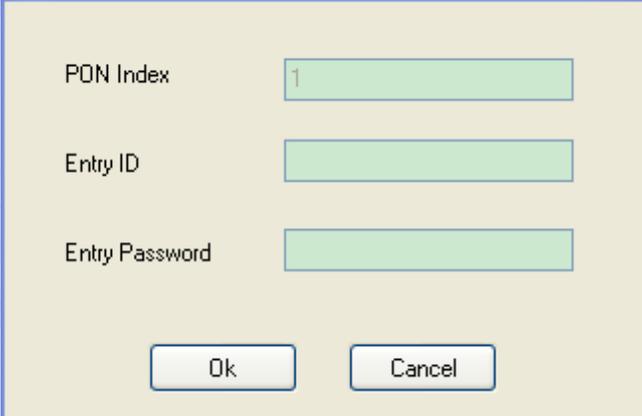
Click the '**Refresh**' button, The system will restart obtain the latest data from the equipment.

Click the '**Help**' button, The system will given a hand online.

### **39.3LOID Authentication Configure**

Configuration interface as the shown figure:



A dialog box with a light green background and a blue border. It contains three input fields: 'PON Index' with the value '1', 'Entry ID' (empty), and 'Entry Password' (empty). At the bottom are 'Ok' and 'Cancel' buttons.

PON Index	1
Entry ID	
Entry Password	

Ok Cancel

Figure39-4Parameter configuration interface

Click the “**OK**” button, the system began to equipment for configuration, After configuration,it will give configuration results.

Click the'**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the'**Help**” button, the system will given a hand online.

## **39.4HYBRID Authentication Configure**

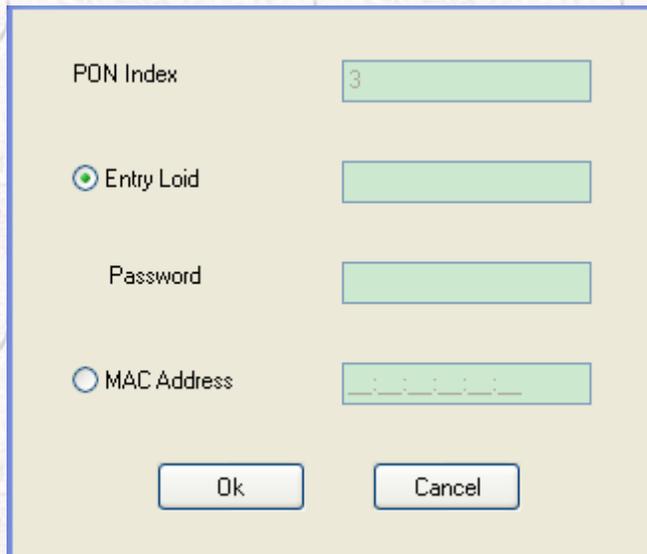
Configuration interface as the shown figure:

	Entry Index	Entry Loid/MAC Address	Password
EPON OLT	1	1	123456
OLT Version	2	hybid	1234
ONU Authentication	1	00:0A:12:00:02:11	
LOID Authentication			
HYBRID Authentication			
DBA Light Paramete			
DBA-OLT			
Class Classification			
PON Port			
Optical Fiber Protect			
Optical Module			
P2P			
Light Channel Error F			
Reboot Slot			

PON Index: 3

Figure39-5HYBRID Authentication configuration interface

click the' **Config**' button, there will appear a parameter configuration interface. As the shown figure:



The image shows a parameter configuration interface with a light green background and a blue border. It contains the following elements:

- PON Index:** A text label followed by a text input field containing the number "3".
- Entry Loid:** A radio button (selected) followed by a text input field.
- Password:** A text label followed by a text input field.
- MAC Address:** A radio button (unselected) followed by a text input field with a dashed line pattern.
- Buttons:** Two buttons labeled "Ok" and "Cancel" are positioned at the bottom of the form.

Figure39-6Parameter configuration interface

Click the “**OK**” button, the system began to equipment for configuration, After configuration,it will give configuration results.

Click the'**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the'**Help**” button, the system will given a hand online.

## **39.5OLT function configuration**

Configuration interface as the shown figure:



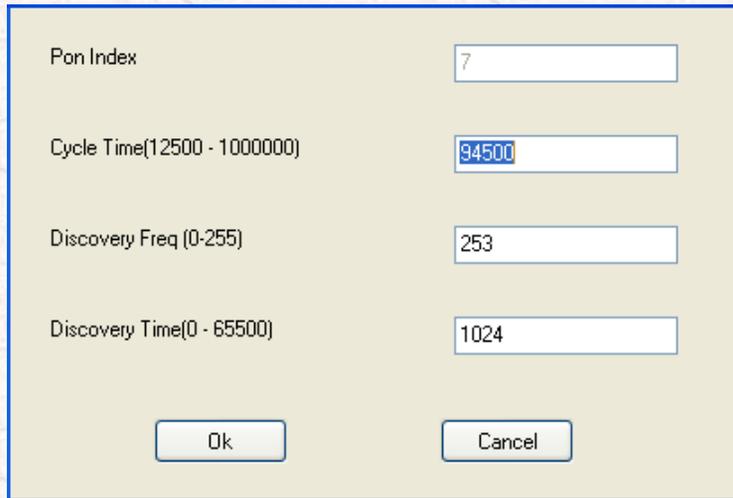
## 39.6PON-OLT configure

Configuration interface as the shown figure:

	Pon Id	Cycle Time	Discovery Freq	Discovery Time
EPON OLT	1	94500	253	1024
OLT Version	2	94500	253	1024
OLT Function	3	94500	253	1024
PON-OLT	4	94500	253	1024
DBA-OLT	5	94500	253	1024
Class Classification	6	94500	253	1024
PON Port	7	94500	253	1024
Optical Fiber Protect	8	94500	253	1024
Optical Module				
P2P				
Light Channel Error F				
OLT Reboot				

Figure39-8PON-OLT configuration interface

Select one of the line in the interface, click the ' **Config** ' button, there will appear a parameter configuration interface. As the shown figure:



The image shows a parameter configuration dialog box with a light beige background and a blue border. It contains four input fields and two buttons. The fields are: 'Pon Index' with the value '7', 'Cycle Time(12500 - 1000000)' with the value '94500', 'Discovery Freq (0-255)' with the value '253', and 'Discovery Time(0 - 65500)' with the value '1024'. At the bottom, there are 'Ok' and 'Cancel' buttons.

Pon Index	7
Cycle Time(12500 - 1000000)	94500
Discovery Freq (0-255)	253
Discovery Time(0 - 65500)	1024

Ok Cancel

Figure39-9Parameter configuration interface

**Cycle Time:**The configuration of the range from12500 to1000000.

**Discovery:**The configuration of the range from 0 to 255.

**Discovery Time:**The configuration of the range from 0 to 65500.

Click the “**OK**” button, the system began to equipment for configuration, After configuration,it will give configuration results.

Click the'**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the'**Help**’ button, the system will given a hand online.

## 39.7DBA-OLT Configure

Configuration interface as the shown figure:

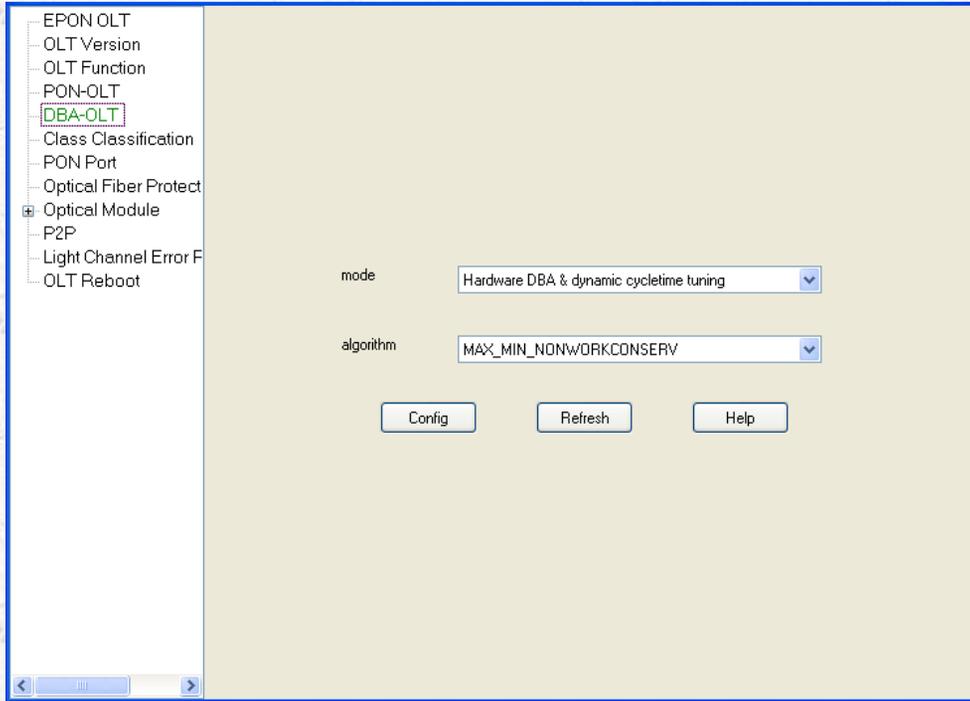


Figure39-10DBA-OLT configuration interface

DBA mode has the following 4 kinds:

- 1: Hardware DBA
- 2: Software DBA
- 3: Hardware DBA with dynamic cycletime tuning

4: Software DBA with dynamic cycletime tuning

DBA algorithm has the following 3 kinds:

1: WORKCONSERV

2: NONWORKCONSERV

3: CBR

Click the' **Config**' button, the system began to configure the equipment, at the end it will given the configuration results after the end result.

Click the'**Refresh**' button, The system will restart obtain the latest data from the equipment. Click the'**Help**' button, the system will given a hand online.

## **39.8Class Classification configuration**

Configuration interface as the shown figure:

	Rule...	Port ...	Onu ID	Pac...	Dest IP	Src IP	L4 D...	L4 S...	Dest MAC	Start...	Enc
EPON OLT	1	nni	0	any	0.0.0.0	0.0.0.0	0	0	00:00:00:00	1	2
OLT Version											
OLT Function											
PON-OLT											
DBA-OLT											
Class Classification											
PON Port											
Optical Fiber Protect											
Optical Module											
P2P											
Light Channel Error F											
OLT Reboot											

PON Index    1

Figure39-11Class classification configuration interface

Click the ' **Config**' button, it will pop up a parameter configuration interface. Rule number set 100, Configuration in global mode. As the shown figure:

PON Index	<input type="text" value="1"/>		
Rule ID(1-99)	<input type="text" value="1"/>	<input type="checkbox"/> Src IP	<input type="text"/>
Port Type	<input type="button" value="nni"/>	<input type="checkbox"/> Dest IP	<input type="text"/>
ONU ID(1-70)	<input type="text"/>	<input type="checkbox"/> DSCP(0-63)	<input type="text"/>
Class Action	<input type="button" value="allow"/>	<input type="checkbox"/> IP Protocol(0-255)	<input type="text"/>
Packet Type	<input type="button" value="any"/>	<input type="checkbox"/> L4 Src Port(0-65535)	<input type="text"/>
<input type="checkbox"/> EthType(HEX:0-FFFF)	<input type="text"/>	<input type="checkbox"/> L4 Dest Port(0-65535)	<input type="text"/>
<input type="checkbox"/> Dest MAC	<input type="text" value=".:.:.:.:.:."/>	<input type="checkbox"/> ETH Priority Action	<input type="text" value="modified"/>
<input type="checkbox"/> Dot1qPriority(0-7)	<input type="text"/>	<input type="checkbox"/> New ETH Priority(0-7)	<input type="text"/>
<input type="checkbox"/> Start VLAN ID(0-4094: 0 untag)	<input type="text"/>	<input type="checkbox"/> Vlan Action	<input type="text" value="pop"/>
End VLAN ID(0-4094: 0 untag)	<input type="text"/>	<input type="checkbox"/> New Vlan ID(1-4094)	<input type="text"/>
<input type="button" value="OK"/>		<input type="button" value="Cancel"/>	

Figure39-12Parameter configuration interface

**Port type:**A total of pon, nni and onu three port type. When a port type is ONU, ONU ID only can be configured, the allocation range is 1-64.

**L4 dest port:**The configuration data range is from 0 to 65535.

**L4 src port:**The configuration data range is from 0 to 65535.

**VLAN ID:**The configuration data range is from 0 to 4094.0 represents untag.

**DSCP:**The configuration data range is from 0 to 63.

**IP Protocol:**The configuration data range is from 0 to 255.

**Ethernet type:**The configuration data range is from 0 to ffff.

**Dot1q Priority:**The configuration data range is from 0 to 7.

**Class Action:**If the configuration items select “reject”, the Ethernet priority action, new ethernet priority, VLAN action and new VLAN ID could not be configured.

**ETH Priority Action:**It have 'No modified' and 'modified' these two options. When choice the ' modified', New ethernet priority can be configured, the configuration range is 0-7.

**VLAN Action:**Include ' No modified ',' play',' exchange' and 'stripping' these four options. When choosing “play”and”exchange”,New VLAN ID can be configured, The allocation range is1-4094.

**Packet type:**Include “any”,”ip”,”arp” and”noip-noarp” these four options. When choosing “any”, can configured purpose MAC address, Dot1q priority, **IP Protocol** and **VLAN Id** these four item;When choosing”ip”or”arp”,Can configured destination **IP,L4 dest port,Dot1q Priority,DSCP,IP Protocol,Src IP,L4Src Port**

and **VLAN ID** these 8 options;When choosing the "noip-noarp",Can configurable the **Dest MAC,Dot1q Priority,Ethernet type,IP Protocol** and **VLAN ID** these 5 options.And if the **packet via the enable** elected' refused to',select at least one options in these above configuration item.

Click the' **OK**' button,The system began to configure the equipment, after configuration system will given the configuration result.

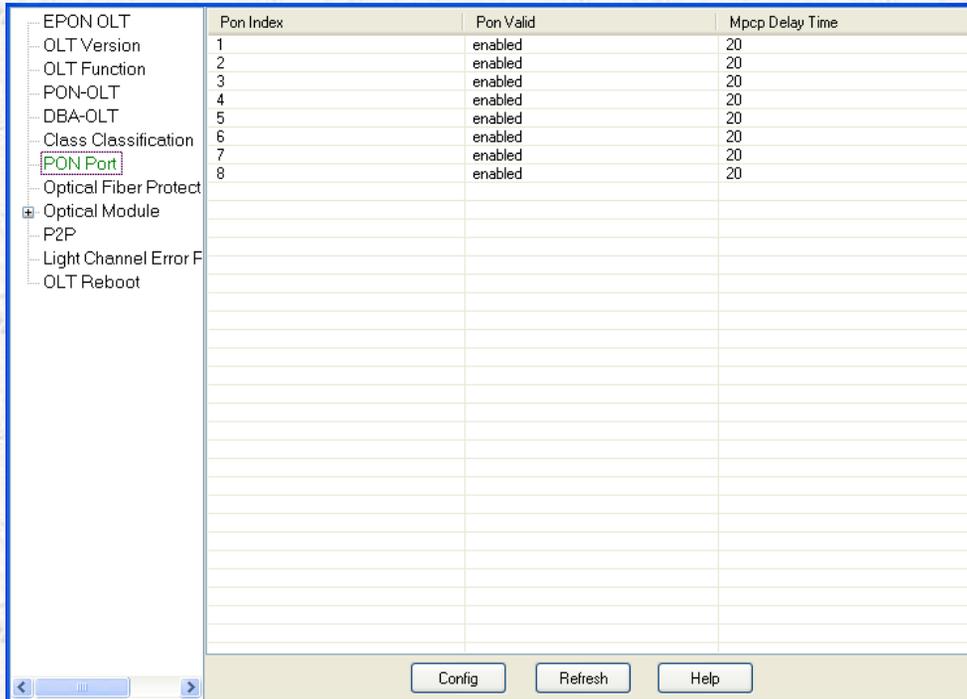
Click the' **Delete**' button,The system began to configure the equipment,after the end of result configuration it will given the result configuration.If will option to delete recorded flow classification index number is 100,It's delegate that delete global mode of flow classification configuration.

Click the'**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the'**Help**' button, the system will given a hand online.

## 39.9 PON Port Configuration

Configuration interface as the shown figure:



	Pon Index	Pon Valid	Mpcp Delay Time
EPON OLT			
OLT Version	1	enabled	20
OLT Function	2	enabled	20
PON-OLT	3	enabled	20
DBA-OLT	4	enabled	20
Class Classification	5	enabled	20
PON Port	6	enabled	20
Optical Fiber Protect	7	enabled	20
Optical Module	8	enabled	20
P2P			
Light Channel Error F			
OLT Reboot			

Figure39-13P2P Configuration interface

Select one line of the interface,Click the' **Config**' button,It will appear a parameter configuration interface.As the shown figure:

The image shows a parameter configuration interface with a light beige background and a blue border. It contains three rows of settings:

- PON Index:** A text input field containing the number '3'.
- Pon Valid:** A radio button that is selected (indicated by a green dot), followed by a dropdown menu currently showing 'enabled'.
- Mpcp Delay Time(0-50s: 0 close):** A radio button that is unselected, followed by a text input field containing the number '20'.

At the bottom of the interface are two buttons: 'Ok' on the left and 'Cancel' on the right.

Figure39-14Parameter configuration interface

**PON Port enable:**Enable / disable PON port enable state.

**ONU register MPCP time delay:**The configuration data range is from 0 to 50 seconds.If set of 0,It's means close ONU register MPCP time delay.

Click the' **OK**' button,The system began to configure the equipment, after configuration system will given the configuration result.

Click the'**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the'**Help**' button, the system will given a hand online.



Psg Index	<input type="text" value="1"/>
Psg Active Pon	<input type="text" value="1"/>
Psg Standby Pon	<input type="text" value="1"/>
Psg Valid Enable	<input type="text" value="disabled"/>
<input type="button" value="Ok"/> <input type="button" value="Cancel"/>	

Figure39-16Parameter configuration interface

If not choice one of a line,Click the' **Config**' button,Then can configured the optical fiber protection.Otherwise, as the shown figure,can configuration the new optical fiber protection group.



Notes:If want to configure the new optical fiber protection group,Master to use the PON port and standby PON port ,it's cannot be these case:

- 1.The slot is not PON business card
2. The main PON port and the spare PON port number for the same
3. Does not disable the main PON port enable and standby PON port enable
4. Main /spare PON port is belonging to other optical fiber protection group
5. The main PON port DBA parameters is different for the spare PON port

## DBA parameters

6. The main PON port DBA P2P is different for the spare PON port P2P
7. The main PON port flow classification is different for the spare PON port flow classification
8. The main PON port MAC authentication is different for the spare PON port MAC authentication
9. The main PON port black list is different from the spare PON port black list
10. When the current configuration is already exists, do nothing .
11. Cannot get the port speed
12. Cannot get port trunk / access mode
13. Cannot get port vlan information
14. The main PON port speed is different for the spare PON port speed
15. The main PON port enable is different from the spare PON port enable
16. The main PON port STP road into the cost is different from the standby PON port STP road into the cost
17. The main PON port STP priority is different from the standby PON port STP priority
18. The main PON port PVID is different from the spare PON port PVID
19. The main PON port of trunk/access of patterm is different from the spare PON port of trunk/access of patterm
20. The main PON port of belong VLAN is different from the spare PON port of belong VLAN
21. The main PON port of tag VLAN list is different from the spare PON port of tag VLAN list

22. The main PON port of multicast group is different from the spare PON port of multicast group

23. The main port and spare port is set to be Flex link port

Click the' **OK**' button,The system began to configure the equipment, after configuration system will given the configuration result.

Click the' **Delete**' button,the system began to configure the equipment,after the end of result configuration it will given the result configuration.

Click the'**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the'**Help**' button, the system will given a hand online.

## **39.11OLT Optical Module Configure**

### **39.11.1 OLT Alarm Configuration**

Configuration interface as the shown figure:



Figure39-18Parameter Configuration interface

Click the' **OK**'' button,The system began to configure the equipment, after configuration system will given the configuration result.

Click the'**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the'**Help**' button, the system will given a hand online.

### **39.11.2 OLT Optical Parameter Measurement**

Configuration interface as the shown figure:

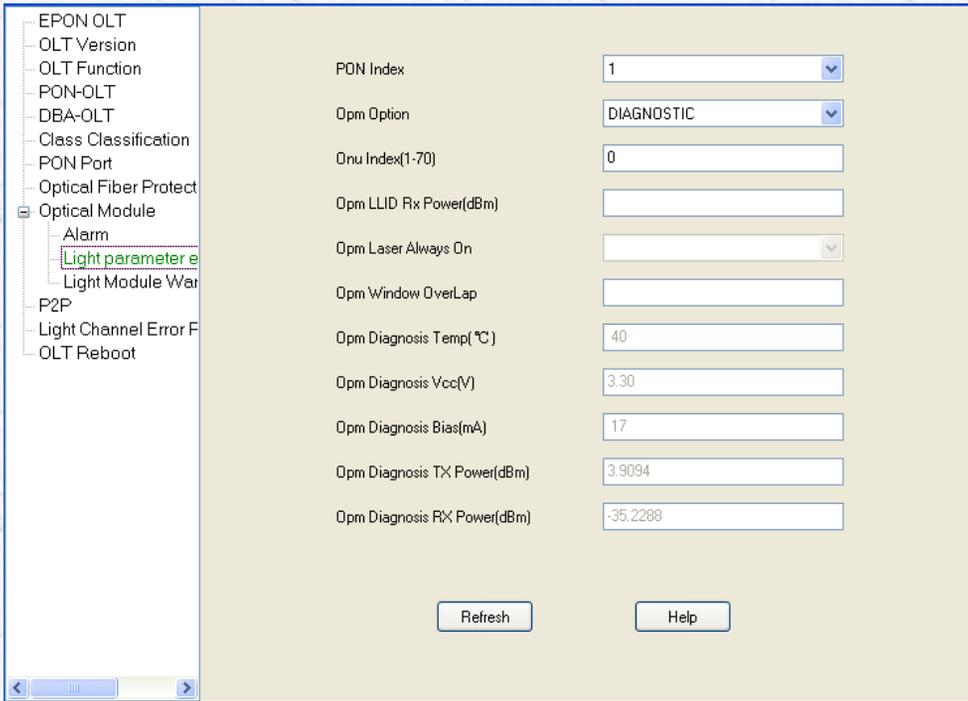


Figure39-19Optical parameter measurement interface

Optical parameter measurement divided into:POWER\_MEASUREMENT, LASER\_ALWAYS\_ON,WINDOW\_OVERLAP and DIAGNOSTIC .A total of four;Choose the different test items,it will appear the different optical parameters.

Click the'**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the **Help** button, the system will given a hand online.

### 39.11.3 OLT Light Module Warning Threshold

Configuration interface as the shown figure:

	High	Low
<input type="checkbox"/> Temp Alarm(-128~128: °C)	128	-128
<input type="checkbox"/> Temp Warn(-128~128: °C)	128	-128
<input type="checkbox"/> Voltage Alarm(0~6.55: V)	6.55	0.00
<input type="checkbox"/> Voltage Warn(0~6.55: V)	6.55	0.00
<input type="checkbox"/> Electric Alarm(0~131: mA)	131	0
<input type="checkbox"/> Electric Warn(0~131: mA)	131	0
<input type="checkbox"/> Send Power Alarm(-40~8.1647: dbm)	8.1647	-40
<input type="checkbox"/> Send Power Warn(-40~8.1647: dbm)	8.1647	-40
<input type="checkbox"/> Receive Power Alarm(-40~8.1647: dbm)	8.1647	-40
<input type="checkbox"/> Receive Power Warn(-40~8.1647: dbm)	8.1647	-40

Buttons: Config, Refresh, Help

Figure39-20Light Module Warning Threshold interface

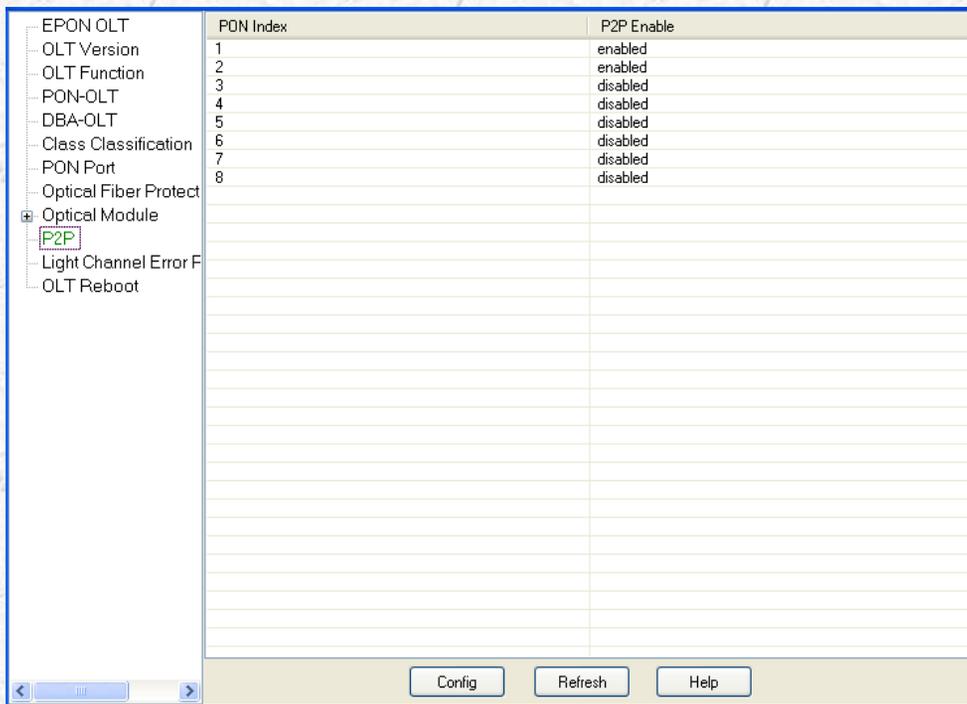
Click the **Config** button, the system began to configure the equipment, at the end will given the configuration result.

Click the **Refresh** button, The system will restart from the equipment to obtain the latest data.

Click the **Help** button, the system will given a hand online.

## 39.12P2P Configure

Configuration interface as the shown figure:



The screenshot shows a configuration interface with a left-hand menu and a main table. The menu includes options like EPON OLT, OLT Version, OLT Function, PON-OLT, DBA-OLT, Class Classification, PON Port, Optical Fiber Protect, Optical Module (with P2P highlighted), Light Channel Error F, and OLT Reboot. The table has two columns: 'PON Index' and 'P2P Enable'. The 'P2P Enable' column contains the values 'enabled' for indices 1 and 2, and 'disabled' for indices 3 through 8. At the bottom of the interface are three buttons: 'Config', 'Refresh', and 'Help'.

PON Index	P2P Enable
1	enabled
2	enabled
3	disabled
4	disabled
5	disabled
6	disabled
7	disabled
8	disabled

Figure39-21P2P configure interface

Choice one of a line,Click the **Config** button,It will appear a parameter configuration interface.As the shown figure:

The image shows a parameter configuration dialog box with a light beige background and a blue border. It contains two input fields: 'PON Index' with a text box containing the number '6', and 'P2P Enable' with a dropdown menu showing 'disabled'. At the bottom, there are two buttons: 'Ok' and 'Cancel'.

Figure39-22Parameter configuration interface

Click the' **OK**' button,The system began to configure the equipment, after configuration system will given the configuration result.

Click the'**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the'**Help**' button, the system will given a hand online.

### **39.13Optical channel bit error rate setting**

Configuration interface as the shown figure:

Alarm...	Alarm Type	Alarm Enable	Alarm Window_lo	Alarm Threshold...	AlarmValue
1.1	EPON_ALARM_ON...	disabled	0	0	0
1.2	EPON_ALARM_ER...	disabled	0	0	0
1.3	EPON_ALARM_ER...	disabled	0	0	0
1.4	EPON_ALARM_ER...	disabled	0	0	0
1.5	EPON_ALARM_ER...	disabled	0	0	0
1.6	EPON_ALARM_LIN...	disabled	0	0	0
1.7	EPON_ALARM_DYI...	disabled	0	0	0
1.8	EPON_ALARM_CRI...	disabled	0	0	0
1.9	EPON_ALARM_FD...	disabled	0	0	0
1.10	EPON_ALARM_MAX	disabled	0	0	0
2.1	EPON_ALARM_ON...	disabled	0	0	0
2.2	EPON_ALARM_ER...	disabled	0	0	0
2.3	EPON_ALARM_ER...	disabled	0	0	0
2.4	EPON_ALARM_ER...	disabled	0	0	0
2.5	EPON_ALARM_ER...	disabled	0	0	0
2.6	EPON_ALARM_LIN...	disabled	0	0	0
2.7	EPON_ALARM_DYI...	disabled	0	0	0
2.8	EPON_ALARM_CRI...	disabled	0	0	0
2.9	EPON_ALARM_FD...	disabled	0	0	0
2.10	EPON_ALARM_MAX	disabled	0	0	0
3.1	EPON_ALARM_ON...	disabled	0	0	0
3.2	EPON_ALARM_ER...	disabled	0	0	0
3.3	EPON_ALARM_ER...	disabled	0	0	0
3.4	EPON_ALARM_ER...	disabled	0	0	0
3.5	EPON_ALARM_ER...	disabled	0	0	0
3.6	EPON_ALARM_LIN...	disabled	0	0	0
3.7	EPON_ALARM_DYI...	disabled	0	0	0
3.8	EPON_ALARM_CRI...	disabled	0	0	0
3.9	EPON_ALARM_FD...	disabled	0	0	0
3.10	EPON_ALARM_MAX	disabled	0	0	0
4.1	EPON_ALARM_ON...	disabled	0	0	0
4.2	EPON_ALARM_ER...	disabled	0	0	0

Figure39-23Optical channel bit error rate setting configuration interface

Choice one of a line in the interface,Click the' **Config**' button,It will appear a parameter configuration interface.As the shown:

Alarm Index: 26

Alarm Type: EPON\_ALARM\_LINK\_FAULT

Alarm Enable: disabled

Alarm Window\_lo: 0

Alarm Threshold\_lo: 0

Alarm Value: 0

Ok Cancel

Figure39-24Parameter configuration interface

BER types has the following 10 kinds:

1: EPON\_ALARM\_ONU\_CRITICAL

2: EPON\_ALARM\_ERRORED\_SYMBOL\_PERIOD

3: EPON\_ALARM\_ERRORED\_FRAME

4: EPON\_ALARM\_ERRORED\_FRAME\_PERIOD

5:

EPON\_ALARM\_ERRORED\_FRAME\_SECONDS\_SUMMARY

6: EPON\_ALARM\_LINK\_FAULT

7: EPON\_ALARM\_DYING\_GASP

8: EPON\_ALARM\_CRITICAL\_LINK\_EVENT

9: EPON\_ALARM\_FDB\_LIMIT\_REACHED

10: EPON\_ALARM\_FDB\_LIMIT\_REACHED

Click the ' **OK** ' button, The system began to configure the equipment, after configuration system will given the configuration result.

Click the '**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the '**Help**' button, the system will given a hand online.

### **39.14 Reboot Solt**

Configuration interface as the shown figure:

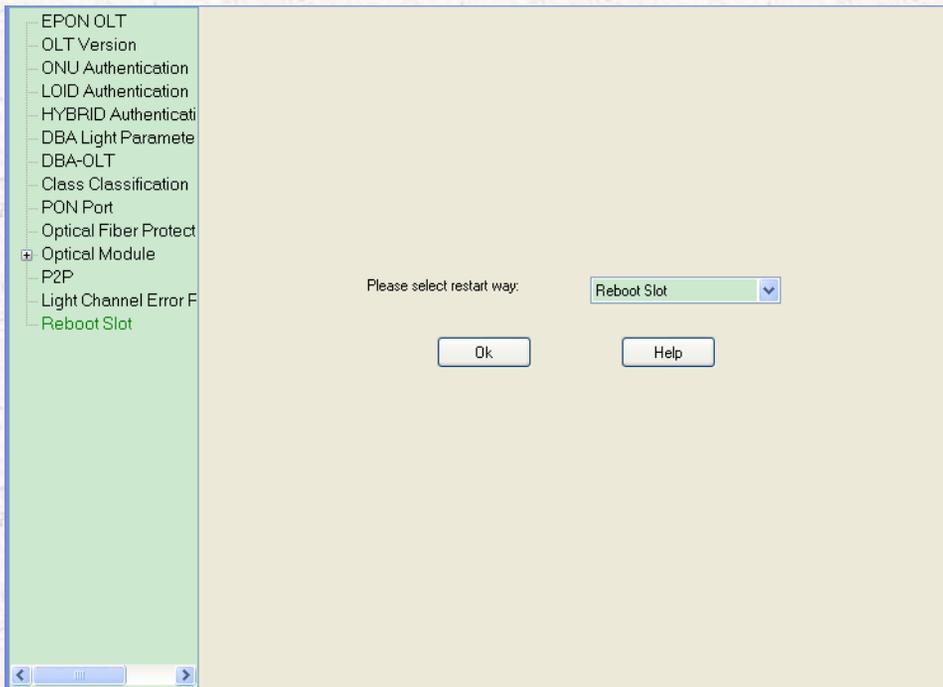


Figure39-25reboot Solt

Click the' **OK**' button,The system began to configure the equipment, after configuration system will given the configuration result.

Click the'**Help**' button, the system will given a hand online.

## 39.15OLT Reboot

Configuration interface as the shown figure:

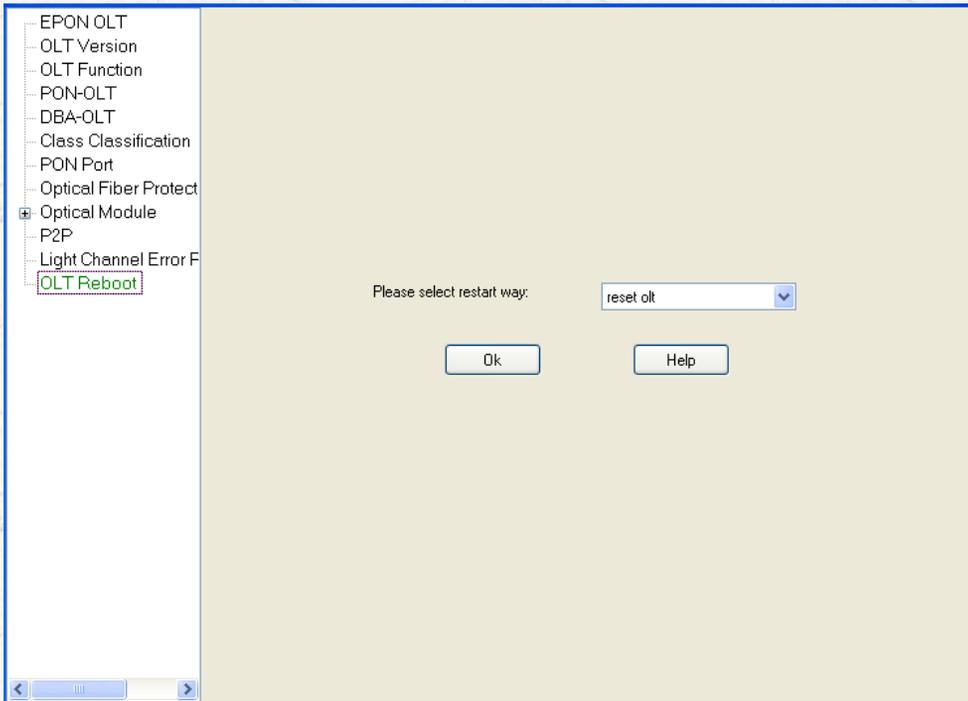


Figure39-26OLT reboot interface

Click the' **OK**' button,The system began to configure the equipment, after configuration system will given the configuration result.

Click the'**Help**' button, the system will given a hand online.

# 40 EPON ONU Configuration management

---

## 40.1 ONU IP address configuration

Configuration interface as the shown figure:

The screenshot displays the configuration interface for an EPON ONU. On the left, a tree view shows the following items: EPON ONU IEN2000, Onu Ipaddress (highlighted), Onu Version Informat, Onu Base, Lan Gress, DBA-ONU, Onu Manager Vlan, Onu Vlan (expanded), Port Status, Fec Function, Complete machine o, MAC Address (expanded), Optical Module, Encrption, Loopback, and Reset Onu. The main configuration area contains three input fields: IP Address (192.168.1.1), NetMask (255.255.255.0), and Gateway (0.0.0.0). Below these fields are three buttons: Config, Refresh, and Help.

Figure40-1ONU IP address configuration interface

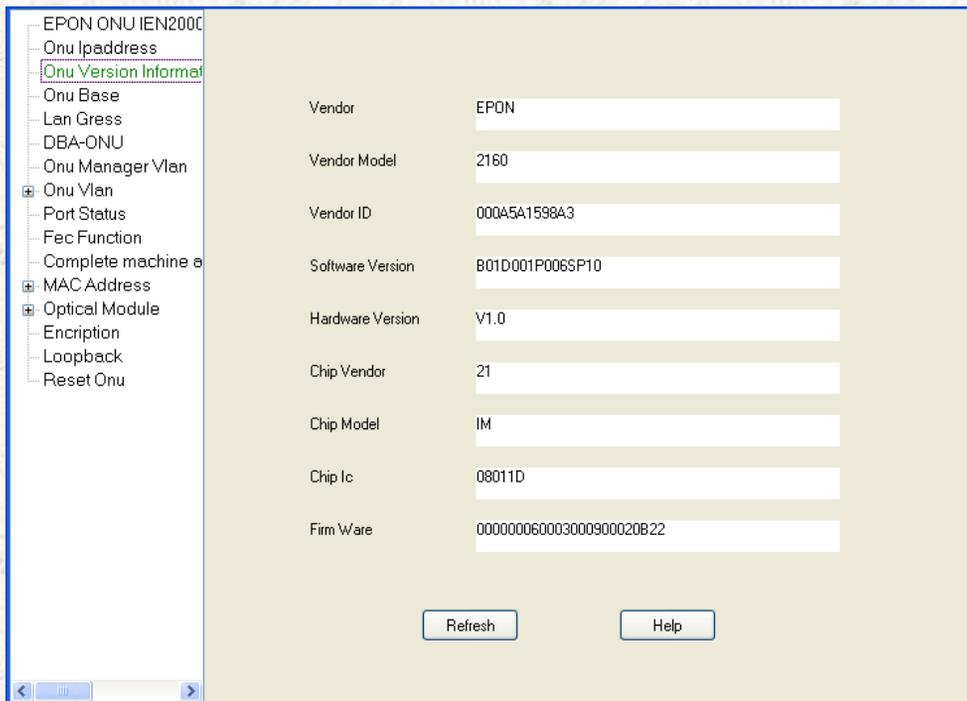
Click the' **Config**'button, the system began to configure the equipment, at the end will given the configuration result.

Click the'**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the'**Help**' button, the system will given a hand online.

## 40.2ONU version information

Configuration interface as the shown figure:



Vendor	EPON
Vendor Model	2160
Vendor ID	000A5A1598A3
Software Version	B01D001P006SP10
Hardware Version	V1.0
Chip Vendor	21
Chip Model	IM
Chip Ic	08011D
Firm Ware	000000060003000900020B22

Refresh Help

Figure40-2ONU version information interface

Click the 'Refresh' button, The system will restart from the equipment to obtain the latest data.

Click the 'Help' button, the system will given a hand online.

## 40.3 ONU Functional Configuration

Configuration interface as the shown figure:

The screenshot displays the ONU Functional Configuration interface. On the left is a sidebar menu with the following items: EPON ONU IEN210E, Onu Version Information, Onu Base (highlighted), Lan Gress, DBA-ONU, Onu Manager Vlan, CTC Port VLAN, Port Status, Cls, Fec Function, Complete machine e, MAC Address, Multicast, Optical Module, COM Session, Encryption, Loopback, and Reset Onu. The main configuration area includes the following fields and sections:

- LLID(Hex): 60000002
- Round Trip Time(TQ): 55
- Registration Time: 00/01/01 00:02:39
- Descriptor: 494550323130302D34465403 (with a Delete button)
- onu bind mac: 00:0A:5A:00:00:03
- ONU Capabilities section:
  - Service Supported: 2
  - Number of GE Ports: 0
  - Bitmap of GE Ports: 0
  - Number of FE Ports: 4
  - Bitmap of FE Ports: 15
  - Number of POTS ports: 0
  - Number of E1 port: 0
  - Number of US Queues: 8
  - QueueMax per US Port: 8
  - Number of DS Queues: 4
  - QueueMax per DS Port: 4
  - Battery Backup: No

At the bottom of the interface are three buttons: Config, Refresh, and Help.

Figure40-3ONU functional configuration interface

Click the ' **Config**' button, the system began to configure the equipment, at the end will given the configuration result.

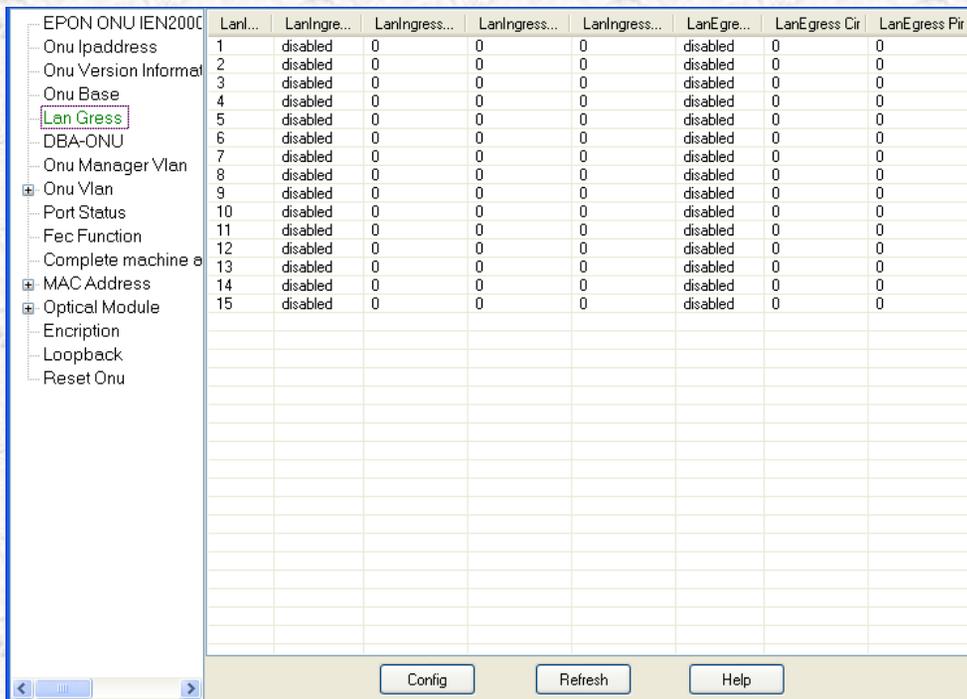


Click the **Refresh** button, The system will restart from the equipment to obtain the latest data.

Click the **Help** button, the system will given a hand online.

## 40.5 LAN port configuration

Configuration interface as the shown figure:



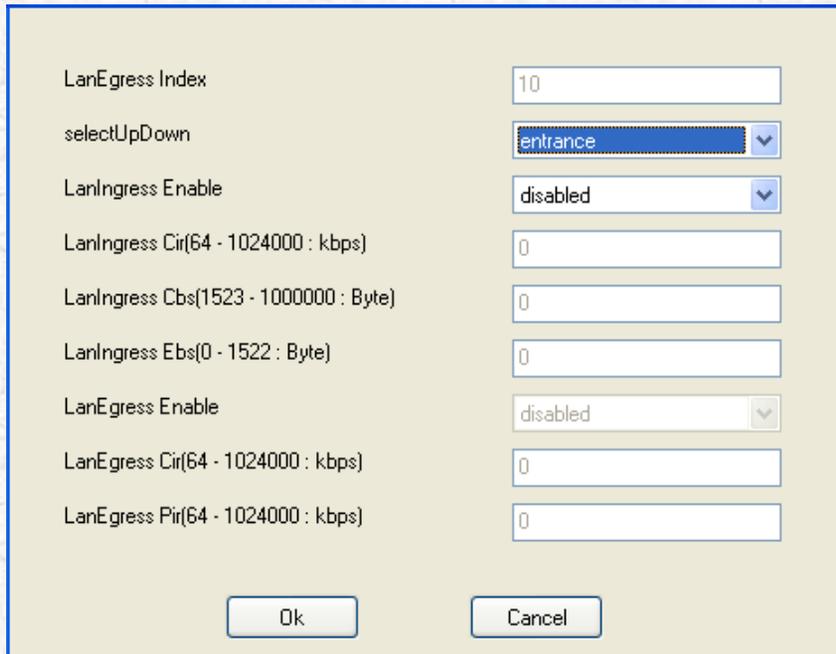
The screenshot shows a configuration interface for an EPON ONU IEN2000. On the left is a tree view with 'Lan Gress' selected. The main area contains a table with 15 rows and 8 columns. The columns are: 'Lan...', 'LanIngre...', 'LanIngress...', 'LanIngress...', 'LanIngress...', 'LanEgre...', 'LanEgress Cir', and 'LanEgress Pir'. Each row represents a port from 1 to 15. The status for all ports is 'disabled', and the numerical values in the other columns are all '0'. At the bottom of the interface are three buttons: 'Config', 'Refresh', and 'Help'.

	Lan...	LanIngre...	LanIngress...	LanIngress...	LanIngress...	LanEgre...	LanEgress Cir	LanEgress Pir
1	disabled	0	0	0	0	disabled	0	0
2	disabled	0	0	0	0	disabled	0	0
3	disabled	0	0	0	0	disabled	0	0
4	disabled	0	0	0	0	disabled	0	0
5	disabled	0	0	0	0	disabled	0	0
6	disabled	0	0	0	0	disabled	0	0
7	disabled	0	0	0	0	disabled	0	0
8	disabled	0	0	0	0	disabled	0	0
9	disabled	0	0	0	0	disabled	0	0
10	disabled	0	0	0	0	disabled	0	0
11	disabled	0	0	0	0	disabled	0	0
12	disabled	0	0	0	0	disabled	0	0
13	disabled	0	0	0	0	disabled	0	0
14	disabled	0	0	0	0	disabled	0	0
15	disabled	0	0	0	0	disabled	0	0

Figure40-5LAN port configuration interface

Choice one of a line in the interface,Click the **' Config'** button,It

will appear a parameter configuration interface.As the shown figure:



The image shows a parameter configuration interface with the following fields and values:

Parameter	Value
LanEgress Index	10
selectUpDown	entrance
LanIngress Enable	disabled
LanIngress Cir(64 - 1024000 : kbps)	0
LanIngress Cbs(1523 - 1000000 : Byte)	0
LanIngress Ebs(0 - 1522 : Byte)	0
LanEgress Enable	disabled
LanEgress Cir(64 - 1024000 : kbps)	0
LanEgress Pir(64 - 1024000 : kbps)	0

Buttons: Ok, Cancel

Figure40-6Parameter configuration interface

Click the' **Config**'button, the system began to configure the equipment, at the end will given the configuration result.

Click the'**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the 'Help' button, the system will given a hand online.

## 40.6DBA-ONU Configuration

Configuration interface as the shown figure:

The screenshot shows a configuration interface for DBA-ONU. On the left is a navigation tree with the following items: EPON ONU IEN200, Onu Ipaddress, Onu Version Informat, Onu Base, Len Gress, DBA-ONU (highlighted with a red dashed box), Onu Manager Vlan, Onu Vlan, Port Status, Fec Function, Complete machine e, MAC Address, Optical Module, Encription, Loopback, and Reset Onu. The main configuration area has a 'shapeAction' dropdown set to 'disabled'. Below this are two columns of parameters, each with a text input field and a dropdown menu. The parameters are: upFir(0-0 :kbps) [0], downFir(0-980000 :kbps) [0]; upCir(0-955000 :kbps) [1000], downCir(0-1000000 :kbps) [1000]; upPir(0-1000000 :kbps) [100000], downPir(0-1000000 :kbps) [100000]; upBust(32-640 :kB) [100], downBust(32-640 :kB) [100]; upPriority(1-32) [1], downPriority(1-32) [1]; upDelay(1-1000000 :ms) [10], downDelay(1-1000000 :ms) [10]; upJitter(1-1000000 :ms) [10], downJitter(1-1000000 :ms) [10]; upPolice [DISABLE], downPolice [DISABLE]. At the bottom are three buttons: 'Config', 'Refresh', and 'Help'.

Parameter	Value	Parameter	Value
upFir(0-0 :kbps)	0	downFir(0-980000 :kbps)	0
upCir(0-955000 :kbps)	1000	downCir(0-1000000 :kbps)	1000
upPir(0-1000000 :kbps)	100000	downPir(0-1000000 :kbps)	100000
upBust(32-640 :kB)	100	downBust(32-640 :kB)	100
upPriority(1-32)	1	downPriority(1-32)	1
upDelay(1-1000000 :ms)	10	downDelay(1-1000000 :ms)	10
upJitter(1-1000000 :ms)	10	downJitter(1-1000000 :ms)	10
upPolice	DISABLE	downPolice	DISABLE

Figure40-7DBA-ONU configuration interface

**Fixed bandwidth:**Fully reserved for specific ONU or ONU specific business,Even in ONU without uplink fixed bandwidth flow situation,OLT still sends corresponding to the fixed

bandwidth authorization to the ONU (grant), This bandwidth also cannot use for other ONU. The fixed bandwidth is mainly used for TDM service ONU (or LLID), Ensure to that when the business is smaller transmission delay. (Notes: fir parameter only work in Software DBA or Software DBA & dynamic cycletime tuning mode is effectively, The range between cir and pir. Fixed bandwidth range is respectively that 0- 500004 , 0- 955000.)

**Guaranteed bandwidth:** Ensure that ONU can available bandwidth, By the OLT according to the ONU REPORT information to authorization. When the ONU actual traffic does not reach the guaranteed bandwidth OLT DBA mechanism should be able to residual bandwidth allocated to other ONU business. Guaranteed bandwidth range is Hardware DBA mode range is 0- 661375; In Software DBA mode is 0- 500004; In Hardware DBA & dynamic cycletime tuning and Software DBA & dynamic cycletime tuning mode is 0- 955000.

**Maximum ban:** The configuration of the range at Hardware DBA mode is 0- 661375; In Software DBA mode is 0- 500004; In Hardware DBA & dynamic cycletime tuning and Software DBA & dynamic cycletime tuning mode is 0- 1000000.

Every bandwidth required must be: Fixed bandwidth  $\leq$   
Guaranteed bandwidth  $\leq$  Maximum bandwidth.

**Burst:** The configuration and the range of sizes is from 32KB to 640KB.

**Priority:** The configuration of weights is from 1 to 32.

Click the '**Config**' button, the system began to configure the equipment, at the end will given the configuration result.

Click the '**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the '**Help**' button, the system will given a hand online.

## 40.7 Port Isolation

Configuration interface as the shown figure:

EN2000-16	VLAN ID	Downlink Port
Onu Ippaddress	2	E1-E8
Onu Version Informat	12	E9
Onu Base		
ONU Capability 2		
Lan Gress		
DBA-ONU		
Port Isolation		
Onu Manager Vlan		
Onu Vlan		
Port Status		
Fec Function		
Complete machine e		
MAC Address		
Optical Module		
Encription		
Loopback		
Port PoE		
Reset Onu		

Figure40-8Port Isolation configuration interface

Click the "**Add**" button, the interface appears as follows:

VLAN ID(2-4094)

All Select

Downlink Ports	E1	E2	E3	E4	E5	E6	E7	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Downlink Ports	E8	E9	E10	E11	E12	E13	E14	E15
	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>					

Figure40-9port isolation add configuration interface

Select the desired port isolation configuration, click on the **"OK"** button, the system begins to configure the device, after the end of the configuration given configuration.

Press the **"Edit"** button, the port will be selected for editing.

Press the **"Delete"** button to delete the selected port.

Press the **"refresh"** button, the system will re-obtain the latest data from the device.

Press the **"Help"** button, the system will appear online help.

## 40.8ONU Administration VLAN Configure

Configuration interface as the shown figure:

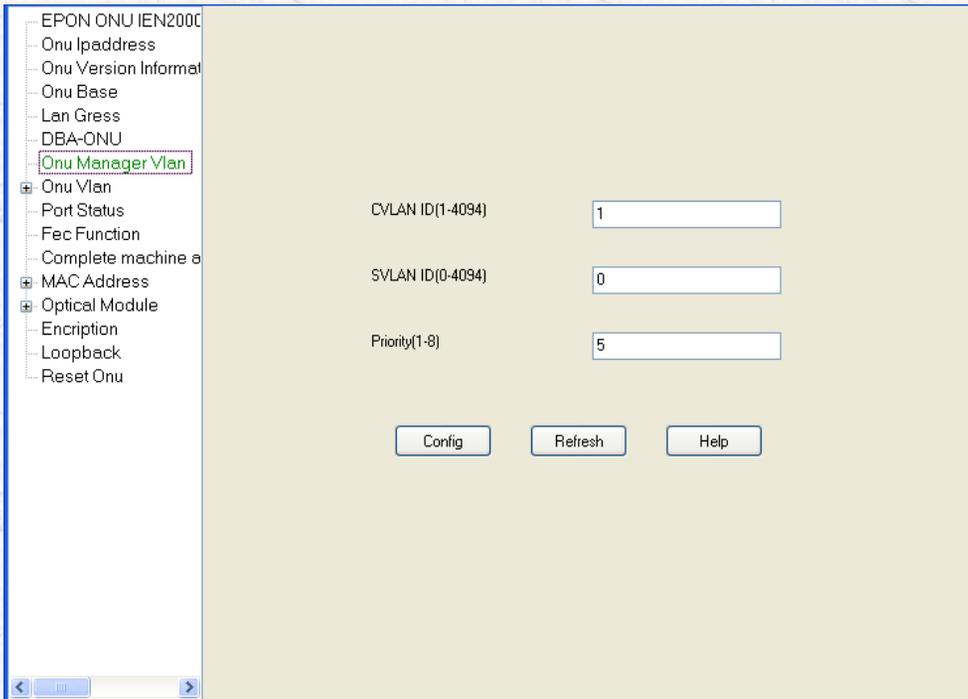


Figure40-10ONU Administration VLAN Configuration interface

Click the' **Config**'button, the system began to configure the equipment, at the end will given the configuration result.

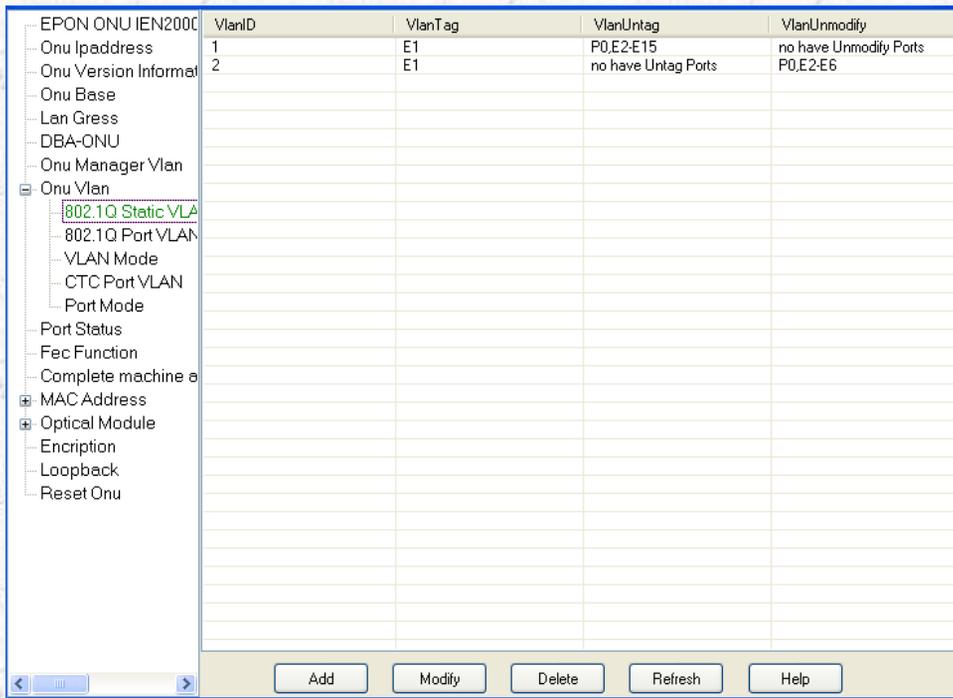
Click the'**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the'**Help**' button, the system will given a hand online.

## 40.9 ONU VLAN Configuration

### 40.9.1 802.1Q Static VLAN Configuration

These interface can configuration 802.1Q static VLAN,such as add, edit and delete VLAN,Configuration interface as the shown figure:



VlanID	VlanTag	VlanUntag	VlanUnmodify
1	E1	P0,E2-E15	no have Unmodify Ports
2	E1	no have Untag Ports	P0,E2-E6

Figure40-11802.1Q Static VLAN Configuration main interface

**Vlan ID:** Vlan ID,The range is 2—4094

**Without marker interface:**It's said that 802.1Q untagging port.



Notes:

- 1 When mouse is located in one of the row in the table. Will appear the VLAN attribute prompt;
- 2 When adding the VLAN, Vlan ID is not allowed to repeat;
- 3 Vlan1 is the default Vlan, is not allowed to edit and delete;
- 4 When edit Vlan, Vlan ID, is not allowed to modification;

Click the '**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the '**Help**' button, the system will given a hand online.

## **40.9.2 802.1Q Port VLAN Configure**

This configuration is used for the allocation of port VLAN ( PVID ).Receive frame type, enable or disable the filter into the station.Configuration interface as the shown figure:

	Port No	PVID	AcceptableFrameTypes	IngressFiltering
EPON ONU IEN2000				
Onu Ipaddress	0	1	all frames	enabled
Onu Version Information	1	1	all frames	enabled
Onu Base	2	1	all frames	enabled
Lan Gress	3	1	all frames	enabled
DBA-ONU	4	1	all frames	enabled
Onu Manager Vlan	5	1	all frames	enabled
Onu Vlan	6	1	all frames	enabled
802.1Q Static VLAN	7	1	all frames	enabled
802.1Q Port VLAN	8	1	all frames	enabled
VLAN Mode	9	1	all frames	enabled
CTC Port VLAN	10	1	all frames	enabled
Port Mode	11	1	all frames	enabled
Port Status	12	1	all frames	enabled
Fec Function	13	1	all frames	enabled
Complete machine e	14	1	all frames	enabled
MAC Address	15	1	all frames	enabled
Optical Module				
Encryption				
Loopback				
Reset Onu				

Figure40-12802.1Q Port VLAN Configuration main interface

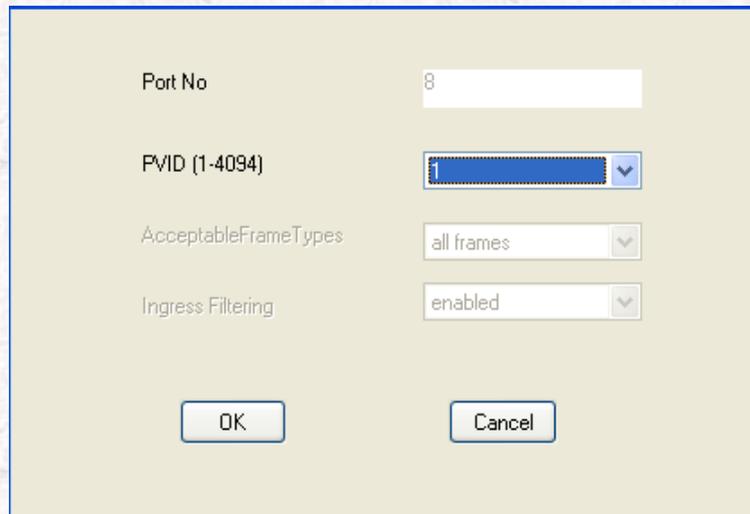
**Port number:**The switch corresponding port number.

**PVID:**Port VLAN number.If the corresponding data packets arriving from port is untagged data packet,it should give the packet with the last VLAN number,This VLAN number is PVID.PVIDCan also be used for entrance filter (Reference resources the entrance filter relevant description).The range is from 1 to 4094,and it must be the existing VLAN number.

**Receive frame type:**The port of the receiving frame state,has two options,receive all frames and receive only tagged frame.

**Inbound filter:**Entering the filter use the data packet and the VID and receives the data packet port PVID to compared.If there are different,The port will discard the packet.There are two options,disable and enable.

Select one line of the main interface,Click the' **Config**'button,,It will appear the parameter configuration interface. As the shown figure:



The image shows a parameter configuration dialog box with a light beige background and a blue border. It contains four configuration items, each with a label on the left and a control on the right:

- Port No**: A text input field containing the number '8'.
- PVID (1-4094)**: A dropdown menu with a blue background and a white border, showing the value '1'.
- AcceptableFrameTypes**: A dropdown menu with a white background and a grey border, showing the value 'all frames'.
- Ingress Filtering**: A dropdown menu with a white background and a grey border, showing the value 'enabled'.

At the bottom of the dialog, there are two buttons: 'OK' on the left and 'Cancel' on the right, both with a light beige background and a blue border.

Figure40-13Parameter configuration interface



Notes:

1. PVID range is from 1 to 4094.
2. Configure port VID number must ensure that the port belonging to the VLAN.

Click the “**OK**” button, the system began to equipment for configuration, After configuration, it will give configuration results.

Click the '**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the '**Help**' button, the system will given a hand online.

### **40.9.3 ONU VLAN Mode Configuration**

Configuration interface as the shown figure:

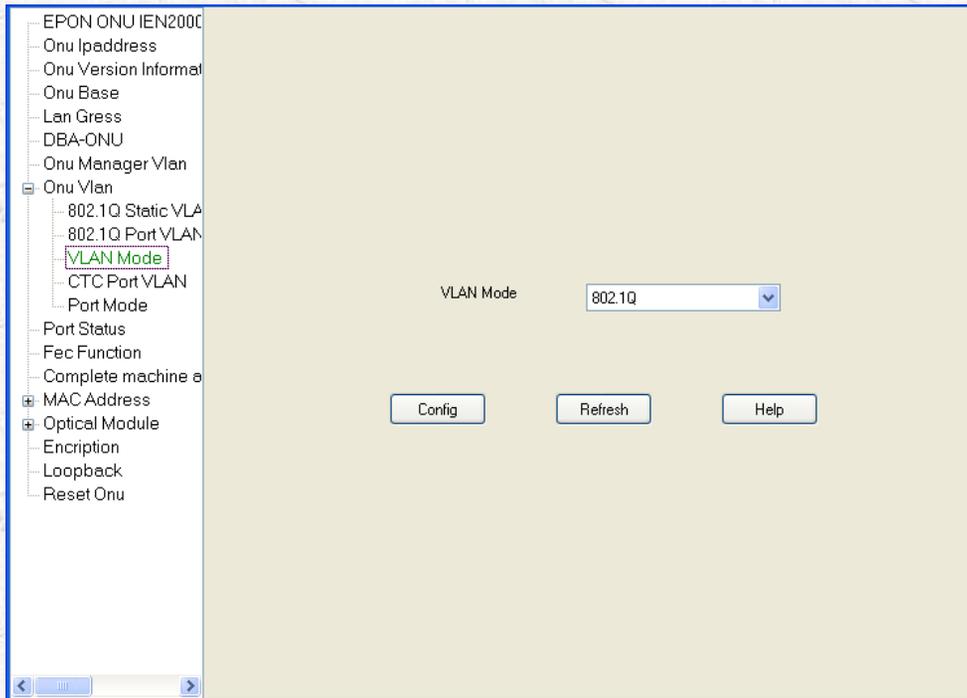


Figure40-14VLAN Mode Configuration Interface

**VLAN mode:**It's 802.1Q and CTC these two mode.

Click the '**Config**' button, the system began to configure the equipment, at the end will given the configuration result.

Click the '**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the '**Help**' button, the system will given a hand online.

## 40.9.4 CTC Port VLAN Configuration

Configuration interface as the shown figure:

Port No	VLAN Mode	Default VLAN	TPID(HEX)
1	Transparent	0	8100
2	Transparent	0	8100
3	Transparent	0	8100
4	Transparent	0	8100
5	Transparent	0	8100
6	Transparent	0	8100
7	Transparent	0	8100
8	Transparent	0	8100
9	Transparent	0	8100
10	Transparent	0	8100
11	Transparent	0	8100
12	Transparent	0	8100
13	Transparent	0	8100
14	Transparent	0	8100
15	Transparent	0	8100

Configuration Panel:

Port No:  VLAN Mode:

Default VLAN(1-4094):  TPID(HEX: 0-FFFF):

Buttons:

Figure40-15CTC Port VLAN Configuration Interface

If one record of choice VLAN model is 'conversion',Click the '**Config**' button,at the end will given the configuration result.as the shown figure.Otherwise, the configuration interface parameters



equipment to obtain the latest data.

Click the **Help** button, the system will given a hand online.

## 40.9.5 EPON-ONU Port Mode Configuration

Configuration interface as the shown figure:

	Port No	Port Mode
EPON ONU IEN2000	0	untagged
Onu Ipaddress	1	untagged
Onu Version Informat	2	untagged
Onu Base	3	untagged
Lan Gress	4	untagged
DBA-ONU	5	untagged
Onu Manager Vlan	6	untagged
Onu Vlan	7	untagged
802.1Q Static VLA	8	untagged
802.1Q Port VLAN	9	untagged
VLAN Mode	10	untagged
CTC Port VLAN	11	untagged
Port Mode	12	untagged
Port Status	13	untagged
Fec Function	14	untagged
Complete machine e	15	untagged
MAC Address		
Optical Module		
Encription		
Loopback		
Reset Onu		

Figure40-17Port mode configuration main interface

Port mode port mode configuration main is in the main interface,select one of line,Click the **Config**”button,,It will appear

the parameter configuration interface. As the shown figure:

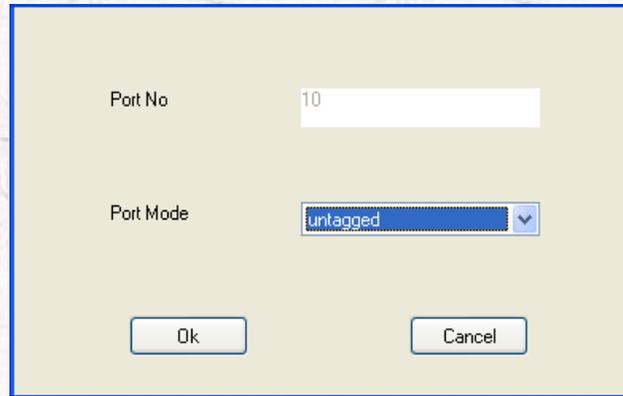
The image shows a parameter configuration dialog box with a light beige background and a blue border. It contains two input fields: 'Port No' with the value '10' and 'Port Mode' with the value 'untagged'. Below the fields are two buttons: 'Ok' and 'Cancel'.

Figure40-18Parameter configuration interface

Click the “**OK**” button, the system began to equipment for configuration, After configuration,it will give configuration results.

Click the'**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the'**Help**” button, the system will given a hand online.

## 40.10QINQ Configure

### 40.10.1 Global QinQ configure

Configuration interface as the shown figure:

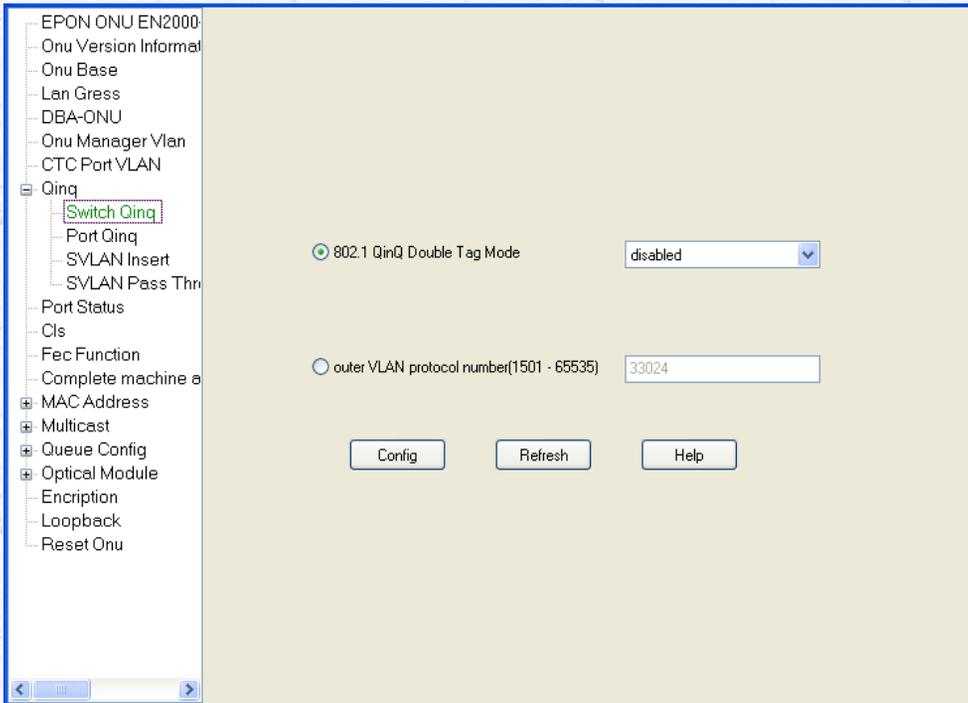


Figure40-19Global QINQ configure interface

Click the' **Config**'button, the system began to configure the equipment, at the end will given the configuration result.

Click the'**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the'**Help**' button, the system will given a hand online.

## 40.10.2 Port QinQ Configure

Only when the ONU QinQ Tag mode is enabled, it will allow configuration. Configuration interface as shown in the figure:

Port No	Port QinQ Mode
1	uplink
2	uplink
3	uplink
4	uplink
5	uplink
6	uplink
7	uplink
8	uplink
9	uplink
10	uplink
11	uplink
12	uplink
13	uplink
14	uplink
15	uplink
16	uplink
17	uplink

Figure 40-20 Port QINQ configuration interface

Select one of the interfaces, it's one of the ports. Click the **Config** button. It will appear the parameter configuration interface. As shown in the figure:

The image shows a parameter configuration interface with a light beige background and a blue border. It contains two input fields: 'Port No' with the value '7' and 'QinQ Mode' with the value 'uplink'. Below these fields are two buttons: 'Ok' and 'Cancel'.

Figure40-21Parameter configuration interface

**Port QinQ Mode:**It's uplin and customer these two mode.

Click the '**Config**' button, the system began to configure the equipment, at the end will given the configuration result.

Click the '**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the '**Help**' button, the system will given a hand online.

### **40.10.3 SVLAN Insert Configured**

Only when the ONU 802.1 QinQ is double Tag mode of 'flexible-QinQ',It can allows to configuration.Configuration

interface as the shown figure:

	Index	Inner Start Vlan	Inner End Vlan	Outer Vlan
EPON ONU EN2000				
Onu Version Informat	1	0	0	0
Onu Base	2	0	0	0
Lan Gress	3	0	0	0
DBA-ONU	4	0	0	0
Onu Manager Vlan	5	0	0	0
CTC Port VLAN	6	0	0	0
Qinq	7	0	0	0
Switch Qinq	8	0	0	0
Port Qinq	9	0	0	0
SVLAN Insert	10	0	0	0
SVLAN Pass Thru				
Port Status				
Cls				
Fec Function				
Complete machine e				
MAC Address				
Multicast				
Queue Config				
Optical Module				
Encription				
Loopback				
Reset Onu				

Port No: 1

Buttons: Config, Delete, Refresh, Help

Figure40-22SVLAN Insert Configured Interface

Click the '**Config**' button, It will appear the parameter configuration interface. As the shown figure:

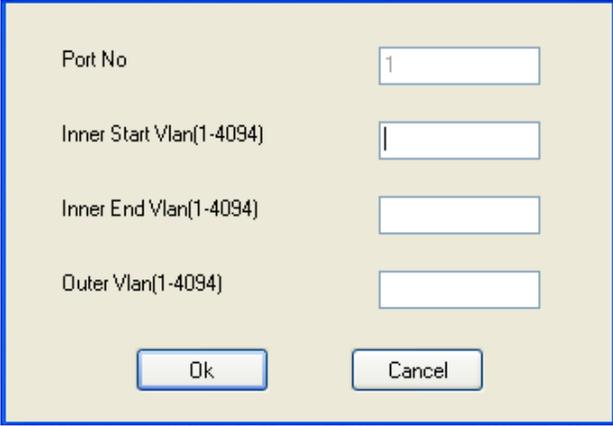
A dialog box with a light beige background and a blue border. It contains four input fields with labels to their left: 'Port No' with the value '1', 'Inner Start Vlan(1-4094)', 'Inner End Vlan(1-4094)', and 'Outer Vlan(1-4094)'. At the bottom are two buttons: 'Ok' and 'Cancel'.

Figure40-23Parameter configuration interface



Notes:

1. SVLAN configuration item at the most is 150, Including the SVLAN insertion and SVLAN passing through these all the configuration record..
2. SVLAN insertion configuration port record at the most is 10.
3. New addition VLAN can't duplicate with already configured VLAN.

Click the '**Config**' button, the system began to configure the equipment, at the end will given the configuration result.

Click the '**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the '**Help**' button, the system will given a hand online.

## 40.10.4 SVLAN Transparent transmission

### Configuration

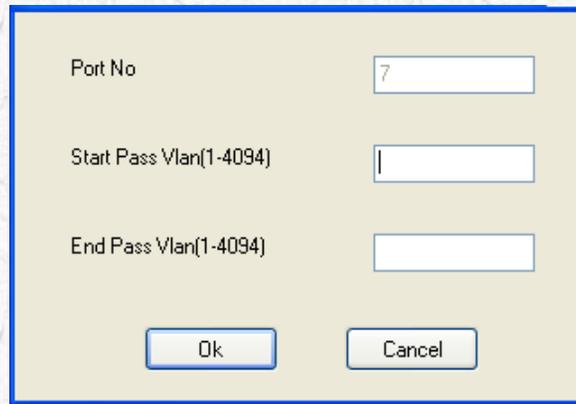
Only when the ONU 802.1 QinQ is double Tag mode of 'flexible-QinQ',It can allows to configuration.Configuration interface as the shown figure:

Index	Start Pass Vlan	End Pass Vlan
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	0	0
8	0	0
9	0	0
10	0	0

Figure40-24SVLAN Transparent transmission Configuration Interface

Click the ' **Config** 'button,It will appear the parameter

configuration interface. As the shown figure:

A dialog box with a light beige background and a blue border. It contains three input fields: 'Port No' with the value '7', 'Start Pass Vlan(1-4094)' with a vertical bar cursor, and 'End Pass Vlan(1-4094)' which is empty. At the bottom are 'Ok' and 'Cancel' buttons.

Port No	7
Start Pass Vlan(1-4094)	
End Pass Vlan(1-4094)	

Ok Cancel

Figure40-25Parameter configuration interface



Notes:

1. Configuration corresponding to the port of QinQ type must be1. Configuration corresponding to the port of QinQ type must be customer.
2. SVLAN configuration item at the most is 150, including the SVLAN insertion and SVLAN passing through these all the configuration record.
3. SVLAN insertion configuration port record at the most is 10.
4. New addition VLAN can't duplicate with already configured VLAN.

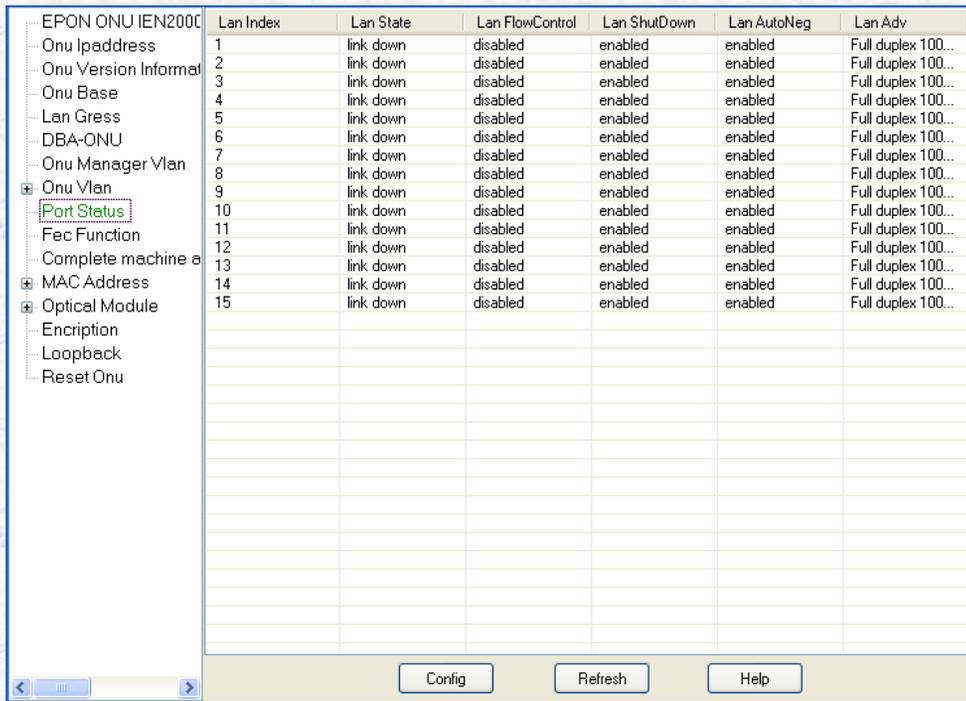
Click the' **Config**'button, the system began to configure the equipment, at the end will given the configuration result.

Click the'**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the 'Help' button, the system will given a hand online.

## 40.11 Port Status Configuration

Configuration interface as the shown figure:



The screenshot displays a configuration interface for an EPON ONU IEN200C. On the left is a sidebar menu with options: Onu Ipaddress, Onu Version Informat, Onu Base, Lan Gress, DBA-ONU, Onu Manager Vlan, Onu Vlan, Port Status (highlighted), Fec Function, Complete machine e, MAC Address, Optical Module, Encryption, Loopback, and Reset Onu. The main area contains a table with the following data:

Lan Index	Lan State	Lan FlowControl	Lan ShutDown	Lan AutoNeg	Lan Adv
1	link down	disabled	enabled	enabled	Full duplex 100...
2	link down	disabled	enabled	enabled	Full duplex 100...
3	link down	disabled	enabled	enabled	Full duplex 100...
4	link down	disabled	enabled	enabled	Full duplex 100...
5	link down	disabled	enabled	enabled	Full duplex 100...
6	link down	disabled	enabled	enabled	Full duplex 100...
7	link down	disabled	enabled	enabled	Full duplex 100...
8	link down	disabled	enabled	enabled	Full duplex 100...
9	link down	disabled	enabled	enabled	Full duplex 100...
10	link down	disabled	enabled	enabled	Full duplex 100...
11	link down	disabled	enabled	enabled	Full duplex 100...
12	link down	disabled	enabled	enabled	Full duplex 100...
13	link down	disabled	enabled	enabled	Full duplex 100...
14	link down	disabled	enabled	enabled	Full duplex 100...
15	link down	disabled	enabled	enabled	Full duplex 100...

At the bottom of the interface are three buttons: Config, Refresh, and Help.

Figure40-26Port Status Configuration Interface

Select one of the interface,it's one of the port,Click the 'Config' button,It will appear the parameter configuration interface. As the shown figure:

The image shows a configuration dialog box with a light beige background and a blue border. It contains the following elements:

- Lan Index:** A text input field containing the number "10".
- Lan FlowControl:** A radio button that is selected (indicated by a green dot), followed by a dropdown menu currently set to "disabled".
- Lan ShutDown:** An unselected radio button, followed by a dropdown menu currently set to "enabled".
- Lan AutoNeg:** An unselected radio button, followed by a dropdown menu currently set to "enabled".
- Buttons:** Two buttons at the bottom, "Ok" on the left and "Cancel" on the right.

Figure40-27Parameter configuration interface

Click the' **Config**'button, the system began to configure the equipment, at the end will given the configuration result.

Click the'**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the'**Help**' button, the system will given a hand online.

## 40.12Flow classification configuration

Each ports of the ONU Ethernet,It can support the maximum number of rules is 8.Configuration interface as the shown figure:

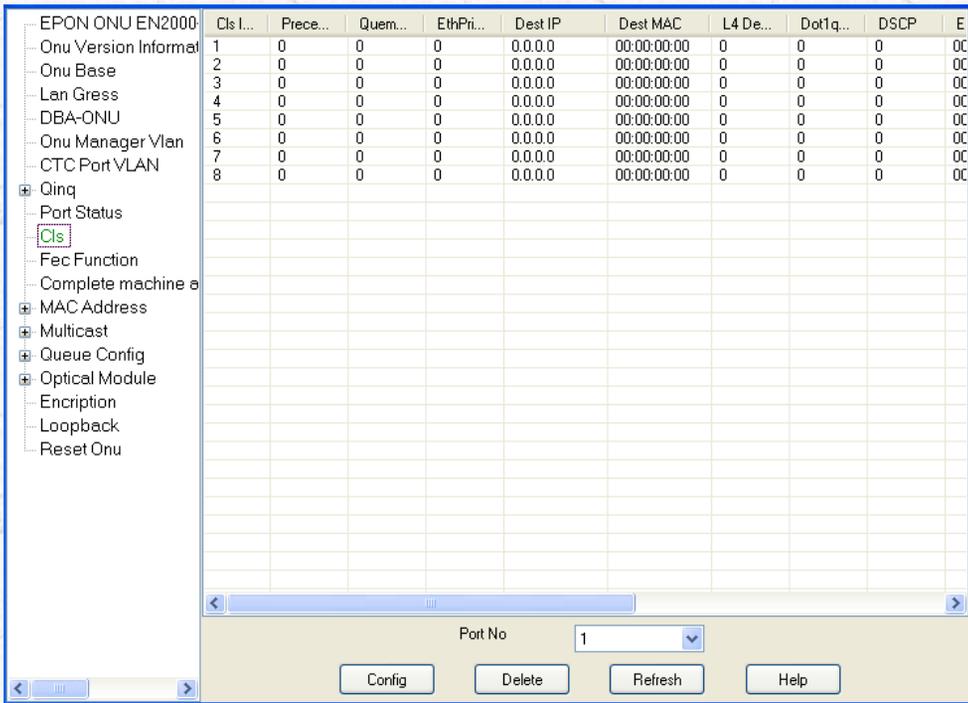


Figure40-28Flow classification configuration Interface

Click the ' **Config** ' button, It will appear the parameter configuration interface. As the shown figure. Before open the configuration interface, If choice one of the record, It can only doing the ' removed ' operation, Delete the selection rules; otherwise, It only can add a new rule. If choice the ' arbitrary message ', Then the flow classification based on the options cannot configuration; otherwise, Flow classification based on Option, can configured three item at most, Can configure one item

at least.

The image shows a parameter configuration interface for flow classification. It features several input fields and checkboxes. The top section includes fields for Port No (1), Precedence Index(1-8) (6), EthPriority(0-7) (0), Cls Index (6), and Queued(0-7) (0). Below this is a section titled "flow classify by" with a grid of checkboxes and input fields for various classification criteria: Dest IP (0.0.0.0), Src IP (0.0.0.0), Dest MAC (00:00:00:00:\_\_:\_\_), Src MAC (00:00:00:00:\_\_:\_\_), L4 Dest Port (0), L4 Src Port (0), Dot1qPriority (0), EthType(HEX) (0000), DSCP (0), VLAN ID (0), IP Protocol (0), and IPv6 Precedence (0). At the bottom are "OK" and "Cancel" buttons.

Port No	1	Cls Index	6
Precedence Index(1-8)	6	Queued(0-7)	0
EthPriority(0-7)	0	<input type="checkbox"/> any	

flow classify by

<input type="checkbox"/> Dest IP	0.0.0.0	<input type="checkbox"/> Src IP	0.0.0.0
<input type="checkbox"/> Dest MAC	00:00:00:00:__:__	<input type="checkbox"/> Src MAC	00:00:00:00:__:__
<input type="checkbox"/> L4 Dest Port	0	<input type="checkbox"/> L4 Src Port	0
<input type="checkbox"/> Dot1qPriority	0	<input type="checkbox"/> EthType(HEX)	0000
<input type="checkbox"/> DSCP	0	<input type="checkbox"/> VLAN ID	0
<input type="checkbox"/> IP Protocol	0	<input type="checkbox"/> IPv6 Precedence	0

OK Cancel

Figure40-29Parameter configuration interface

**L4 dest port:**The configuration data range is from 0 to 65535.

**L4 src port:**The configuration data range is from 0 to 65535.

**Dot1q Priority:**The configuration data range is from 0 to 7.

**Ethernet type:**The configuration data range is from 0 to ffff.

**DSCP:**The configuration data range is from 0 to 63.

**VLAN ID:**The configuration data range is from 0 to 4094.

**IP Protocol:**The configuration data range is from 0 to 255.

**IPv6 Precedence:**The configuration data range is from 0 to 63.

Click the' **Config**'button, the system began to configure the equipment, at the end will given the configuration result.

Click the'**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the'**Help**' button, the system will given a hand online.

## **40.13FEC Functional Configuration**

FEC function configuration will restart the ONU.Configuration interface as the shown figure:

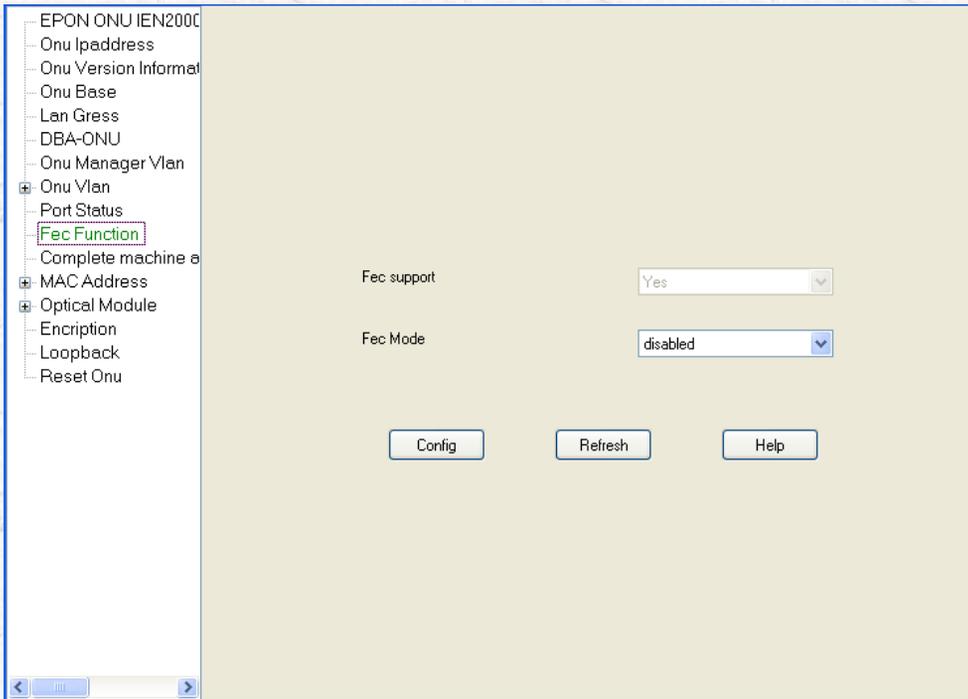


Figure40-30FEC Functional Configuration Interface

Click the' **Config**'button, the system began to configure the equipment, at the end will given the configuration result.

Click the'**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the'**Help**' button, the system will given a hand online.

## 40.14 Machine uplink and downlink storm control

Configuration interface as the shown figure:

The screenshot shows a web-based configuration interface for an EPON ONU. On the left is a navigation tree with the following items: EPON ONU IEN2000, Onu Ipaddress, Onu Version Informat, Onu Base, Lan Gress, DBA-ONU, Onu Manager Vlan, Onu Vlan, Port Status, Fec Function, Complete machine e, MAC Address, Optical Module, Encrption, Loopback, and Reset Onu. The 'Complete machine e' item is highlighted in green. The main content area is a light green panel with six radio button options, each followed by a text input field containing the value '1000000':

- Down Multicast Rate(255-1000000:kbs)
- Up Multicast Rate(255-1000000:kbs)
- Down Broadcast Rate(255-1000000:kbs)
- Up Broadcast Rate(255-1000000:kbs)
- Down UnkownUcast Rate(255-1000000:kbs)
- Up Unkown Ucast Rate(255-1000000:kbs)

Below these options, the text '(255:no limited rate)' is displayed in red. At the bottom of the panel are three buttons: 'Config', 'Refresh', and 'Help'.

Figure40-31Rate configuration interface

Click the ' **Config** 'button, the system began to configure the equipment, at the end will given the configuration result.

Click the '**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the 'Help' button, the system will given a hand online.

## 40.15 MAC Address configure

### 40.15.1 MAC Address Filter Configuration

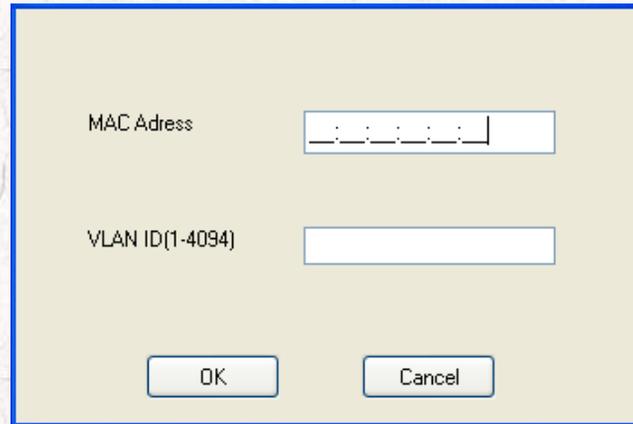
Configuration interface as the shown figure:

	MAC Address	VLAN ID
EPON ONU IEN2000		
Onu Ipaddress	00:00:00:00:00:00	0
Onu Version Informat	00:00:00:00:00:00	0
Onu Base	00:00:00:00:00:00	0
Lan Gress	00:00:00:00:00:00	0
DBA-ONU		
Onu Manager Vlan		
Onu Vlan		
Port Status		
Fec Function		
Complete machine e		
MAC Address		
MAC Address Filt		
MAC Address Lin		
Optical Module		
Encription		
Loopback		
Reset Onu		

Figure40-32MAC address filter configuration interface

Select one of the interface,it's one of the port,Click the'

**Config**”button,,It will appear the parameter configuration interface. As the shown figure:



The image shows a dialog box for parameter configuration. It has a light beige background and a blue border. At the top, there is a label 'MAC Adress' followed by a text input field containing six dots. Below that is a label 'VLAN ID(1-4094)' followed by an empty text input field. At the bottom, there are two buttons: 'OK' on the left and 'Cancel' on the right.

Figure40-33Parameter configuration interface

Click the' **Config**”button, the system began to configure the equipment, at the end will given the configuration result.

Click the' **Delete**” button,the system began to configure the equipment,after the end of result configuration it will given the result configuration.

Click the'**Refresh**' button, The system will restart from the equipment to obtain the latest data.Click the'**Help**' button, the system will given a hand online.

## 40.15.2 MAC Address Define Function Configuration

Configuration interface as the shown figure:

The screenshot displays a web-based configuration interface. On the left, a tree view shows the following menu items: EPON ONU IEN200C, Onu Ipaddress, Onu Version Informat, Onu Base, Lan Gress, DBA-ONU, Onu Manager Vlan, Onu Vlan (expanded), Port Status, Fec Function, Complete machine e, MAC Address (expanded), MAC Address Filt, MAC Address Lim (highlighted), Optical Module (expanded), Encryption, Loopback, and Reset Onu. The main content area is light green and contains two settings: 'MAC limit enable' with a dropdown menu set to 'disable', and 'MAC max learn counts(1-1000)' with a text input field containing '0'. Below these settings are three buttons: 'Config', 'Refresh', and 'Help'.

Figure40-34MAC Address Define Function Configuration

Click the '**Config**' button, the system began to configure the equipment, at the end will given the configuration result.

Click the '**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the **Help** button, the system will given a hand online.

### 40.15.3 MAC Address Aging Function Configuration

Configuration interface as the shown figure:

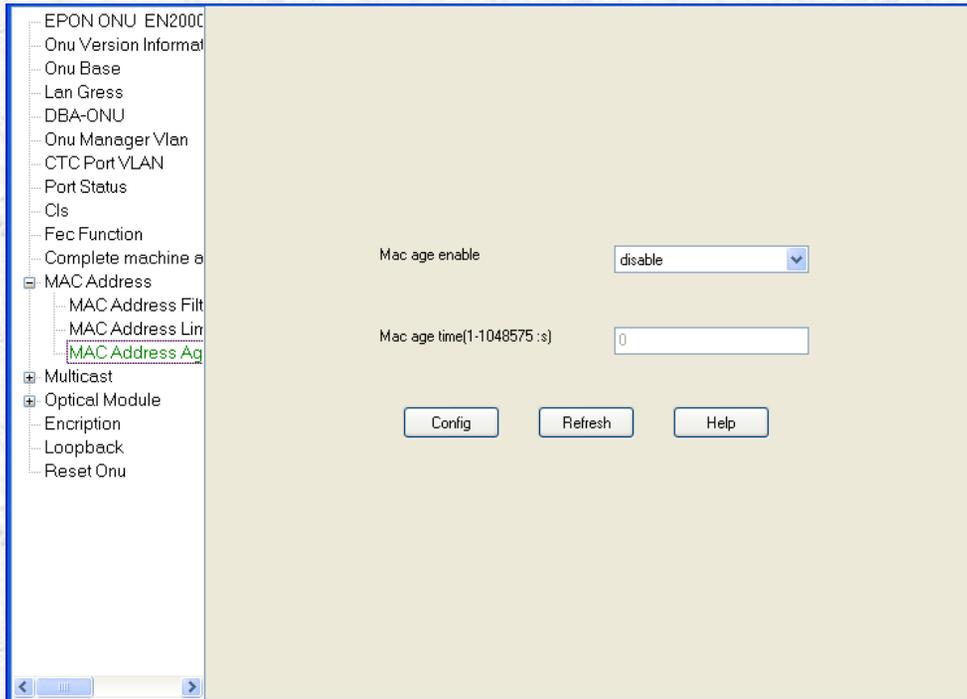


Figure40-35MAC Address Aging Function Configuration Interface

Click the **Config** button, the system began to configure the equipment, at the end will given the configuration result.

Click the'**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the'**Help**' button, the system will given a hand online.

## 40.15.4 MAC Address Maximum Number Configuration

Configuration interface as the shown figure:

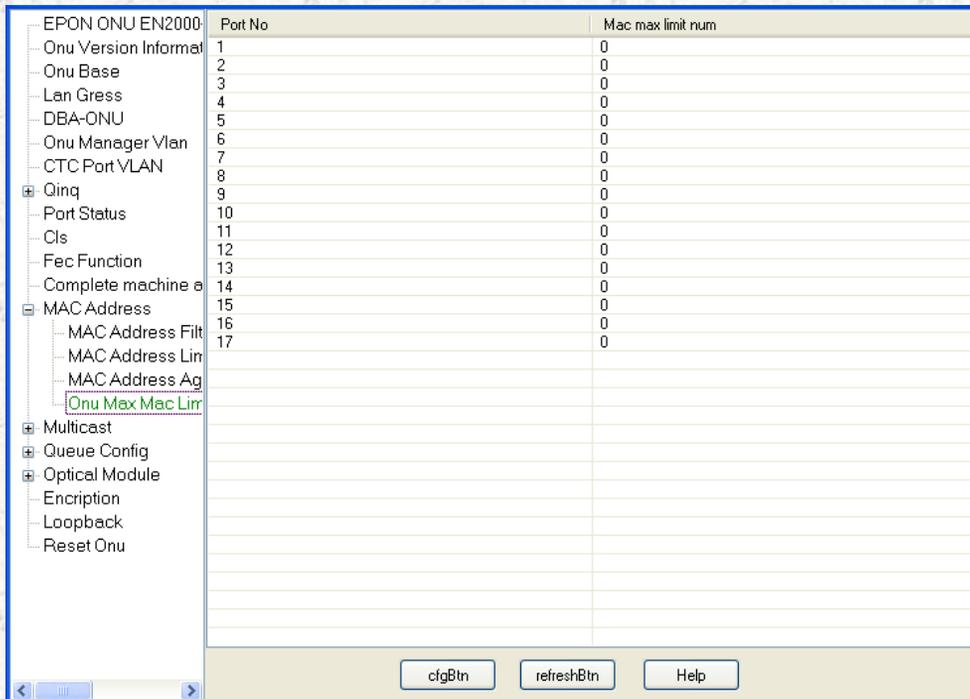
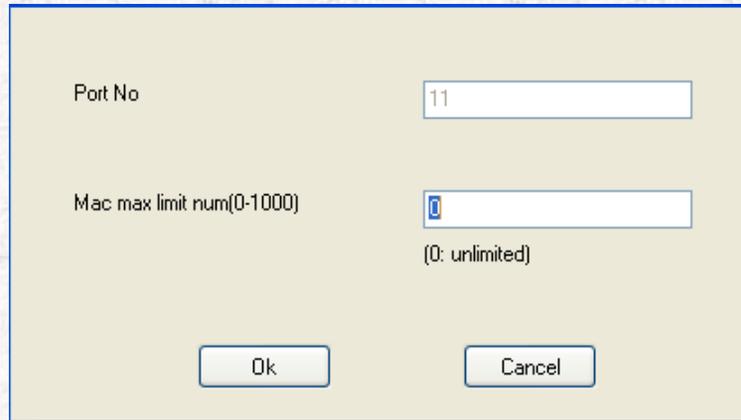


Figure40-36MAC Address Maximum Number Configuration Interface

Select one of the interface, it's one of the port, Click the '**Config**' button, It will appear the parameter configuration interface. As the shown figure:



The image shows a parameter configuration dialog box with a light beige background and a blue border. It contains two input fields and two buttons. The first field is labeled 'Port No' and contains the value '11'. The second field is labeled 'Mac max limit num(0-1000)' and contains the value '0', with '(0: unlimited)' written below it. At the bottom, there are two buttons: 'Ok' on the left and 'Cancel' on the right.

Figure40-37Parameter configuration interface

Click the '**Config**' button, the system began to configure the equipment, at the end will given the configuration result.

Click the '**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the '**Help**' button, the system will given a hand online.

## 40.16 Multicast configuration

### 40.16.1 Multicast basic configuration

Configuration interface as the shown figure:

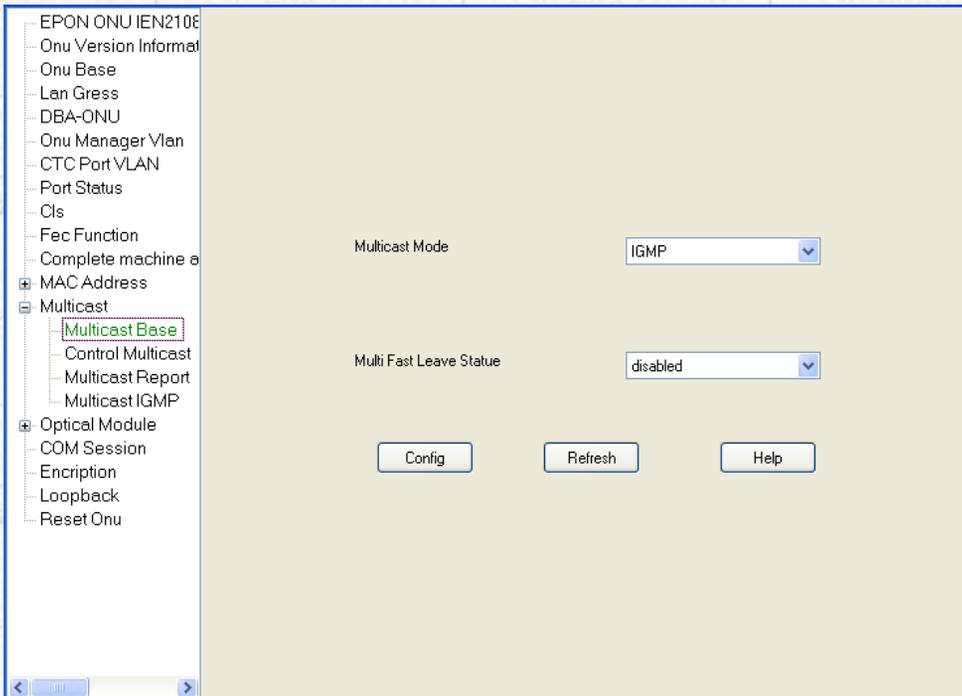


Figure40-38Multicast Basic Configuration Interface

**Multicast mode:**It has mode IGMP and controlled multicast these two mode.

Click the' **Config**'button, the system began to configure the equipment, at the end will given the configuration result.

Click the'**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the'**Help**' button, the system will given a hand online.

### **40.16.2 Controllable multicast configuration**

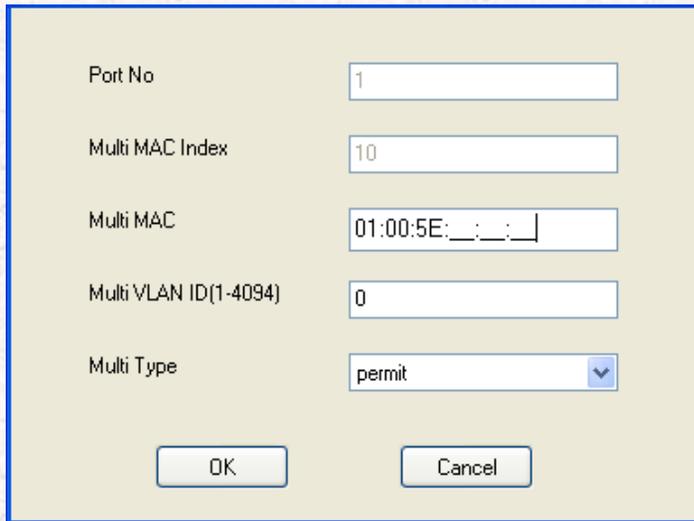
Only when the multicast model is controlled multicast, can allows to configuration. Configuration interface as the shown figure:

	Multi MAC Index	Multi MAC	Multi VLAN ID	Multi Type
EPON ONU IEN210E	1	00:00:00:00:00:00	0	permit
Onu Version Informat	2	00:00:00:00:00:00	0	permit
Onu Base	3	00:00:00:00:00:00	0	permit
Lan Gress	4	00:00:00:00:00:00	0	permit
DBA-ONU	5	00:00:00:00:00:00	0	permit
Onu Manager Vlan	6	00:00:00:00:00:00	0	permit
CTC Port VLAN	7	00:00:00:00:00:00	0	permit
Port Status	8	00:00:00:00:00:00	0	permit
Cls	9	00:00:00:00:00:00	0	permit
Fec Function	10	00:00:00:00:00:00	0	permit
Fec Function	11	00:00:00:00:00:00	0	permit
Complete machine e	12	00:00:00:00:00:00	0	permit
Complete machine e	13	00:00:00:00:00:00	0	permit
MAC Address	14	00:00:00:00:00:00	0	permit
Multicast	15	00:00:00:00:00:00	0	permit
Multicast Base	16	00:00:00:00:00:00	0	permit
Control Multicast				
Multicast Report				
Multicast IGMP				
Optical Module				
COM Session				
Encription				
Loopback				
Reset Onu				

Port No

Figure40-39Controllable multicast configuration interface

Select one of the interface,it's one of the port,Click the '**Config**' button,,It will appear the parameter configuration interface. As the shown figure:



The image shows a parameter configuration interface with the following fields and values:

Port No	1
Multi MAC Index	10
Multi MAC	01:00:5E:__:__:__
Multi VLAN ID(1-4094)	0
Multi Type	permit

At the bottom of the dialog are two buttons: "OK" and "Cancel".

Figure40-40Parameter configuration interface

**MAC Address:**Multicast address must use 01:00:5e to start, Blank defaults is 0.

**Controllable multicast type:** It has allow and preview these two types.

Click the' **Config**'button, the system began to configure the equipment, at the end will given the configuration result.

Click the' **Delete**' button,the system began to configure the equipment,after the end of result configuration it will given the

result configuration.

Click the **Refresh** button, The system will restart from the equipment to obtain the latest data. Click the **Help** button, the system will give a hand online.

### 40.16.3 Multicast message configuration

Configuration interface as the shown figure:

Port No	Multi Tag
1	unTag
2	unTag
3	unTag
4	unTag

Figure40-41Multicast message configuration interface

Select one of the interface, it's one of the port, Click the '**Config**' button,, It will appear the parameter configuration interface. As the shown figure:

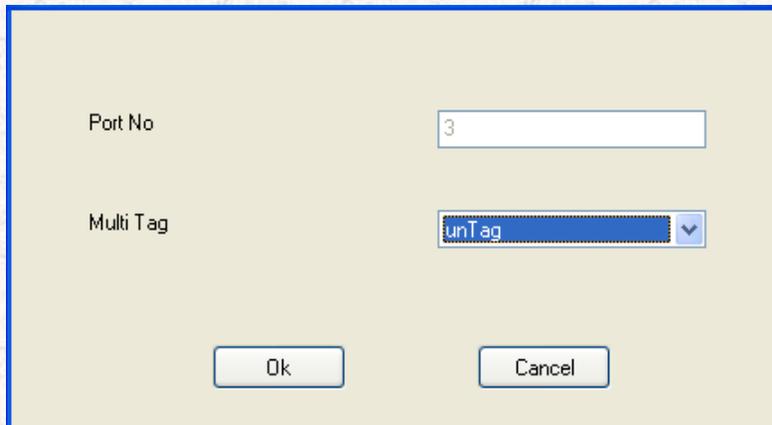
A dialog box with a light beige background and a blue border. It contains two input fields: 'Port No' with a text box containing the number '3', and 'Multi Tag' with a dropdown menu showing 'unTag'. At the bottom, there are two buttons: 'Ok' and 'Cancel'.

Figure40-42Parameter configuration interface

**Downlink multicast service message:** It has unTag and Tag these 2 type.

Click the '**Config**' button, the system began to configure the equipment, at the end will given the configuration result.

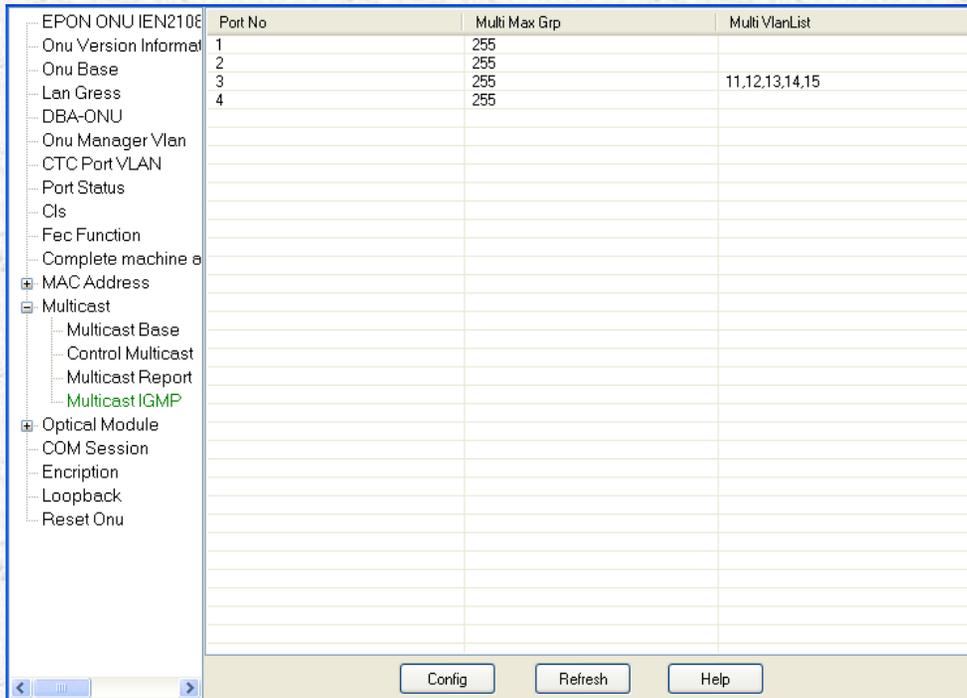
Click the '**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the '**Help**' button, the system will given a hand online.

## 40.16.4 Multicast IGMP Configuration

Only when multicast is IGMP, can allows to configuration.

Configuration interface as the shown figure:



	Port No	Multi Max Grp	Multi VlanList
EPON ONU IEN210E			
Onu Version Informat	1	255	
Onu Base	2	255	
Lan Gress	3	255	11,12,13,14,15
DBA-ONU	4	255	
Onu Manager Vlan			
CTC Port VLAN			
Port Status			
Cls			
Fec Function			
Complete machine e			
MAC Address			
Multicast			
Multicast Base			
Control Multicast			
Multicast Report			
Multicast IGMP			
Optical Module			
COM Session			
Encription			
Loopback			
Reset Onu			

Figure40-43Multicast IGMP Configuration Interface

Select one of the interface,it's one of the port,Click the '**Config**' button,,It will appear the parameter configuration interface. As the shown figure:

The image shows a configuration dialog box with a light beige background and a blue border. It contains the following elements:

- Port No:** A text label followed by a text input field containing the number "4".
- Multi Max Grp:** A radio button that is selected (indicated by a green dot), followed by a text input field containing the number "255".
- Multi VlanList(such as:8,9,11-15):** A radio button that is unselected, followed by a large, empty white rectangular area for text input.
- Buttons:** Three buttons at the bottom: "Ok", "Delete", and "Cancel".

Figure40-44Parameter configuration interface

**Multicast Port maximum number of VLAN:**These configuration item data range is from 1 to 255.

**Multicast VLAN List:**VLAN range is from1- 4094. When every time to configuration the VLAN list, the VLAN number can not exceed 8. And when configuration is over, corresponding to the port of VLAN total number can not exceed the maximum number of VLAN multicast port. Multiple of VLAN can use commas to separate."-" Means the range of all the VLAN.

Click the' **Config**'button, the system began to configure the equipment, at the end will given the configuration result.

Click the'**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the'**Help**' button, the system will given a hand online.

## **40.17Queue configuration**

### **40.17.1 Queue scheduling**

Configuration interface as the shown figure:

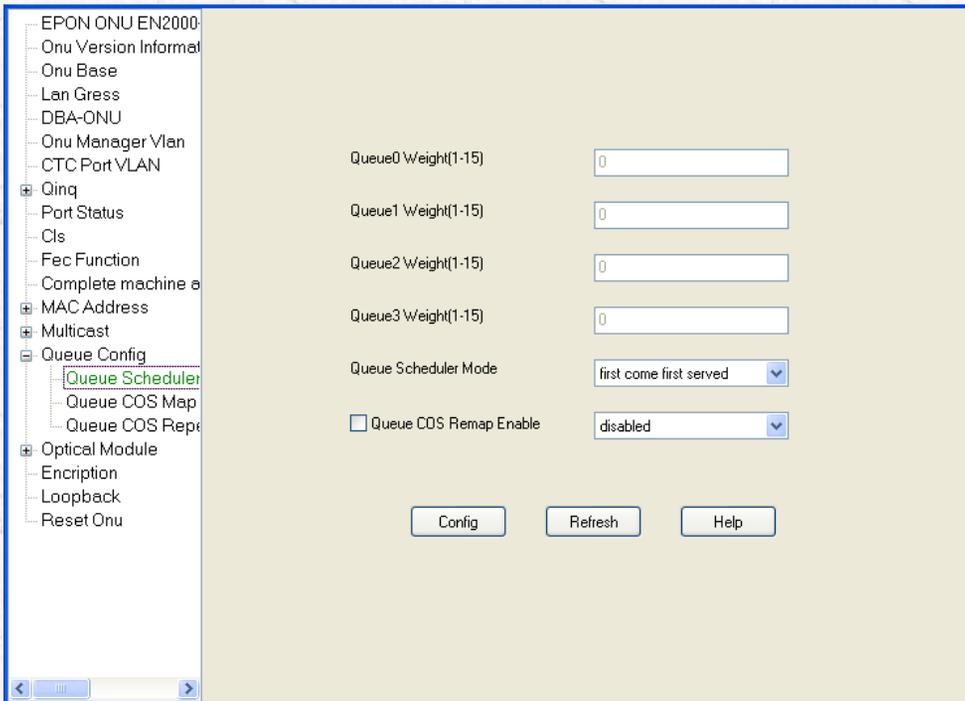


Figure40-45Queue scheduling interface

**Queue scheduling mode:**There are strict priority, weighted round robin, and first come first service these three models.

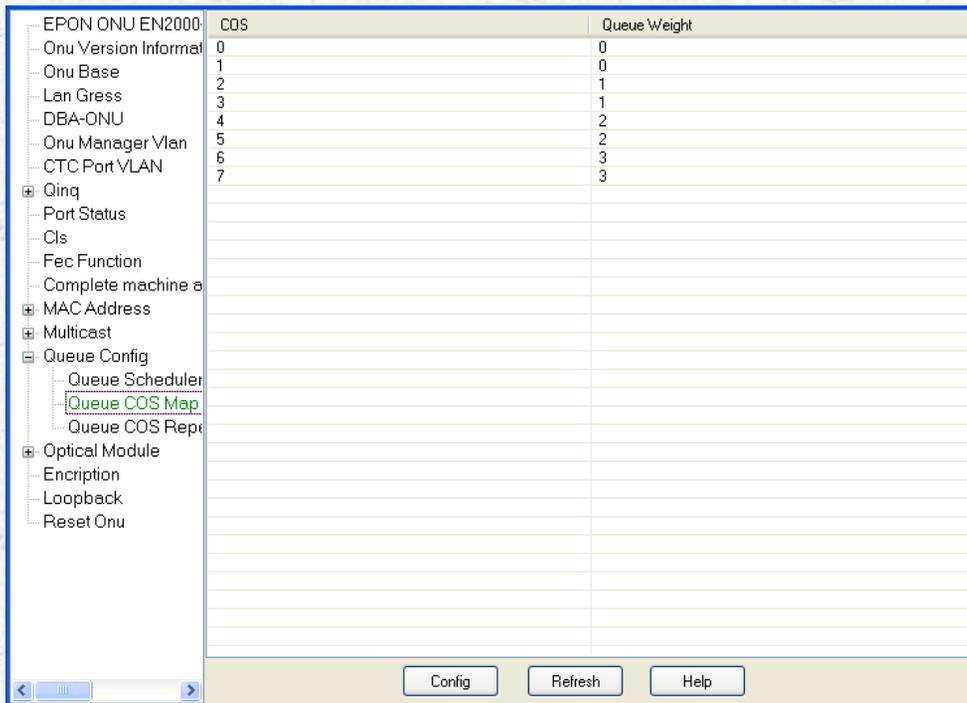
Click the' **Config**'button, the system began to configure the equipment, at the end will given the configuration result.

Click the'**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the **Help** button, the system will given a hand online.

## 40.17.2 Queue COS mapping relationship

Configuration interface as the shown figure:



	COS	Queue Weight
EPON ONU EN2000		
Onu Version Informat	0	0
Onu Base	1	0
Lan Gress	2	1
DBA-ONU	3	1
Onu Manager Vlan	4	2
CTC Port VLAN	5	2
	6	3
	7	3
Qinq		
Port Status		
Cls		
Fec Function		
Complete machine e		
MAC Address		
Multicast		
Queue Config		
Queue Scheduler		
Queue COS Map		
Queue COS Repr		
Optical Module		
Encription		
Loopback		
Reset Onu		

Figure40-46Queue COS mapping relationship interface

Select one of the interface,it's one of the port,Click the '**Config**' button, It will appear the parameter configuration interface. As the shown figure:

The image shows a parameter configuration interface with a light beige background and a blue border. It contains two input fields: 'COS' with a text box containing the number '4', and 'Queue Weight' with a dropdown menu showing '2'. At the bottom, there are two buttons: 'Ok' and 'Cancel'.

Figure40-47Parameter configuration interface

Click the' **Config**'button, the system began to configure the equipment, at the end will given the configuration result.

Click the'**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the'**Help**' button, the system will given a hand online.

### 40.17.3 Queue COS Repeat mapping relationship

When the queue COS repeat mapping relationship is enable,can allows to configuration. Configuration interface as the shown figure:

EPON ONU EN2000	Old COS	New COS
Onu Version Informal	0	0
Onu Base	1	1
Lan Gress	2	2
	3	3
DBA-ONU	4	4
Onu Manager Vlan	5	5
CTC Port VLAN	6	6
	7	7
+		
Qinq		
Port Status		
Cls		
Fec Function		
Complete machine e		
+		
MAC Address		
+		
Multicast		
+		
Queue Config		
Queue Scheduler		
Queue COS Map		
Queue COS Repe		
+		
Optical Module		
Encription		
Loopback		
Reset Onu		

Figure40-48Queue COS repeat mapping relationship interface

Select one of the interface,it's one of the port,Click the '**Config**' button, It will appear the parameter configuration interface. As the shown figure:

The image shows a parameter configuration interface with a light beige background and a blue border. It contains two input fields: 'Old COS' with a text box containing the number '4', and 'New COS' with a dropdown menu showing '0'. At the bottom, there are two buttons: 'Ok' and 'Cancel'.

Figure40-49Parameter configuration interface

Click the '**Config**' button, the system began to configure the equipment, at the end will given the configuration result.

Click the '**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the '**Help**' button, the system will given a hand online.

## 40.18Optical module configuration

### 40.18.1 Alarm configuration

Configuration interface as the shown figure:

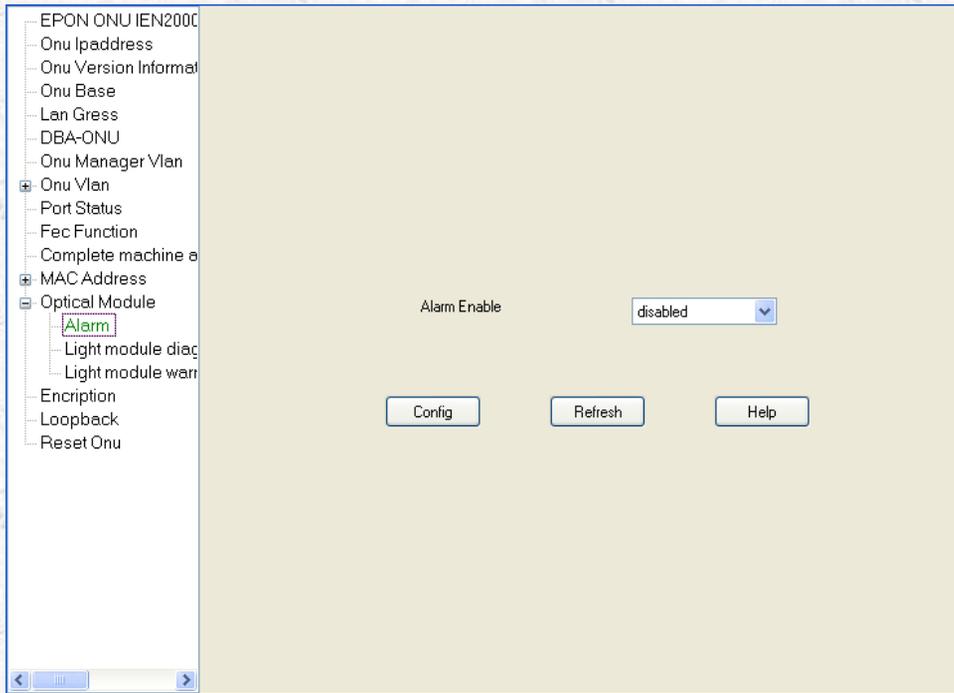


Figure40-50Alarm configuration interface

Click the “**OK**” button, the system began to equipment for configuration, After configuration,it will give configuration results.

Click the'**Help**’ button, the system will given a hand online.

## 40.18.2 Light Module Diagnostic Value

Configuration interface as the shown figure:

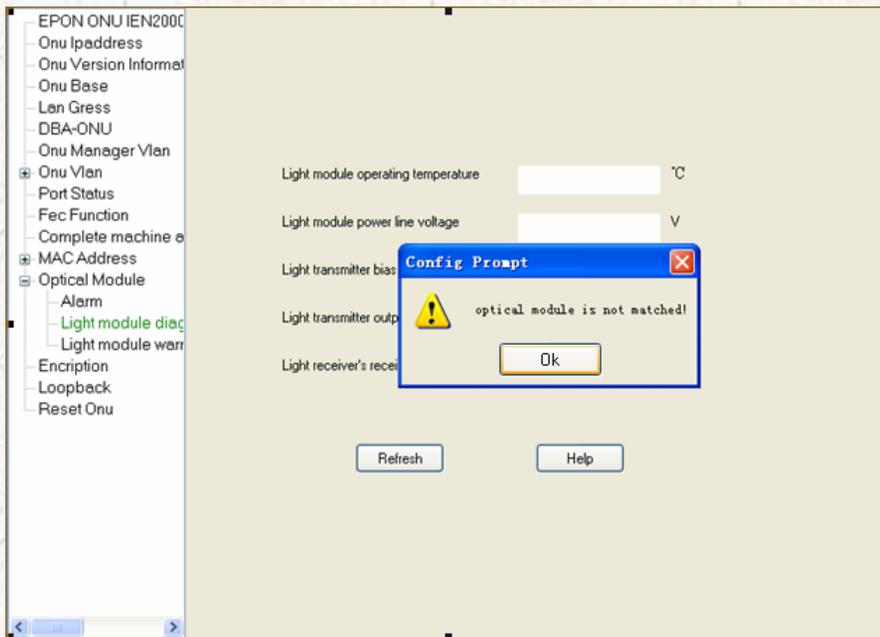


Figure40-51Light module diagnostic value interface

Click the '**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the '**Help**' button, the system will given a hand online.

### 40.18.3 Light module alarm threshold configuration

Configuration interface as the shown figure:

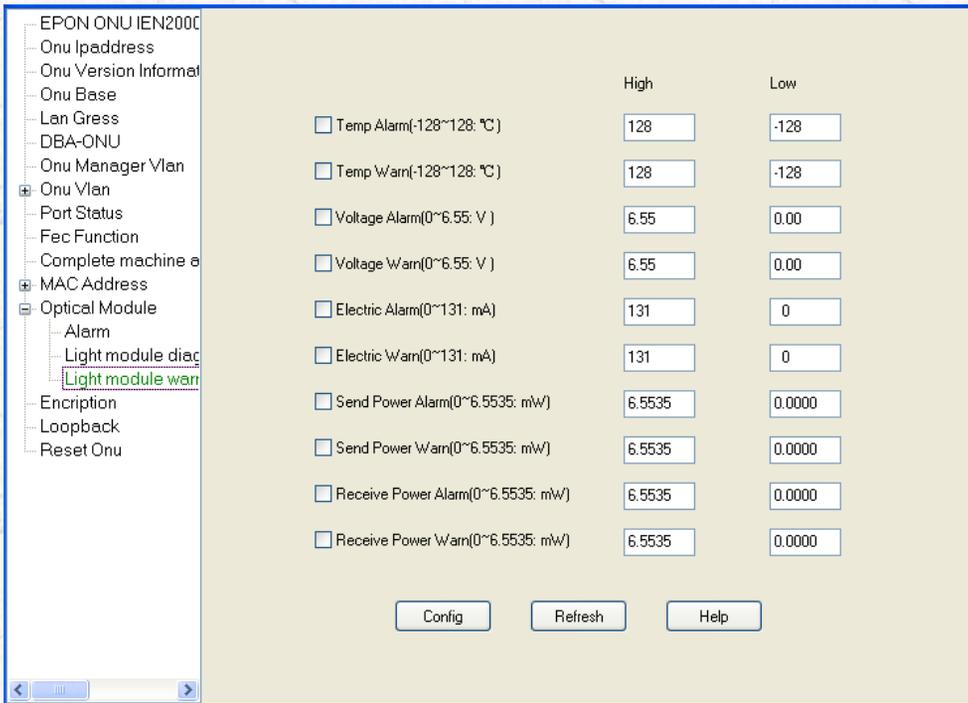


Figure40-52Light module alarm threshold configuration interface

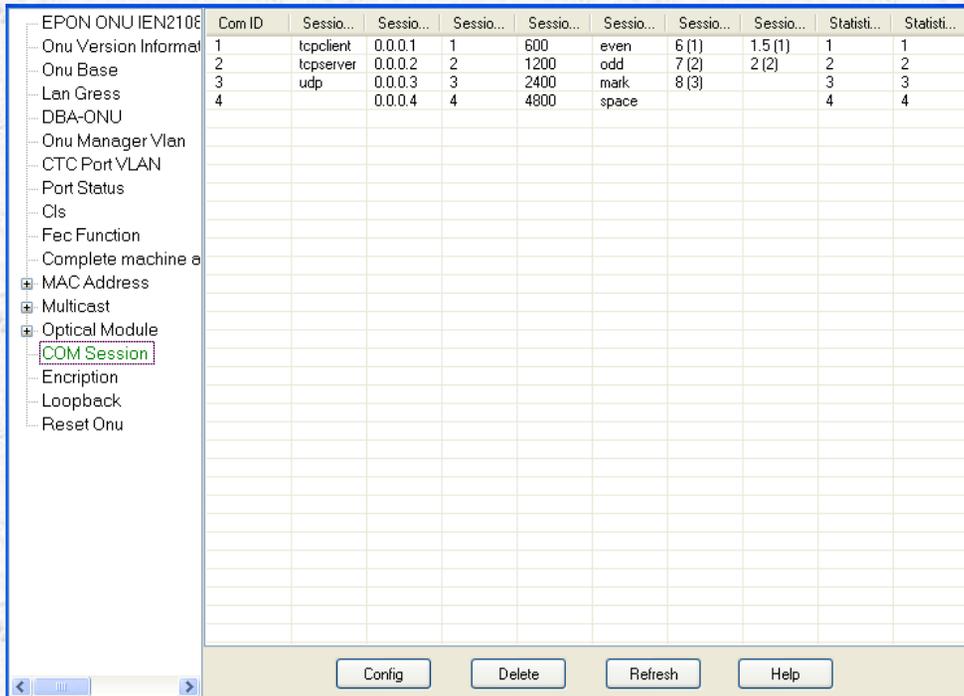
Click the' **Config**'button, the system began to configure the equipment, at the end will given the configuration result.

Click the'**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the'**Help**' button, the system will given a hand online.

## 40.19COM Session configuration

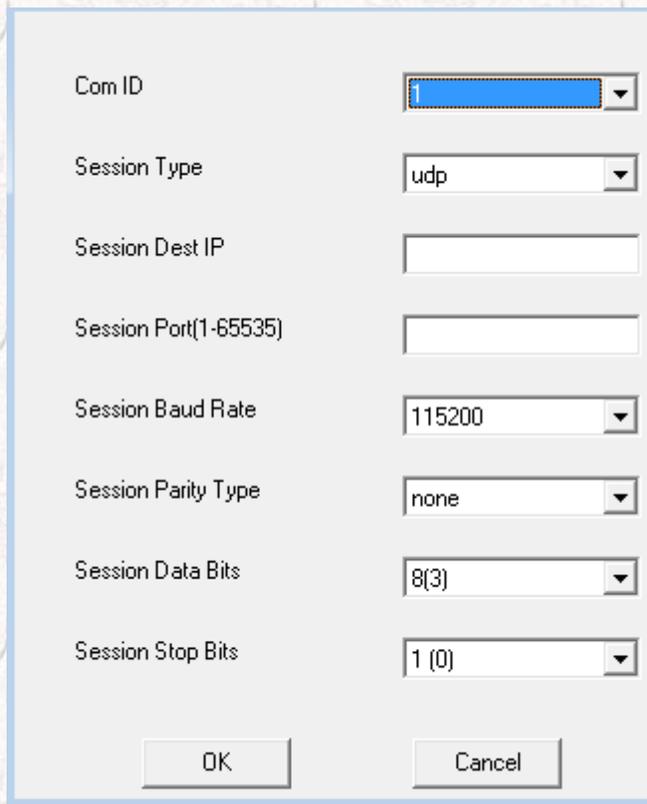
Configuration interface as the shown figure:



Com ID	Sessio...	Statisti...	Statisti...						
1	tcpclient	0.0.0.1	1	600	even	6 (1)	1.5 (1)	1	1
2	tcpserver	0.0.0.2	2	1200	odd	7 (2)	2 (2)	2	2
3	udp	0.0.0.3	3	2400	mark	8 (3)		3	3
4		0.0.0.4	4	4800	space			4	4

Figure40-53COM Session configuration

Select one of the interface,it's one of the port,Click the '**Config**' button, It will appear the parameter configuration interface. As the shown figure:



The image shows a parameter configuration dialog box with the following fields and values:

Parameter	Value
Com ID	1
Session Type	udp
Session Dest IP	
Session Port(1-65535)	
Session Baud Rate	115200
Session Parity Type	none
Session Data Bits	8(3)
Session Stop Bits	1 (0)

At the bottom of the dialog box, there are two buttons: "OK" and "Cancel".

Figure40-54Parameter configuration interface

Click the' **Config**'button, the system began to configure the equipment, at the end will given the configuration result.

Click the'**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the'**Help**' button, the system will given a hand online.

## 40.20 Encryption configuration

Configuration interface as the shown figure:

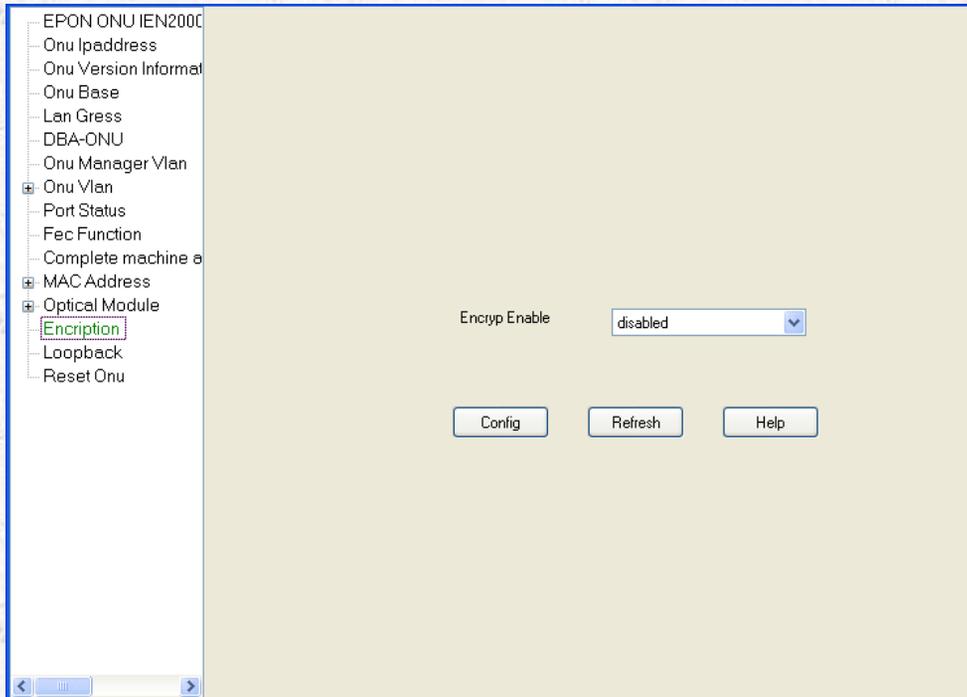


Figure40-55Encryption configuration interface

Click the' **Config**'button, the system began to configure the equipment, at the end will given the configuration result.

Click the'**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the **Help** button, the system will given a hand online.

## 40.21 Loop back test configuration

Configuration interface as the shown figure:

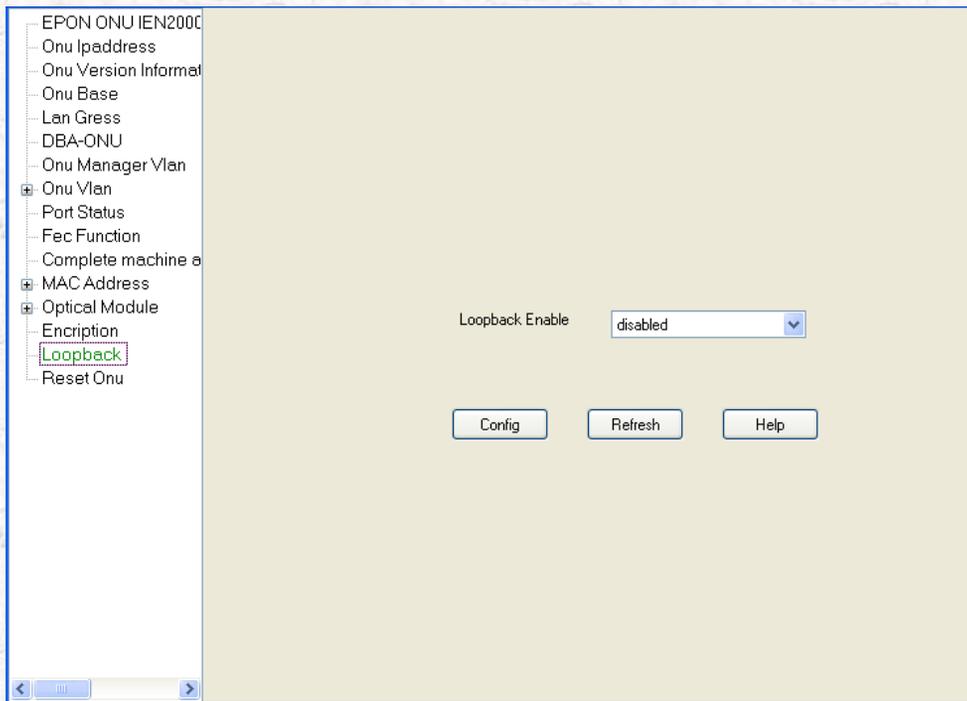


Figure40-56Loop back test configuration interface

Click the **Config** button, the system began to configure the equipment, at the end will given the configuration result.

Click the **Refresh** button, The system will restart from the

equipment to obtain the latest data.

Click the **Help** button, the system will given a hand online.

## **40.22Port POE**

Reverse power onu, you can configure the port POE attributes, so users do not need to connect via a POE terminal on onu, direct connection. However, if the port is poe mode enable the port, then the user must be connected to the terminal device via POE and onu. Otherwise, the inability to access the port. The default port for the poe mode disable a port. And the user can not configure it. Configuration interface as shown:

	Port No	PoE Status	PoE Mode
EN2000-16			
Onu Ippaddress	1	No	enabled
Onu Version Informat	2	No	enabled
Onu Base	3	No	enabled
ONU Capability 2	4	No	enabled
Lan Gress	5	No	enabled
DBA-ONU	6	No	enabled
Port Isolation	7	No	enabled
Onu Manager Vlan	8	No	enabled
Onu Vlan	9	No	enabled
Port Status	10	No	enabled
Fec Function	11	No	enabled
Complete machine a	12	No	enabled
MAC Address	13	No	enabled
Optical Module	14	No	enabled
Encription	15	No	enabled
Loopback			
Port PoE			
Reset Onu			

Buttons: Config, Refresh, Help

Figure40-57POE configuration interface

Click the' **Config**'button, the system began to configure the equipment, at the end will given the configuration result.

Click the'**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the'**Help**' button, the system will given a hand online.

## 40.23ONU Reboot

Configuration interface as the shown figure:

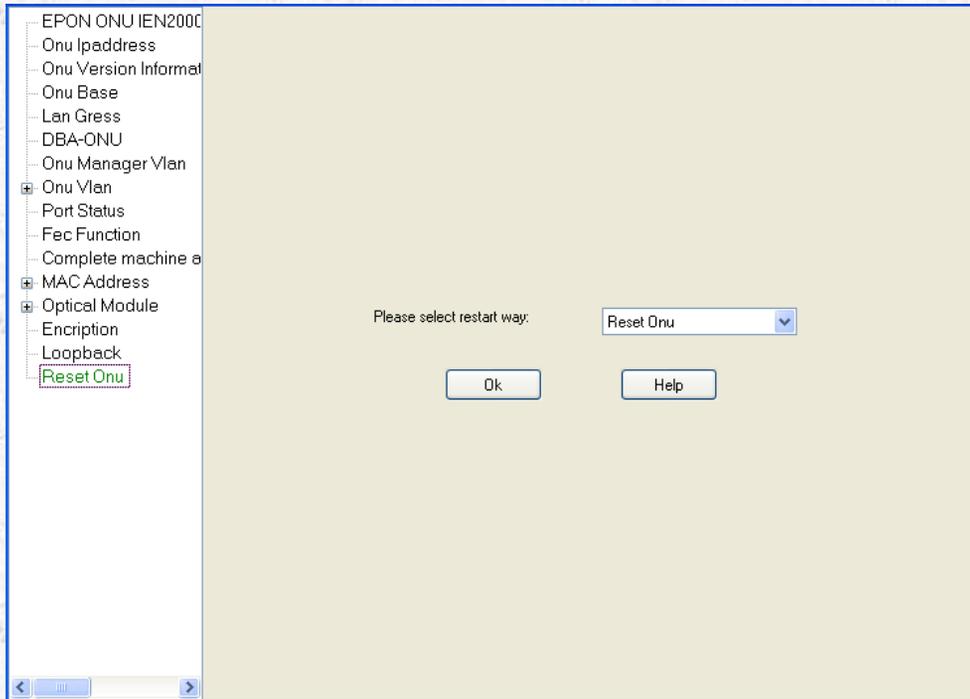


Figure40-58ONU Reboot Interface

Click the “**OK**” button, the system began to equipment for configuration, After configuration,it will give configuration results.

Click the'**Help**'” button, the system will given a hand online.

# **41 Light Machine Configuration Management**

---

## **41.1 Basic information configuration**

Basic information configuration is equipment of some of the basic information, System description, name of product, equipment, operation time is read-only information, these are by characteristics of the device itself to decision, users cannot modify. Configuration interface as the shown figure:

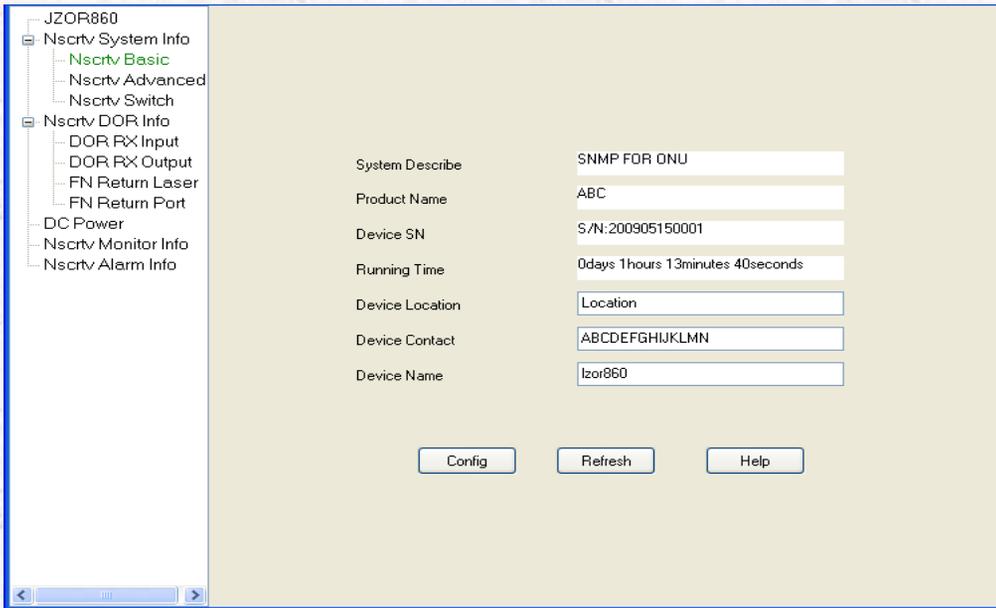


Figure41-1Basic information configuration interface

**System Describe:**By when manufacturer in production equipment to set, the user cannot to modify this value.

**Product Name:**The product specific name;

**Device SN:**Device corresponding to SNMP network management unique identifier;

**Running Time:**Recently started running time of equipment;

**Device Location:**The location of device, fill in the corresponding content by equipment manager;

**Device Contact:**The contact ID and contact information in device, fill in the corresponding content by equipment manager;

**Device Name:**In the management to given the device name, fill in the corresponding content by equipment manager;

Click the' **Config**'button, the system began to configure the equipment, at the end will given the configuration result.

Click the'**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the'**Help**' button, the system will given a hand online.

## **41.2Senior information configuration**

Configuration interface as the shown figure:

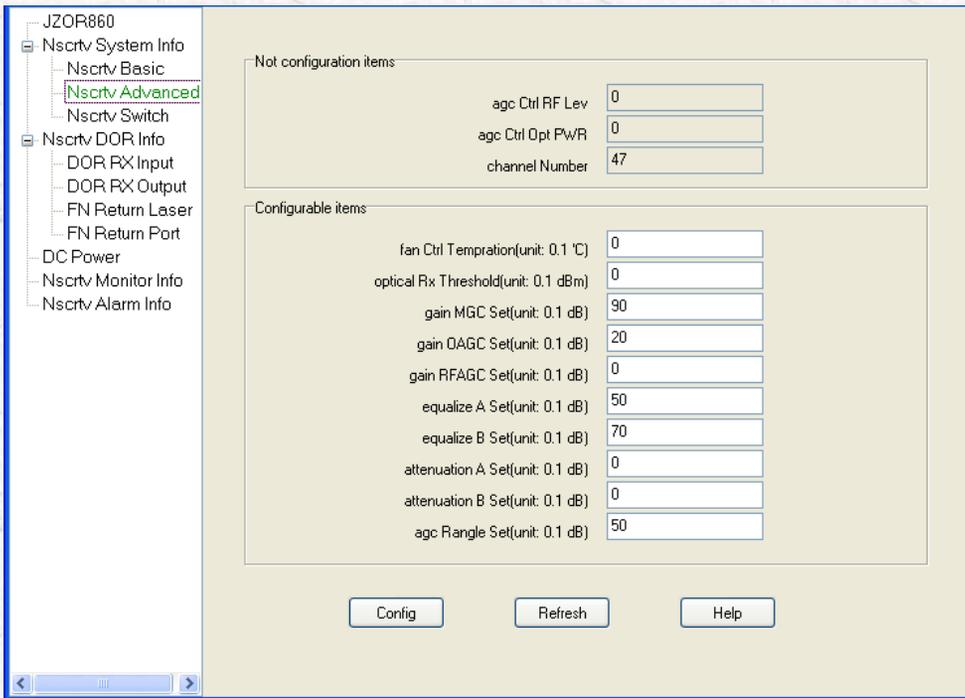


Figure41-2Senior information configuration interface

**Fan Ctrl Temperature** :The unit is 0.1 degrees C.

**Optical Rx Threshold**:The unit is 0.1dBm.

**Gain MGC Set**:The unit is 0.1dB.

Gain OAGC Set:The unit is 0.1dB.

Gain RFAGC Set:The unit is 0.1dB.

**Equalize A Set**:The unit is 0.1dB.

**Equalize B Set:**The unit is 0.1dB.

**Attenuation A Set:**The unit is 0.1dB.

**Attenuation B Set:**The unit is 0.1dB.

**Agc Range Set:**The unit is 0.1dB.

Click the' **Config**'button, the system began to configure the equipment, at the end will given the configuration result.

Click the'**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the'**Help**' button, the system will given a hand online.

### **41.3Switch Configurable**

Configuration interface as the shown figure:

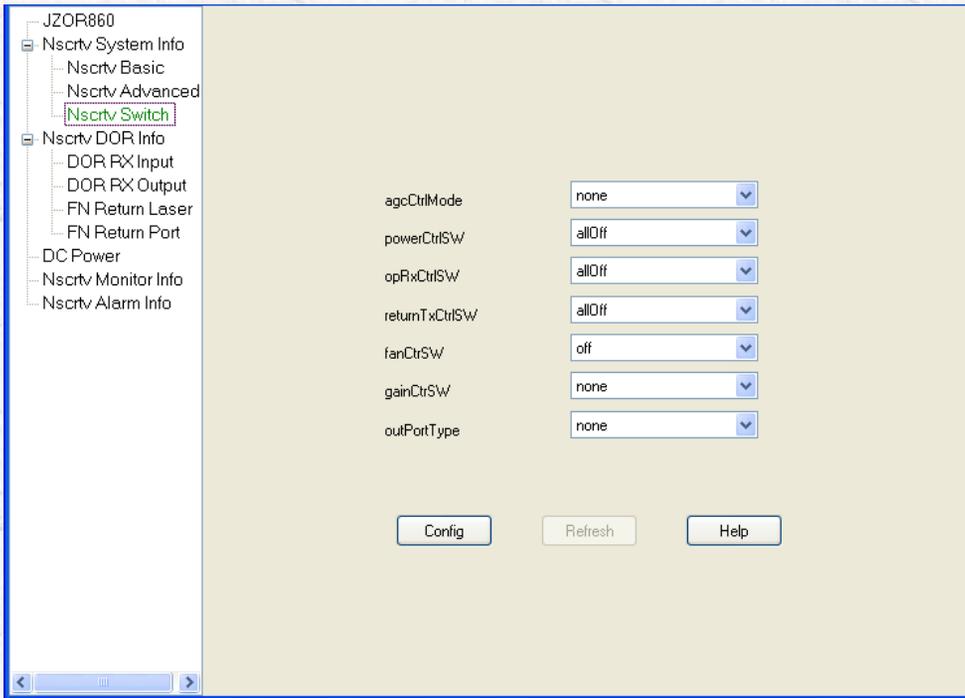


Figure41-3Switch Configurable Interface

**Agc Control mode:**Configure the AGC control mode,it has none,optically controlled AGC and RF control AGC these three options;

**Power CtrlSW:**It has all closed,power A open, power B open, all open these four option;

**OpRXCtrlSW:**It has all closed,power A open ,power B open, all open, automatic A and automatic B these six option;

**ReturnTxCtrlSW:**It has all closed,power A open, power B open, all open these four option;

**FanCtrlSW:**It has close, open and temperature control these three options;

**GainCtrlSW:**It has none,preAGC,preMGC,useAGC and useMGC these five options;

**OutPortType:**Port type has none, oo7TwoPort, oo7FourPort, o12TwoDirect, o12TwoFZ110 and o12TwoFP204 these six option;



Notes:

- 1 If the equipment can not be normal value, then the interface in all of the drop down box to appear empty;
- 2 If the configuration does not need to change one value, then the option can choice of the available options;

Click the' **Config**'button, the system began to configure the equipment, at the end will given the configuration result.

Click the'**Refresh**' button, The system will restart from the equipment to obtain the latest data.

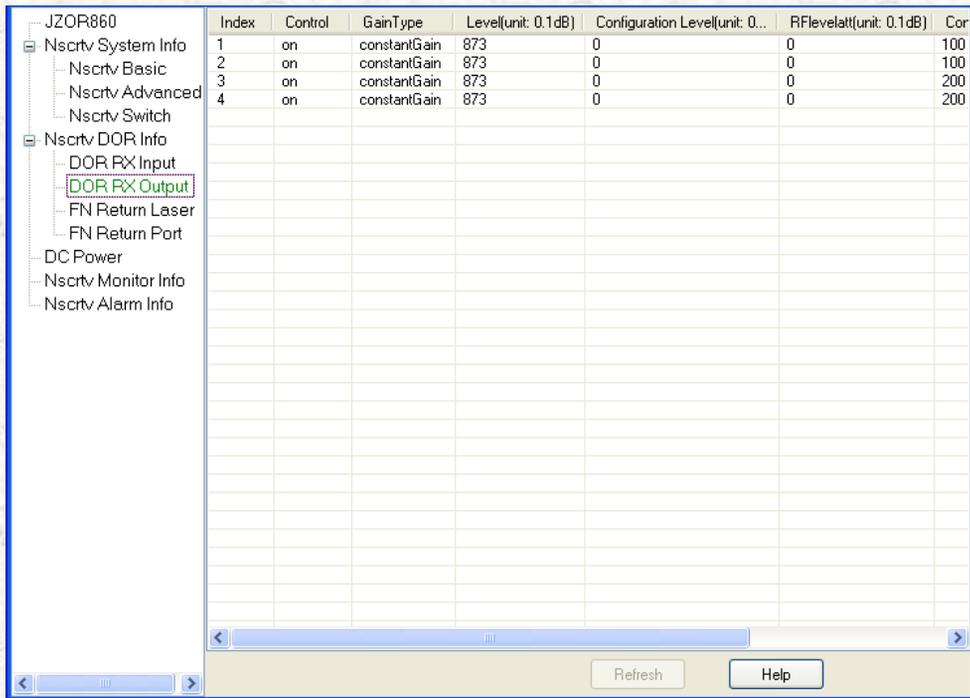
Click the'**Help**' button, the system will given a hand online.



Click the **Help** button, the system will given a hand online.

## 41.5DOR RX Output

Configuration interface as the shown figure:



Index	Control	GainType	Level(unit: 0.1dB)	Configuration Level(unit: 0...	RFlevelatt(unit: 0.1dB)	Cor
1	on	constantGain	873	0	0	100
2	on	constantGain	873	0	0	100
3	on	constantGain	873	0	0	200
4	on	constantGain	873	0	0	200

Figure41-5DOR RX Output configuration interface

**Control Switch:**It has on and off these two option.

**Gain Type:**It has constantLevel and constantGain these two option.

**RF level:**The unit is 0.1Buv.

**Config level:**The unit is 0.1dB.

**Level attenuation amount:**The unit is 0.1dB.

**Config level attenuation amount:**The unit is 0.1dB.

Click the '**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the '**Help**' button, the system will given a hand online.

## **41.6FN Return Laser**

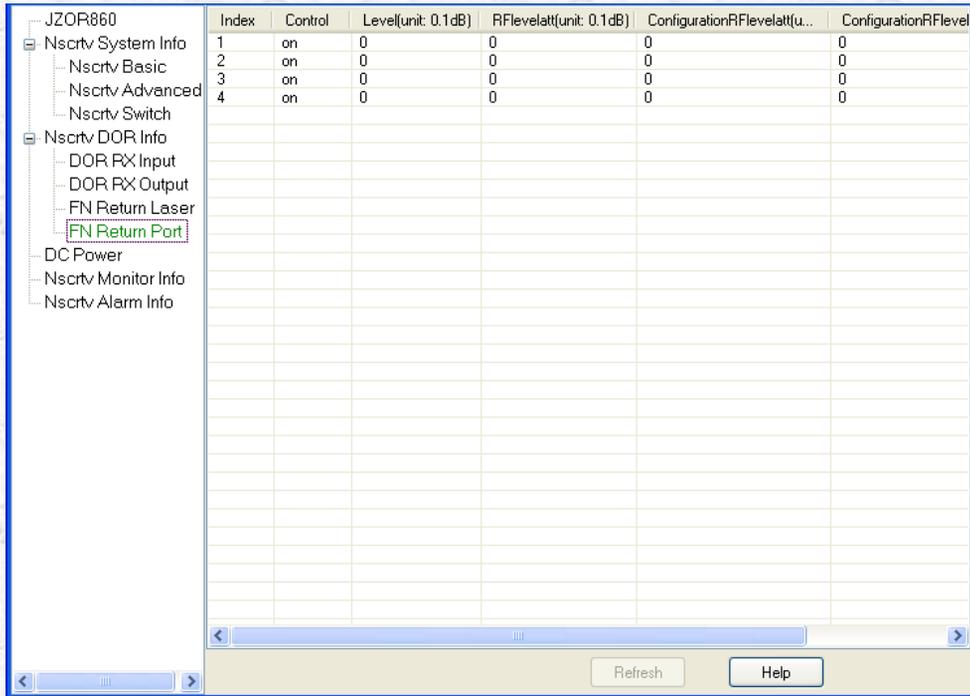
Configuration interface as the shown figure:



Click the **Help** button, the system will given a hand online.

## 41.7FN Return Port

Configuration interface as the shown figure:



The screenshot shows a configuration interface for the JZOR860 system. On the left is a tree view with the following items: JZOR860, Nscrtv System Info, Nscrtv Basic, Nscrtv Advanced, Nscrtv Switch, Nscrtv DOR Info, DOR FX Input, DOR FX Output, FN Return Laser, FN Return Port (highlighted with a red box), DC Power, Nscrtv Monitor Info, and Nscrtv Alarm Info. The main area contains a table with the following data:

Index	Control	Level(unit: 0.1dB)	RFlevelatt(unit: 0.1dB)	ConfigurationRFlevelatt(u...	ConfigurationRFLevel
1	on	0	0	0	0
2	on	0	0	0	0
3	on	0	0	0	0
4	on	0	0	0	0

At the bottom of the interface, there are navigation arrows on the left and two buttons labeled "Refresh" and "Help" on the right.

Figure41-7FN Return Port configuration interface

**Control:**It has on and off these two option.

**Level:**The unit is 0.1Buv.

**RF level latt:**The unit is 0.1dB.

**Configuration RF level latt:**The unit is 0.1dB.

**Configuration RF level:**The unit is 0.1dB.

Click the'**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the'**Help**' button, the system will given a hand online.

## **41.8DC Power Configuration**

Configuration interface as the shown figure:



## 41.9 Nscrtv Monitor Info Configuration

Configuration interface as the shown figure:

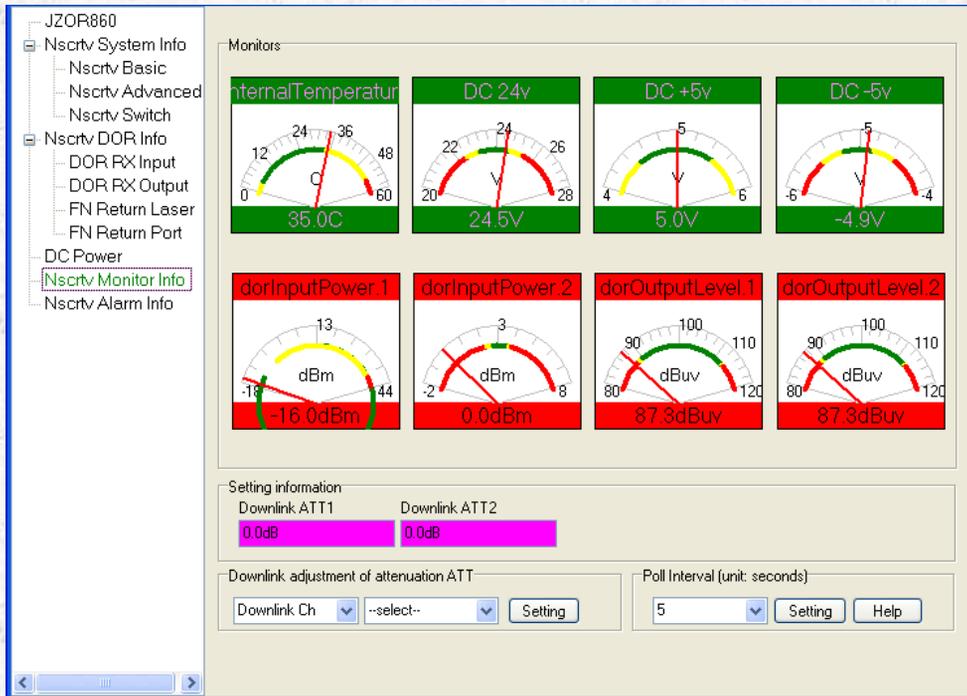


Figure41-9Nscrtv Monitor Info Configuration Interface

**Downlink adjustment of attenuation ATT:**Set the downlink channel 2-20dB of 1 or 2ATT 2-20dB.

**Setting information:**According to the set time interval to read device information.

Click the '**config**' button, the system began to configure the equipment, at the end it will given the configuration results after the end result.

Click the '**Help**' button, the system will given a hand online.

## 41.10Nscrtv Alarm Info Configuration

Configuration interface as the shown figure:

Index	Name	Enable	HIHI	HI	LO	LOLO
0	InternalTemperature	on	550	350	50	1
1	DC +5v	on	60	55	45	40
2	DC -5v	on	-45	-48	-52	-55
3	DC 24v	on	255	248	232	225
4	dorInputPower.2	on	40	38	28	24
5	dorInputPower.1	on	390	-12345	-130	-140
6	LaserOpticalPower.1	on	45	44	2	1
7	dorOutputLevel.1	on	1135	1130	900	890
8	dorOutputLevel.2	on	1135	1130	900	890
9	dorOutputLevel.3	on	1135	1130	900	890
10	dorOutputLevel.4	on	1135	1130	900	890

Config Items

On

HIHI: [Red Bar]

LOLO: [Red Bar]

HI: [Yellow Bar]

LO: [Yellow Bar]

Config Refresh Help

Figure41-10Nscrtv Alarm Info Configuration Interface

**Alarm enable:** Configuration item on corresponding of equipment alarm enable, selected it, then the enable is on, otherwise is off.

Click the '**config**' button, the system began to configure the equipment, at the end it will give the configuration results after the end result.

Click the '**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the '**Help**' button, the system will give a hand online.

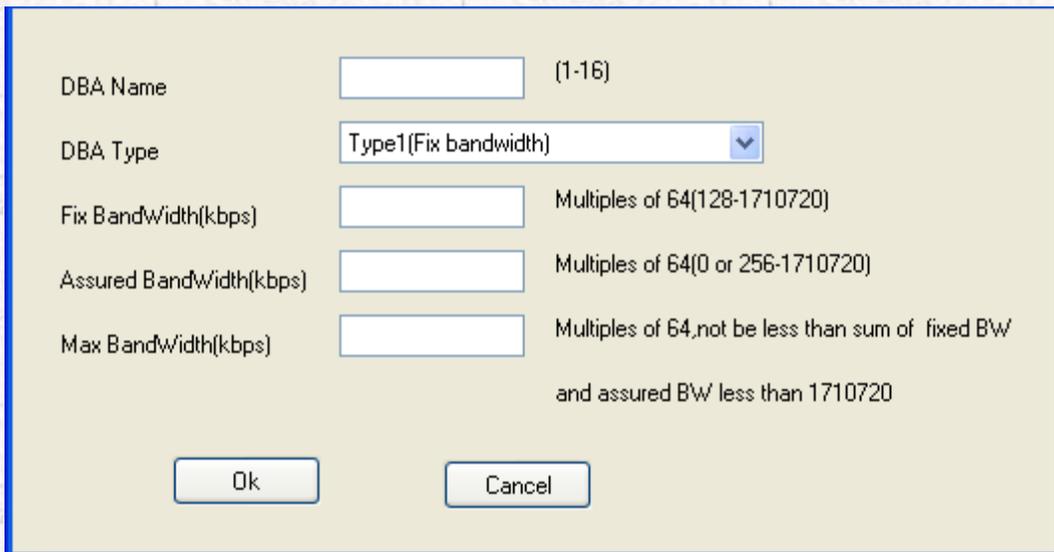
## **41.11DBA Configuration**

Configuration interface as shown:  
erface as shown:

Index	Name	dbaType	fixBandwidth	assuredBa...	maxBandw...
0	1M	Type1(Fix bandwidth)	1024	0	1024

Figure41-11Nsctrv Alarm Info Configuration Interface

Click 'Add' button ,it will pop up a DBA to Add interface.



The image shows a configuration dialog box for DBA templates. It has a light beige background and a blue border. The fields are as follows:

DBA Name	<input type="text"/>	(1-16)
DBA Type	<input type="text" value="Type1(Fix bandwidth)"/>	
Fix BandWidth(kbps)	<input type="text"/>	Multiples of 64(128-1710720)
Assured BandWidth(kbps)	<input type="text"/>	Multiples of 64(0 or 256-1710720)
Max BandWidth(kbps)	<input type="text"/>	Multiples of 64,not be less than sum of fixed BW and assured BW less than 1710720

At the bottom, there are two buttons: 'Ok' and 'Cancel'.

Figure41-12 DBA templates Configuration Interface

Click '**Modify**' button, pop-up form is still shown on the map on the selected template modification DBA.

Click the '**Delete**' button,delete the template you select .

Click the'**Refresh**' button, The system will restart from the equipment to obtain the latest data.

# 42 GPON OLT Configuration

---

## 42.1 OLT Version

The interface displays **OLT Version**, **Hardware Version** and **OLT MAC** of the selected board ,As shown:

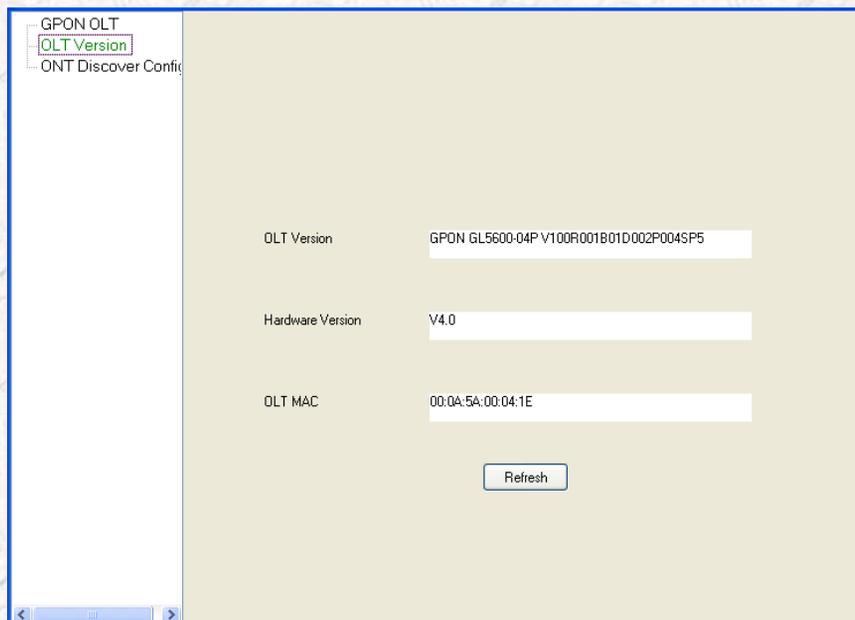
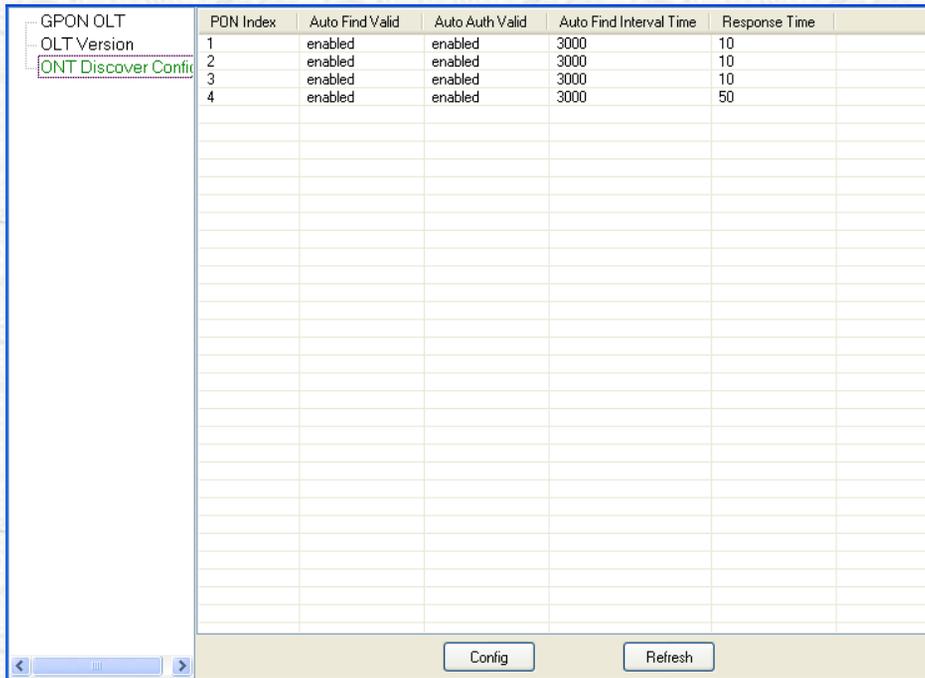


Figure42-1 OLT Version Interface

## 42.2ONT Discover Configuration

The configuration is used to config the parameters of the discover and Auth on the Pon.as shown below:



PON Index	Auto Find Valid	Auto Auth Valid	Auto Find Interval Time	Response Time
1	enabled	enabled	3000	10
2	enabled	enabled	3000	10
3	enabled	enabled	3000	10
4	enabled	enabled	3000	50

Figure42-2 OLT Discover Configuration Interface

Select a record and click '**Config**' button to pop up the configuration window, as shown below:

Pon Port	<input type="text" value="2"/>
Auto Find	<input type="text" value="enabled"/>
Auto Auth	<input type="text" value="enabled"/>
Interval Time(500-42949672)	<input type="text" value="3000"/> ms
Response Time(0-10000)	<input type="text" value="10"/> ms

Figure42-3ONT Discover Setting Interface

In the interface ,you can config the **Auto Find Switch,Auto Auth Switch,Interval Time** and **Response Time**.

Click the '**Refresh**' button, The system will restart from the equipment to obtain the latest data.

# 43 GPON ONT Configuration

ONT configuration management interface, as shown below, you can configure some parameters about ONT

The screenshot displays the ONT configuration management interface. On the left is a navigation tree with the following items: GPON ONT, ONT Information Cont, T-CONT, Gemport Configuration, COS Configuration, VLAN Configuration (highlighted with a plus sign), Device Type Config, Light module diagno, Port BandWidth Limit, and ONT Restart. The main area is titled 'SNMP' and contains the following configuration fields:

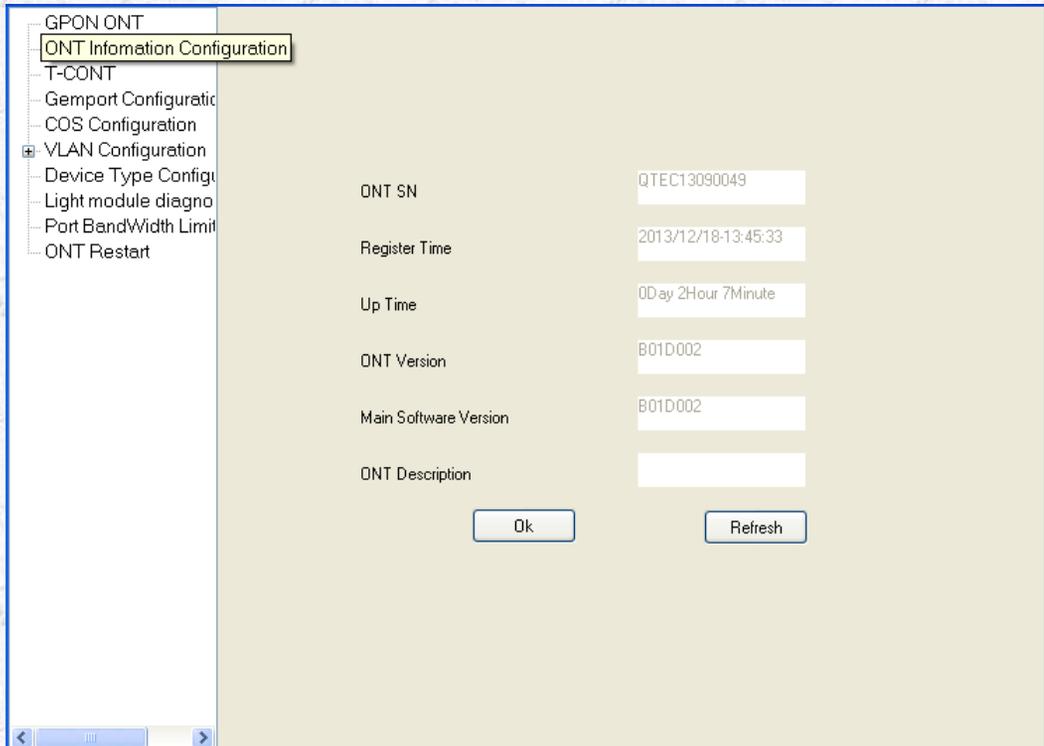
Version	version2c	Port	161
Timeout	5	Retries	1
Read Comm	*****	Write Comm	*****
Engine ID		Context Name	
Security Model	v3	Security Level	NoAuth,NoPriv
User Name		Priv Protocol	NONE
Auth Protocol	NONE	Priv Password	
Auth Password			

An 'Apply' button is located at the bottom center of the configuration area.

Figure43-1ONT Configuration Interface

## 43.1 ONT Information Configuration

ONT Information Configuration mainly for some of the parameters of the ONT for viewing and configuration, as shown:



GPON ONT	
ONT Information Configuration	
T-CONT	
Gemport Configuratic	
COS Configuration	
VLAN Configuration	
Device Type Configu	
Light module diagno	
Port BandWidth Limit	
ONT Restart	

ONT SN	QTEC13090049
Register Time	2013/12/18-13:45:33
Up Time	0Day 2Hour 7Minute
ONT Version	B01D002
Main Software Version	B01D002
ONT Description	

Ok Refresh

Figure43-2ONT Information Configuration

1.2 In the interface ,you can view the SN,Register Time,Up Time ,ONT Version,Main Software versionand ONT Description,you can also mofify the ONT Description.

Click the '**Refresh**' button, The system will restart from the equipment to obtain the latest data.



The image shows a dialog box titled 'T-CONT Bind DBA Form'. It has a light beige background and a blue border. The form contains two input fields: 'Tcont Name' with the value 'T-CONT1' and 'DBA Name' with the value '1M'. Below the fields are two buttons: 'OK' and 'Cancel'.

Figure43-4 T-CONT Bind DBA Form

In the Form,you can bind the T-CONT to the Specified DBA.

Click the '**Unbind DBA**' button, it will unbind the T-CONT to the DBA.

Click the '**Refresh**' button, The system will restart from the equipment to obtain the latest data.

### **43.3Gempport Configuration**

It is used to be creating Gempport,as shown below:



Gemport Name

Tcont Index

Gemport Value  (256-4095)

Figure43-6 Gemport Config Form

Select T-CONT index, Input value of Gemport, click the '**Add**' to creating Gemport.

Click '**Delete**' button, delete the selected Gemport.

Click the '**Refresh**' button, The system will restart from the equipment to obtain the latest data.

## 43.4 COS Configuration

The interface as shown below:

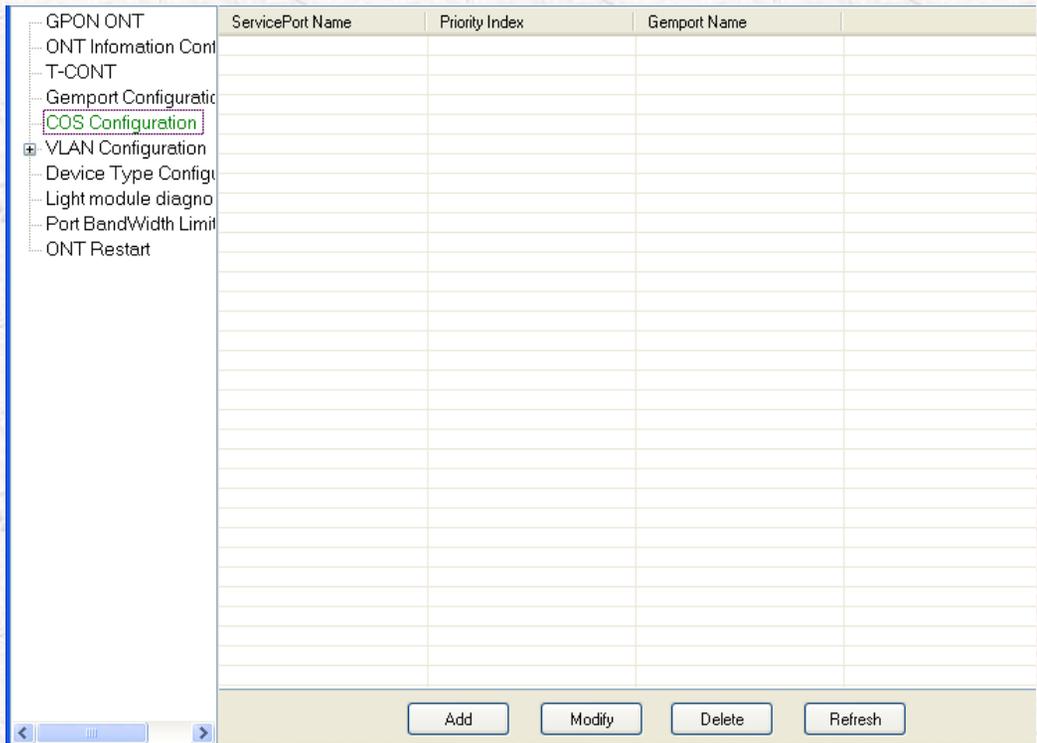


Figure43-7COS Configuration Interface

Click the '**Add**' button,the interface as shown below:

The image shows a configuration form with a light beige background and a blue border. It contains three rows of configuration options, each with a label on the left and a dropdown menu on the right. The first row is labeled 'Service Port Name' and has a dropdown menu with 'ServicePort1' selected. The second row is labeled 'Priority Index' and has a dropdown menu with 'all' selected. The third row is labeled 'Gemport Value' and has a dropdown menu with '278' selected. At the bottom of the form, there are two buttons: 'OK' on the left and 'Cancel' on the right.

Figure43-8Primary Config Form

In the form, select the **ServicePort**, and select the **Primary Index**, **Gemport Value** to Configuration

Click the '**Modify**' button, it will modify the Service Port configuration you select, the form is same as the adding form.

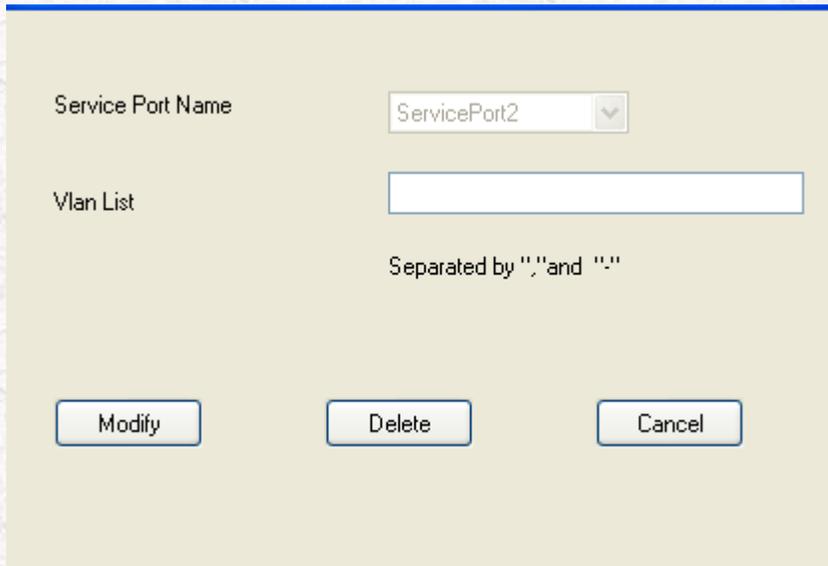
Click the '**Delete**' button, it will delete the ServicePort Primary configuration you select;;

Click the '**Refresh**' button, The system will restart from the equipment to obtain the latest data.

## 43.5 GPON VLAN Configuration

It mainly includes VLAN Creation and Port Mode.





The image shows a configuration dialog box with a light beige background and a blue border. At the top left, the text 'Service Port Name' is followed by a dropdown menu containing 'ServicePort2'. Below this, the text 'Vlan List' is followed by an empty rectangular input field. Underneath the input field, the text 'Separated by "," and "-"' is displayed. At the bottom of the dialog, there are three buttons: 'Modify', 'Delete', and 'Cancel', arranged horizontally from left to right.

Figure43-10VLAN List Config Form

Click the '**Add**' button, or double-click the line in the list will be created in the specified VLAN corresponding ServicePort.

Click the '**Delete**' button to delete the specified in the corresponding ServicePort VLAN.

Click the '**Cancel**' button, the system will exit the dialog box.

Click the '**Refresh**' button, The system will restart from the equipment to obtain the latest data.

### 43.5.2 Port Mode

Configuration interface as shown:

The screenshot displays a web-based interface for configuring VLAN port modes. On the left is a navigation tree with 'VLAN Configuration' expanded to 'VLAN Creation', where 'Port Mode' is selected. The main area contains a table with the following data:

Port No	Port Mode	Default VLAN	VLAN List
1	transparent	0	
2	transparent	0	
3	transparent	0	
4	transparent	0	
5	transparent	0	
6	transparent	0	
7	transparent	0	
8	transparent	0	
9	transparent	0	
10	transparent	0	
11	transparent	0	
12	transparent	0	
13	transparent	0	
14	transparent	0	
15	transparent	0	
16	transparent	0	
17	transparent	0	
18	transparent	0	
19	transparent	0	
20	transparent	0	
21	transparent	0	
22	transparent	0	
23	transparent	0	
24	transparent	0	

Below the table are four input fields: 'Port No' (text box), 'VLAN Mode' (dropdown menu), 'Default VLAN(1-4094)' (dropdown menu), and 'VLAN List' (text box). At the bottom are three buttons: 'Config', 'Delete', and 'Refresh'.

Figure43-11VLAN Port Mode Interface

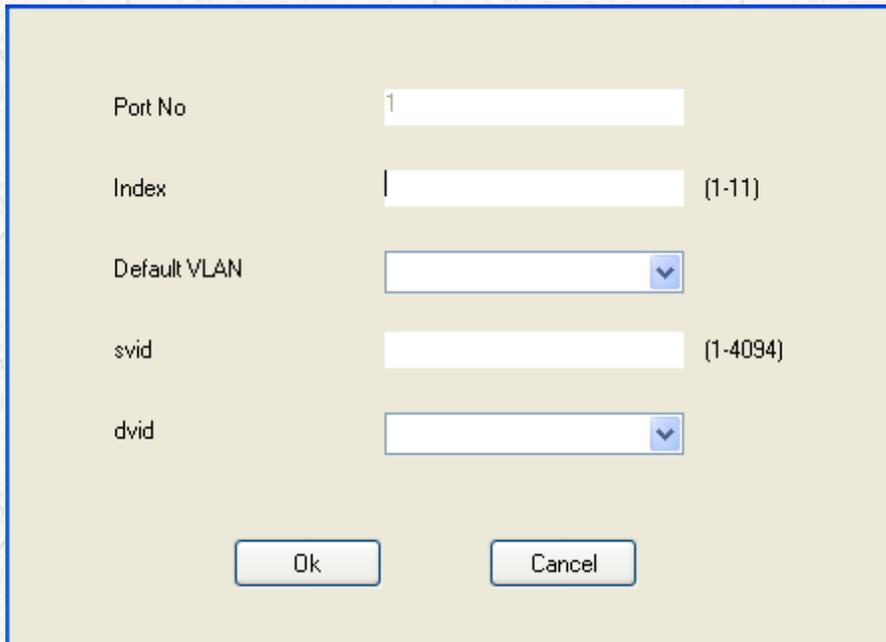
Click the **'Refresh'** button,The system will restart from the equipment to obtain the latest data.

1, when you want to modify the port is tagged mode, select the default VLAN, click on **'Config'**, modify the port mode is tagged.

2, when you want to modify the port is transparent mode, click on the **'Config'**, modify the port mode to transparent mode.

3, when you want to modify the port as a trunk mode, select the default VLAN, enter an existing VLAN in the VLAN list, click on **'Config'**, modify the port mode to trunk mode. Click the **'Delete'** button to delete the corresponding VLAN list of VLAN.





The image shows a 'Translation Config Form' dialog box with a light beige background and a blue border. It contains five input fields and two buttons. The fields are: 'Port No' with the value '1'; 'Index' with a blank field and a range '(1-11)'; 'Default VLAN' with a dropdown menu; 'svid' with a blank field and a range '(1-4094)'; and 'dvid' with a dropdown menu. At the bottom are 'Ok' and 'Cancel' buttons.

Port No	1	
Index		(1-11)
Default VLAN		
svid		(1-4094)
dvid		

Ok Cancel

Figure43-13Translation Config Form

Click the '**OK**' button to increase a conversion.

Click the '**Delete**' button to delete a conversion.

Click the '**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the '**Cancel**' button to exit the dialog box.

Each ONT port 11 can be configured to convert the default configuration for each conversion, you must configure three members, **index**, **svid**, **dvid**, the **index** value of the index port 1-11, **svid** unrestricted range of 1-4094 while **dvid** VLAN must exist under serviceport have created.

**Default VLAN**, **svid**, **dvid** three must differ from each other.

## 43.6 Device Type Configuration

Configuration interface as shown below:

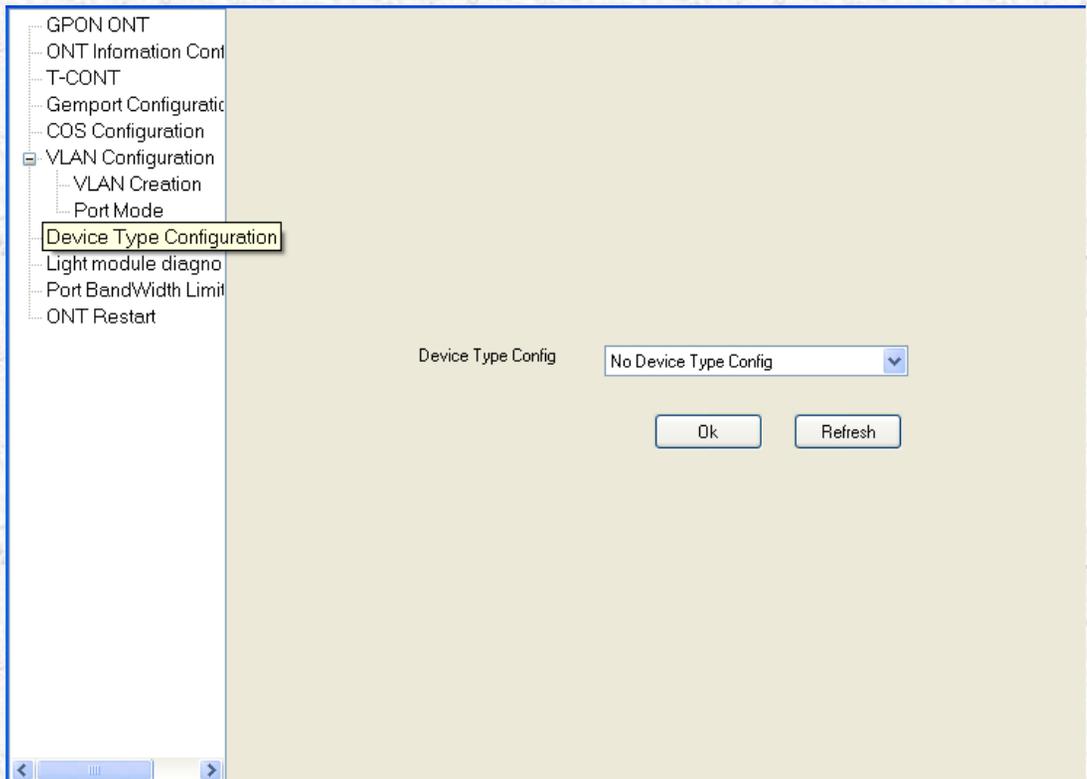


Figure43-14Device Type Configuration

The main types of fat under the ONT configuration, select the next hair type, click on the '**OK**' button to send the configuration to the next type.

Click the '**Refresh**' button, The system will restart from the

equipment to obtain the latest data.

## 43.7 Light module diagnosis value

Interface is shown below:

GPON ONT				
ONT Information Cont				
T-CONT				
Gemport Configurati				
COS Configuration				
VLAN Configuration				
VLAN Creation				
Port Mode				
Device Type Configu				
Light module diagnosis value	Light module operating temperature	51.31 C	°C	
Port BandWidth Limit	Light module power line voltage	3.16 V	V	
ONT Restart	Light transmitter bias electric current	16484 uA	uA	
	Light transmitter output	3.1100 dBm	dBm	
	Light receiver's receive luminous power	-6.9440 dBm	dBm	

Refresh

Figure43-15Light module diagnosis value Interface

It mainly show the **Light module operation temperature,Light module power line voltage,Light transmitter bias electric current,Light transmitter output,Light receiver's receive luminous power** of ONT.

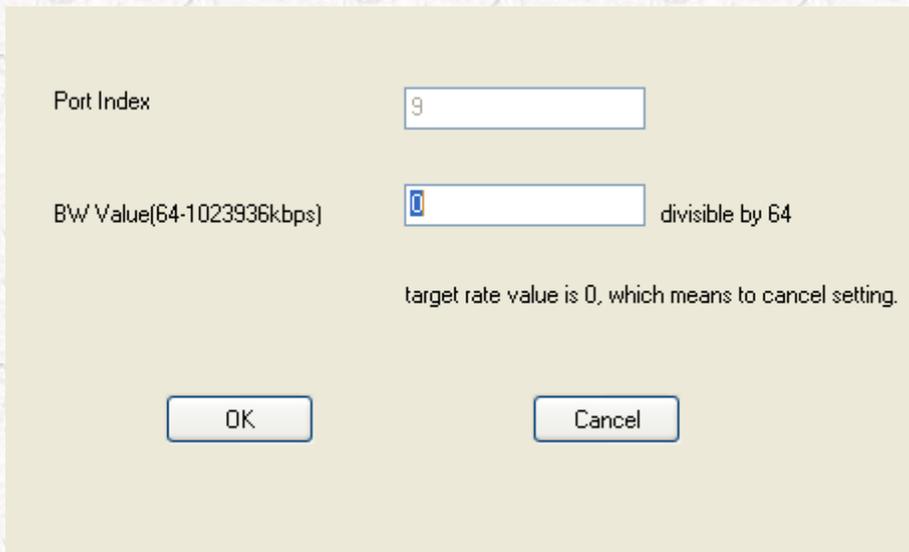
Click the '**Refresh**' button, The system will restart from the equipment to obtain the latest data.

## 43.8 Port Bandwidth Limit

Configuration interface as shown:

Figure43-16Port Bandwidth Limit Interface

After selecting the records, click the **'Config'** button, pop-up dialog box, port speed, as shown below:



Port Index

B'W Value(64-1023936kbps)  divisible by 64

target rate value is 0, which means to cancel setting.

Figure43-17Bandwidth Limit Setting Form

After the speed limit of the input values, click on the **'OK'** button, the speed limit on the port.

## 43.9 ONT Restart

Configuratio interface as shown:

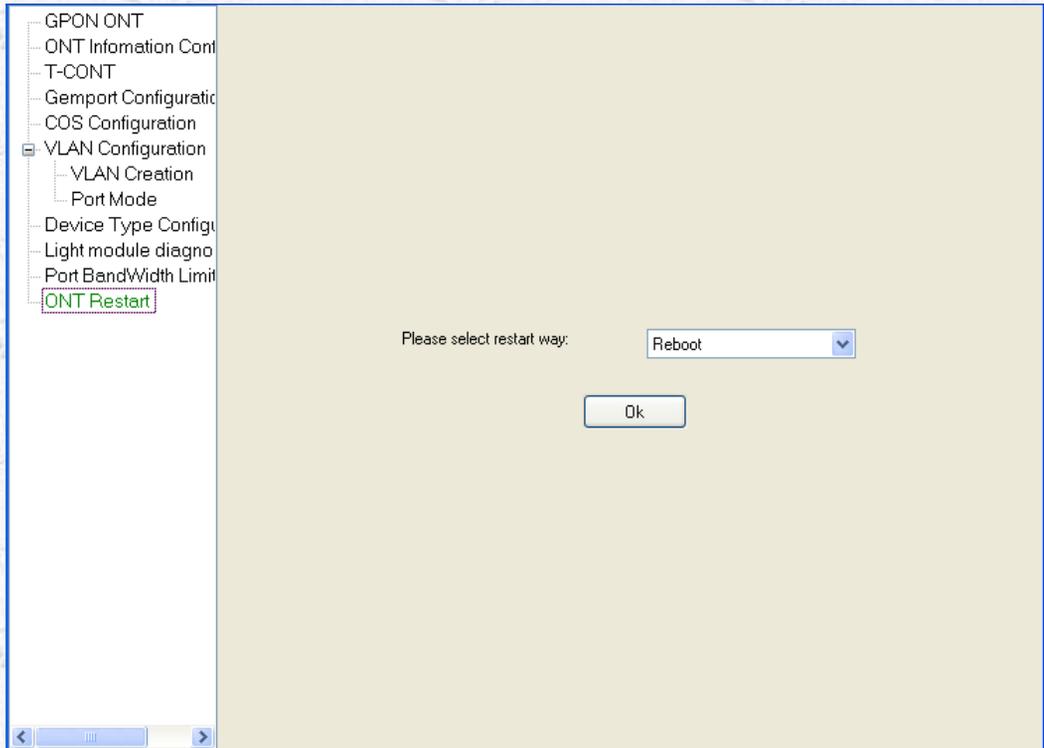


Figure43-18 ONT Restart Interface

Click the '**OK**' button, the system begins to configure the device, after the end of the configuration given configuration.

# 44 S2000 Configuration Management

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## 44.1 S2000 Main Interface Configuration

The main interface configuration as shown:

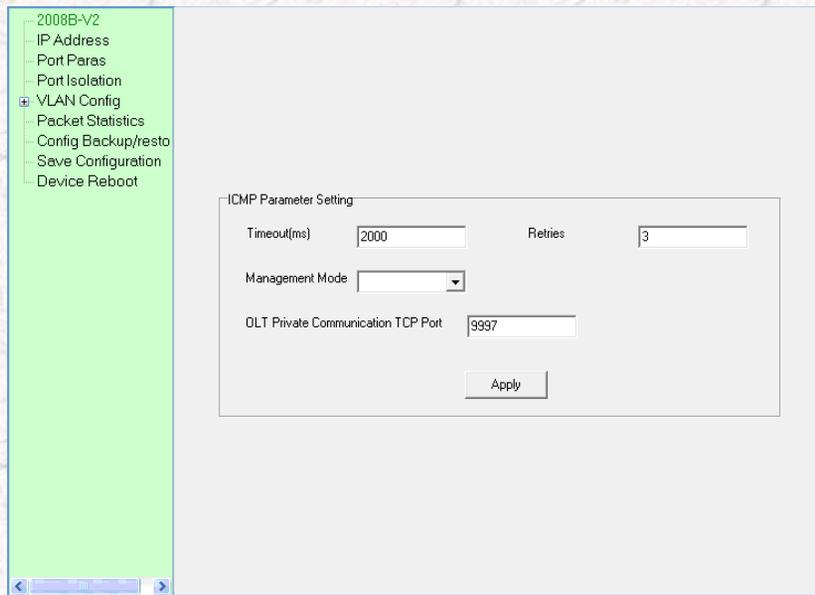


Figure44-1 S2000B Main interface configuration

**Timeout:** set the timeout;

**The number of retries retry:** new connection timeout;

**Management mode:** IP, MAC, OLT three models;

**OLT private communication:** communication port, TCP port;

## 44.2S2000 IP Address Configuration

The IP address configuration as shown as:

2008B-V2

- IP Address
- Port Paras
- Port Isolation
- + VLAN Config
- Packet Statistics
- Config Backup/resto
- Save Configuration
- Device Reboot

IP Address: 192.168.12.10

NetMask: 255.255.255.0

Gateway: 192.168.1.1

Config Refresh Help

Figure44-2IP address interface configuration

Click the '**Configuration**' button, the system began to configure the equipment, after configuration system will given the

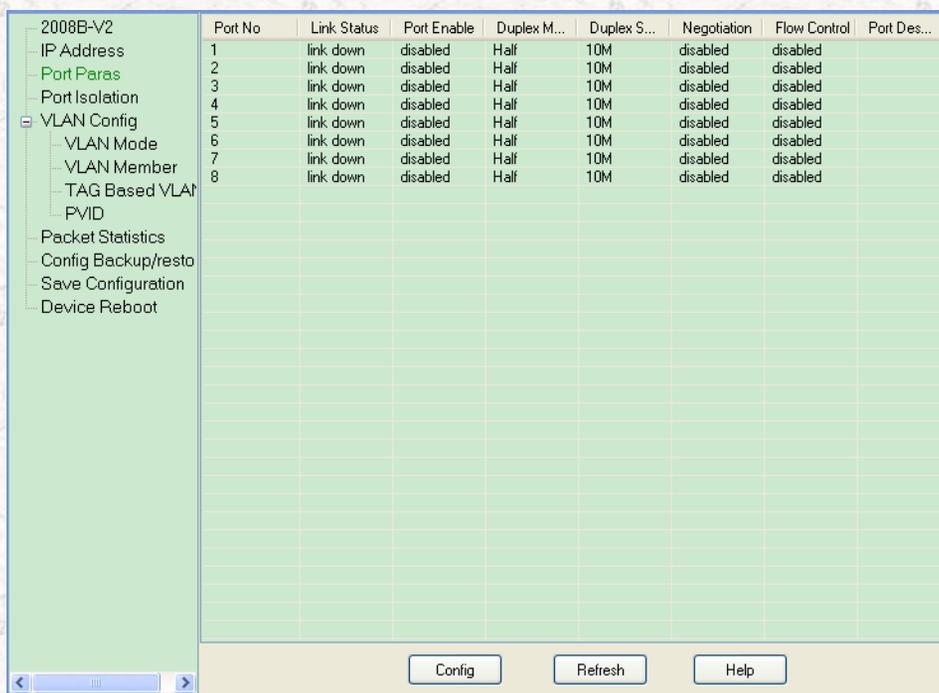
configuration result.

Click the '**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the '**Help**' button, the system will given a hand online.

## 44.3S2000 Port Paras

Configuration interface as shown:



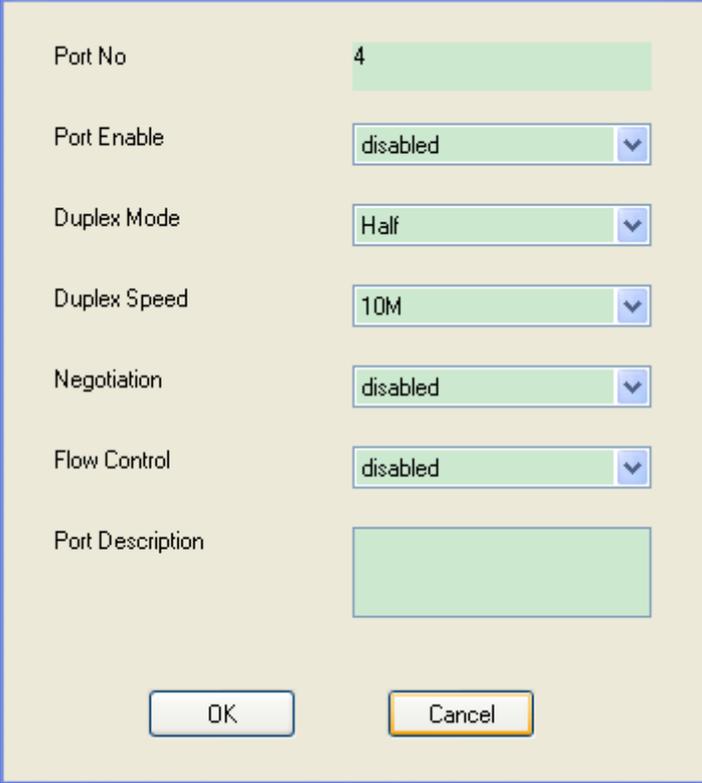
The screenshot shows a web-based configuration interface for a 2008B-V2 device. On the left is a navigation tree with the following items: 2008B-V2, IP Address, Port Paras (highlighted in green), Port Isolation, VLAN Config (expanded), VLAN Mode, VLAN Member, TAG Based VLAN, PVID, Packet Statistics, Config Backup/resto, Save Configuration, and Device Reboot. The main area displays a table with 8 columns: Port No, Link Status, Port Enable, Duplex M..., Duplex S..., Negotiation, Flow Control, and Port Des... The table contains 8 rows of data, all with 'link down' status and 'disabled' port enable. At the bottom of the interface are three buttons: 'Config', 'Refresh', and 'Help'.

Port No	Link Status	Port Enable	Duplex M...	Duplex S...	Negotiation	Flow Control	Port Des...
1	link down	disabled	Half	10M	disabled	disabled	
2	link down	disabled	Half	10M	disabled	disabled	
3	link down	disabled	Half	10M	disabled	disabled	
4	link down	disabled	Half	10M	disabled	disabled	
5	link down	disabled	Half	10M	disabled	disabled	
6	link down	disabled	Half	10M	disabled	disabled	
7	link down	disabled	Half	10M	disabled	disabled	
8	link down	disabled	Half	10M	disabled	disabled	

Figure44-3Port Paras interface

Select a line, click on the "**config**" button, the interface appears

as shown below:



Port No	4
Port Enable	disabled
Duplex Mode	Half
Duplex Speed	10M
Negotiation	disabled
Flow Control	disabled
Port Description	

OK Cancel

Figure44-4Configuration interface

Click the 'OK' button, the system began to configure the equipment, at the end it will given the configuration results after the end result.

Click the '**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the **Help** button, the system will given a hand online.

## 44.4S2000 Port Isolation

Port Isolation configuration as shown:

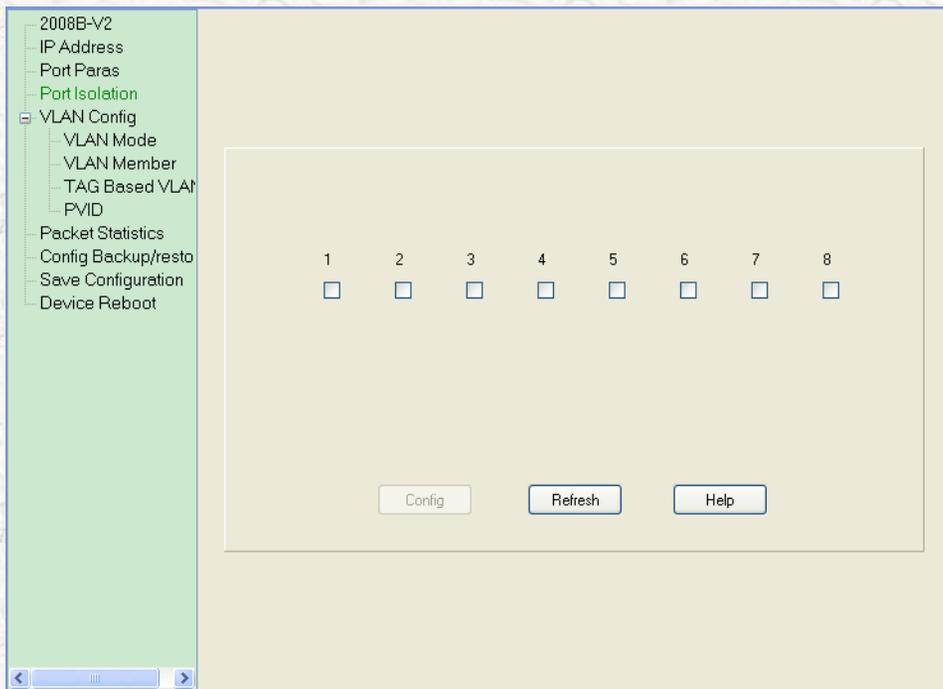


Figure44-5Port isolation configuration interfacre

Click the **config** button, the system began to configure the equipment, at the end it will given the configuration results after the end result.

Click the **Refresh** button, The system will restart from the

equipment to obtain the latest data.

Click the **Help** button, the system will given a hand online.

## 44.5S2000 VLAN Config

### 44.5.1 S2000 VLAN Mode

VLAN mode configuration as shown:

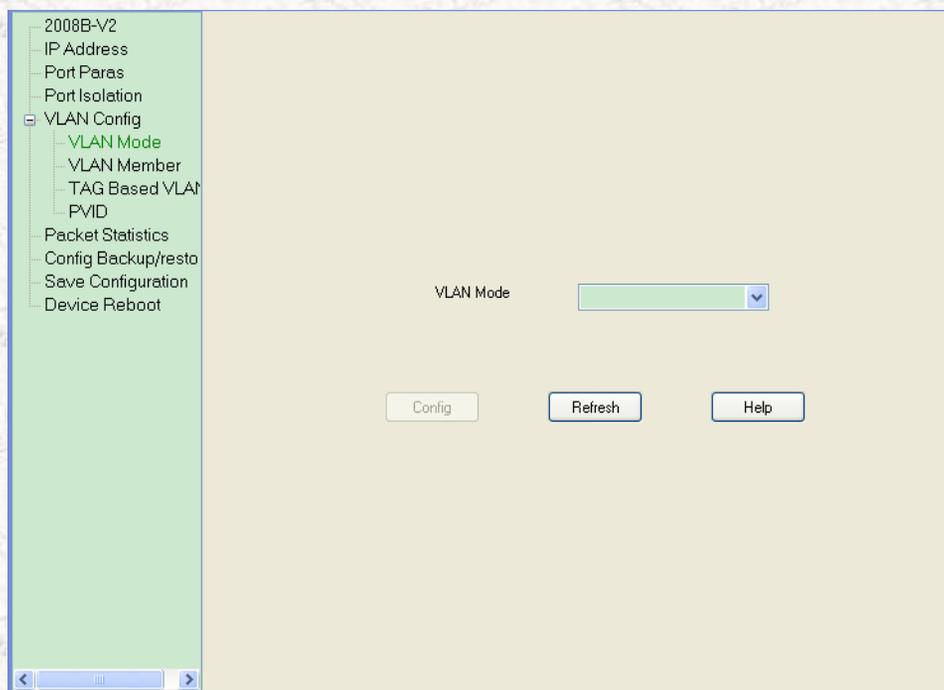


Figure44-6VLAN mode interface

Click the **'config'** button, the system began to configure the

equipment, at the end it will given the configuration results after the end result.

Click the'**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the'**Help**' button, the system will given a hand online.

## 44.5.2 S2000 VLAN Member

VLAN member configuration as shown:

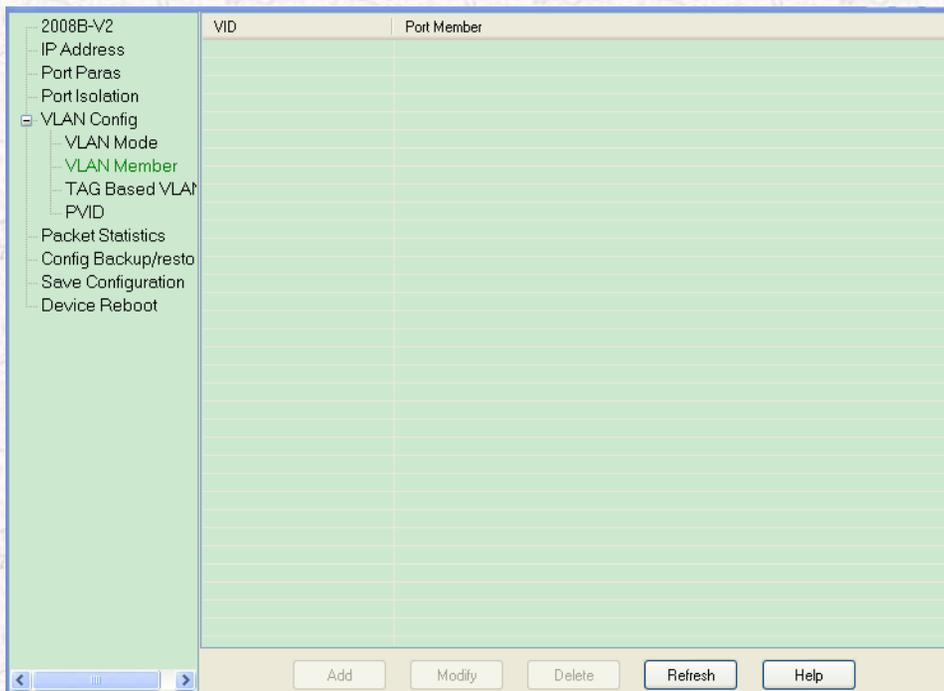


Figure44-7VLAN member configuration interface



## 44.5.4 S2000 PVID

PVID configuration as shown:

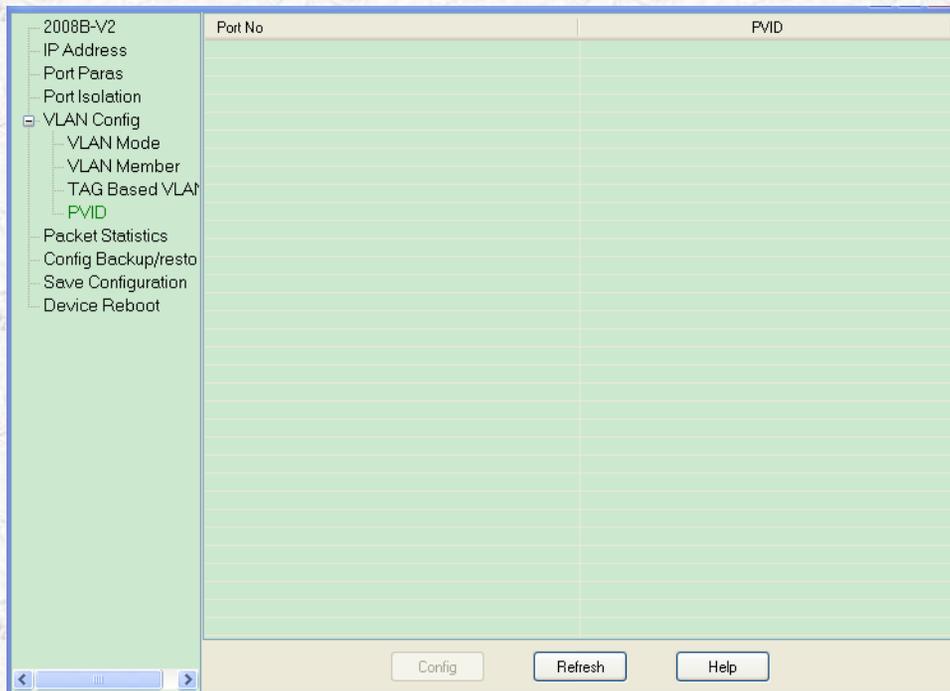


Figure44-8VLAN configuration interface

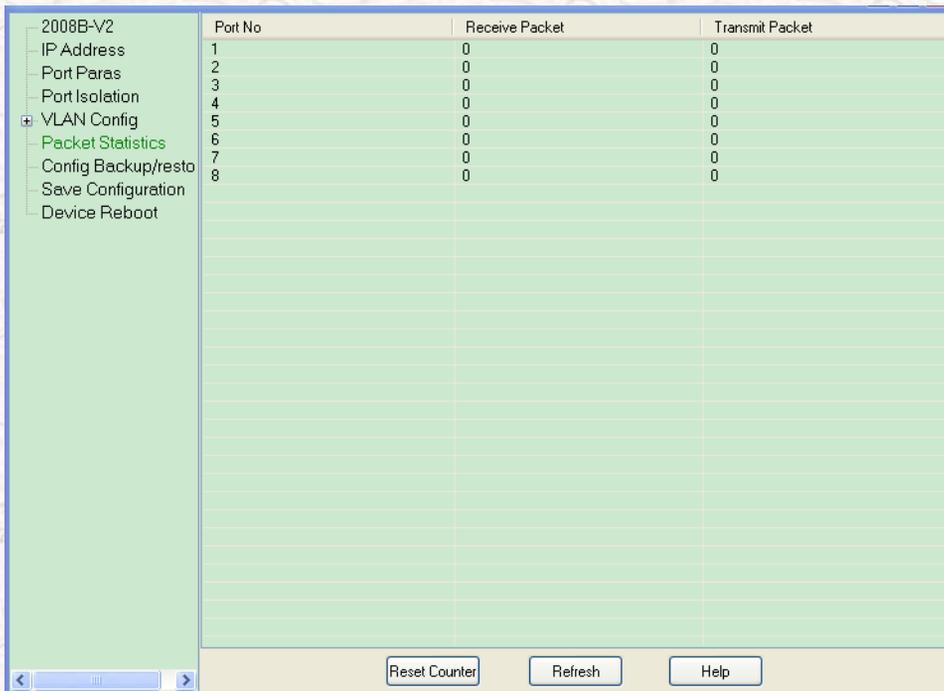
Click the '**config**' button, the system began to configure the equipment, at the end it will given the configuration results after the end result.

Click the'**Refresh**' button, The system will restart from the equipment to obtain the latest data.

Click the **Help** button, the system will given a hand online.

## 44.6S2000 Packet Statistics

Configuration interface as shown:



Port No	Receive Packet	Transmit Packet
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	0	0
8	0	0

Figure44-9Packet statics configuration interface

Click the **Reset Counter** button, The statistical results are clear.

Click the **Refresh** button, The system will restart from the equipment to obtain the latest data.

Click the **Help** button, the system will given a hand online.

## 44.7S2000 Configure Backup/Restore

Configure backup / restore the configuration as shown:

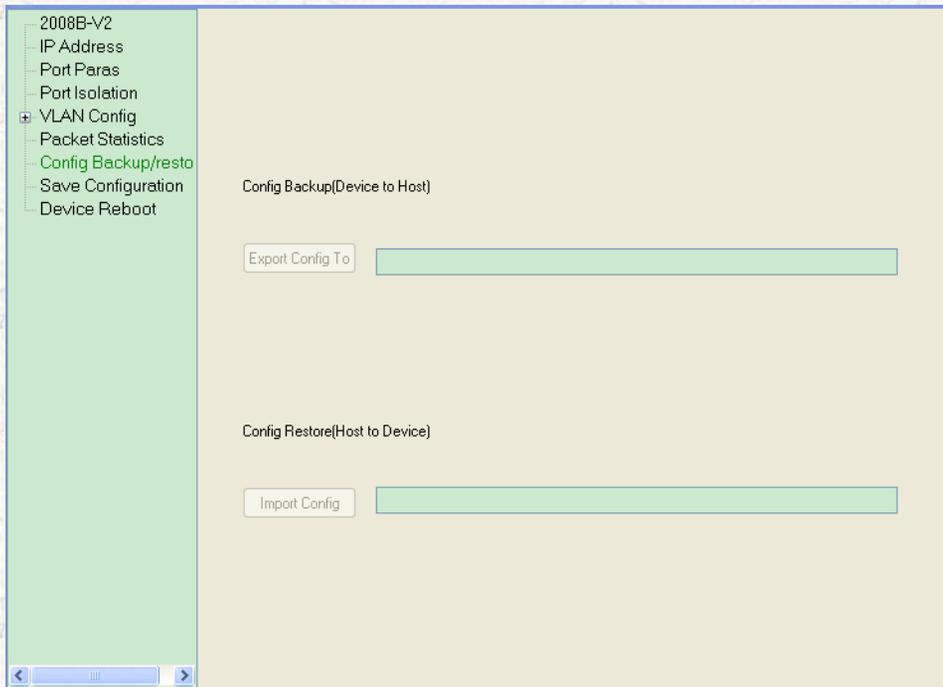


Figure44- 10S2000B Configure backup / restore interface

Click '**Export Config To**' button, the pop-up the backup file in the specified location.

Click the '**Import Config**' button, will find the configuration file and import to the device.

## 44.8S2000 Save Configuration

Configuration interface as shown:

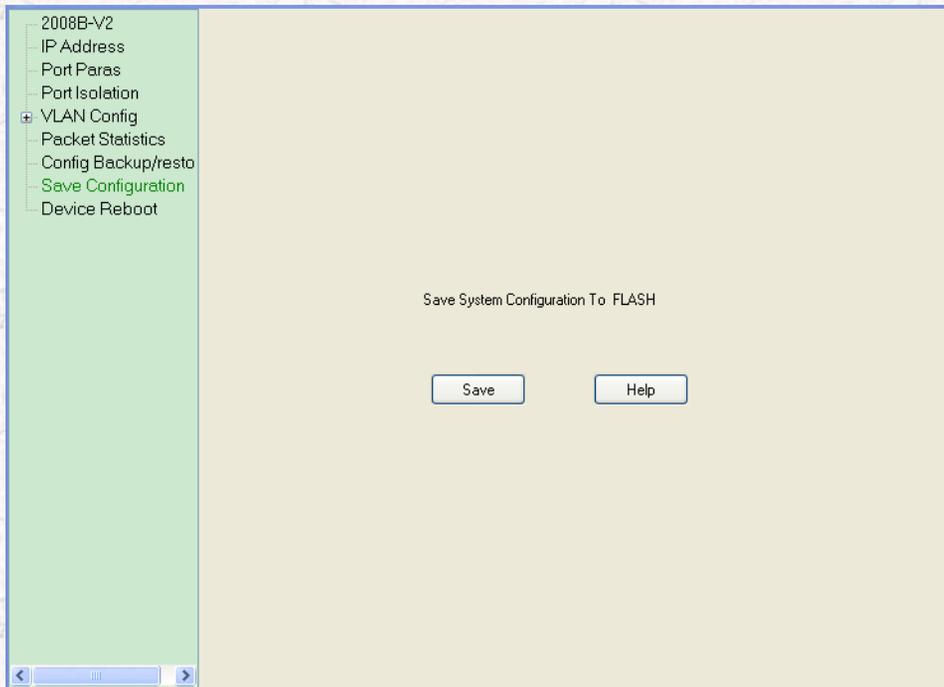


Figure44-11 Save interface configuration

Click '**Save**' button, The system begin to confiure the equipment and give the result after configuration.

Click the '**Help**' button, the system will appear online help.

## 44.9S2000 Restart

Configuration interface as shown:

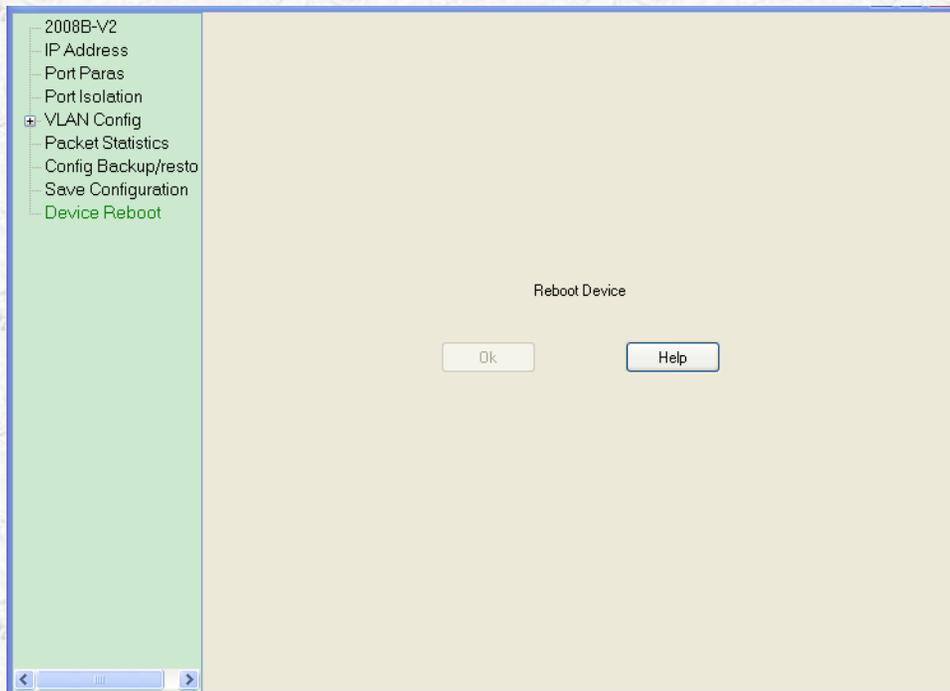


Figure44-12Restart interface configuration

Click '**OK**' button,The system begin to confiure the equipment and give the result after configuration.

Click the '**Help**' button, the system will appear online help.