Netis VIEW Integrated Network Management System

Configuration Management Manual

Statement

As the product version upgrades or other reasons, this manual will be updated from time to time. Netis rights without any notice or prompting the contents of this manual is to modify reservations. This manual only as a guide, Netis make every effort to provide accurate information in this manual, but the manual does not ensure no mistake, all statements in this manual, information and advice and does not constitute any express or implied warranty.

Preface

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

Term	Meaning
Netis View	Netis VIEW Integrated Network Management System
Mysql	NGBNView use Mysql database

Symbol Conventions

Icon	Tip Type	Tip matters
	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

Directory

1 Introduction of Configuration Management

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

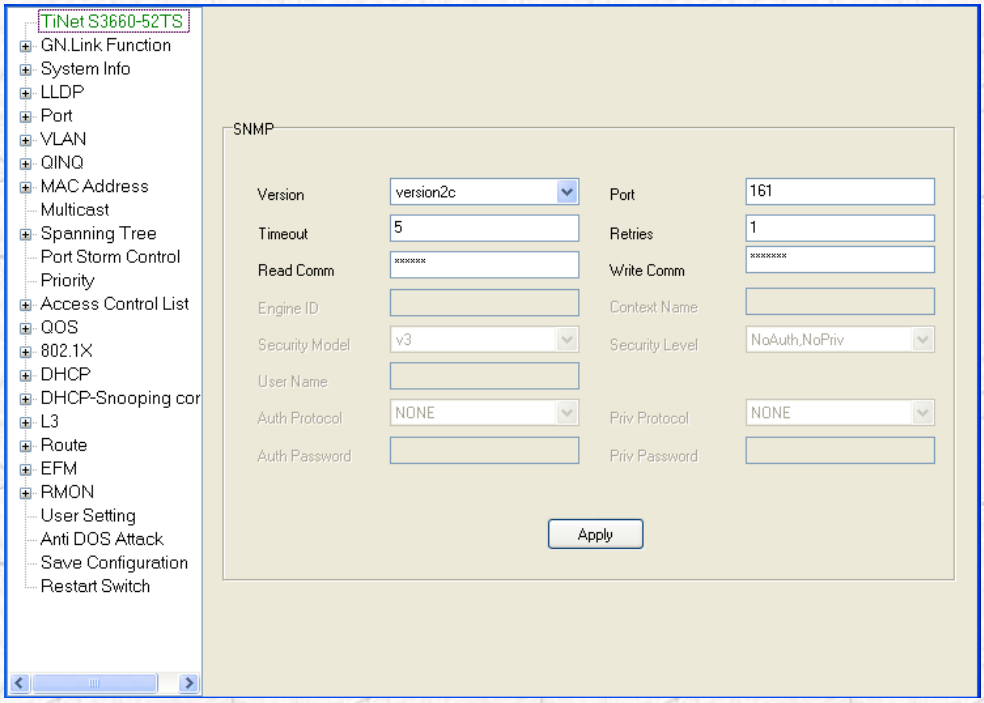


Figure1-1Configuration management interface

Notess:

1. Before the setting of configuration management, it must revise the community value, this value must bê 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 :

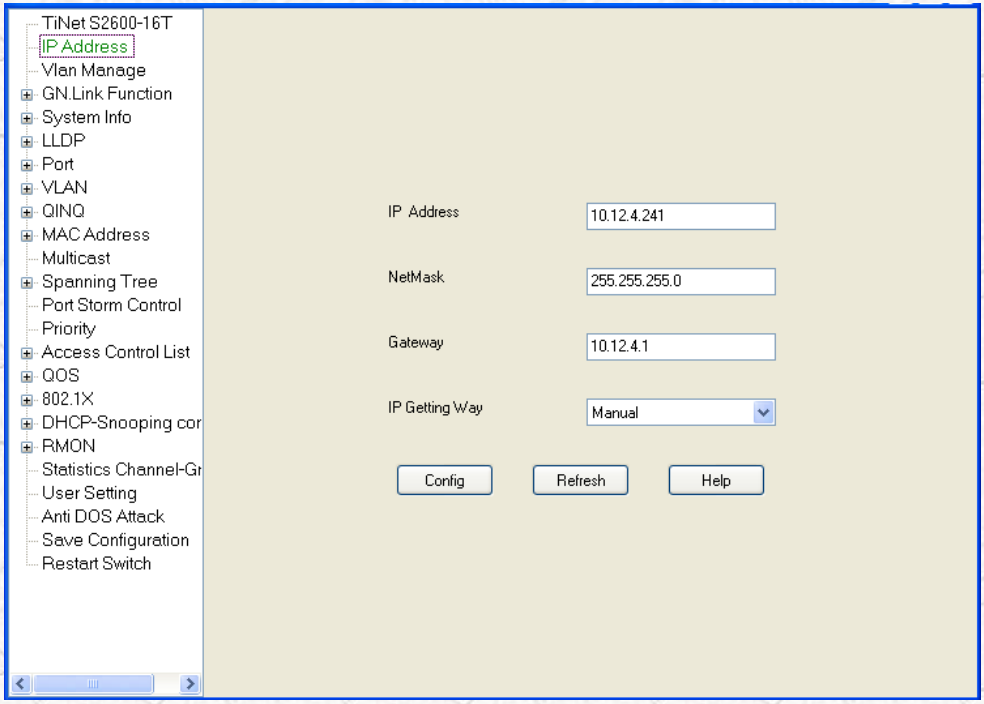


Figure2-1IP address configuration interface

Notess:

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 :

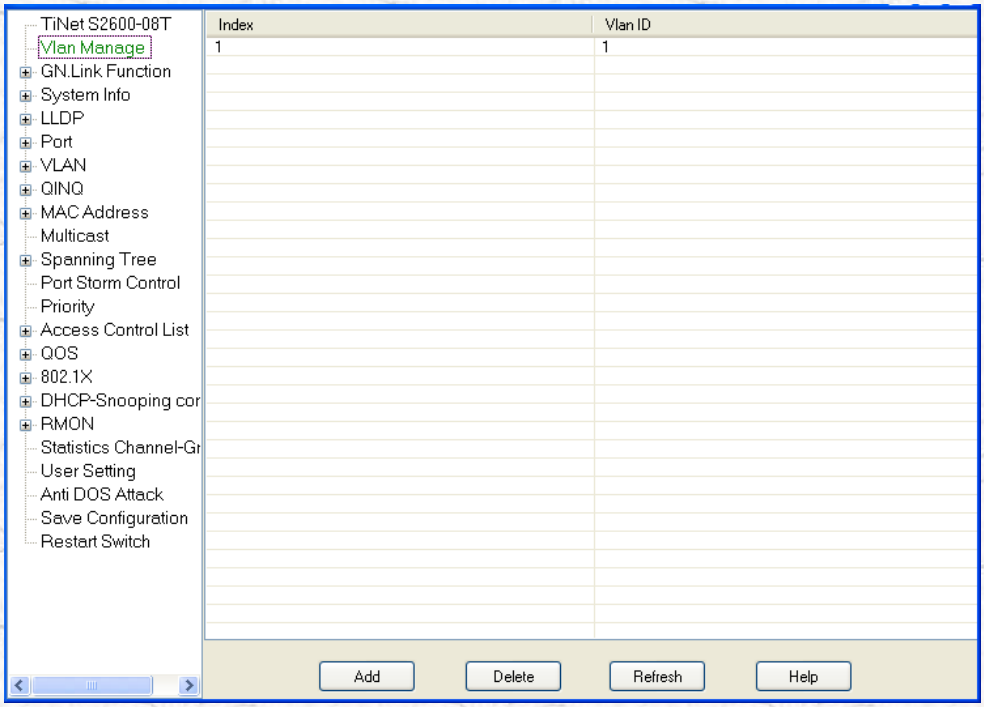


Figure3-1Management VLAN interface

Click"**add**"button,it shows a parameter configuration interface :

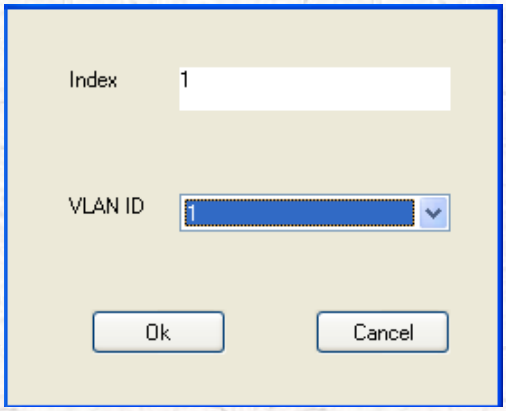


Figure3-2Parameter configuration interface

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

4.1Service-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!

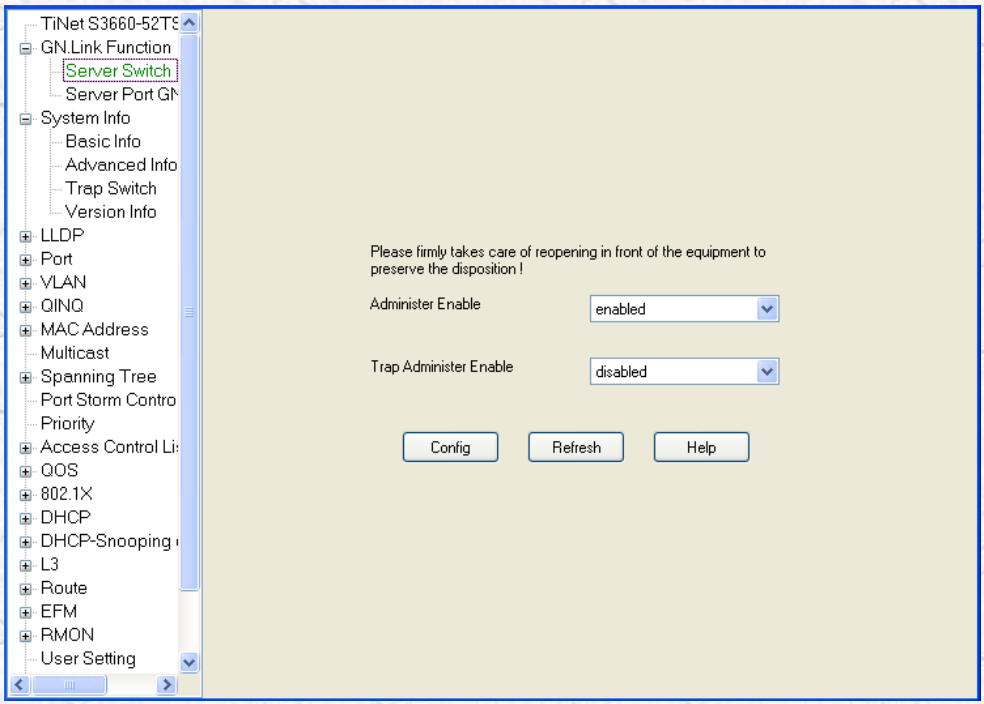


Figure4-1service-side switch configuration interface

Choose “enable”in the “administrator enable”.

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

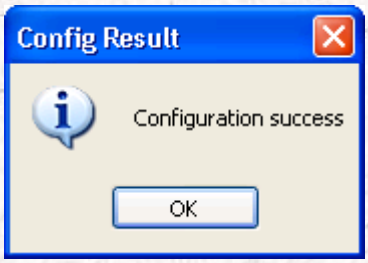


Figure4-2Configuration success prompt

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.

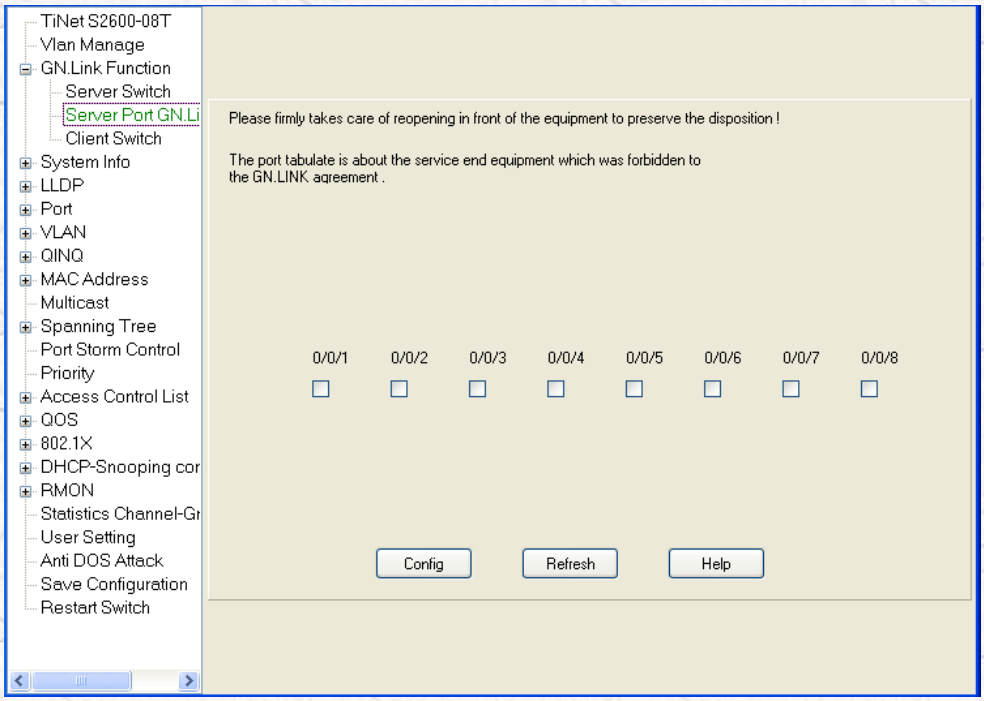


Figure4-3Port GN.Link enable configuration interface

In this lab ,choose forbidden port of GN.Link protocol. After forbiding 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 :

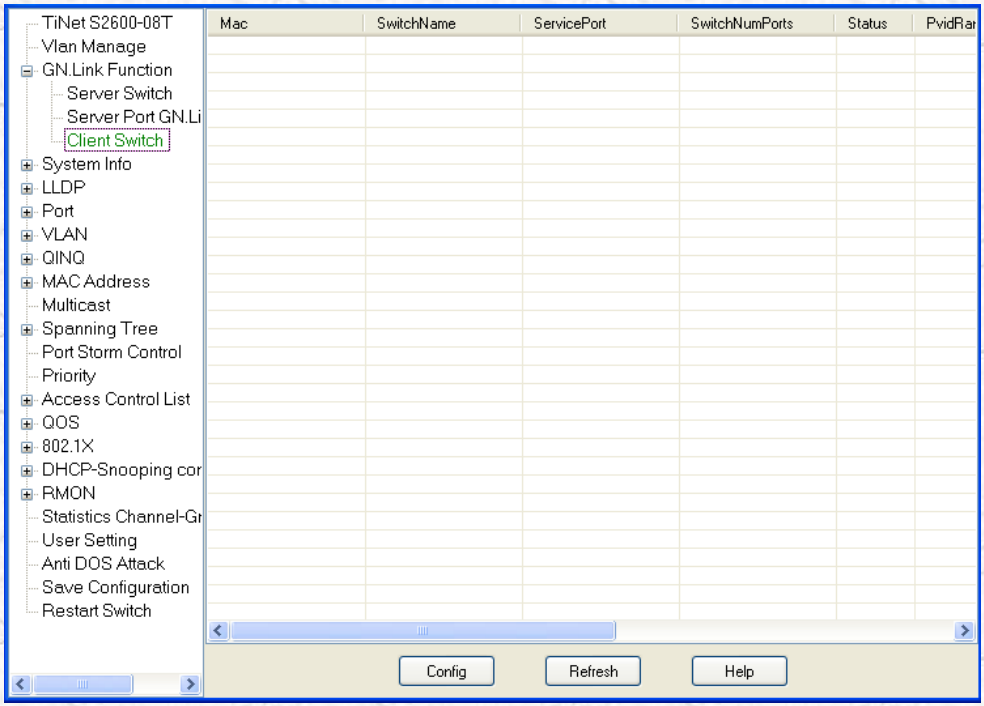


Figure4-4Customer-side switch configuration configuration

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.

5 System Information

5.1Basic 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:

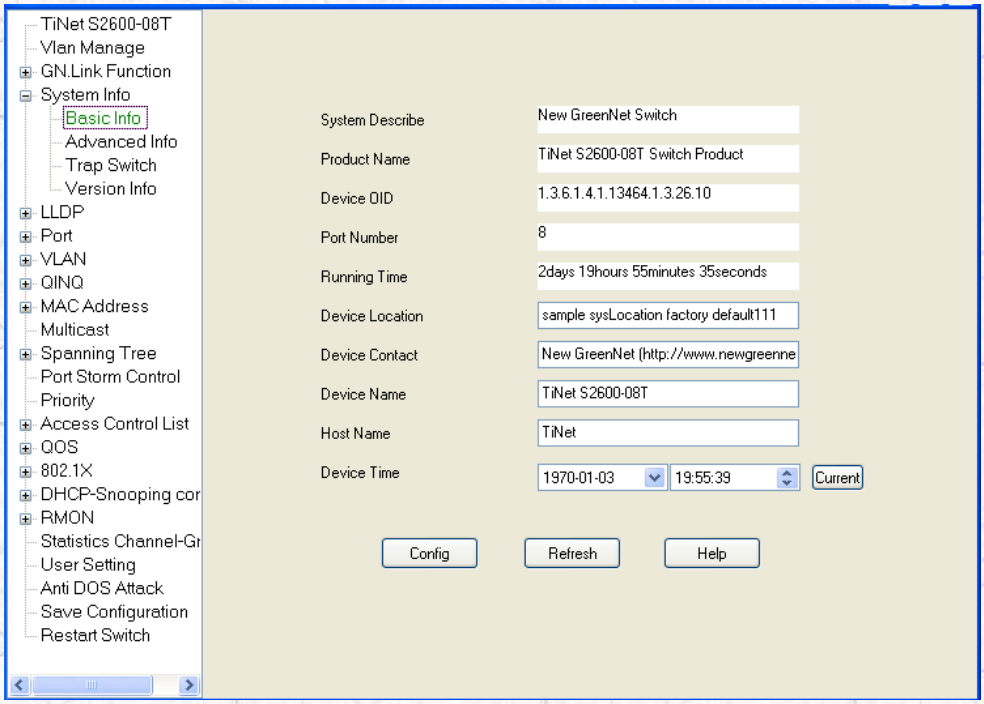


Figure5-1Basic information interface

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.

5.2Advance information

All configuration items can write , show as below :

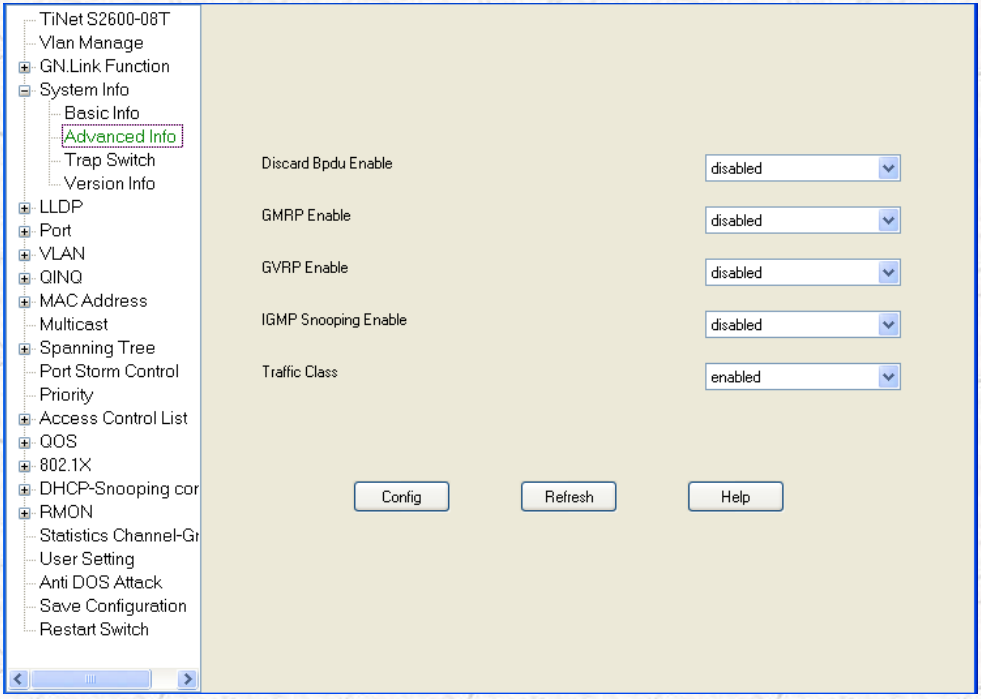


Figure5-2Advanced information interface

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 anlaysis 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 rang is from 0 to 200000;

Notess:

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

5.3Trap

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 :

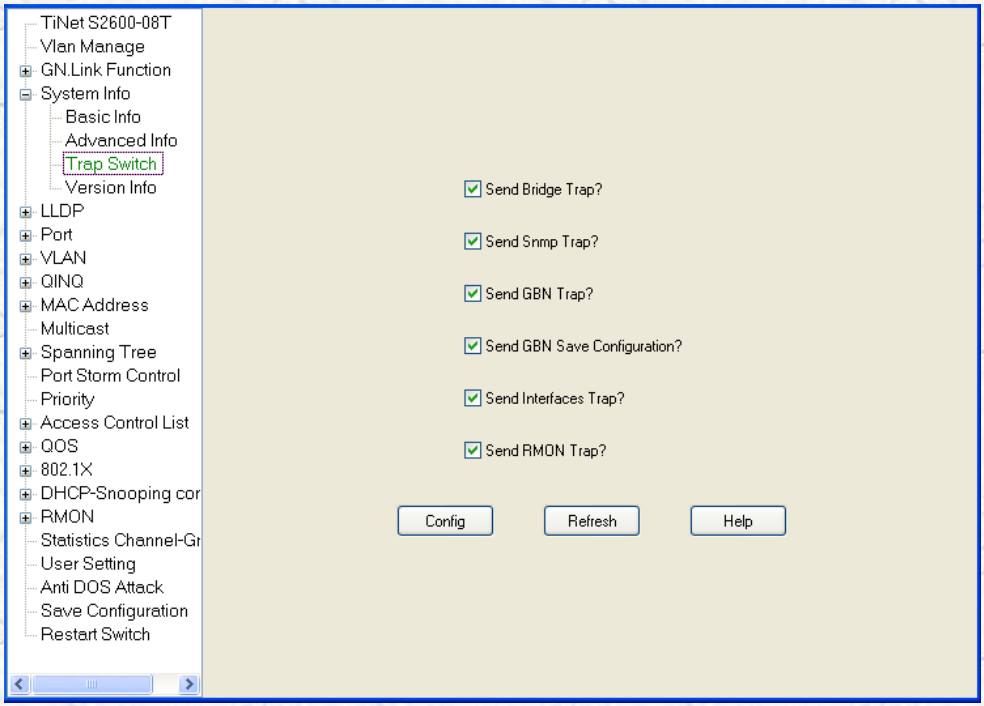


Figure5-3Trap

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

5.4Version information

This interface shows software version, hardware version and BootRom.

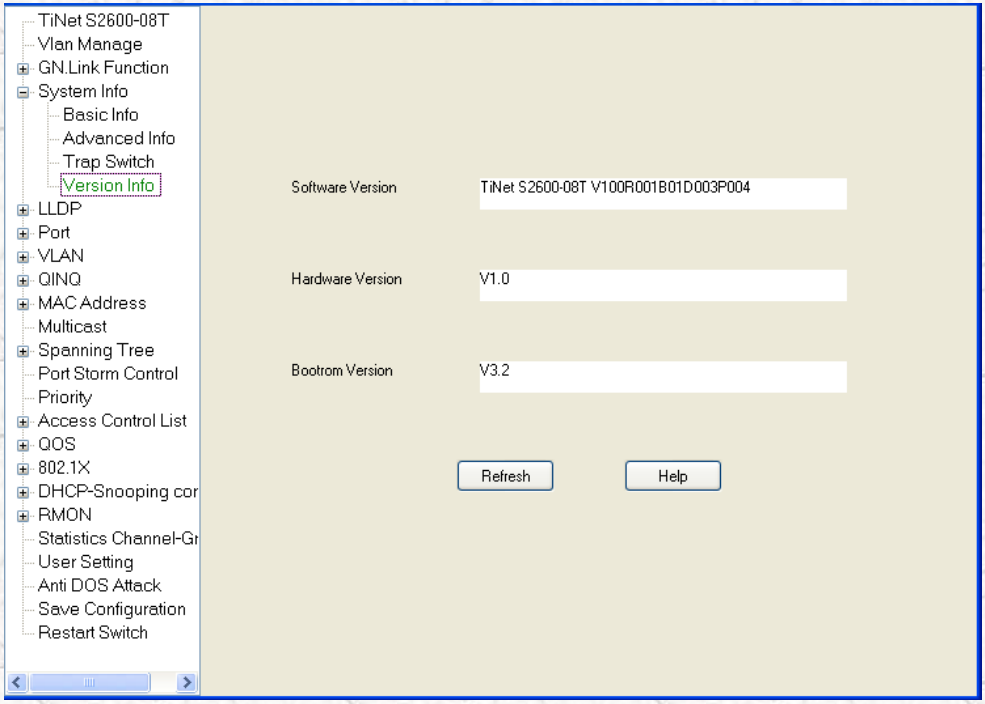


Figure5-4Version

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

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

Notess: if the verison is lower, so configuration management doesn’ t contain this interface.

6 LLDP Configuration

6.1LLDP in global configuration

Configuration interface as below:

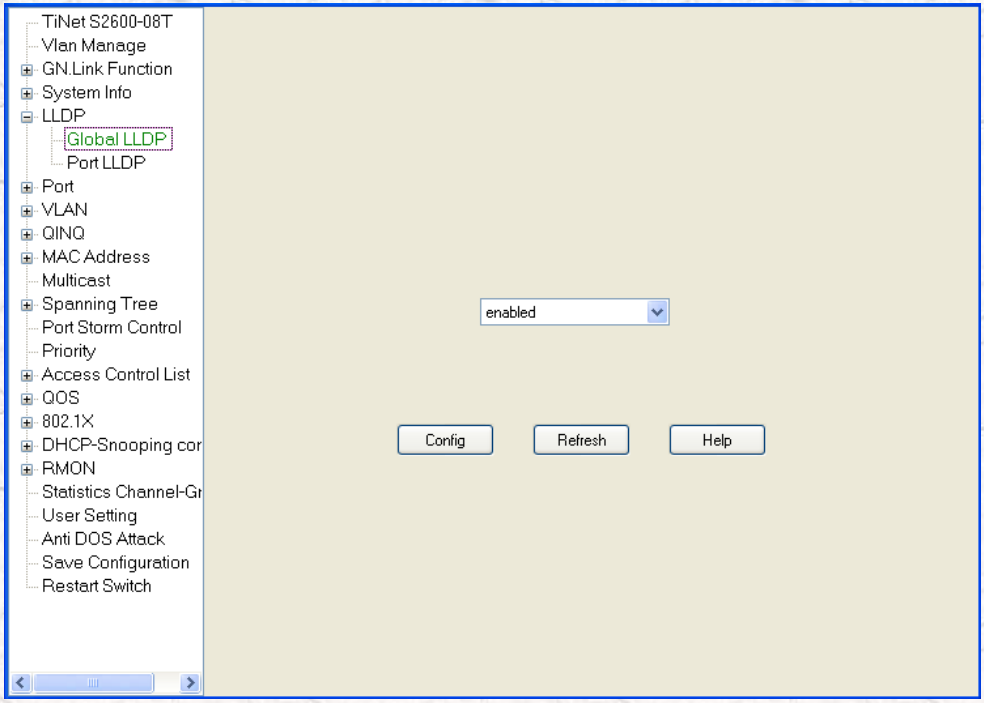


Figure6-1LLDP configuration

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.

6.2Port LLDP configuration

Configuration interface as below:

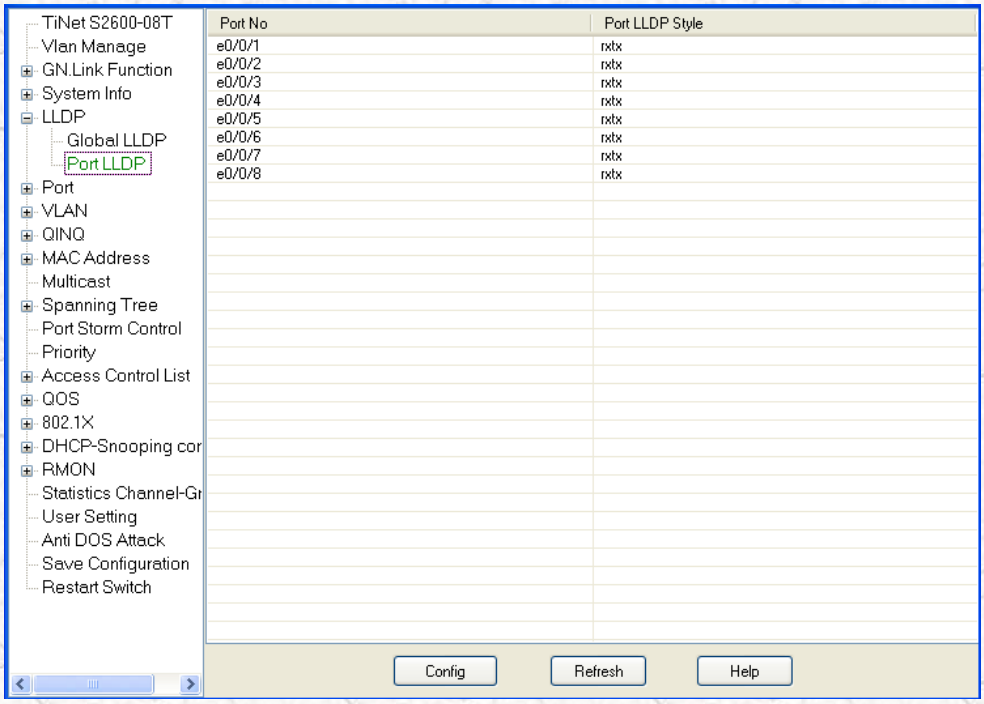


Figure6-2Port LLDP configuration

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

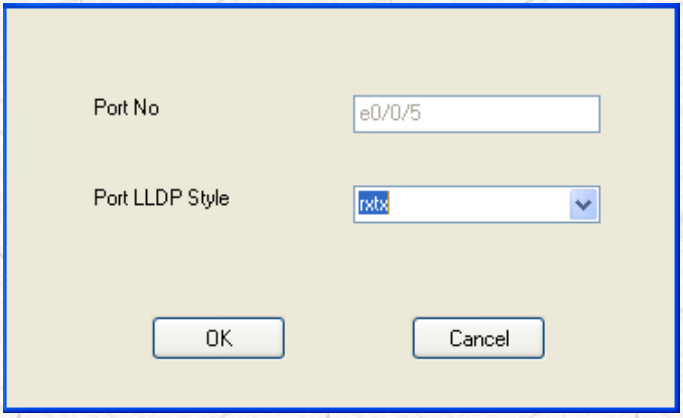


Figure6-3Parameter configuration

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

7.1Port name

Configuration interface as below:

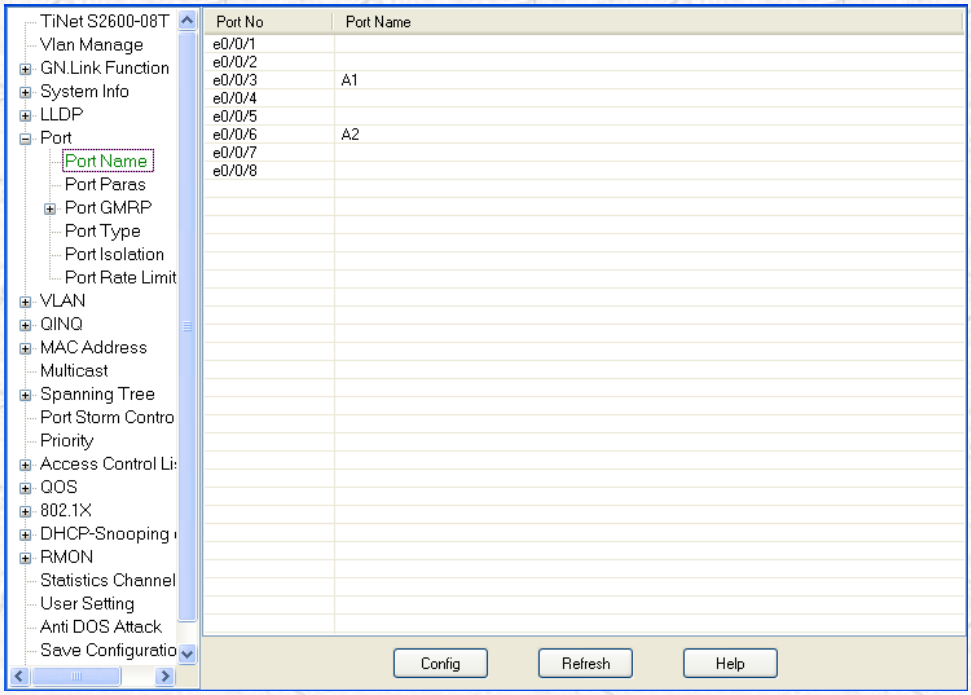


Figure7-1Port name configuration

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

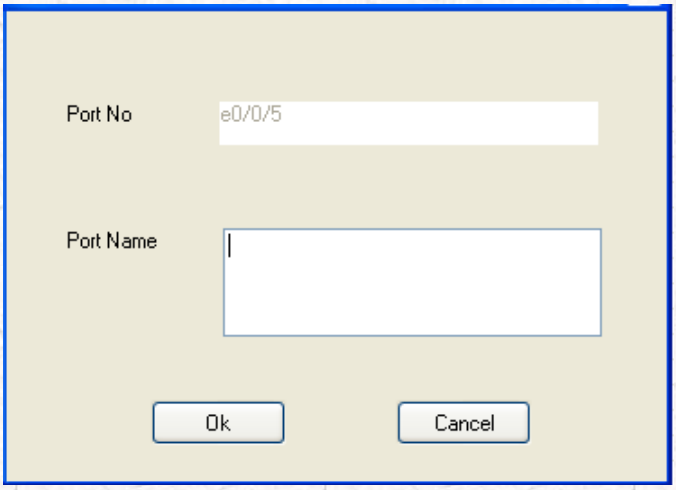


Figure7-2Parameter configuration

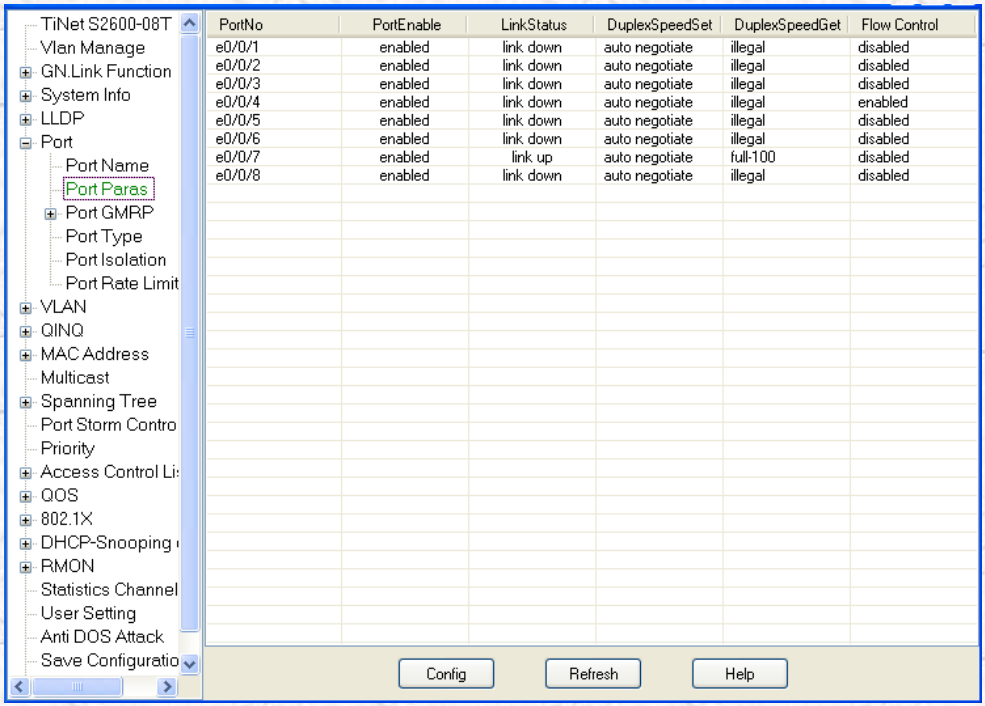
Click”**OK**”button,system begins to configure the device, the result will come out.

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:

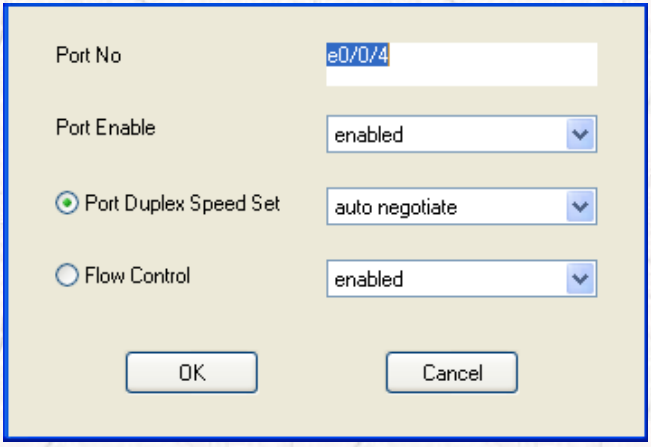


Figure7-4Parameter configuration

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.

7.3Port 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.

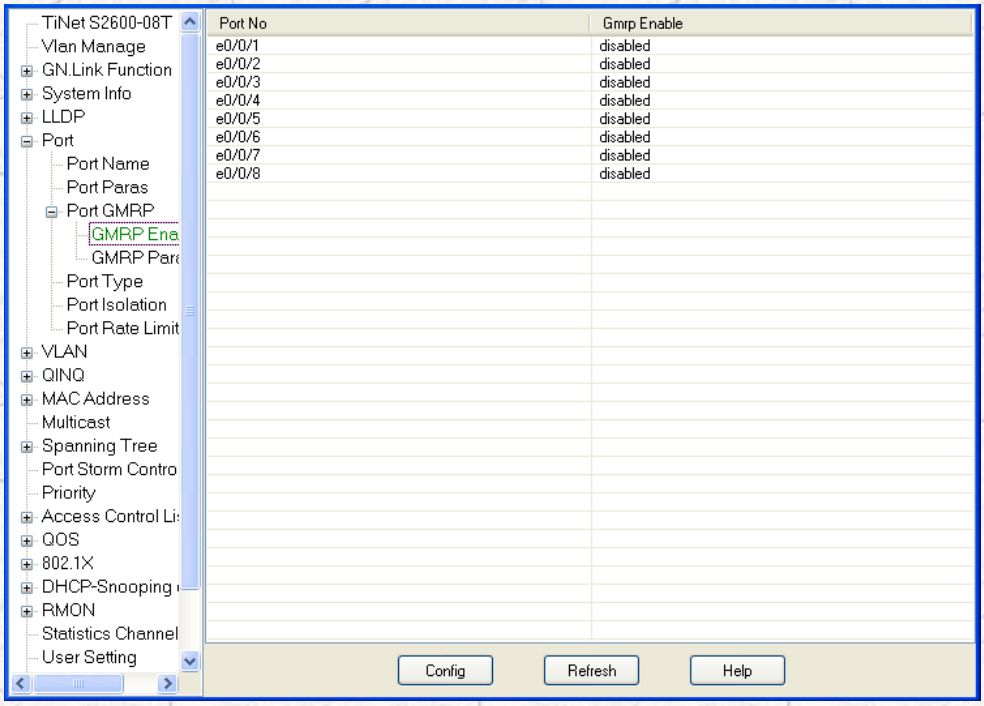


Figure7-5Port GMRP enable configuration

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 JoinTime,Leave Time and Leave All Time. Configuration interface as below :

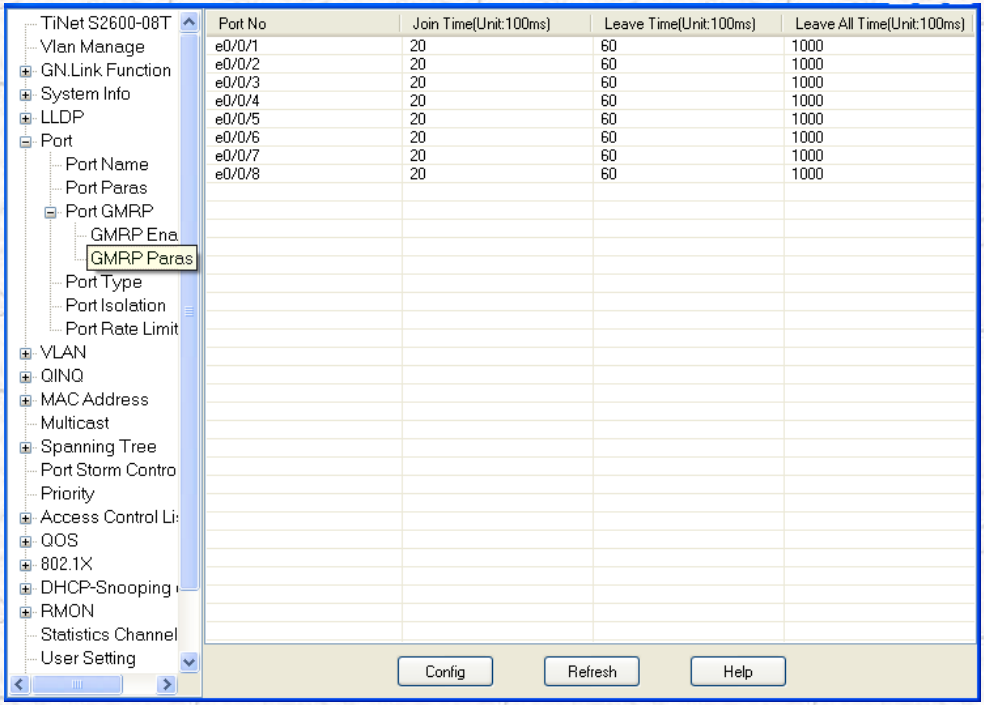


Figure7-6Port GMRP parameter configuration main interface

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:

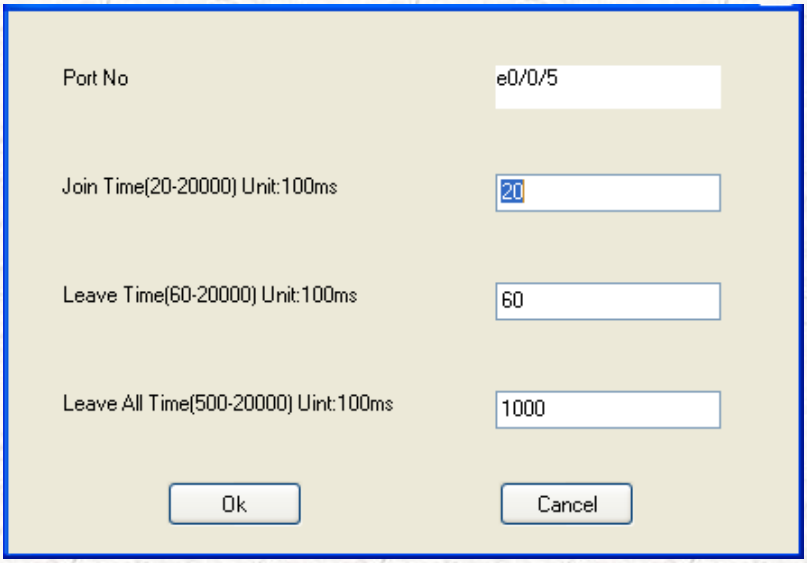


Figure7-7Parametr configuration interface

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

7.4Port 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:

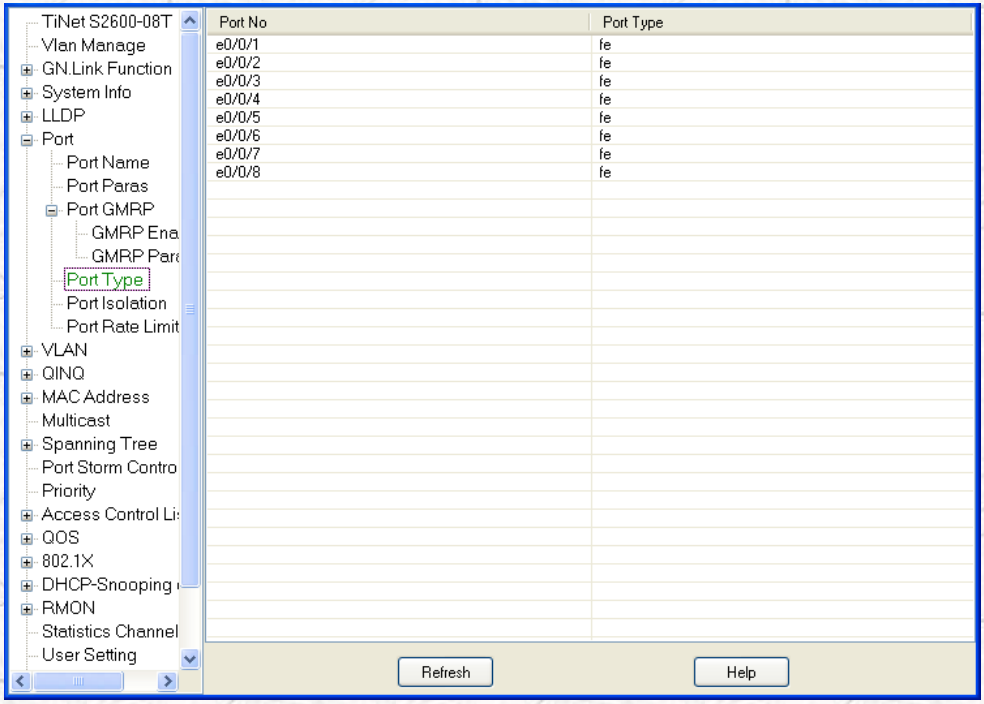


Figure7-8Port type configuration interface

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 :

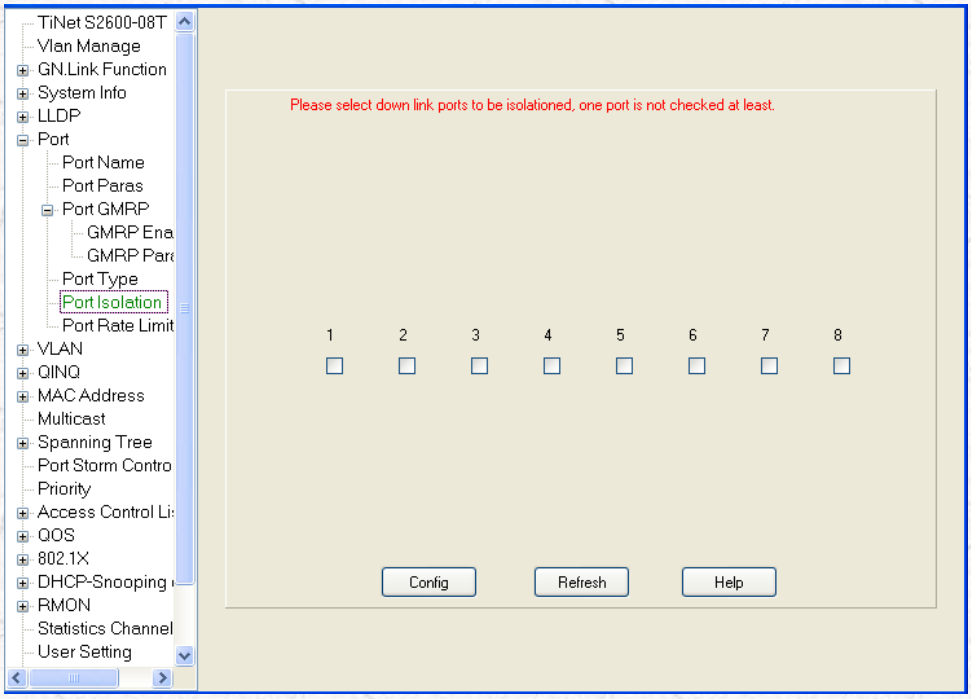


Figure7-9Port isolation

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:

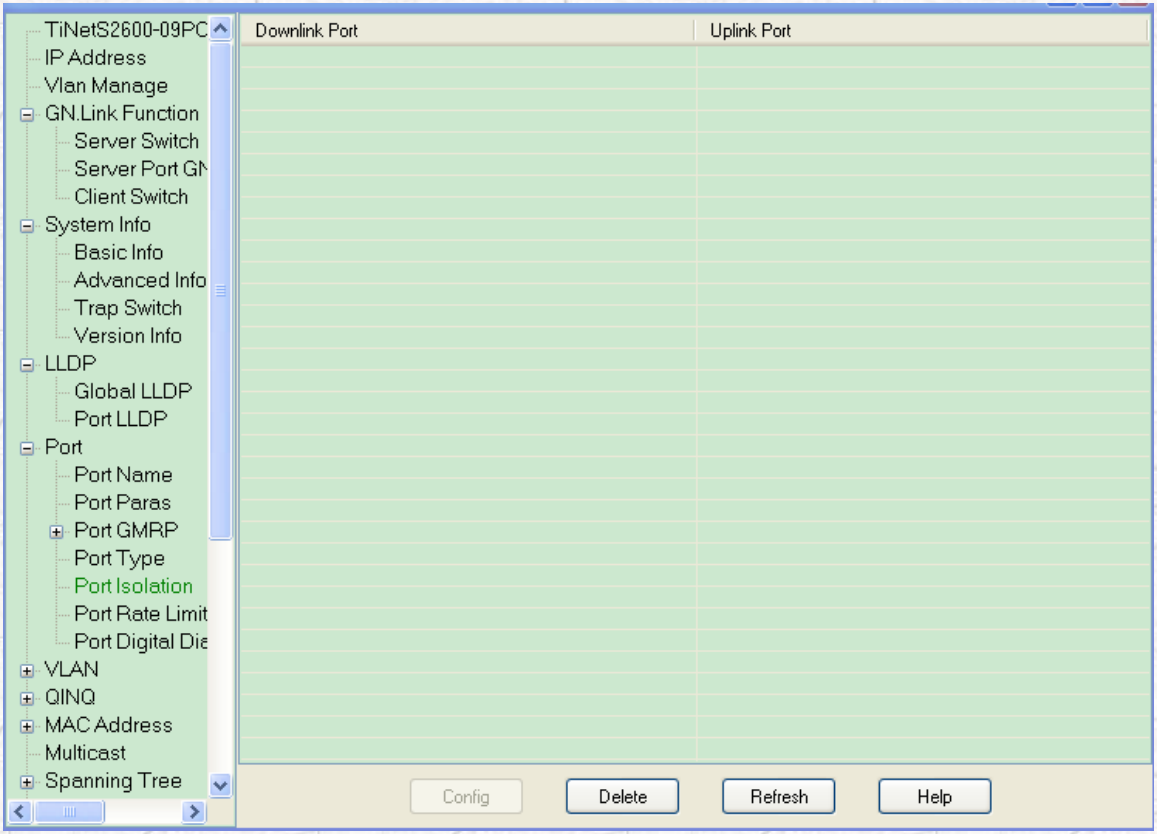


Figure7-10Port isolation（TiNetS2600）

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

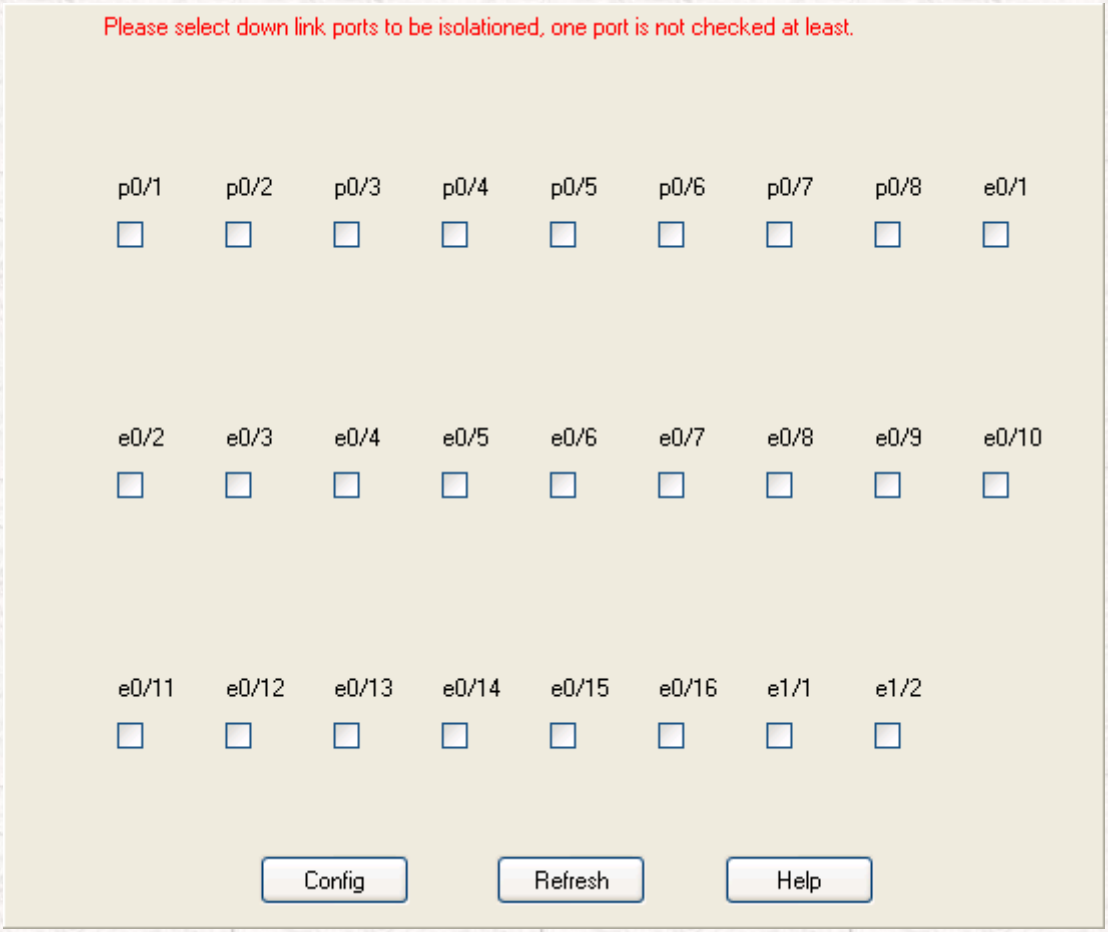


Figure7-11Port isolation（TiNetS2600）Configuration

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

7.7Port limitation

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

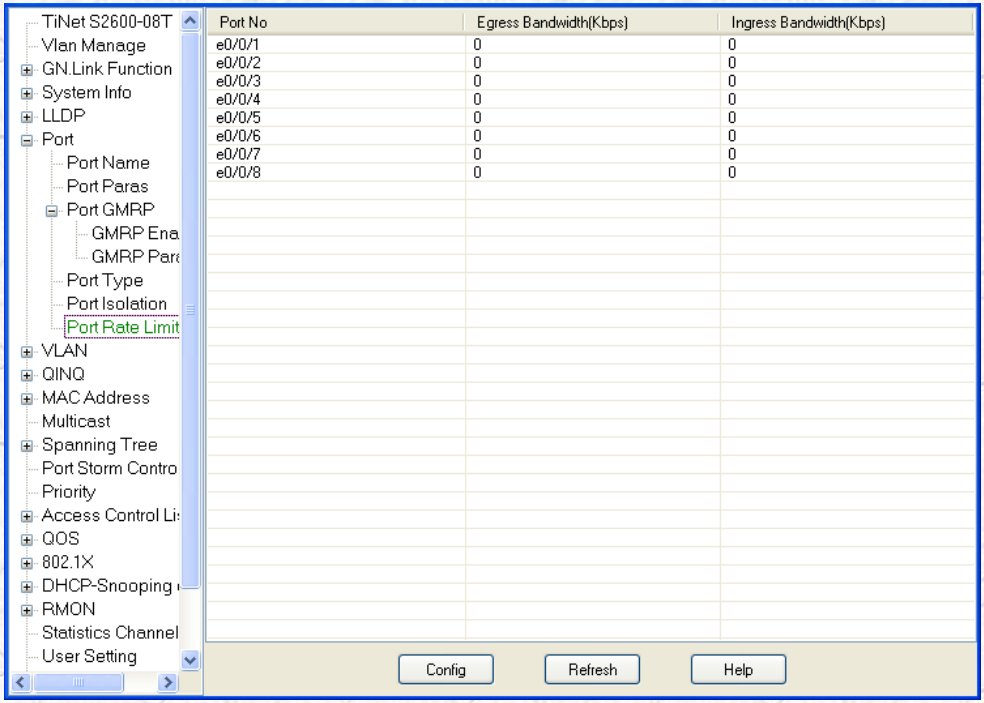


Figure7-12Port limitation configuration main interface

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

Receive packet rate: otal 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:

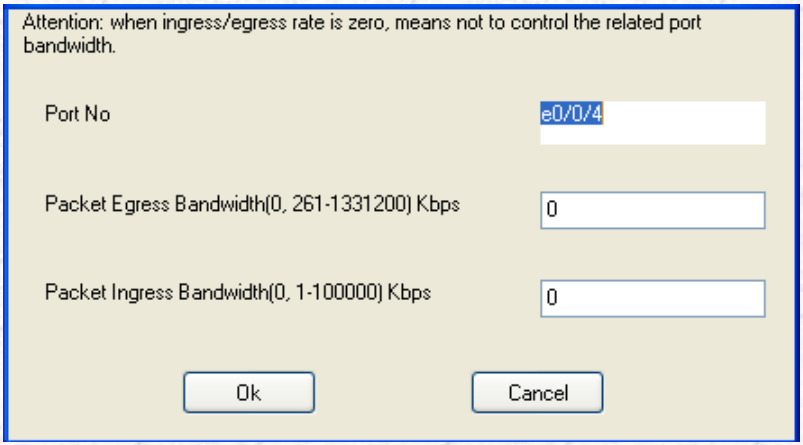


Figure7-13Port limitation parameter configuration interface

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.

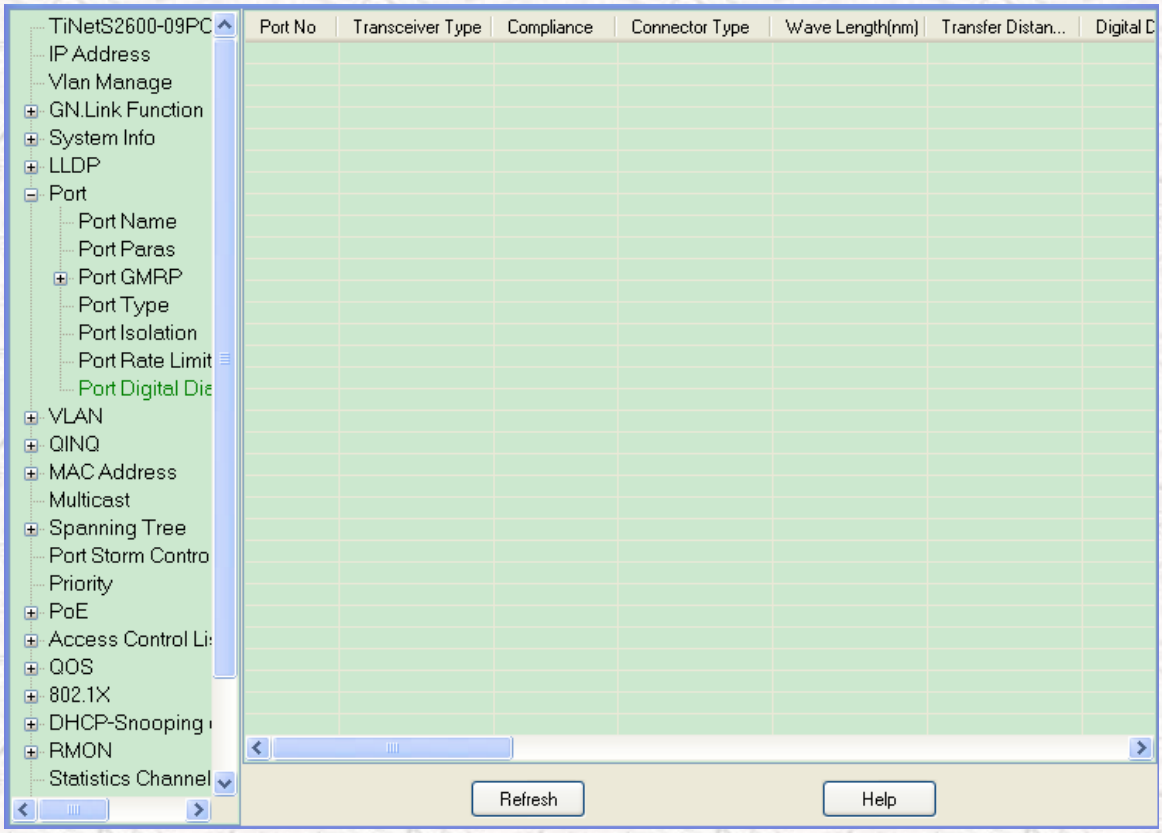


Figure7-14Port limitation parameter configuration interface

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

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

8 Port Mirror

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.

8.1Mirror port configuration

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

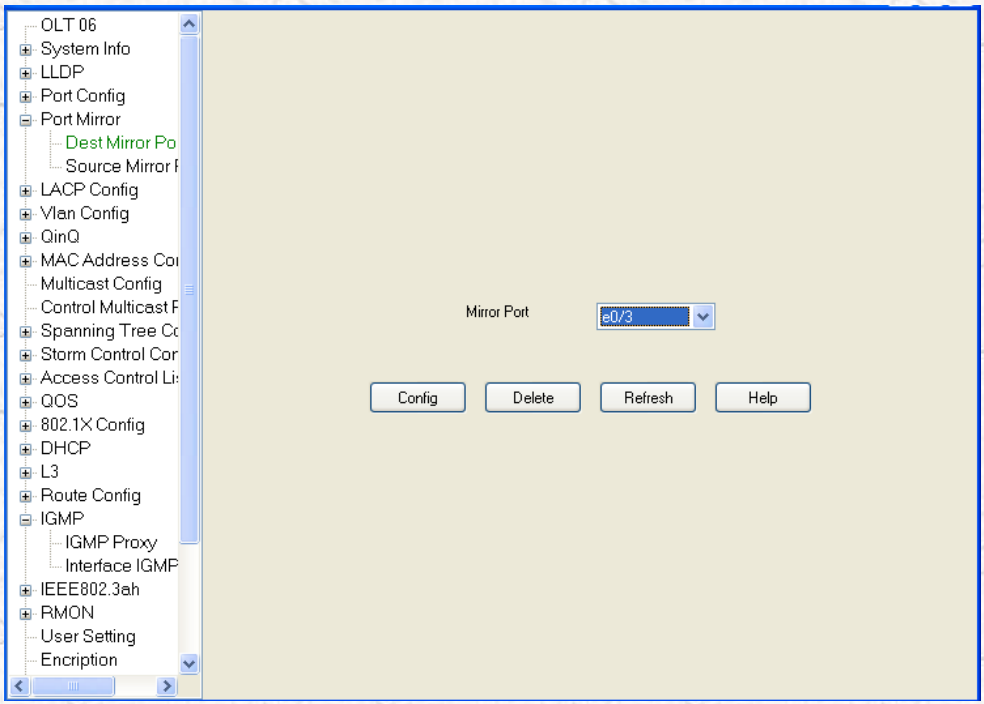


Figure8-1Mirror port configuration

Notess: 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

8.2Mirrored port configuration

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

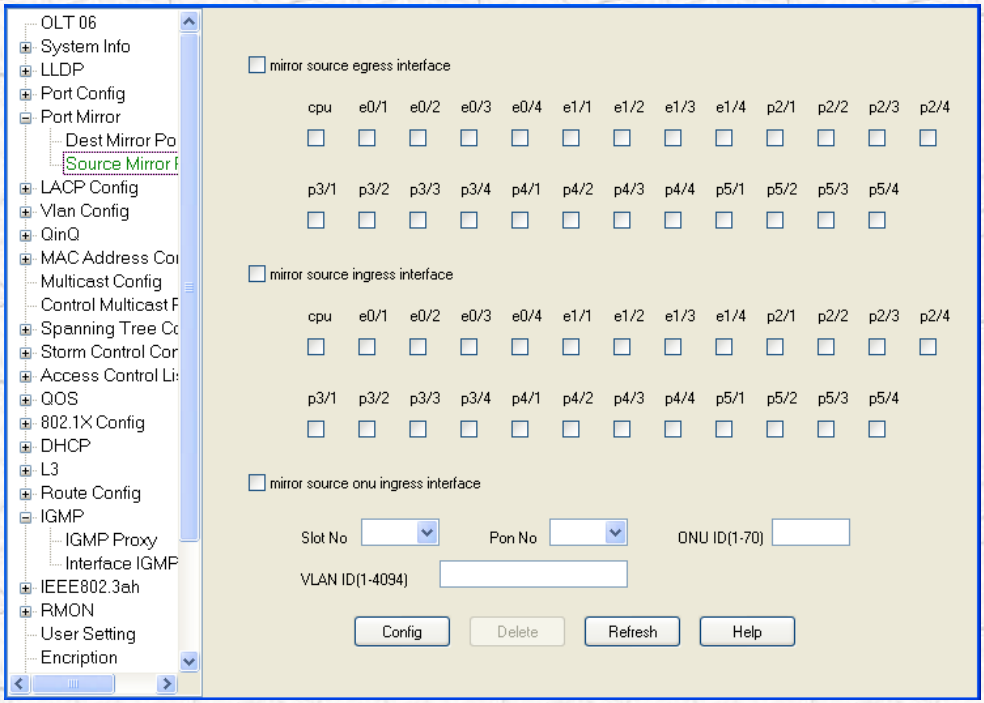


Figure8-2Mirrored port configuration

Notess: 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

9.1Static VLAN configuration

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

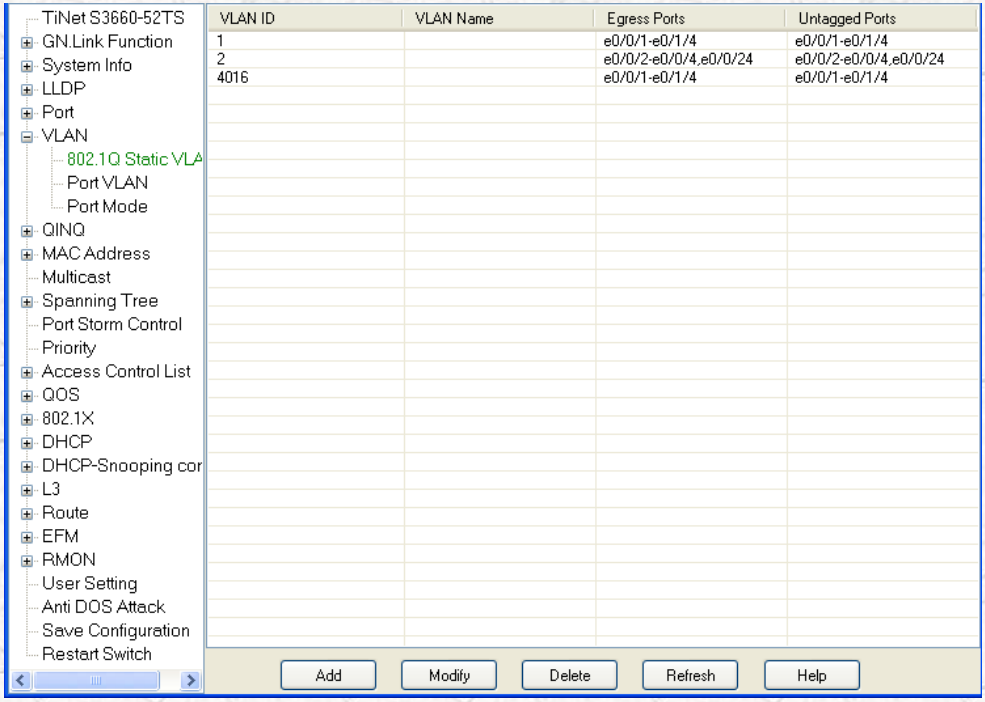


Figure9-1Static VLAN configuration main interface

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 Isome 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 permeit 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:

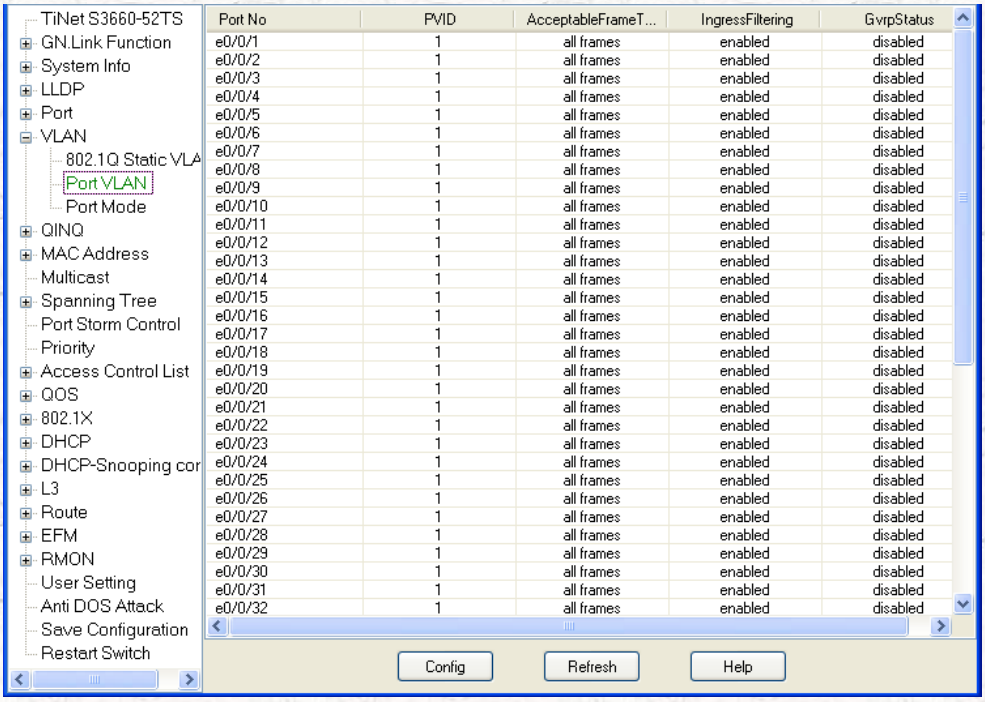


Figure9-2 Port VLAN configuration main interface

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:

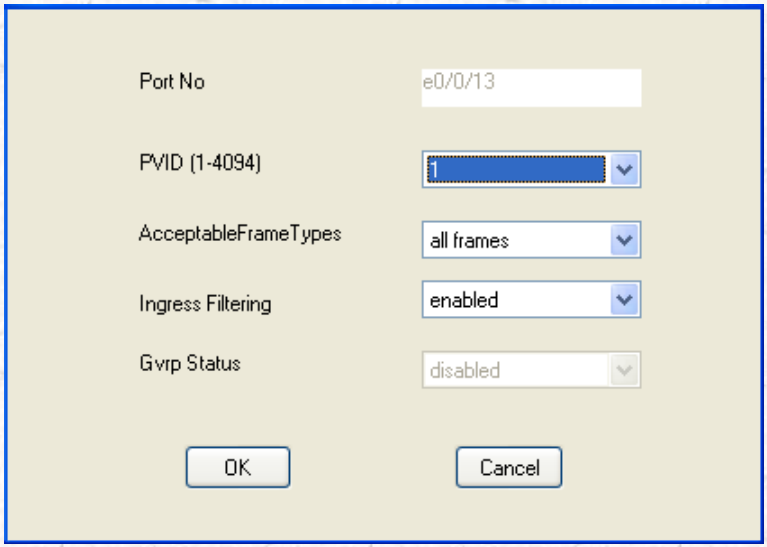


Figure9-3Parameter configuration interface

Notess:

1. The range of PVID is from 1 to 4094.

2. Configue 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

9.3Port 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. Configuation interface as below:

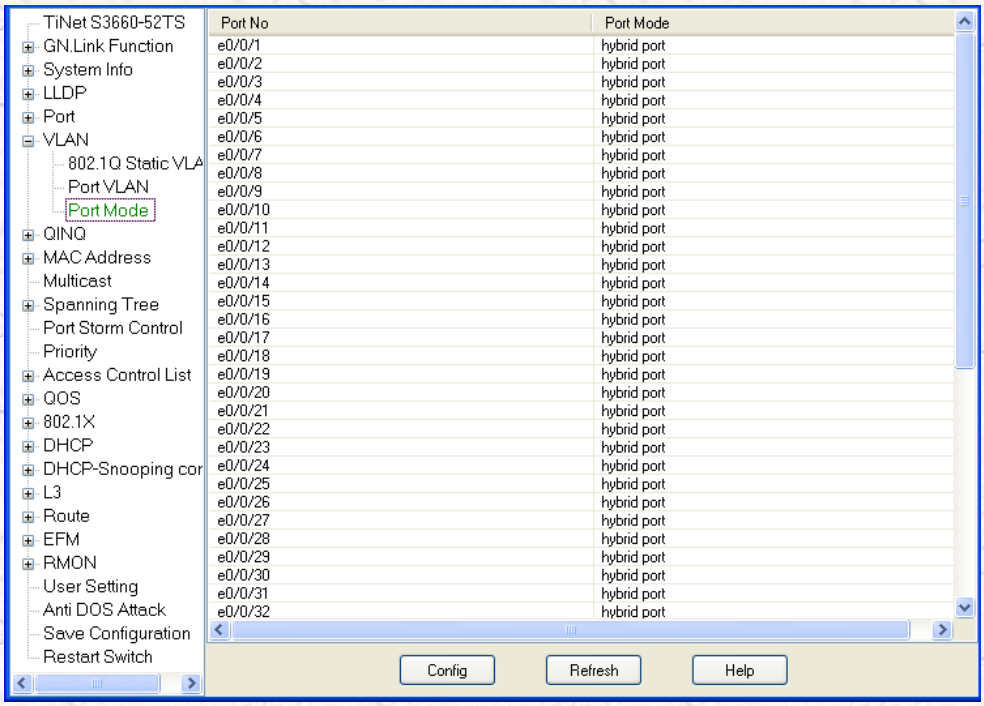


Figure9-4Port mode configuration main interface

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

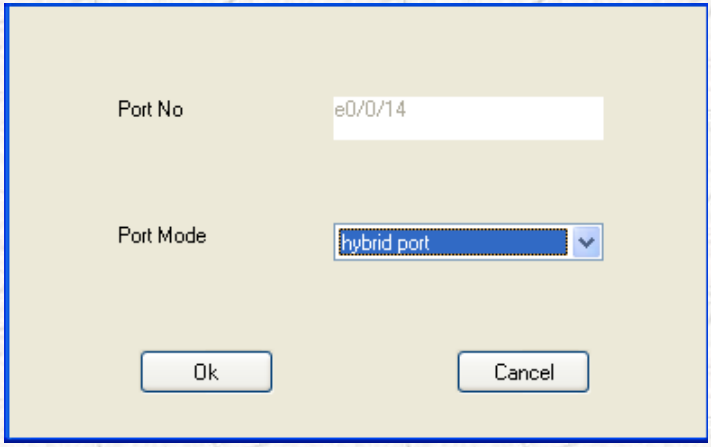


Figure9-5Parameter configuration

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

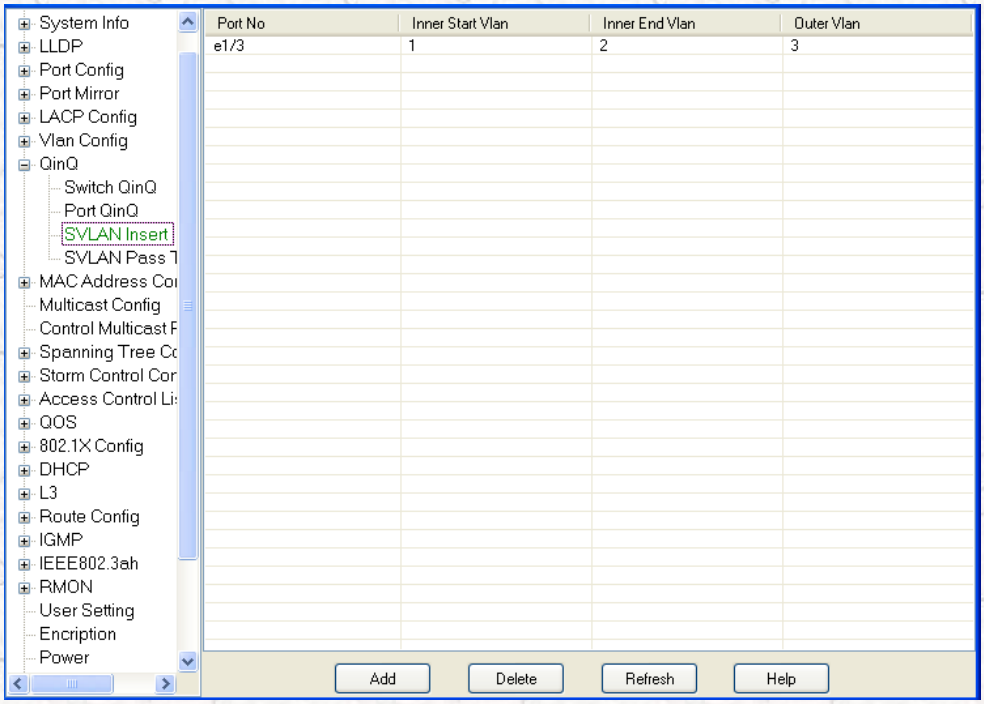


Figure9-6SVLAN insert

Click"add"button, system begins to configure the device, , the result will come out after configuration. "add" interface as below :

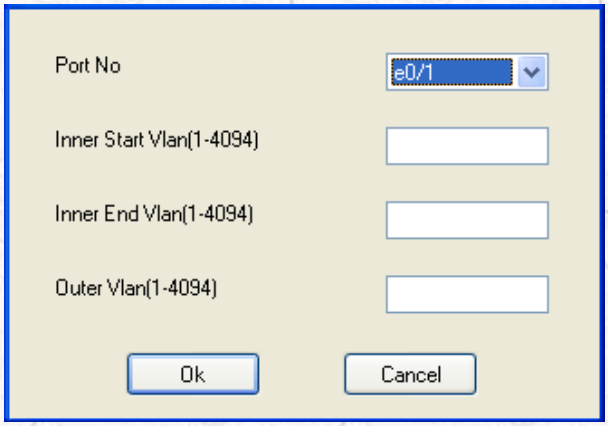


Figure9-7SVLAN insert –add interface

Notess:

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

10.1Global QinQ configuration

QinQ is used for the commnunication 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 , igress 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..

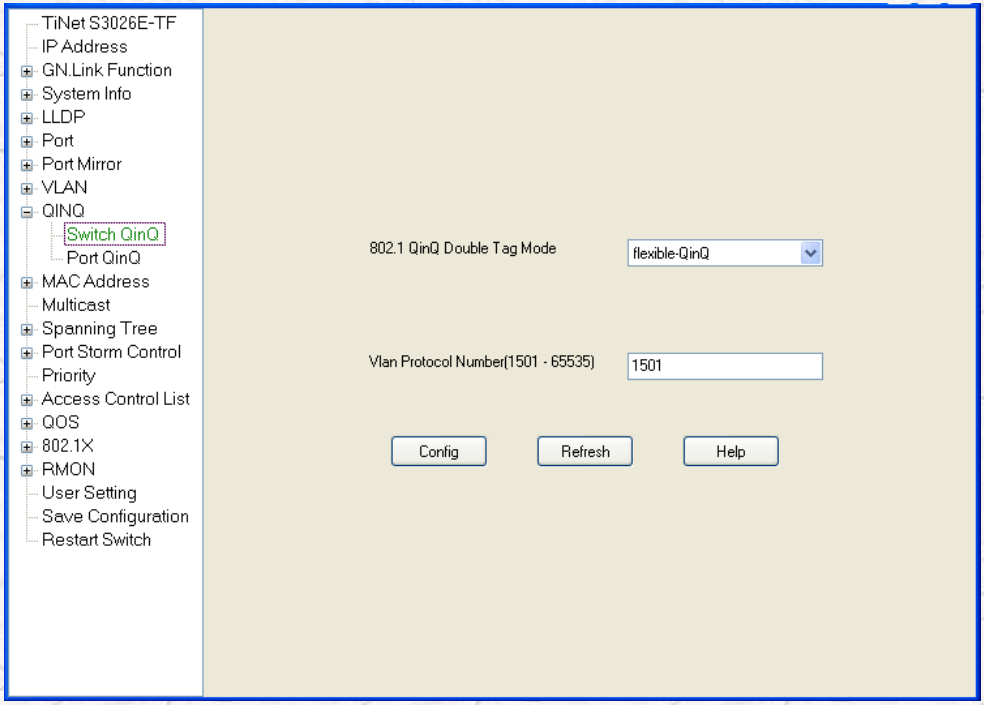


Figure10-1802.1 global QinQ configuration

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 .

10.2Port 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.

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

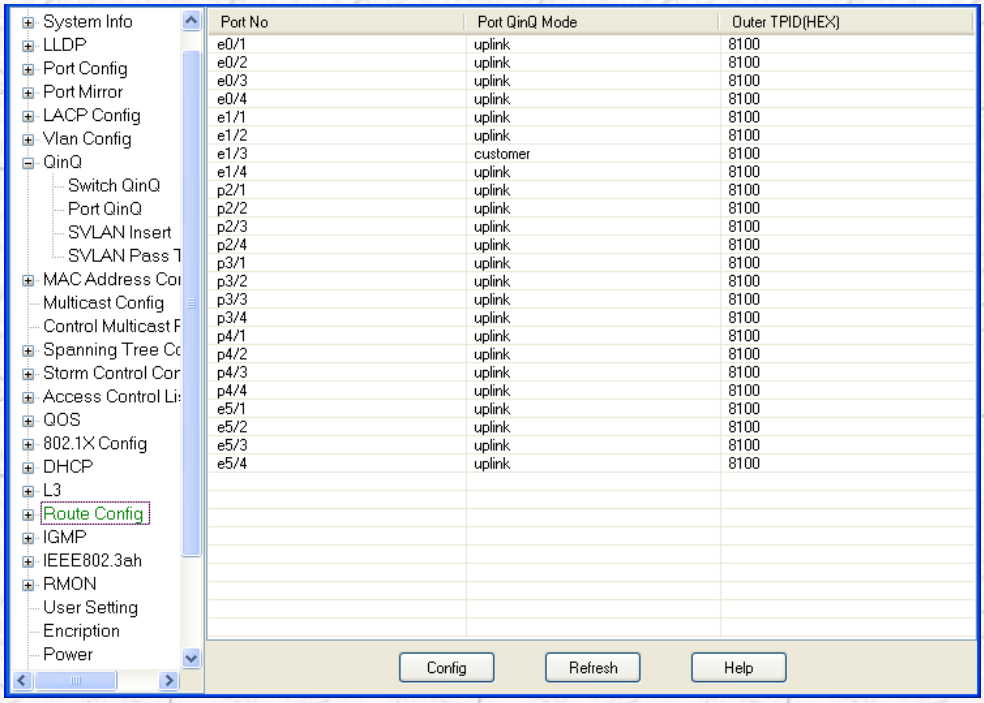


Figure10-2Port QinQ configuration

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

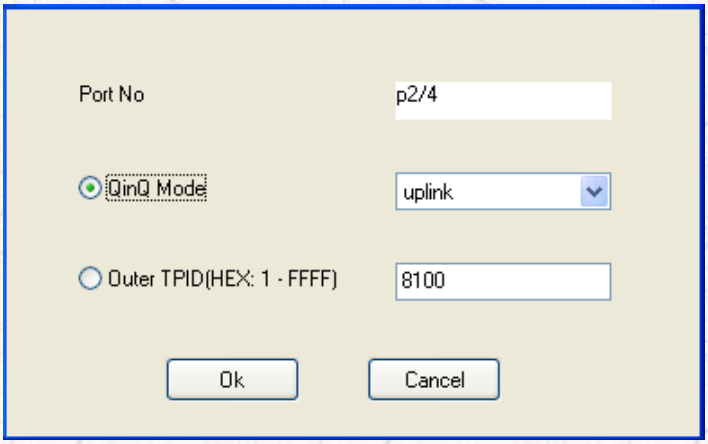


Figure10-3Port QinQ configuration parameter interface

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 seris as dynamic QinQ mode at the port , it is configured as souce 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.

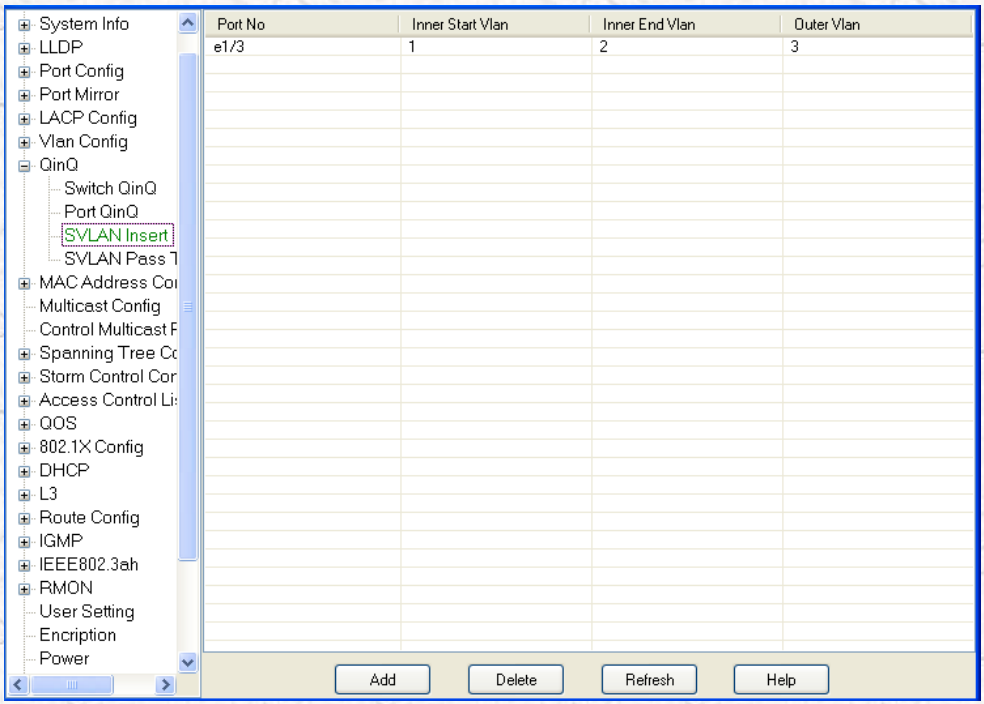


Figure10-4SVLAN insert

Click"add"button, system begins to configure the device, , the result will come out after configuration. "add" interface as below :

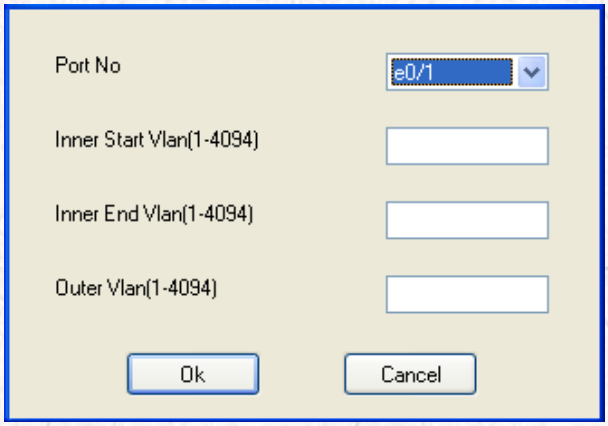


Figure10-5SVLAN insert –add interface

Notess:

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 seris as dynamic QinQ mode at the port , it is configured as souce 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

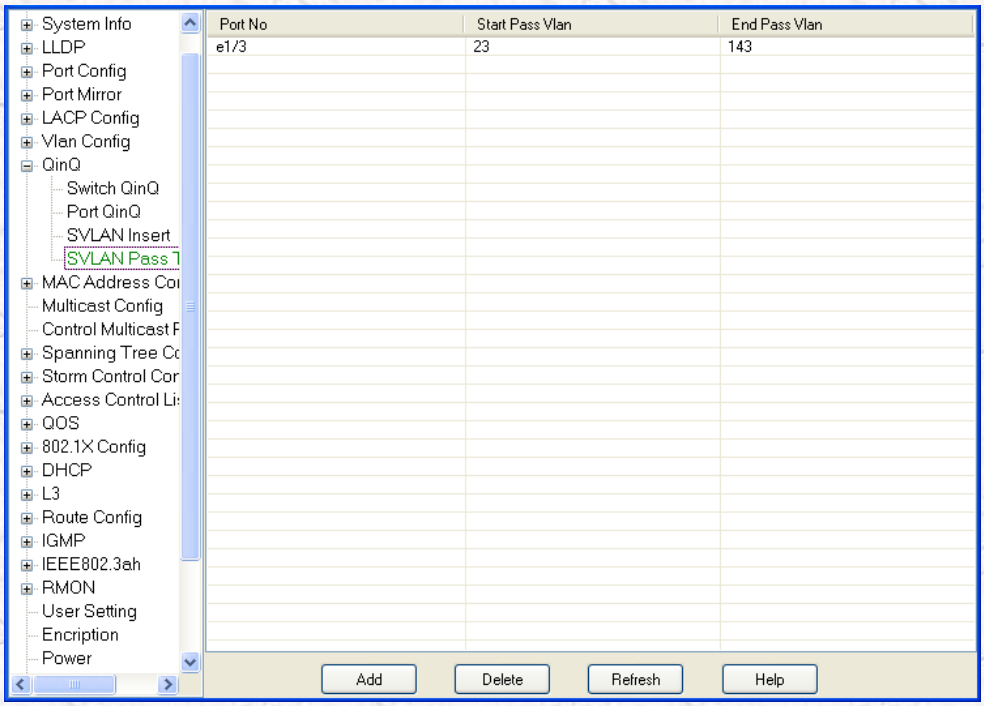


Figure10-6SVLAN pass through interface

Click"add"button system begins to configure the device, , the result will come out after configuration,"add" interface as below:

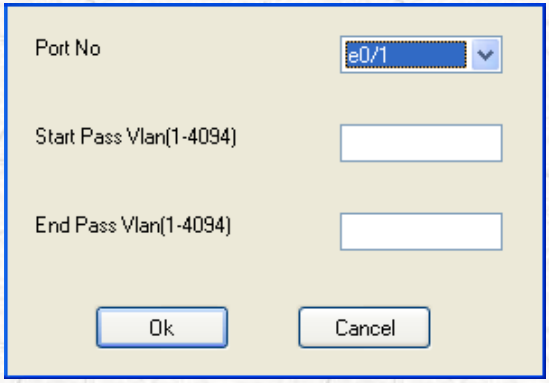


Figure10-7SVLAN pass through-add interface

Notess:

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

11.1Address learning mode configuration

Configuration interface as below :

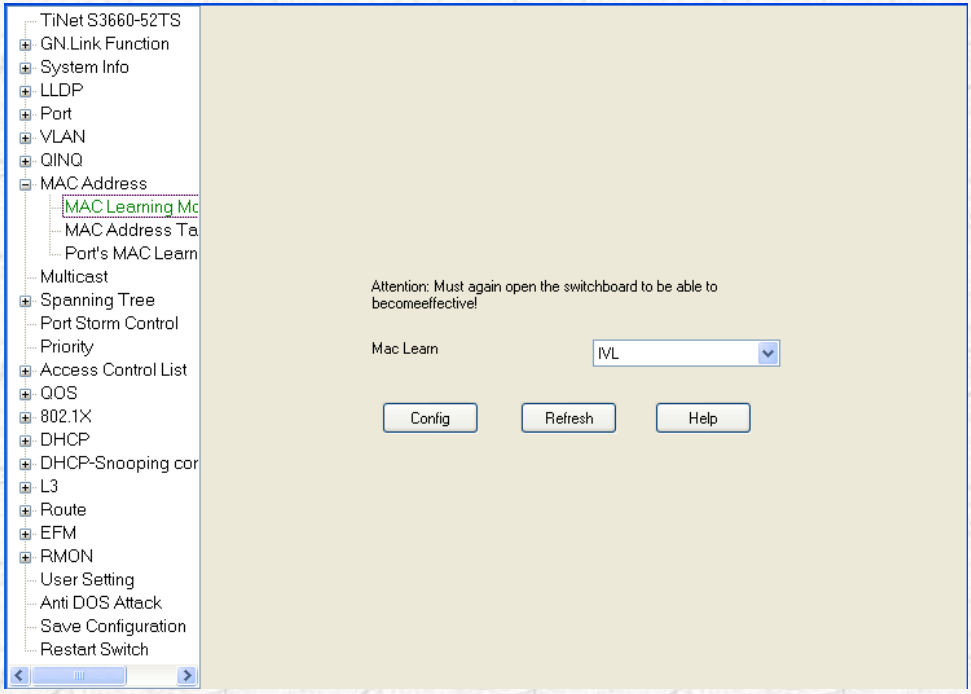


Figure11-1Mac address learning mode configuration interface

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

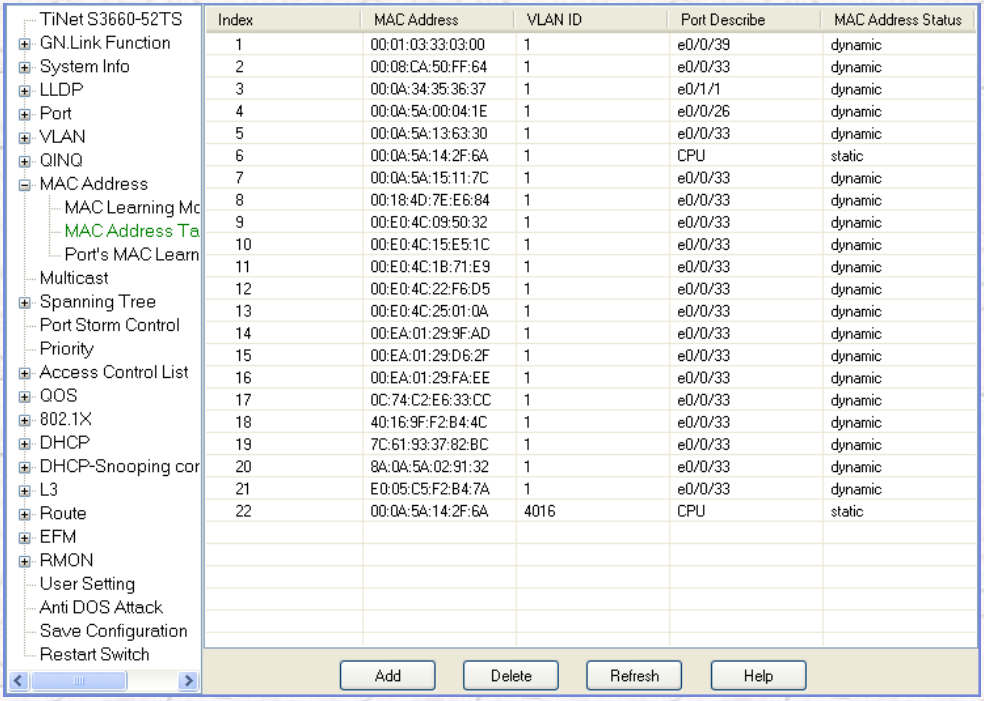
Click”**Config**”button,system begins to configure the device, the result will come out.

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

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

11.2Mac address configuration

Configuration interface as below :



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:BC	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

Figure11-2Mac address table basic interface

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

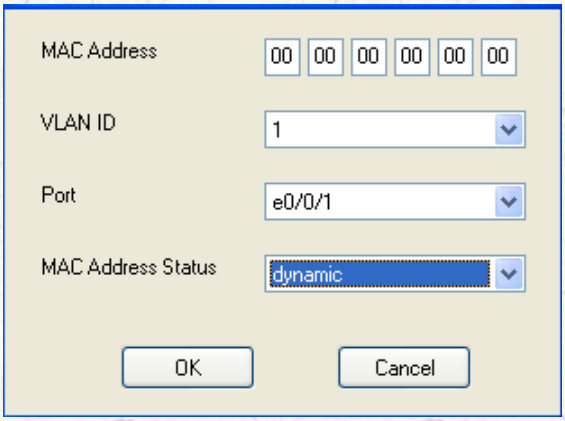


Figure11-3Mac address configuration interface

Four tyes 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.

Notess:

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 :

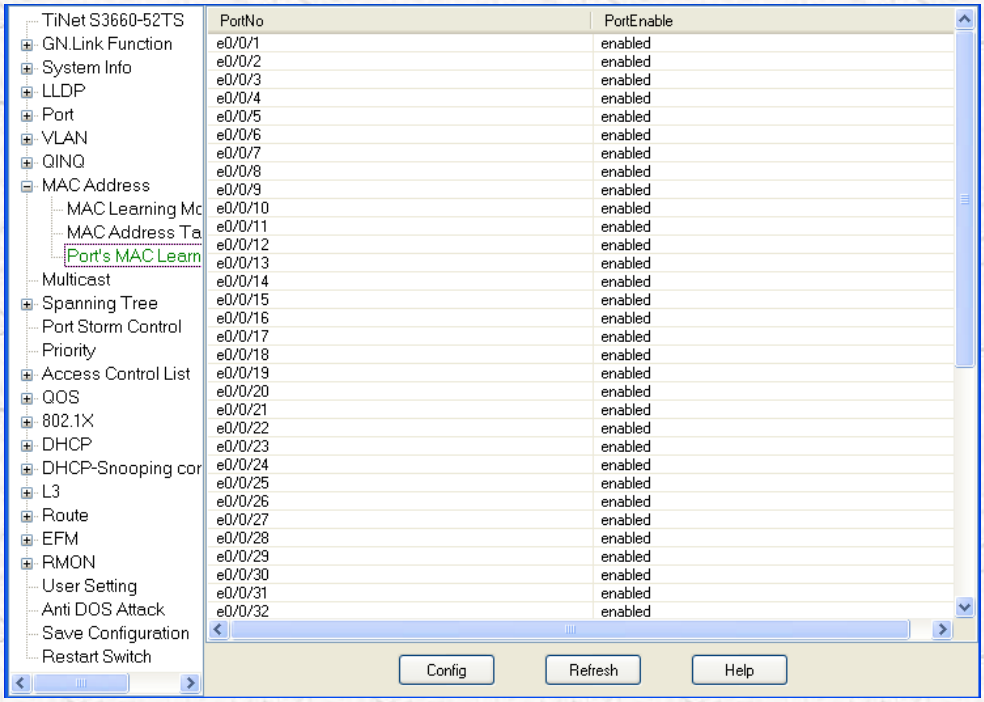


Figure11-4Port Mac address learning enable basic interface

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

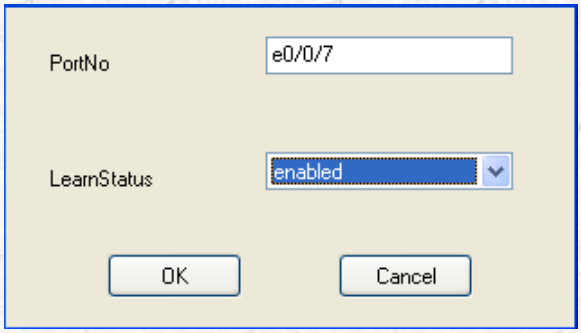


Figure11-5Mac address learning enable configuration interface

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.

11.4MAC Address Age Time Configuration

Configuration interface as the shown figure:

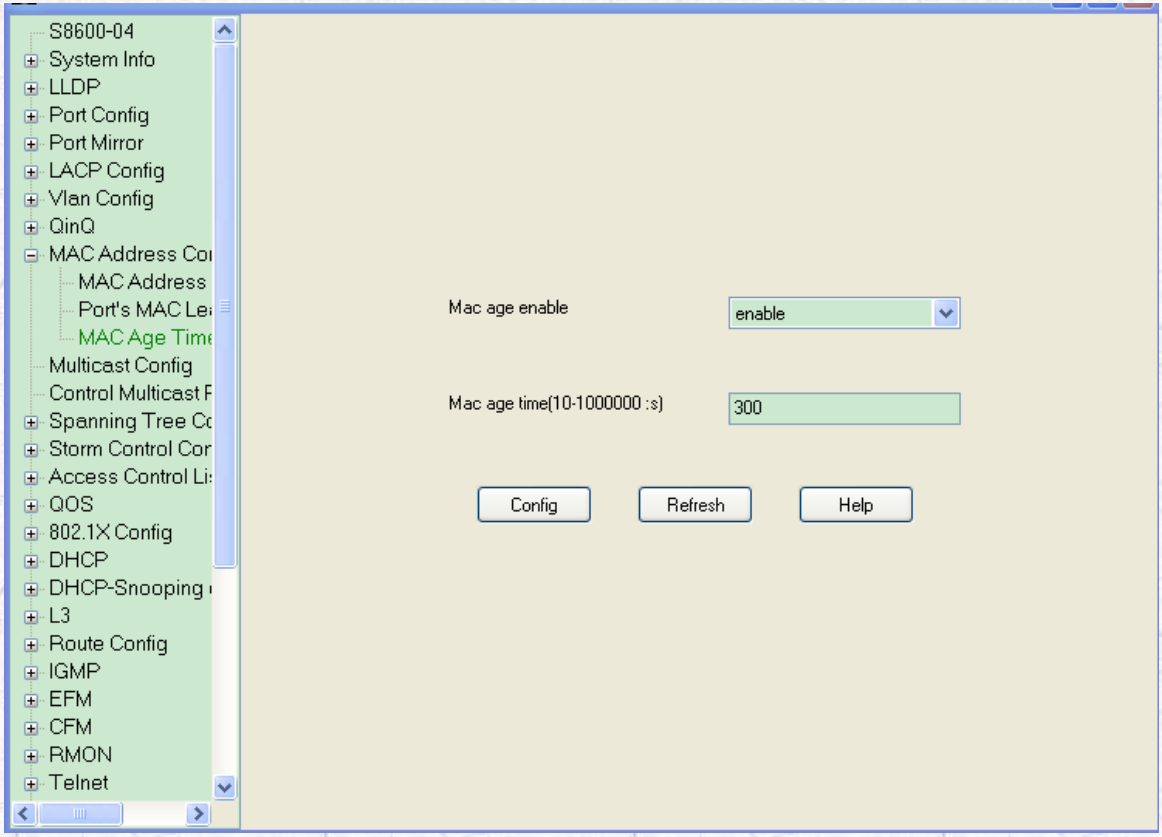


Figure11-6Mac Address Aging Function Configuration Interface

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.

12 Multicast Configuration

Configuration interface as below :

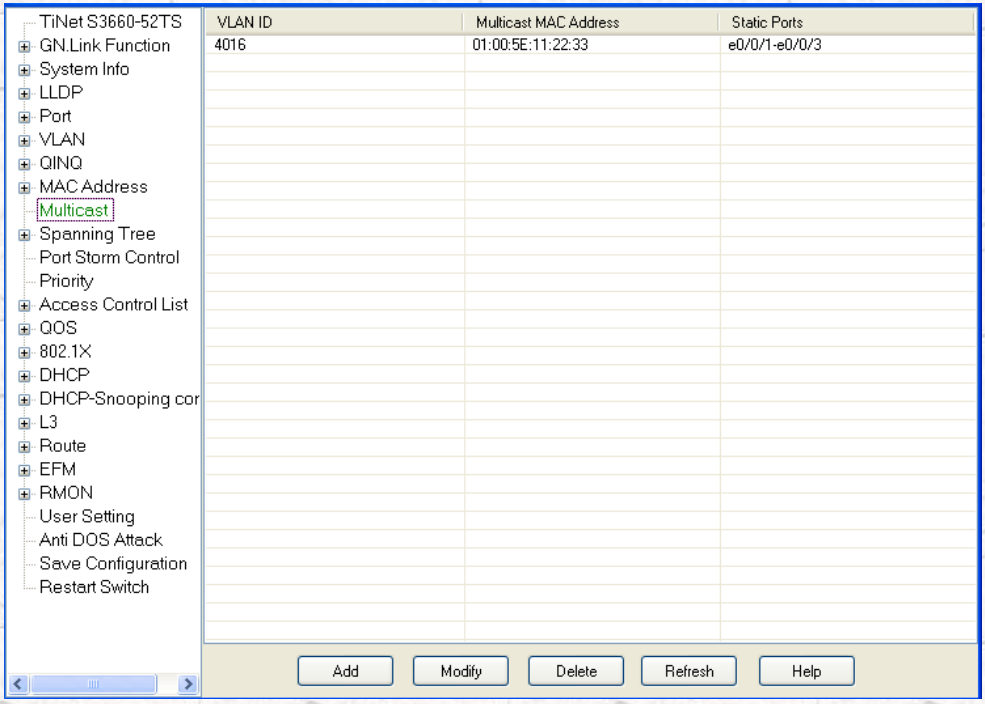


Figure12-1Multicast configuration interface

Vlan ID: Vlan ID number.

Multicast MAC address

Static port member : all ports belong to this VLAN

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

13.1Spanning tree configuration based on switch

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

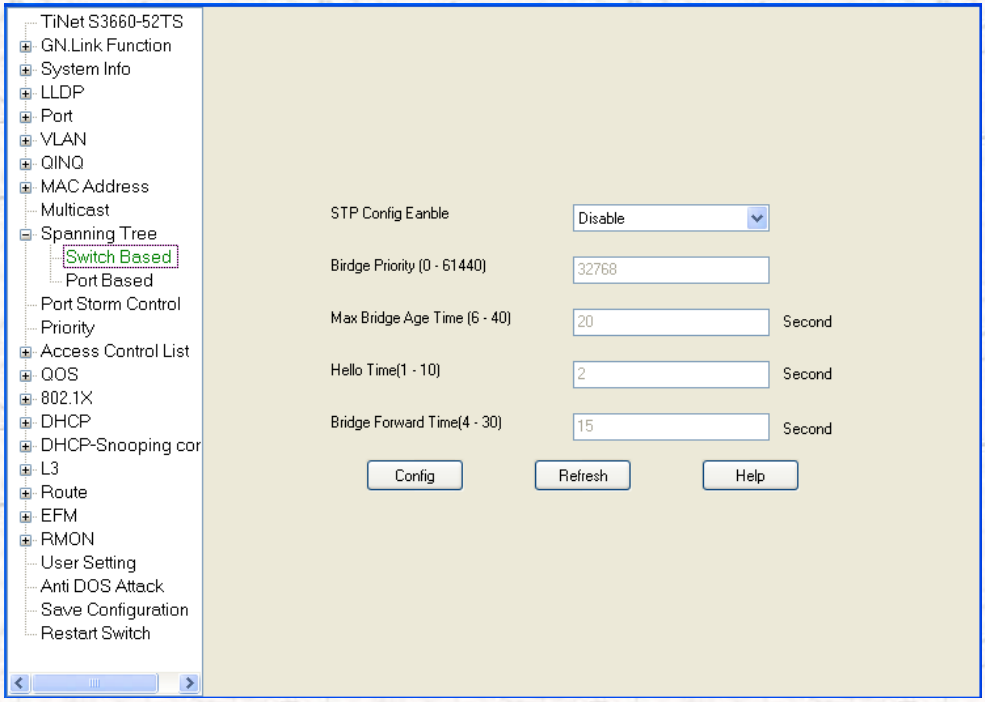


Figure13-1Spanning tree configuration interace based on switch

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 learing 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× (Hellotime+1)<=MaxAgeTime <=2× (ForwardTime−1),or it will show error prompt interface as below :

Figure13-2Error prompt

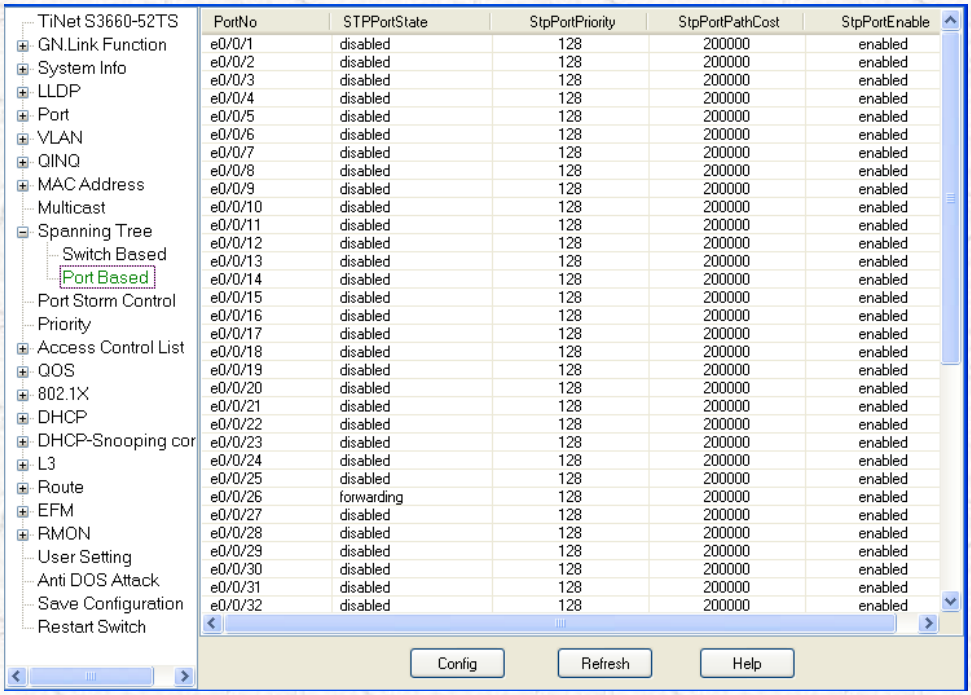
Click"**OK**"button,system begins to configure the device, the result will come out.

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
e0/0/1	disabled	128	200000	enabled
e0/0/2	disabled	128	200000	enabled
e0/0/3	disabled	128	200000	enabled
e0/0/4	disabled	128	200000	enabled
e0/0/5	disabled	128	200000	enabled
e0/0/6	disabled	128	200000	enabled
e0/0/7	disabled	128	200000	enabled
e0/0/8	disabled	128	200000	enabled
e0/0/9	disabled	128	200000	enabled
e0/0/10	disabled	128	200000	enabled
e0/0/11	disabled	128	200000	enabled
e0/0/12	disabled	128	200000	enabled
e0/0/13	disabled	128	200000	enabled
e0/0/14	disabled	128	200000	enabled
e0/0/15	disabled	128	200000	enabled
e0/0/16	disabled	128	200000	enabled
e0/0/17	disabled	128	200000	enabled
e0/0/18	disabled	128	200000	enabled
e0/0/19	disabled	128	200000	enabled
e0/0/20	disabled	128	200000	enabled
e0/0/21	disabled	128	200000	enabled
e0/0/22	disabled	128	200000	enabled
e0/0/23	disabled	128	200000	enabled
e0/0/24	disabled	128	200000	enabled
e0/0/25	disabled	128	200000	enabled
e0/0/26	forwarding	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:

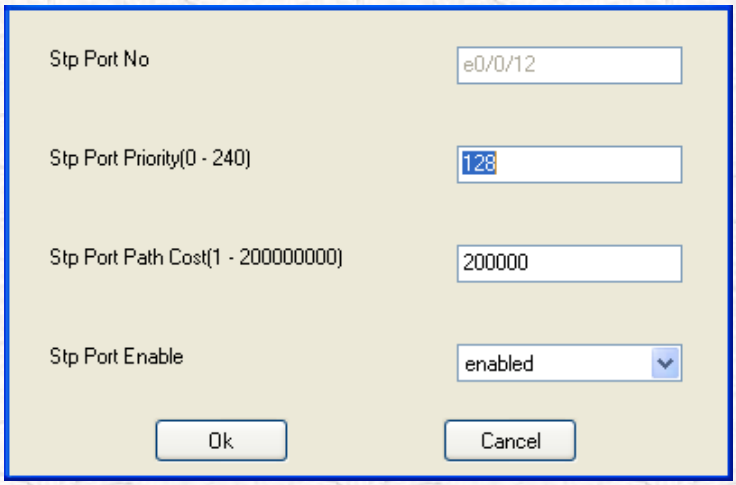


Figure13-4STP parameter configuration interface

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.

13.3Multiple spanning tree configuration

Multiple spanning tree(IEEE802.1S,Multiple spanning tree)is upgrade of SST (single spanning tree, IEEE8021.D / 8021, W) ,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 the shown figure:

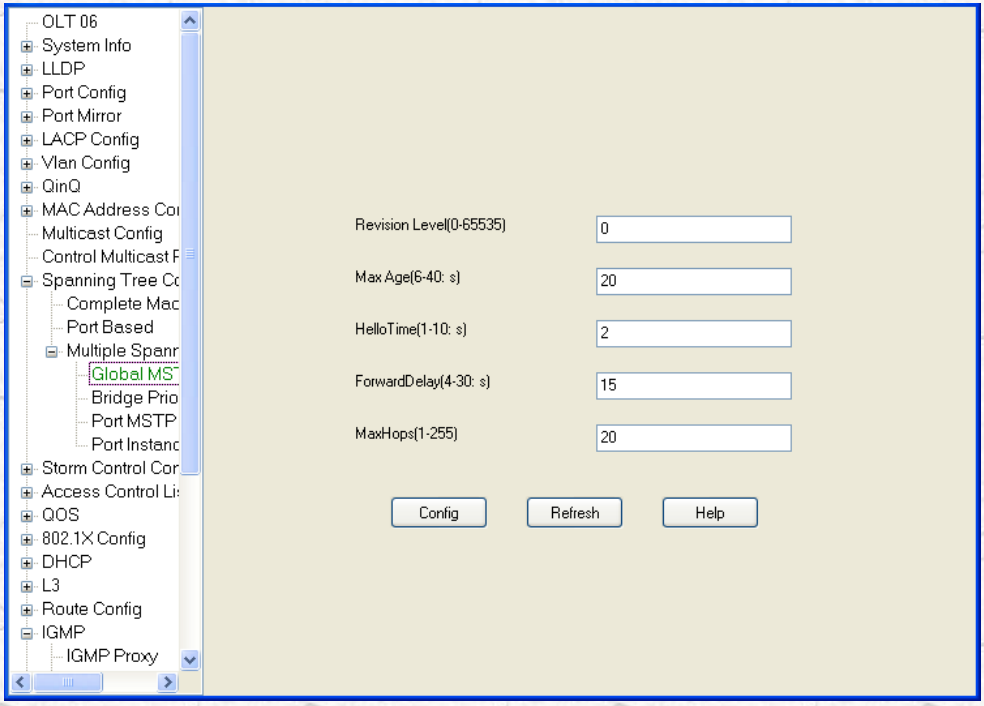


Figure13-5Global MSTP configuration interface

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 from1second to10 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 Hopes: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 x (call time1) < = maximum bridge aging time < = 2x (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:

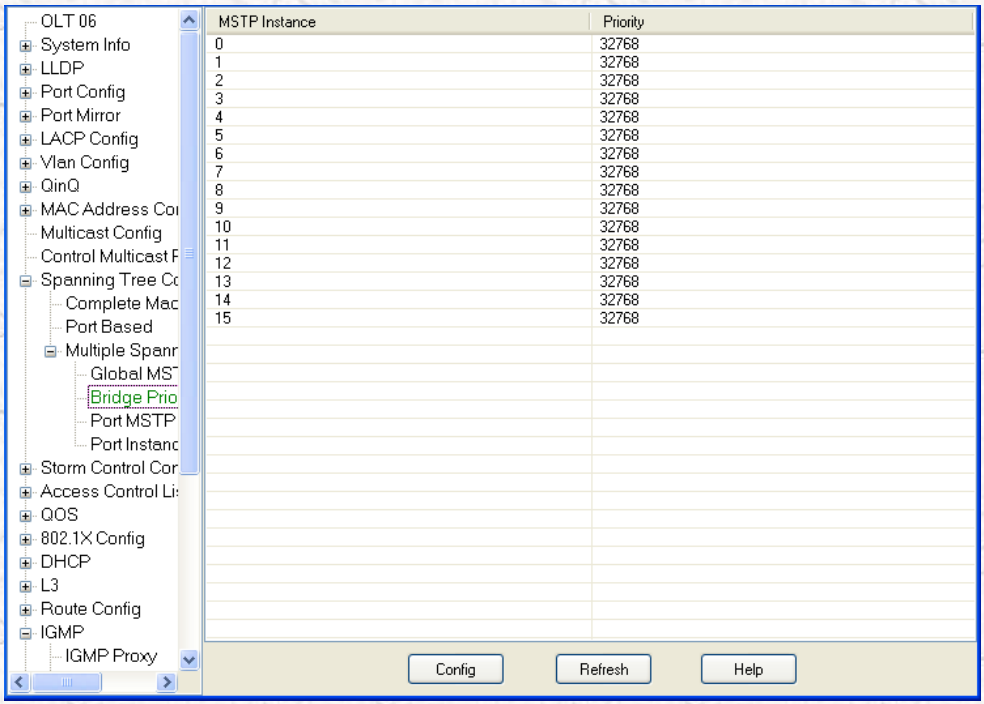


Figure13-7Bridge priority configuration interface

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

as the shown figure:

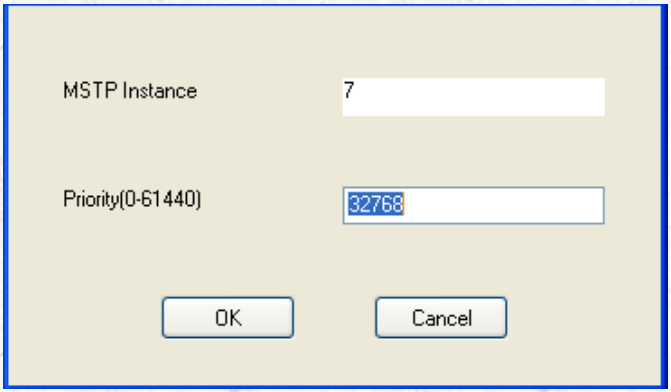


Figure13-8Bridge priority configuration parameters interface

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:

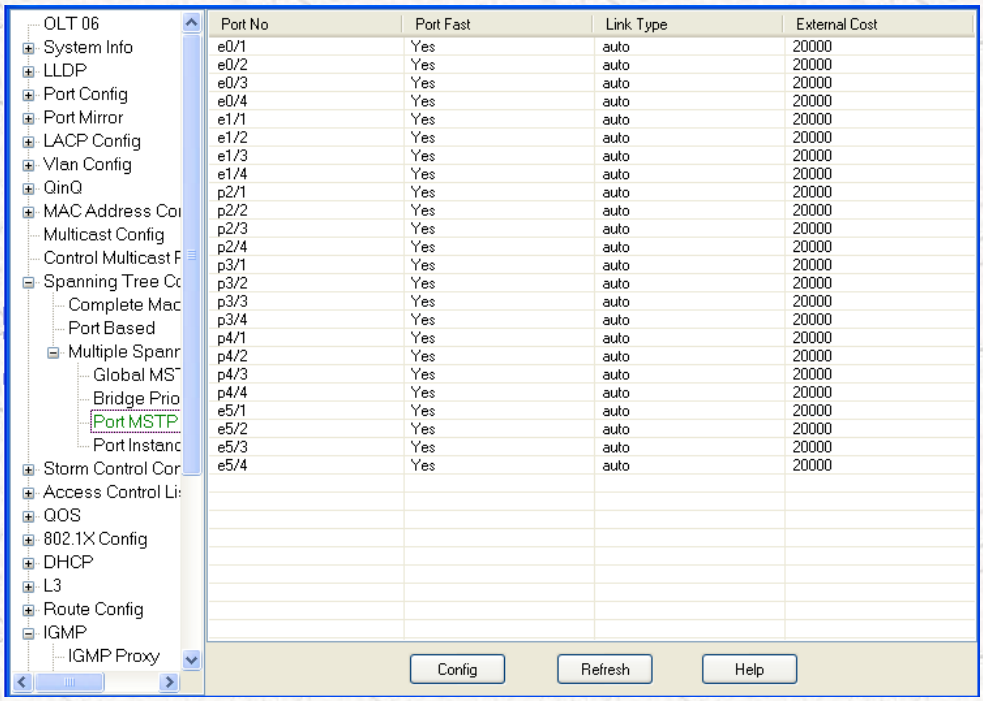


Figure13-9Port MSTP Configuration main interface

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

as the shown figure:

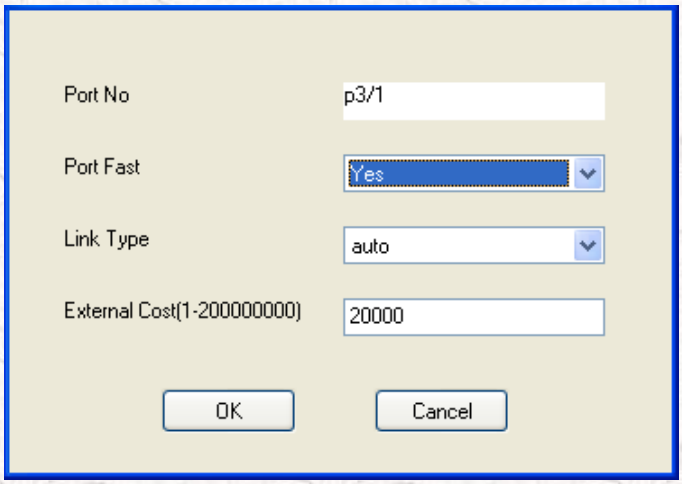


Figure13-10Port MSTP Configuration parameters interface

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:

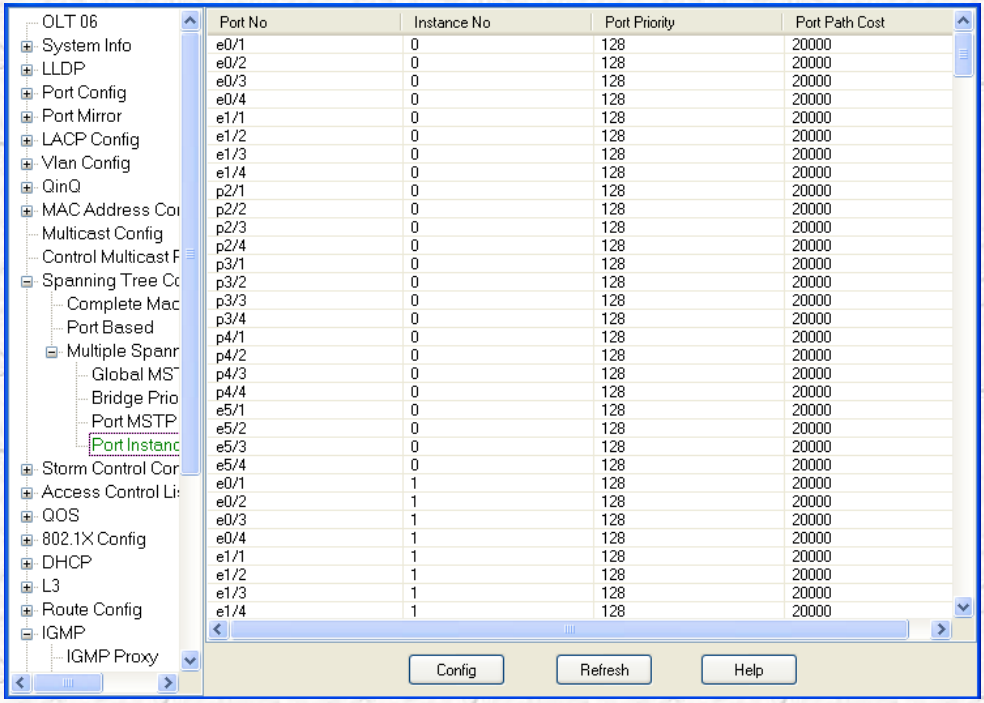


Figure13-11Port example MSTP configuration main interface

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

as the shown figure:

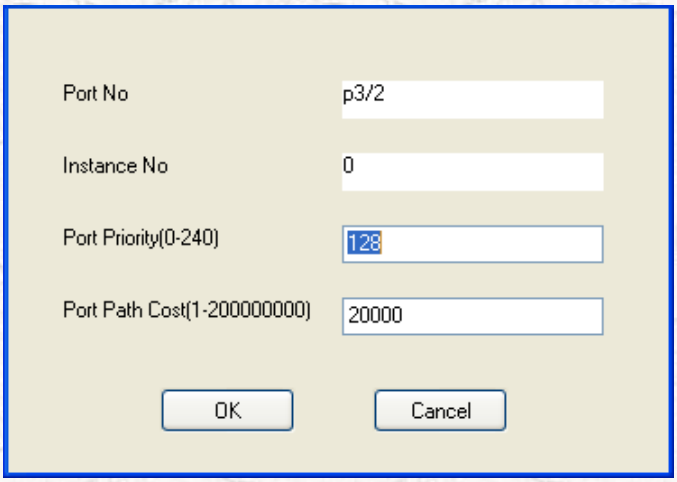


Figure13-12Port example MSTP configuration parameter interface

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

14.1Broadcast 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:

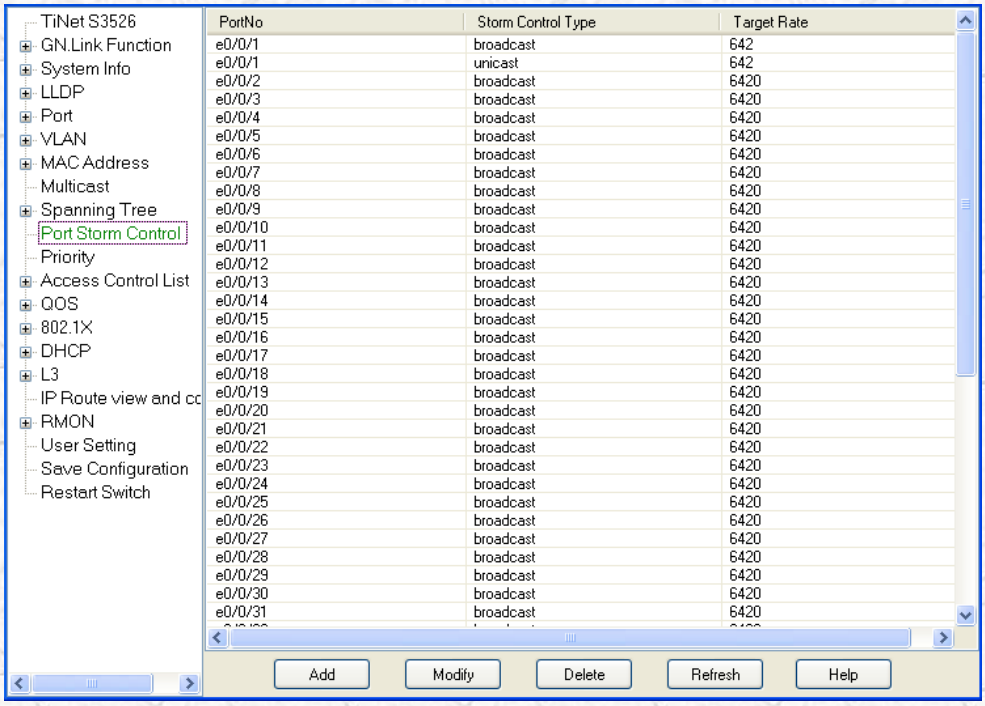


Figure14-1Broadcast storm control main interface

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

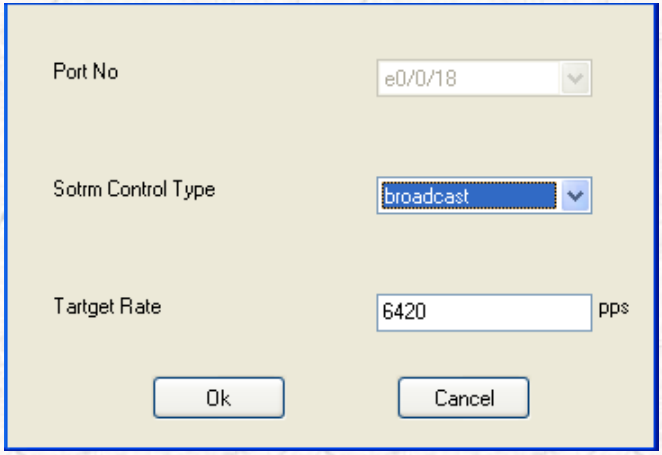


Figure14-2Parameter configuration interface

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:

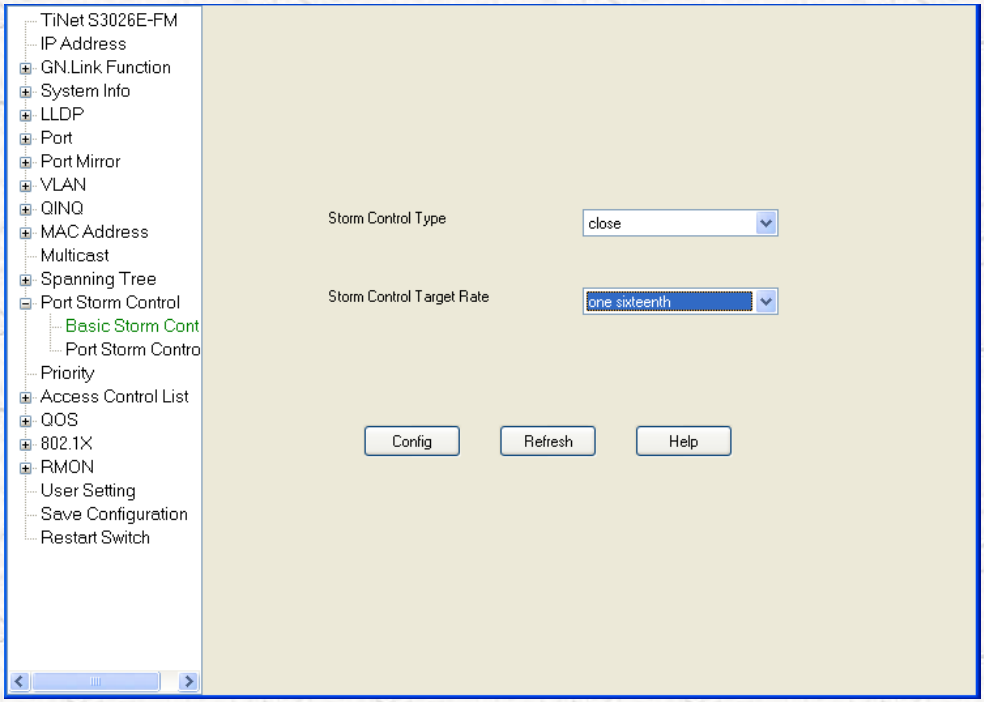


Figure14-3Basic storm control interface

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:

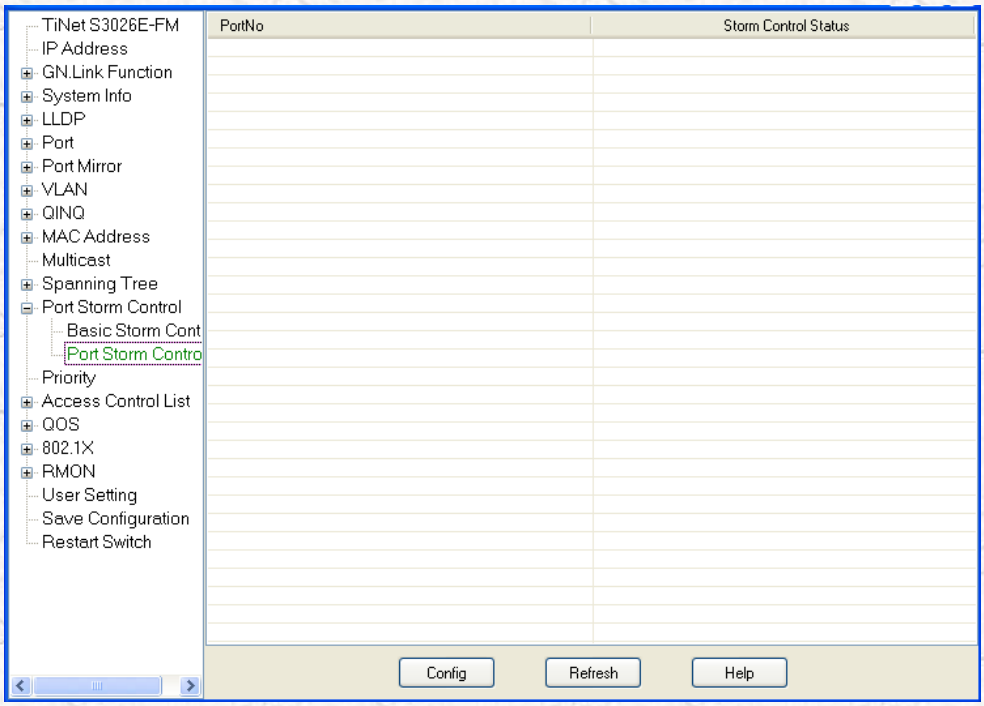


Figure14-4Port storm control main interface

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

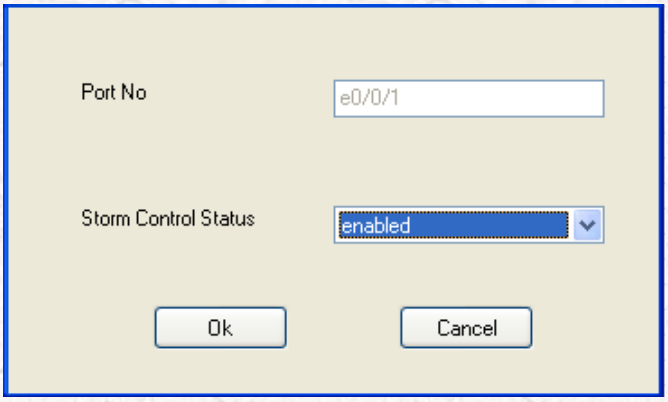


Figure14-5Parameter configuration interface

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.

15 Priority Allocation

Configuration interface as the shown figure:

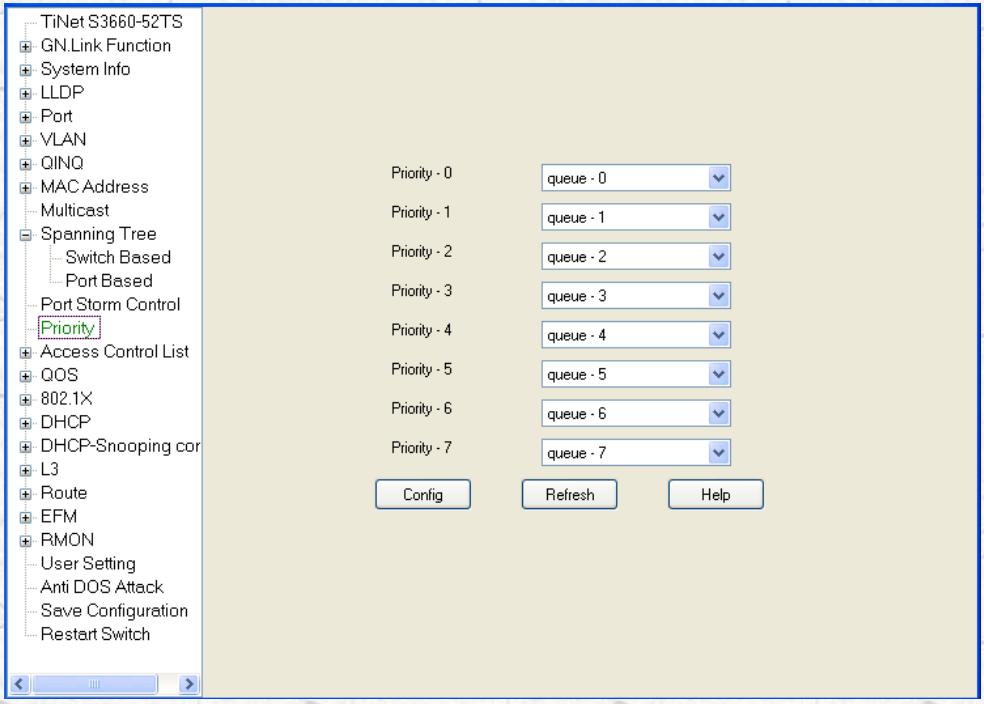


Figure15-1Priority allocation configuration interface

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 to configured,only keep the original value;
2. It 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 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 PoE

16.1Global PoE configuration

Configuration interface as the shown figure:

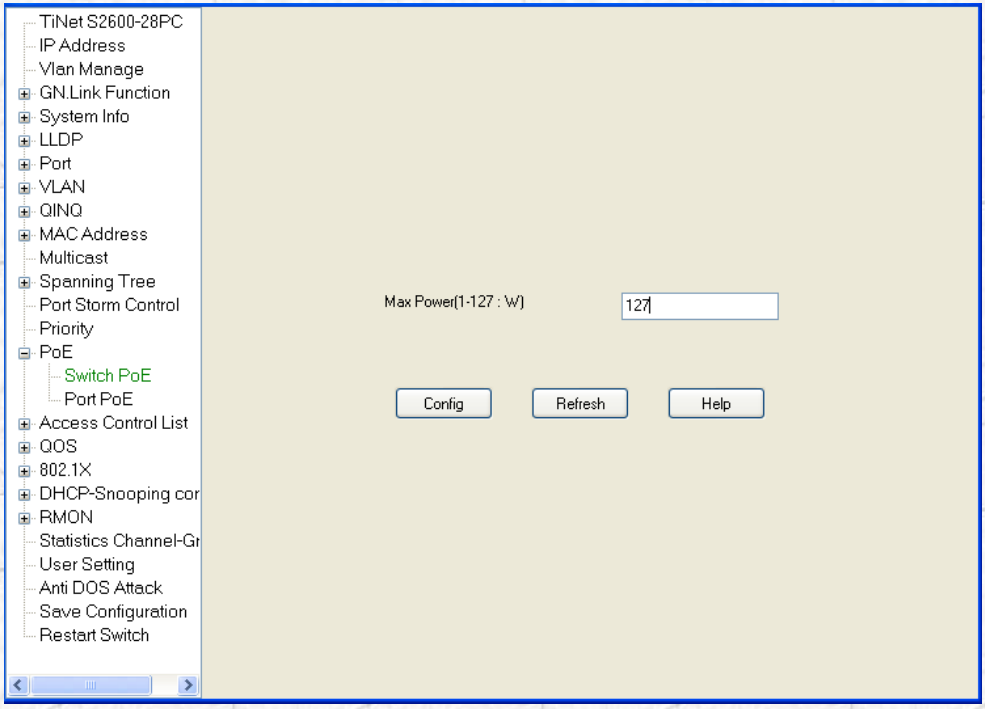


Figure16-1Global PoE configuration interface

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.

16.2Port PoE Configuration

Configuration interface as the shown figure:

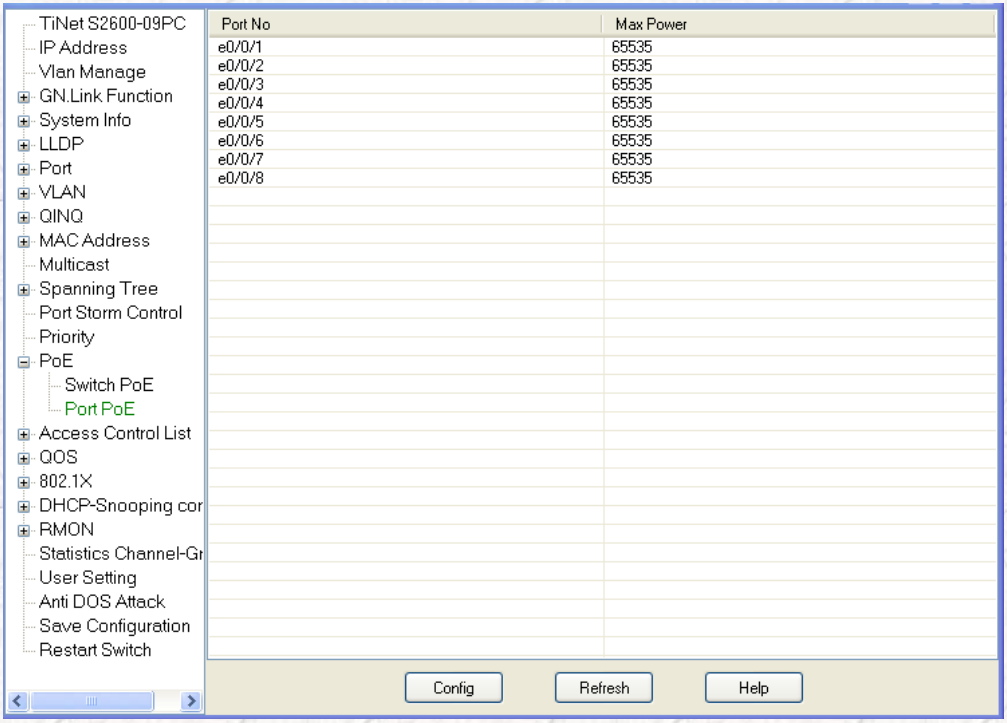


Figure16-2Port PoE configuration interface

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

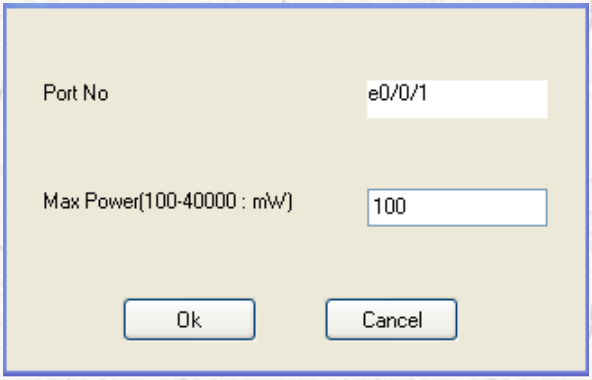


Figure16-3Parameter configuration interface

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 used 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.

17.1Based on the name identification

17.1.1 Based on the name ACL

Configuration interface as the shown figure:

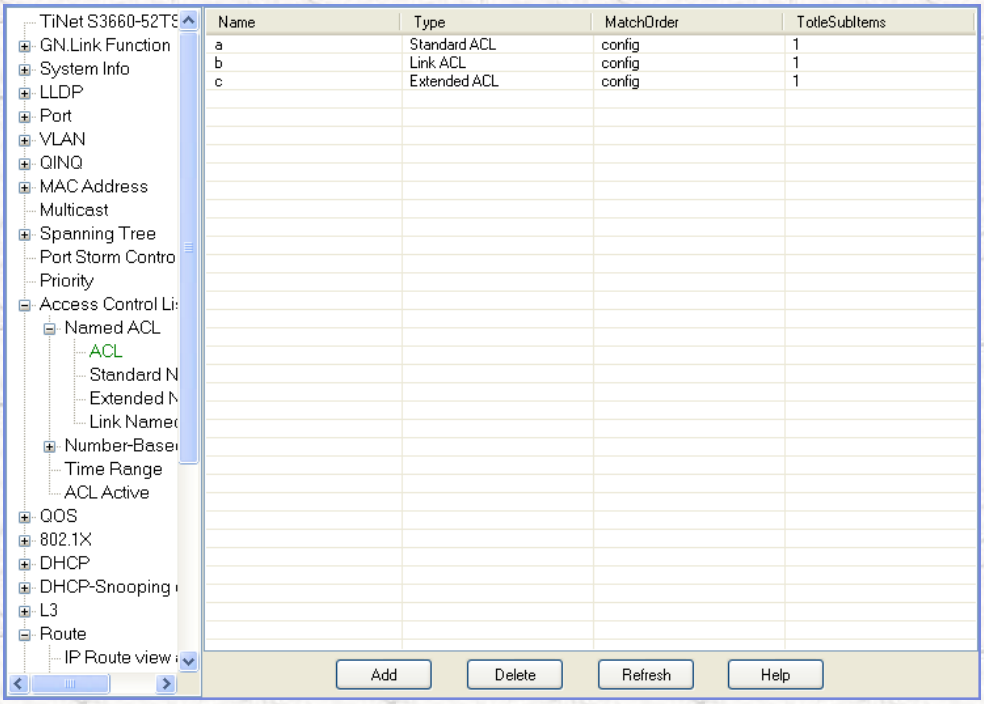


Figure17-1Based on the name ACL configuration interface

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.

Totle SutItems: 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:

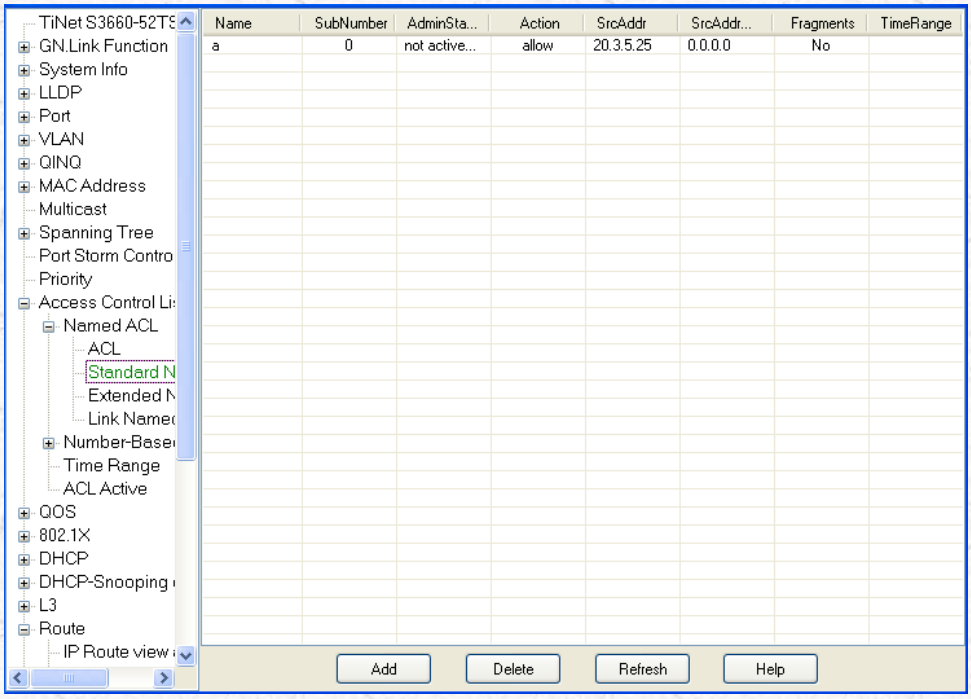


Figure17-2Based on the name standard ACL configuration interface

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

Sub number:A standard sub ACL sub item number.

Administration status: The newly added child ACL state default is ' has not been activated and references'.

Action: Default to' reject'.

Src Address: Source address.

Src Address wildcard:Src Address wildcard.

Frayments:IP message in transmission is divided, default is ' not'.

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:

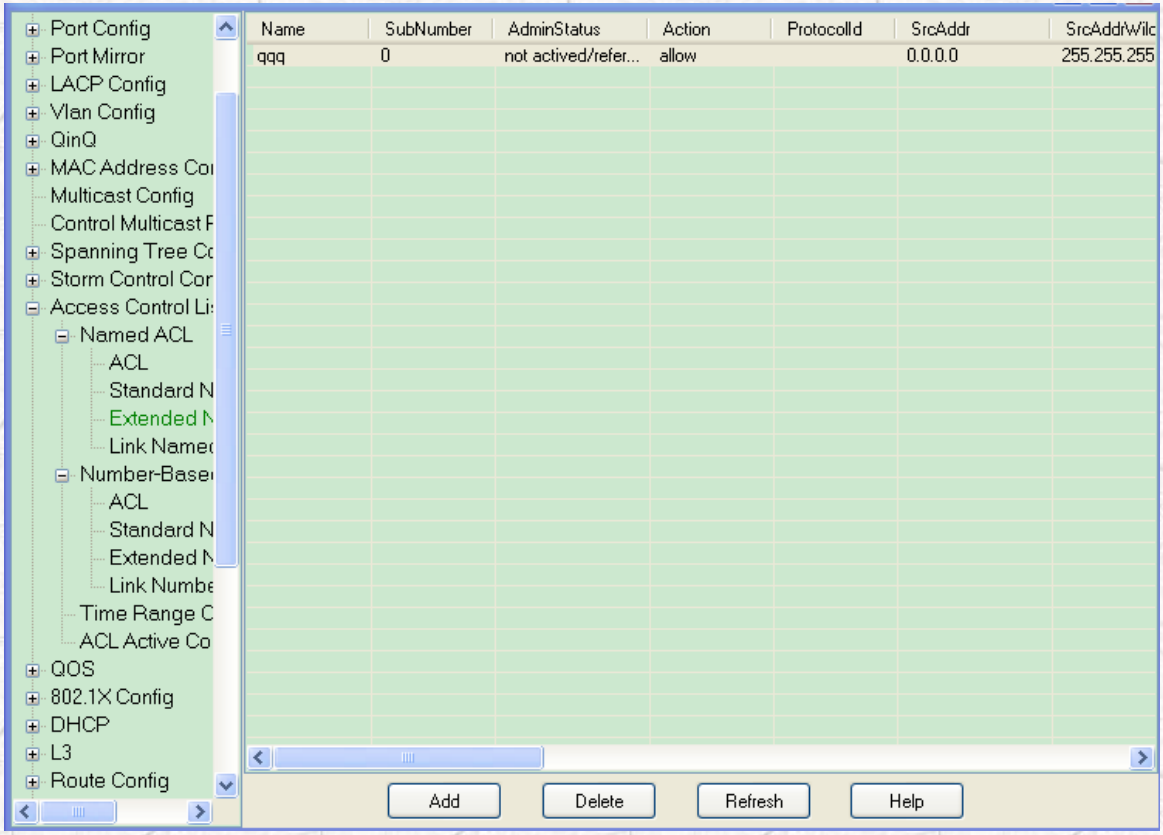


Figure17-3Configuration interface of expanding Sub-ACL based on name identifier

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 istransferred,default is”not”.

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 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 :

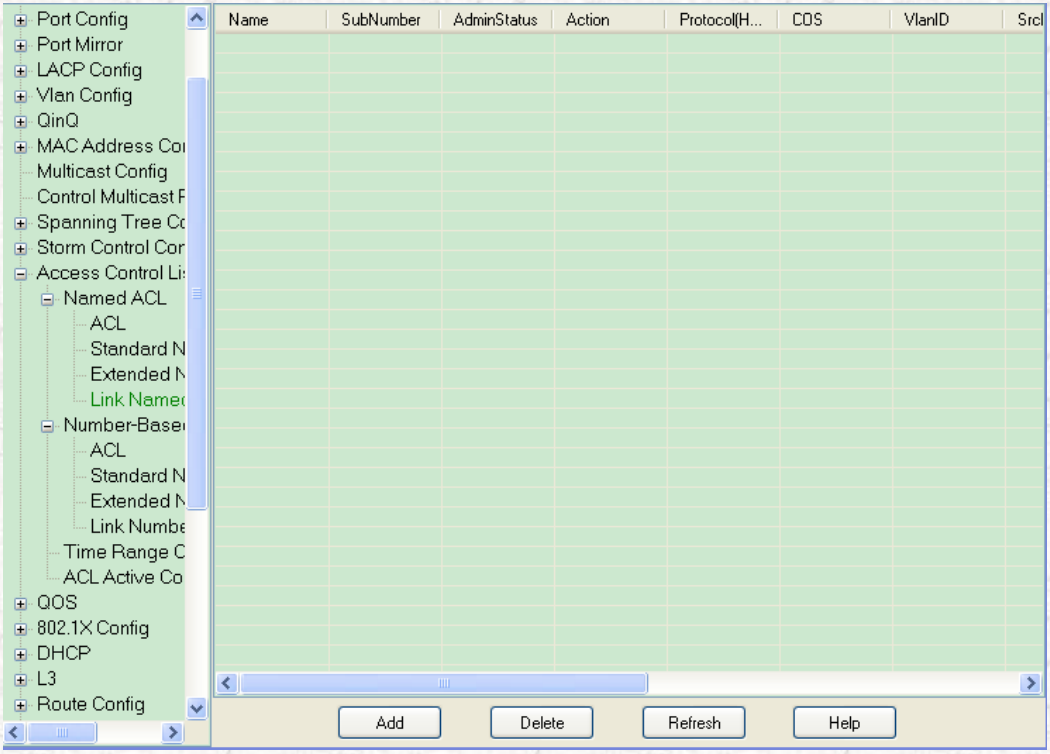


Figure17-4Link Named ACL based on name interface

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 :

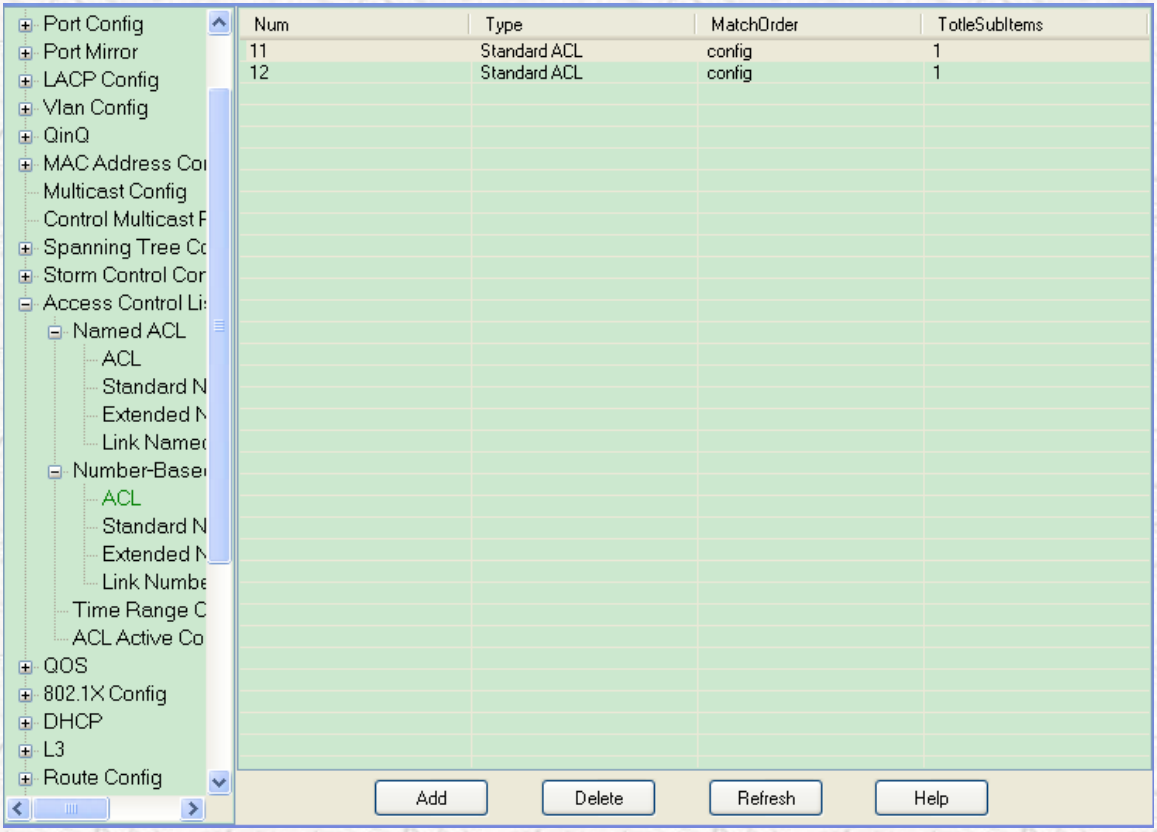


Figure17-5based on digital ACL identifier Configuration interface

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 :

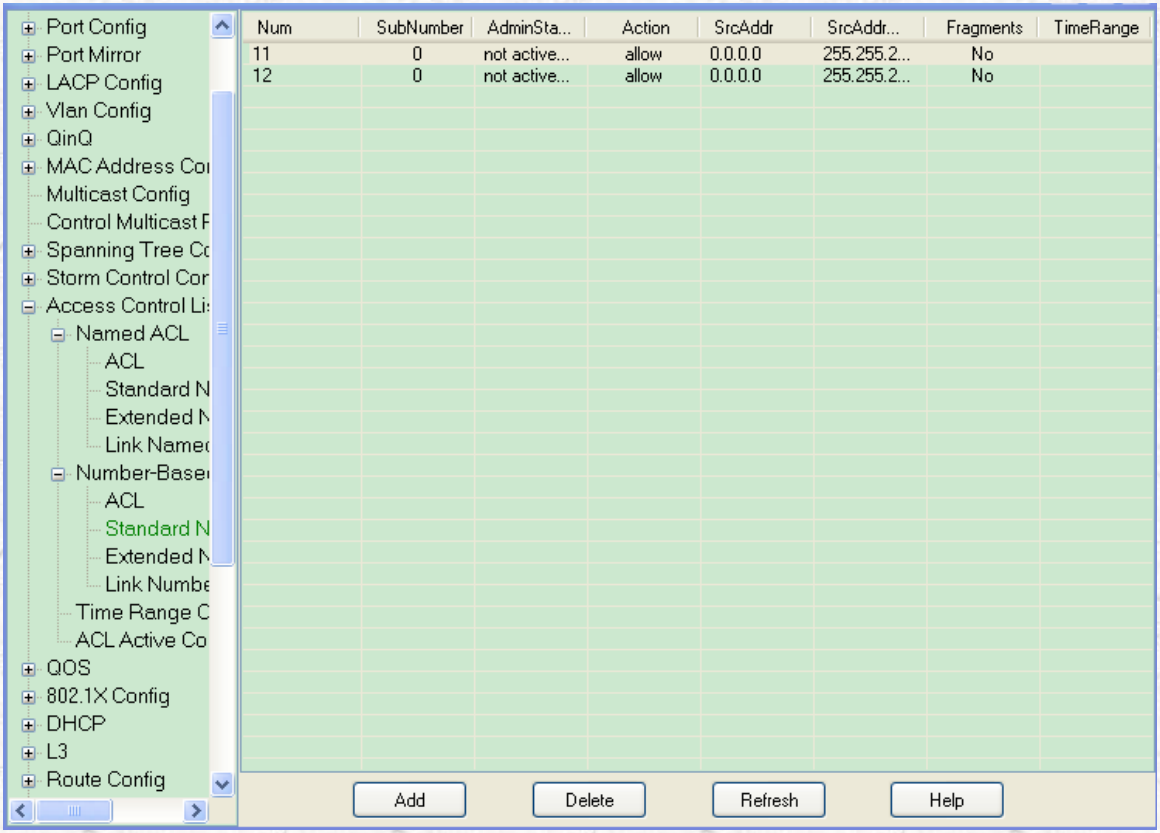


Figure17-6Based on the digital standard sub ACL identifier Configuration interface

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 :

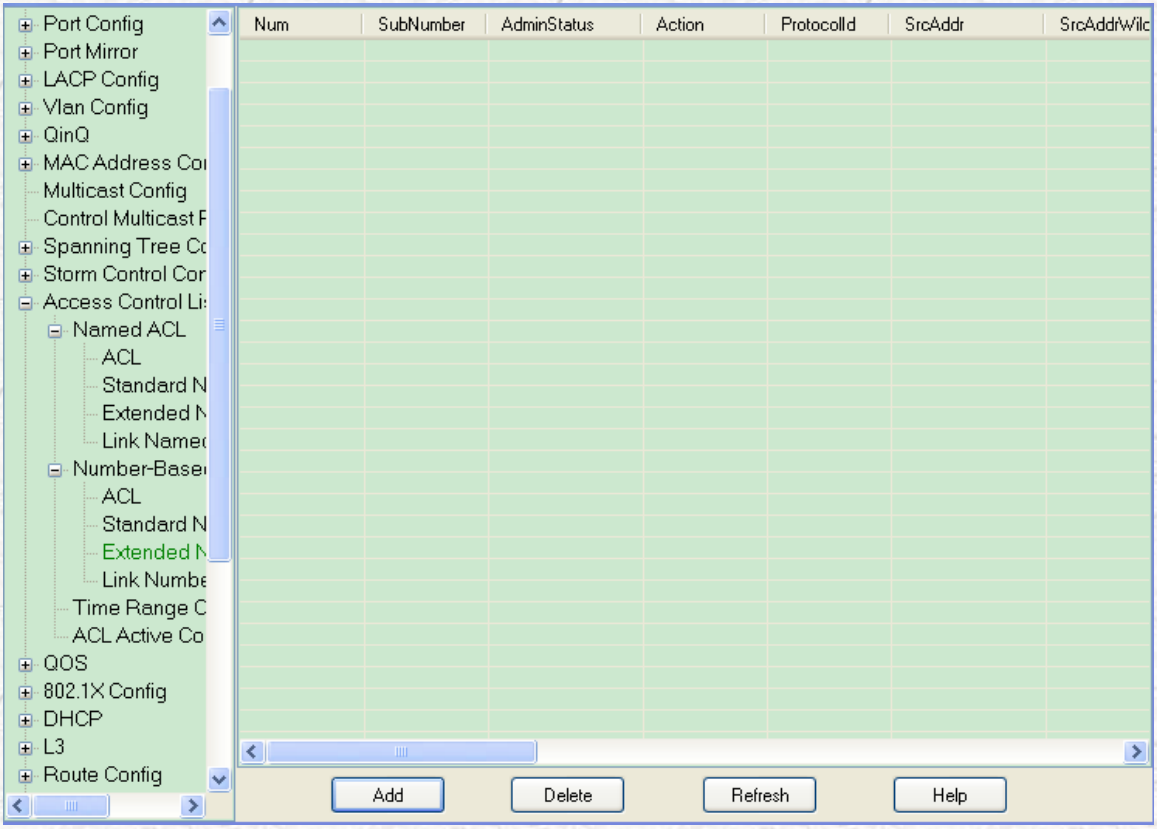


Figure17-7Based on the digital standard sub ACL identifier Configuration interface

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 :

Figure17-8Based on the digital standard sub ACL identifier Configuration interface

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

Subkey number:subkey number of layer 2 Sub-ACL.

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

Action type: default is ” rejected”.

Protocol type: Protocol number.

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:

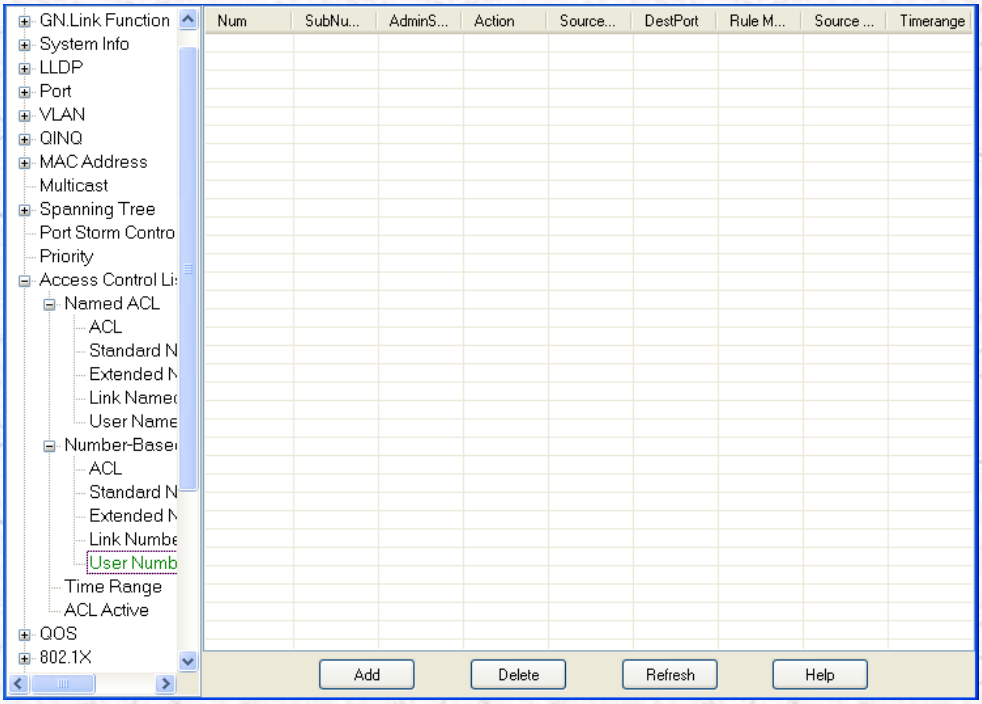


Figure17-9User-defined Sub-ACL based on digital identifier Configuration interface

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 :

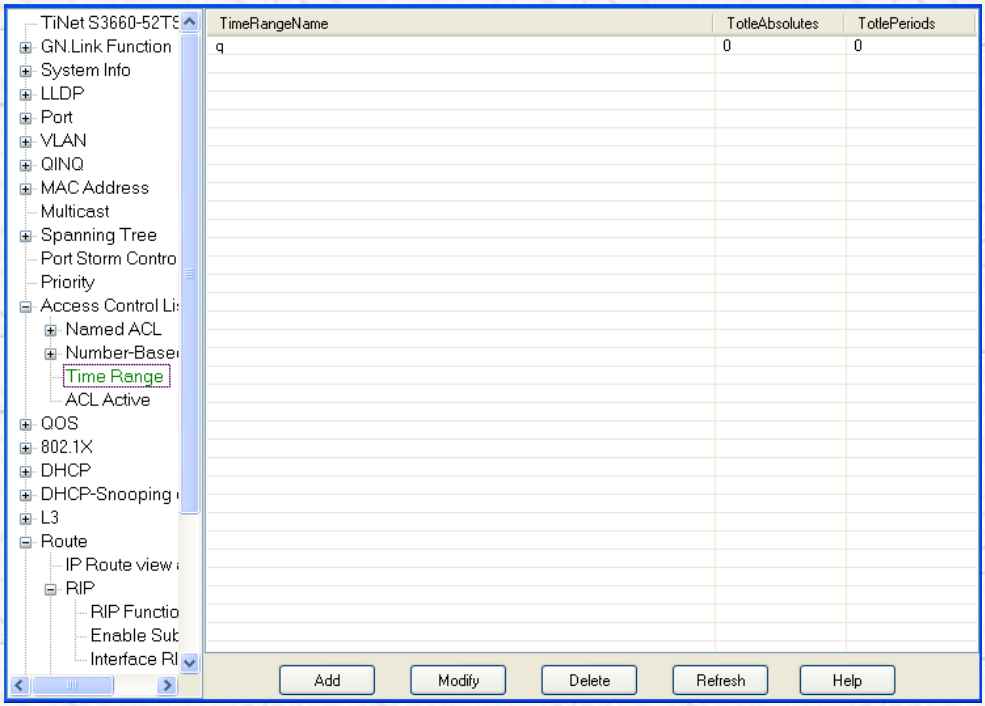


Figure17-10timebucket Configuration interface

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将 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.

17.4ACL active setting

Configuration interface as follows :

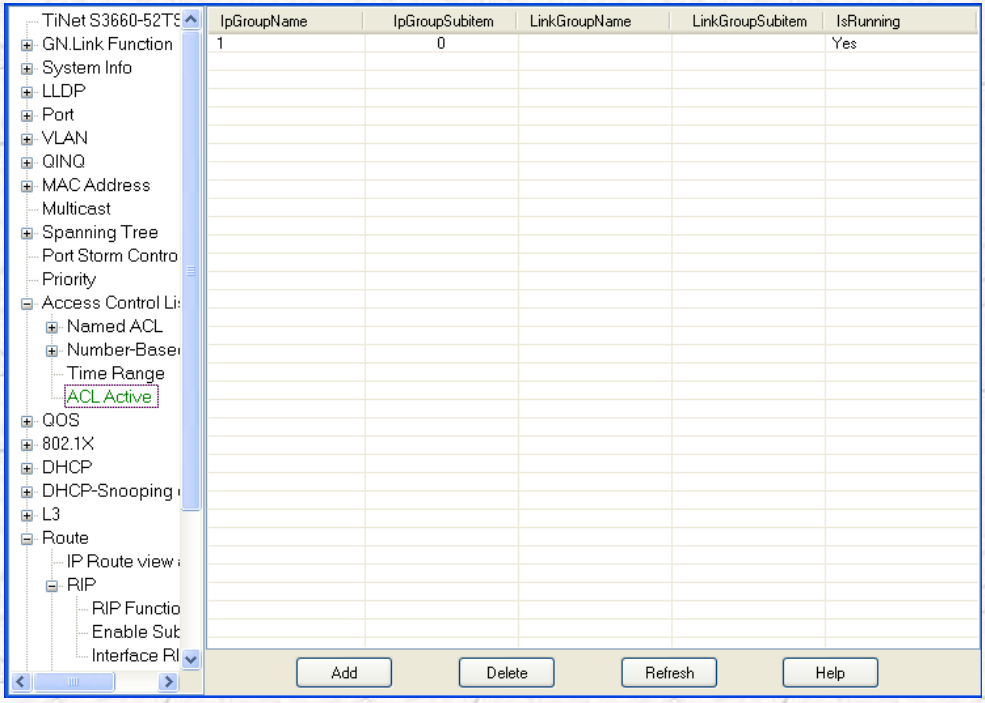


Figure17-11ACL active settings

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

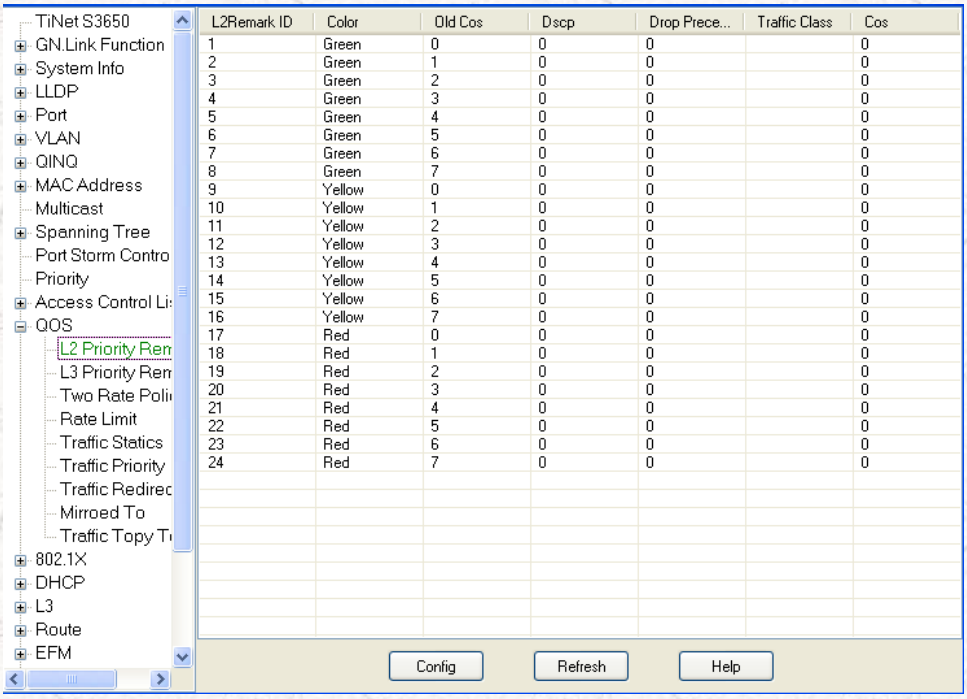
Quality of service (quality of service,abbreviation is QoS) is the convention about Transmission and sharing of information between network and user or among users with network communication Transmission and sharing of information.It includes that all combination indicating the attribute of quality of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

18.1Layer 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
1	Green	0	0	0		0
2	Green	1	0	0		0
3	Green	2	0	0		0
4	Green	3	0	0		0
5	Green	4	0	0		0
6	Green	5	0	0		0
7	Green	6	0	0		0
8	Green	7	0	0		0
9	Yellow	0	0	0		0
10	Yellow	1	0	0		0
11	Yellow	2	0	0		0
12	Yellow	3	0	0		0
13	Yellow	4	0	0		0
14	Yellow	5	0	0		0
15	Yellow	6	0	0		0
16	Yellow	7	0	0		0
17	Red	0	0	0		0
18	Red	1	0	0		0
19	Red	2	0	0		0
20	Red	3	0	0		0
21	Red	4	0	0		0
22	Red	5	0	0		0
23	Red	6	0	0		0
24	Red	7	0	0		0

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.

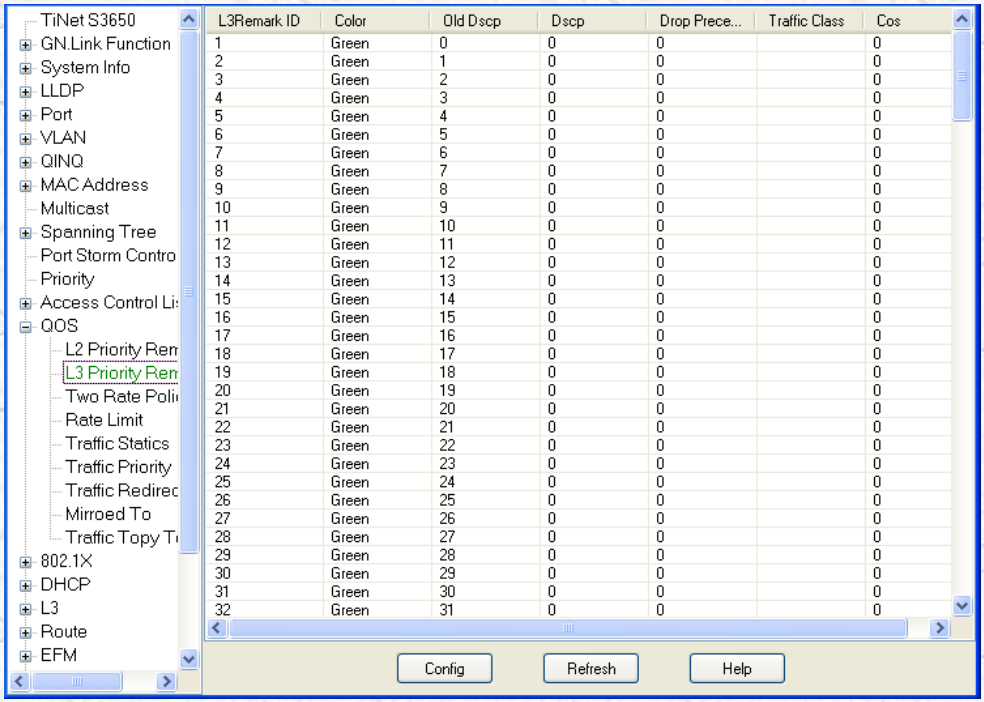
Click " **refresh** " button ,the system will acquire latest data from device once again.

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

18.2Layer3 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
1	Green	0	0	0		0
2	Green	1	0	0		0
3	Green	2	0	0		0
4	Green	3	0	0		0
5	Green	4	0	0		0
6	Green	5	0	0		0
7	Green	6	0	0		0
8	Green	7	0	0		0
9	Green	8	0	0		0
10	Green	9	0	0		0
11	Green	10	0	0		0
12	Green	11	0	0		0
13	Green	12	0	0		0
14	Green	13	0	0		0
15	Green	14	0	0		0
16	Green	15	0	0		0
17	Green	16	0	0		0
18	Green	17	0	0		0
19	Green	18	0	0		0
20	Green	19	0	0		0
21	Green	20	0	0		0
22	Green	21	0	0		0
23	Green	22	0	0		0
24	Green	23	0	0		0
25	Green	24	0	0		0
26	Green	25	0	0		0
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.

18.3Three 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 Functiic of three color marker of double rate.

Configuration interface as follows :

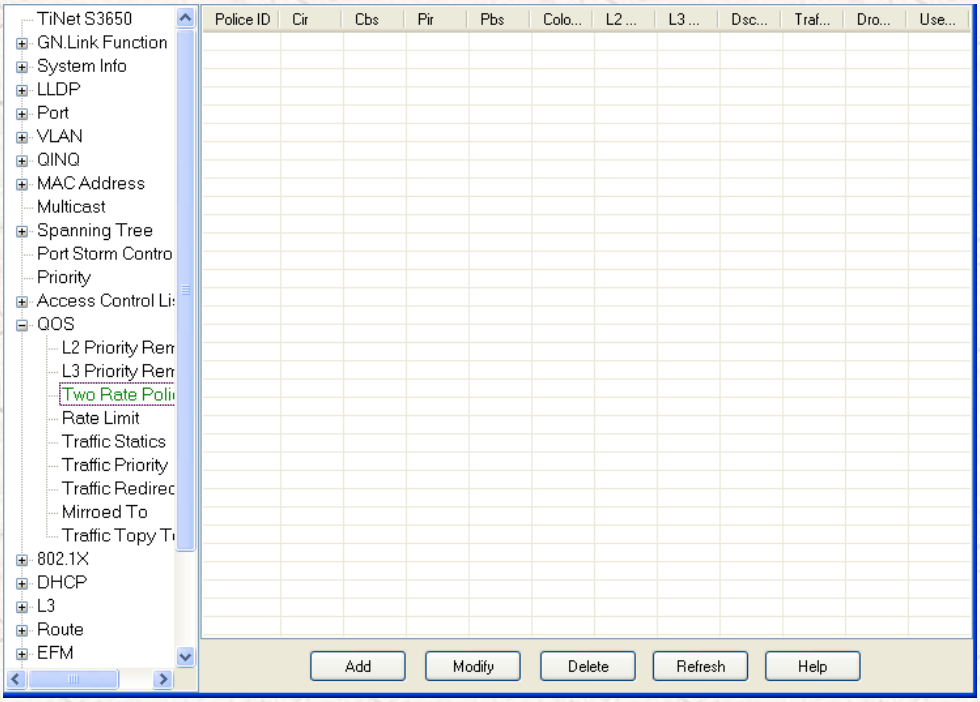


Figure18-3Three color marker of double rate configuration main interface

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 Awared 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 ablout 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 :

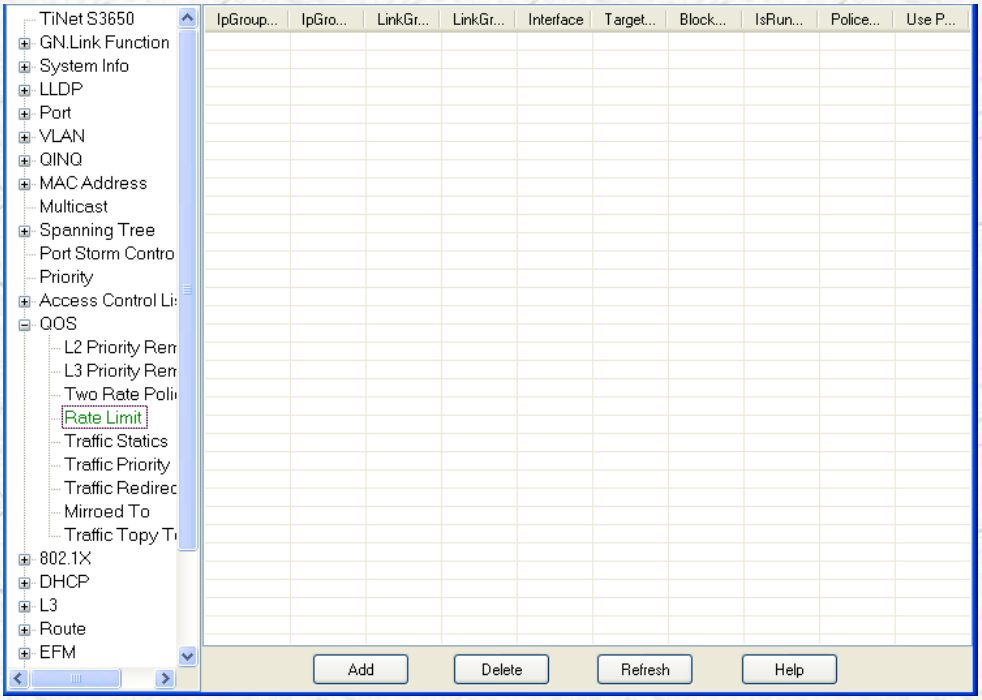


Figure18-4Flow control TiNetS3650 mian Configuration interface

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 .

18.5Flow control（S3750)

Flow control TiNetS3750 Configuration interface as follows :

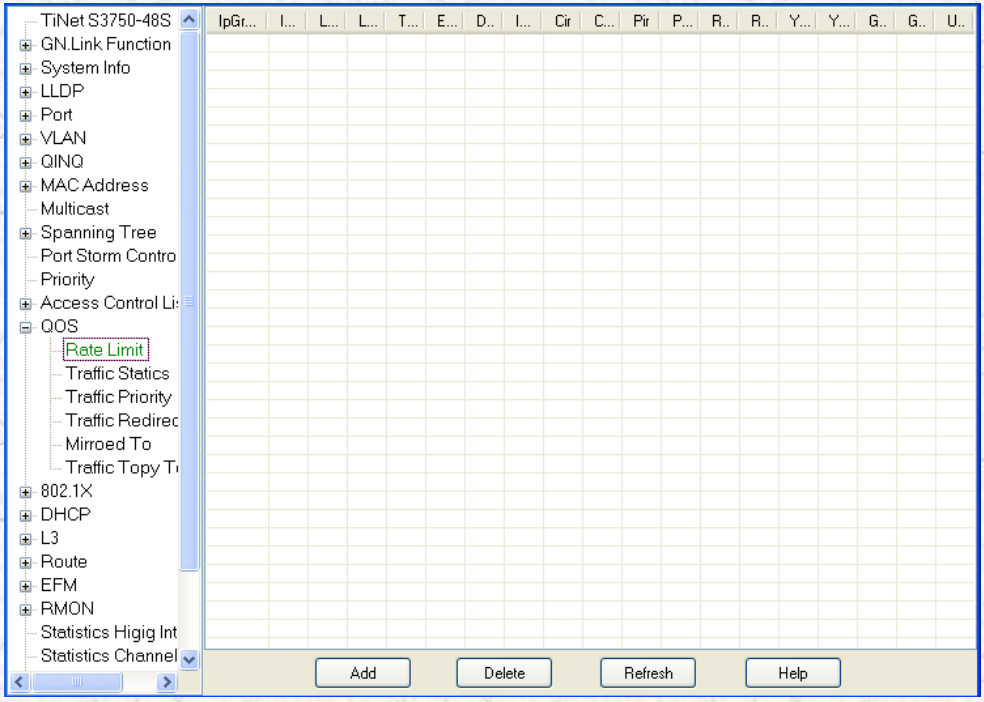


Figure18-5Flow control of TiNetS3750 main Configuration interface

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 :

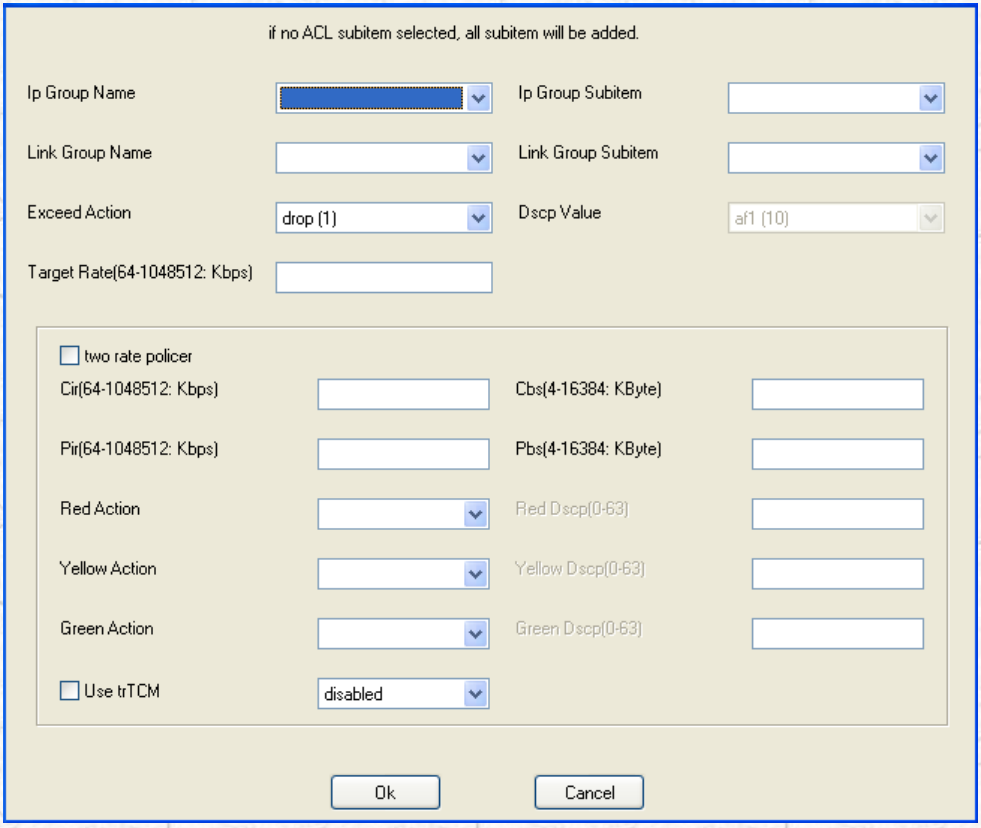


Figure18-6Adding flow control of S3750 sub Configuration interface

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 :

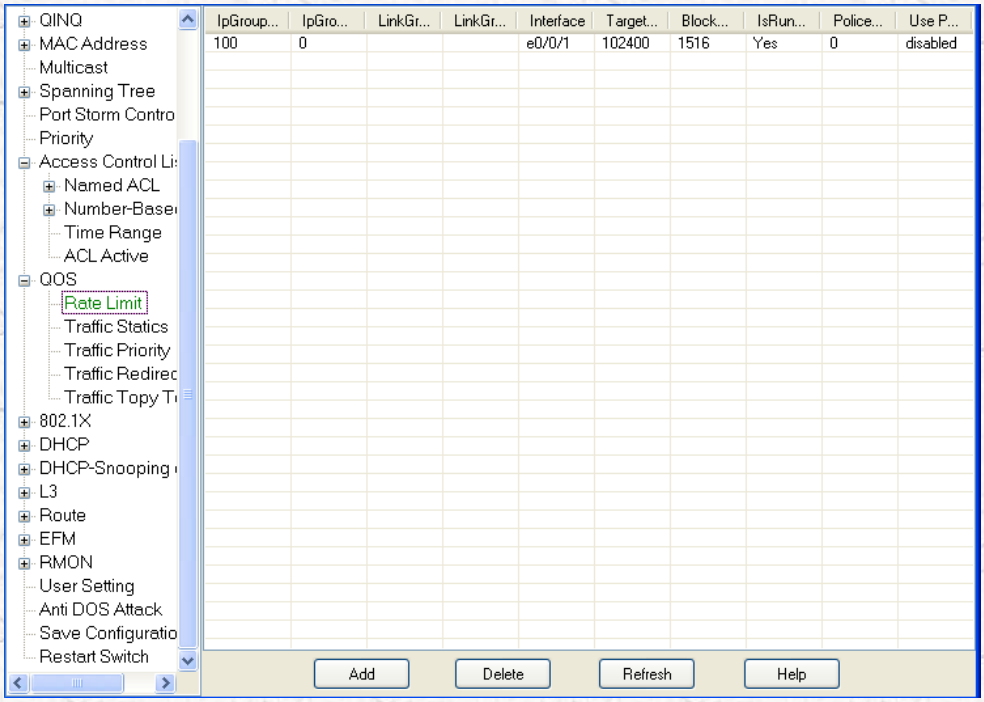


Figure18-7Flow control Configuration interface

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 :

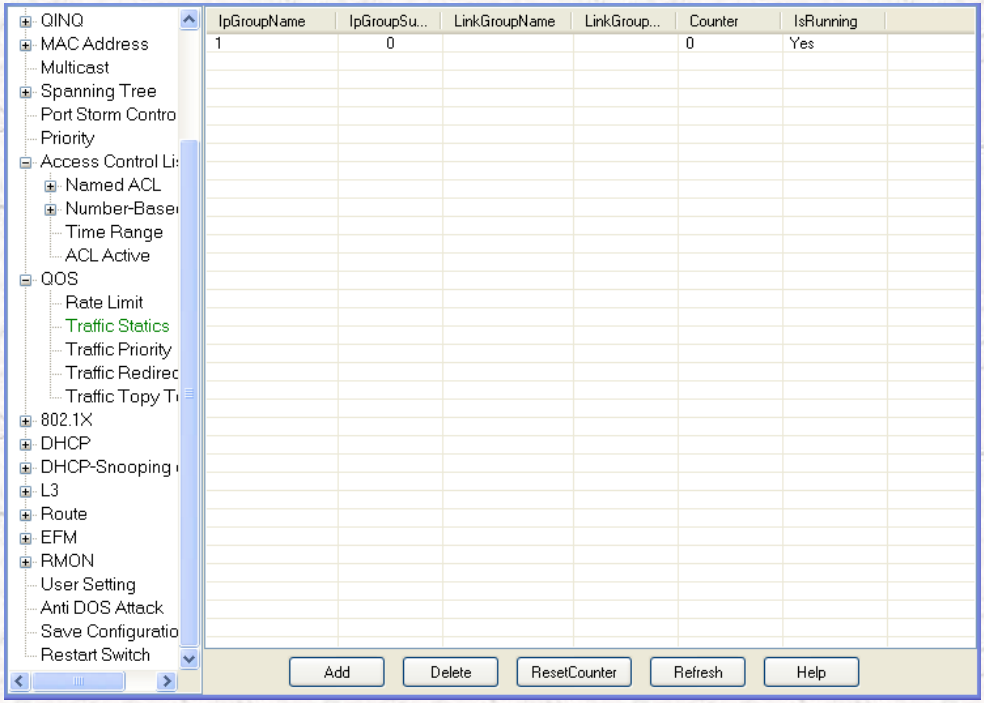


Figure18-8Flow count Configuration interface

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

Runnning or not:runnning 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.

18.8Priority tagged configuration

Configuration interface as follows :

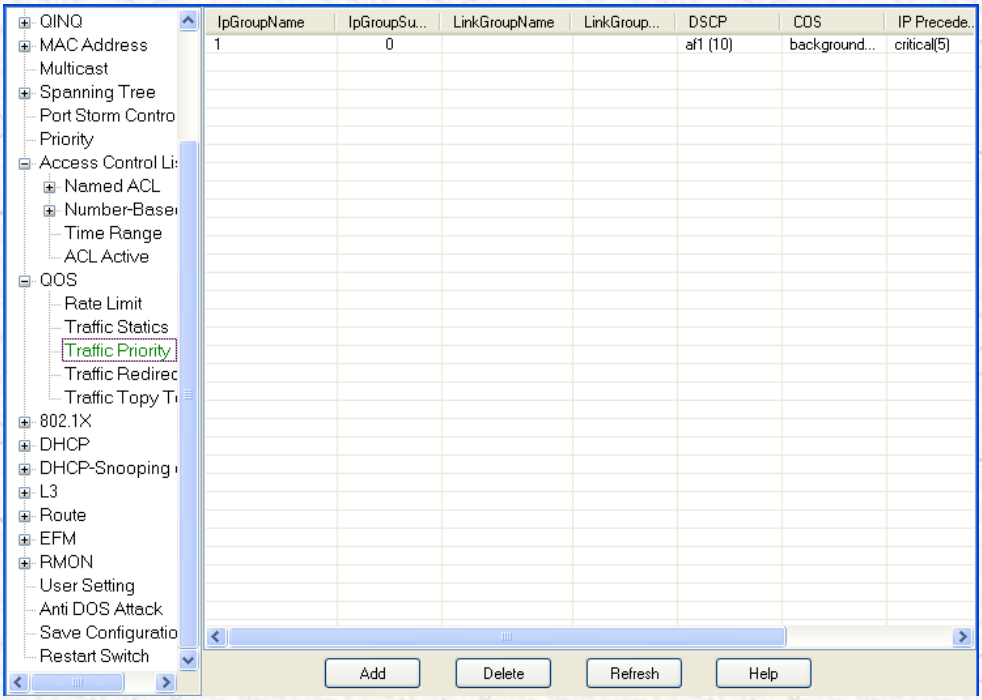


Figure18-9Priority tagged configuration interface

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.

18.9Message redirected configuration

Configuration interface as follows :

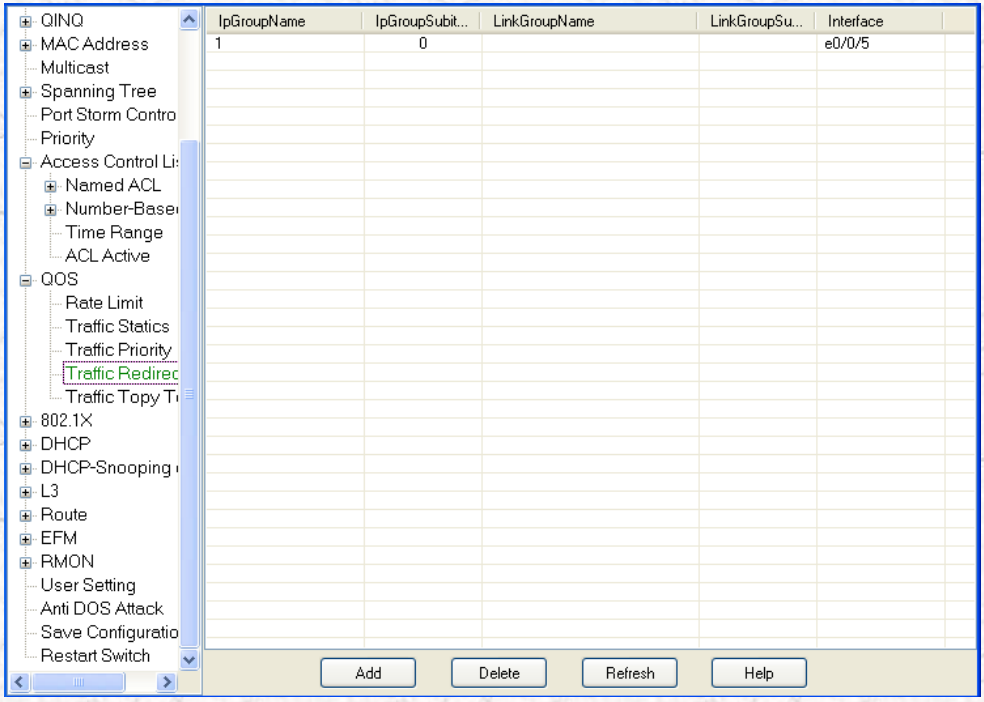


Figure18-10Message redirected configuration interface

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.

18.10Flow mirror configuration

Configuration interface as follows :

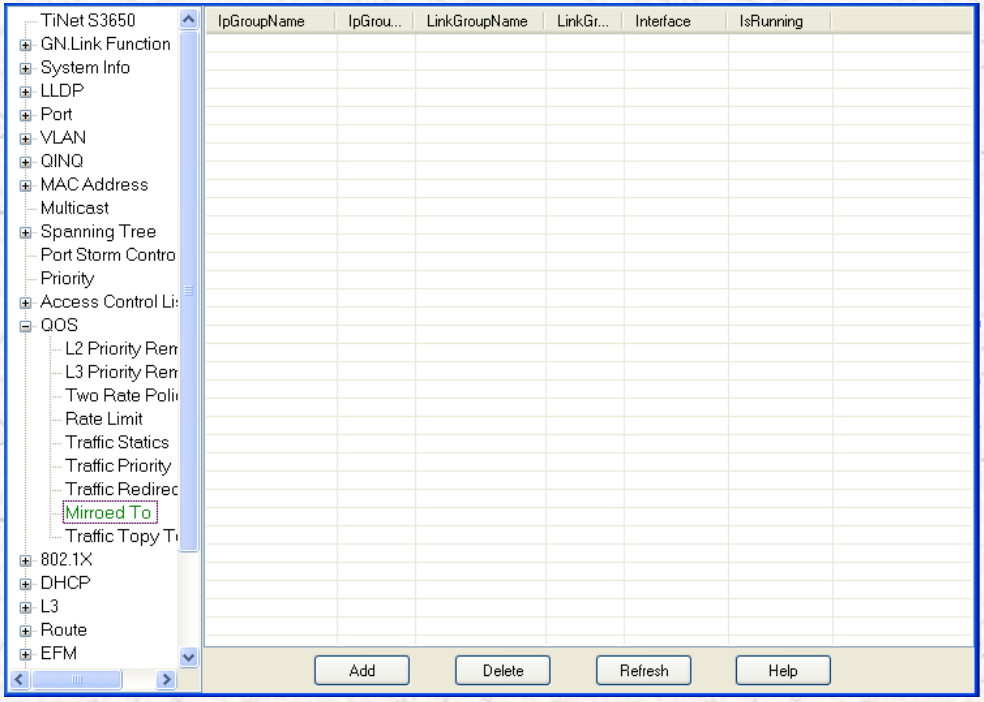


Figure18-11Flow mirror Configuration interface

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.

18.11Message copying to CPU

Configuration interface as follows :

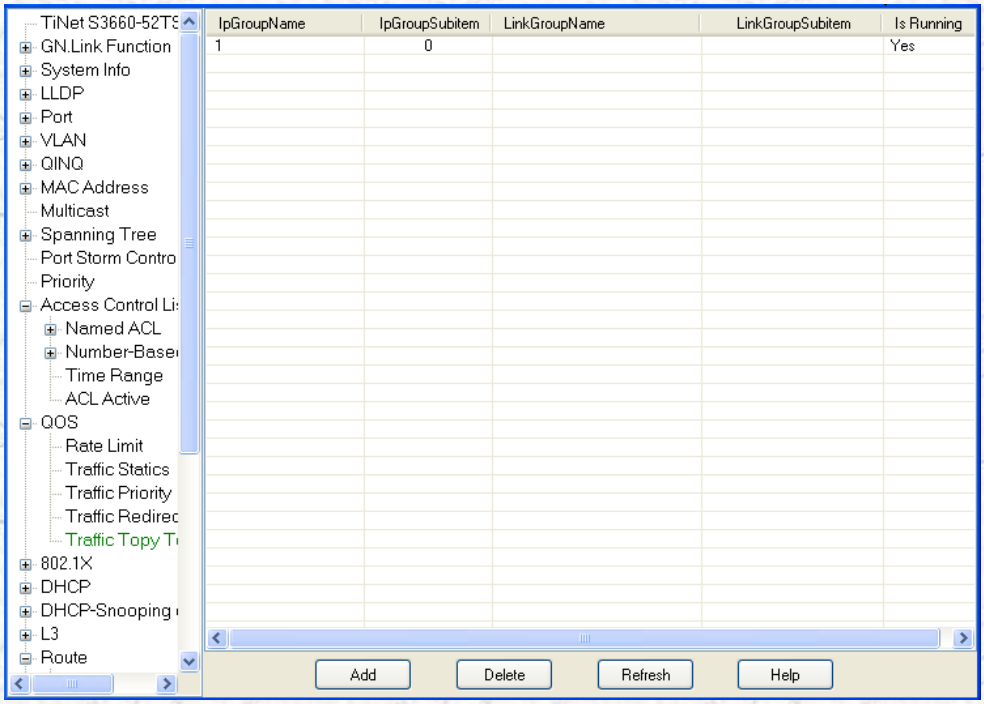


Figure18-12Message copying to CPU Configuration interface

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

19.1Basic configuration

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

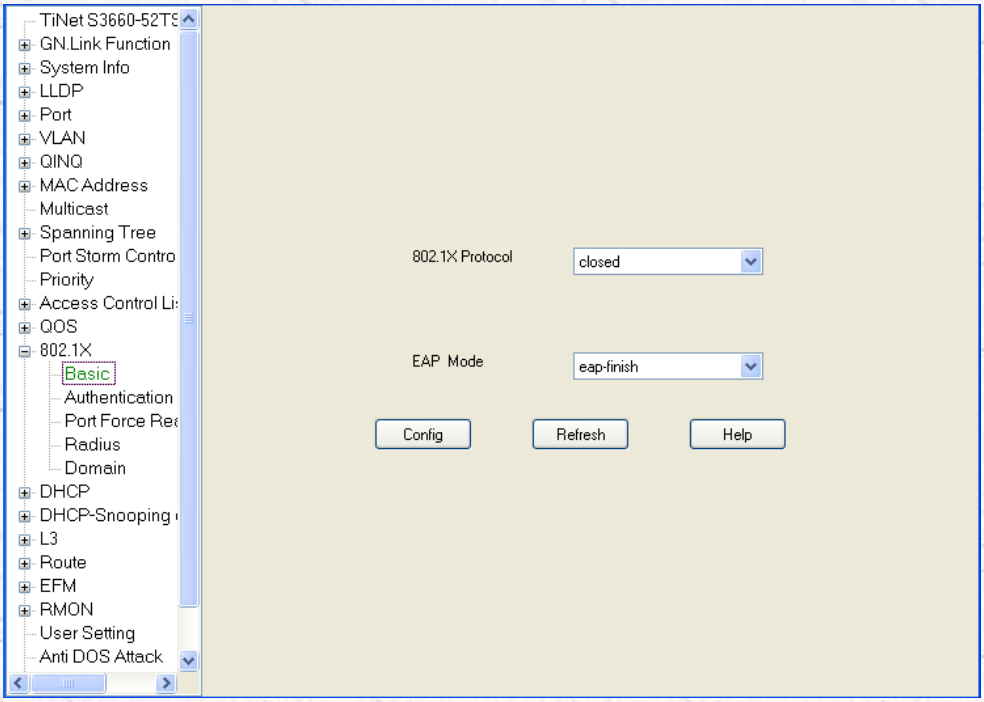


Figure19-1Basic configuration main interface

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 :

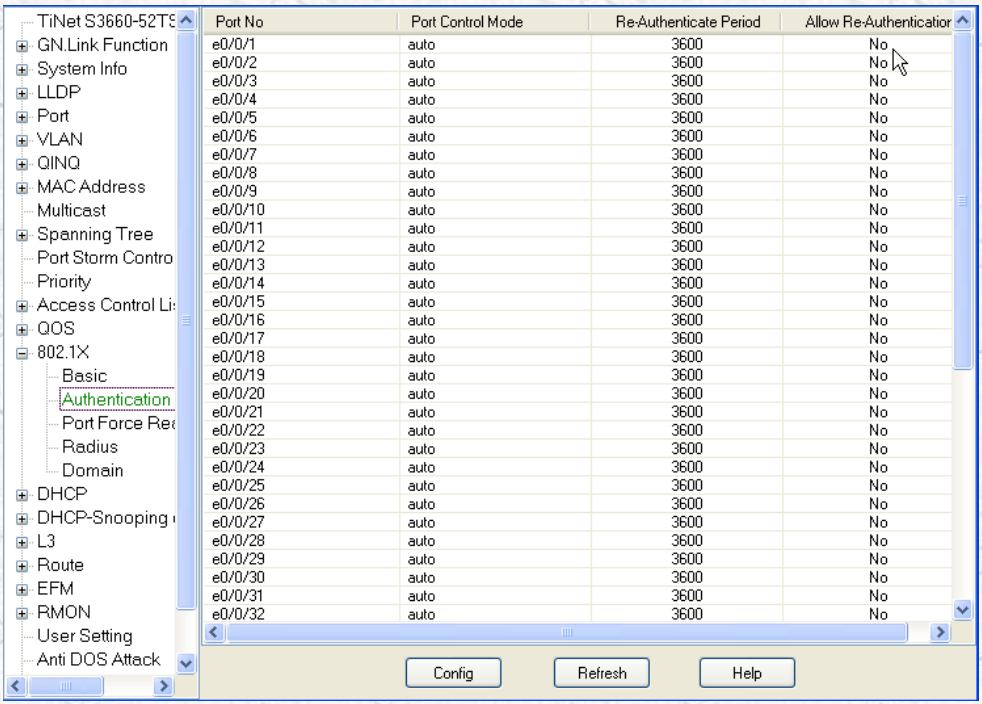


Figure19-2Port configuration main interface

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 pertmit 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 :

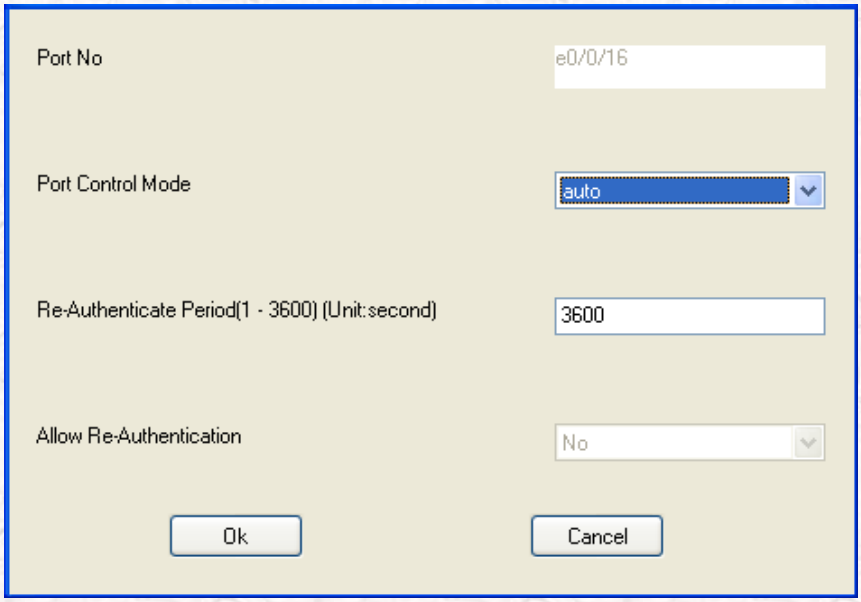


Figure19-3Parameter configuration interface

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 :

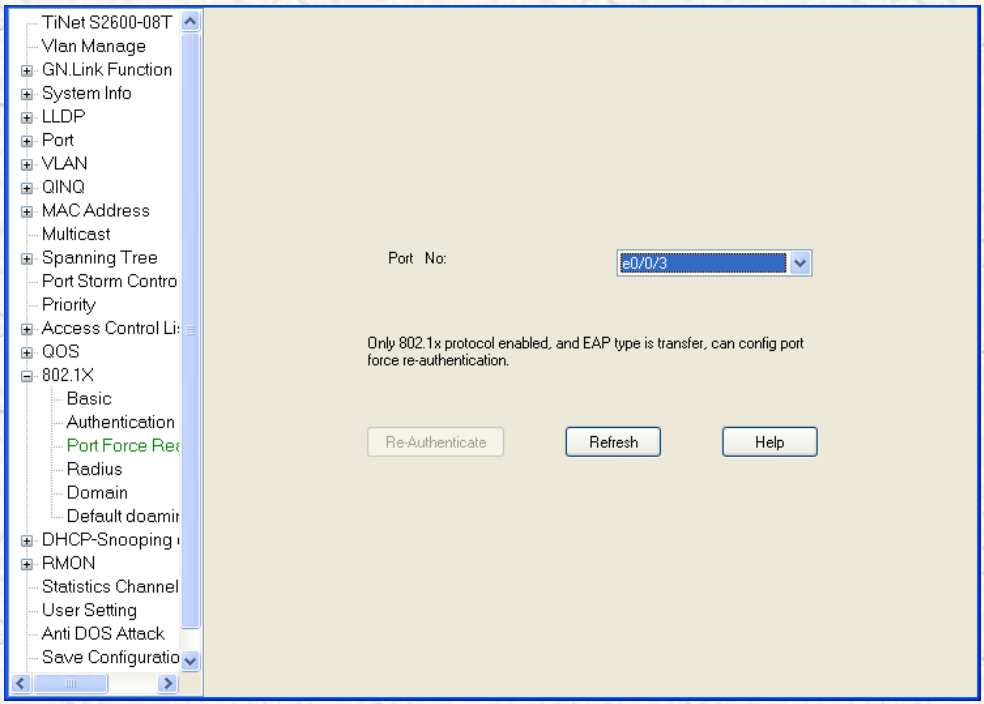


Figure19-4Port coerced reauthentication configuration main interface

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.

19.4Radius configuration

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

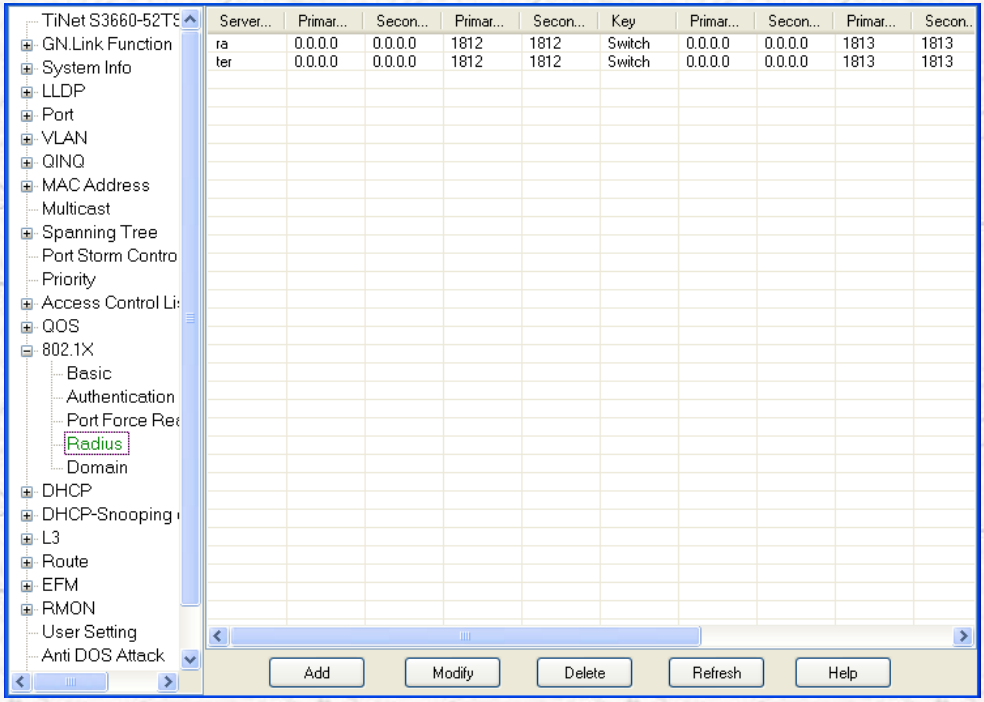


Figure19-5Radius configuration main interface

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.

19.5Domain name configuration

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

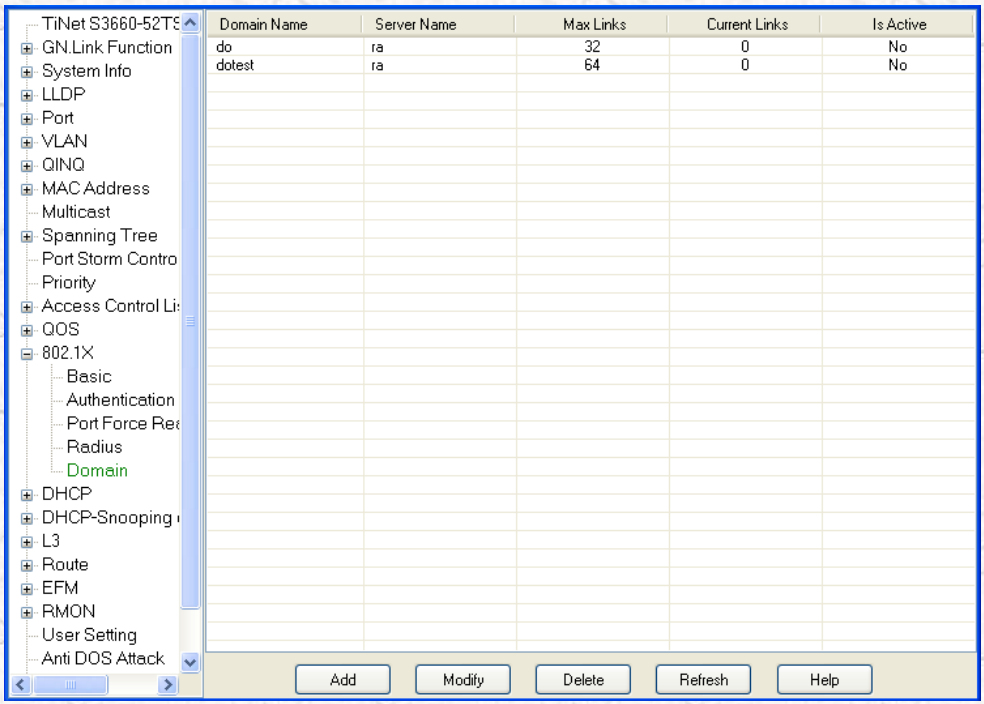


Figure19-6Domain name configuration main interface

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 :

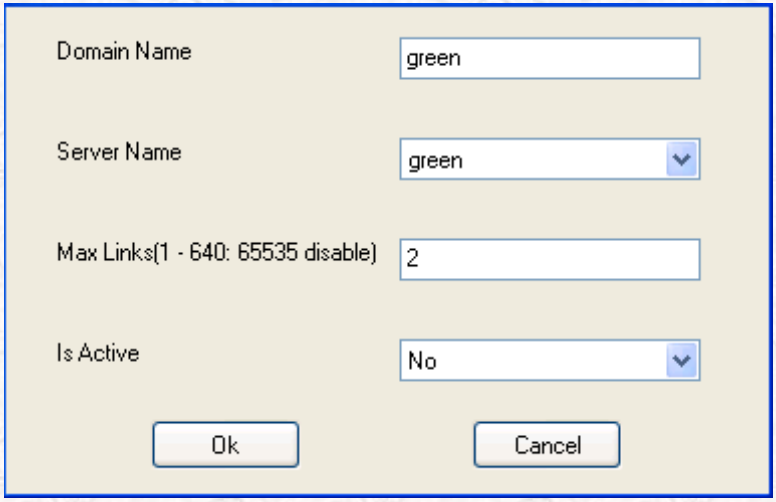


Figure19-7Parameter configuration interface

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.

19.6Default domain name

Configuration interface as follows :

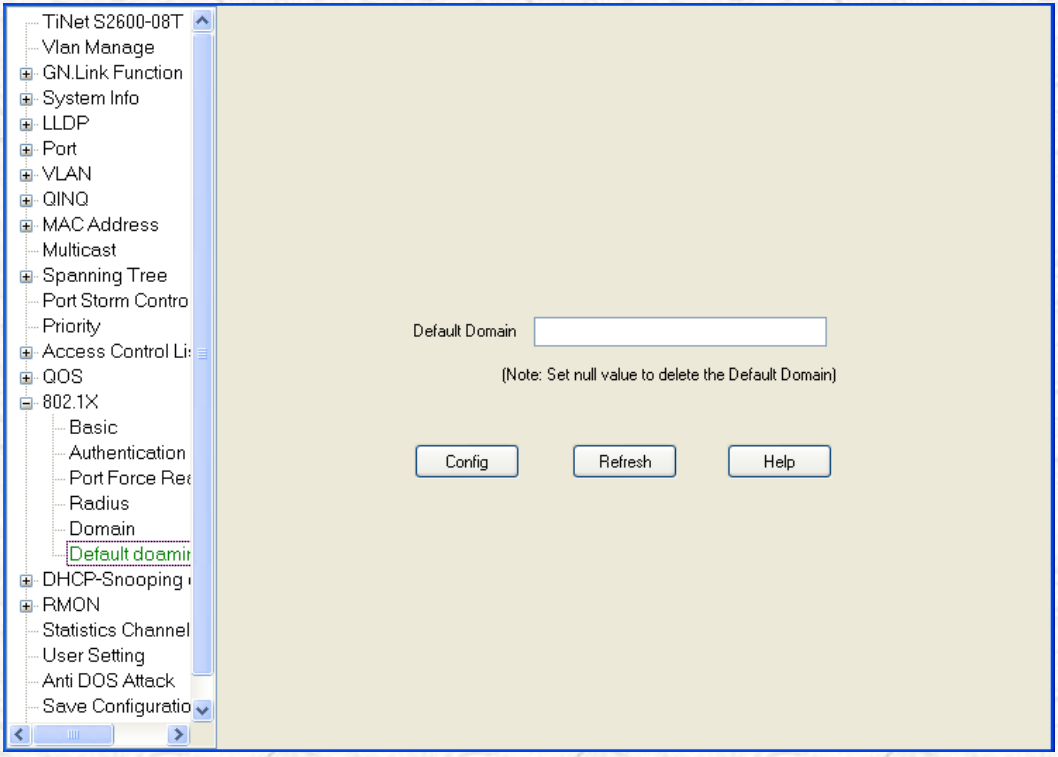


Figure19-8Default domain name configuration interface

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

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:

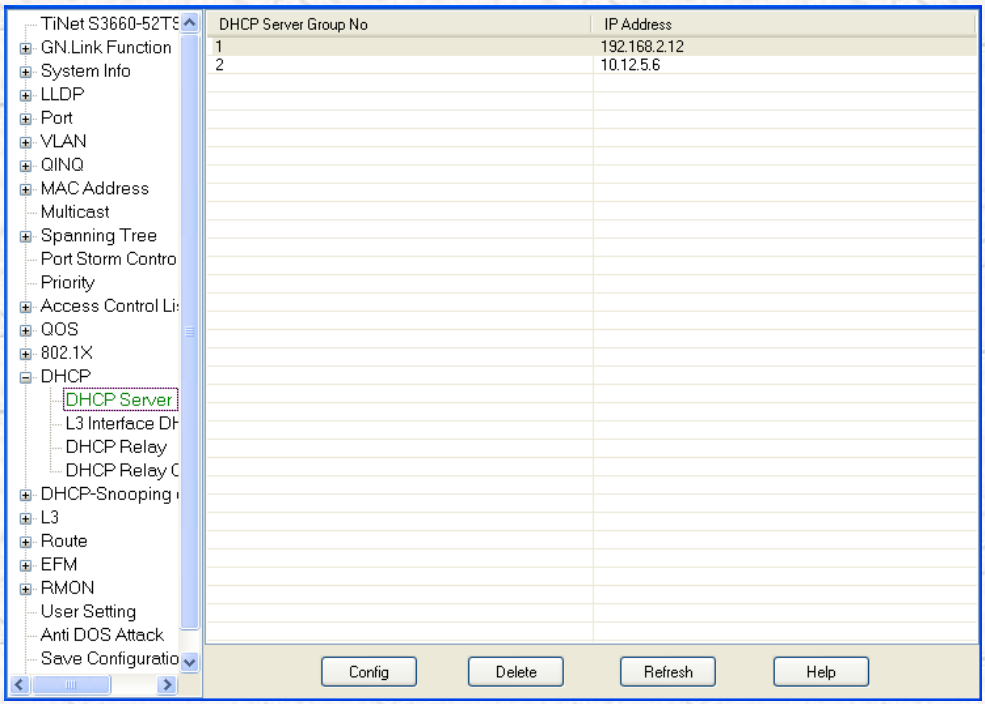


Figure20-1DHCP server configuration interface

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

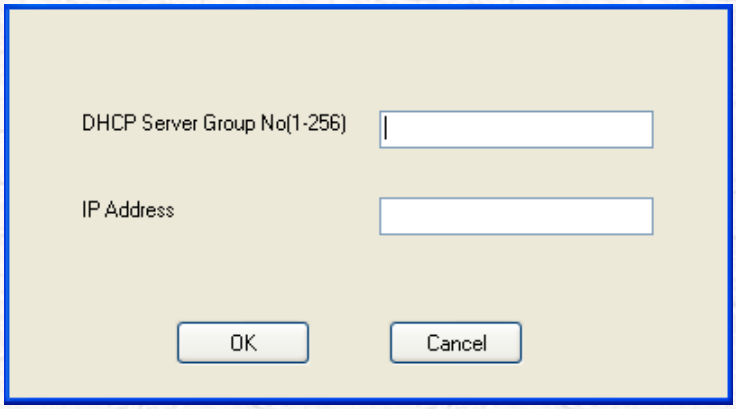


Figure20-2Parameter configuration interface

IP address can't be same as IP address of existing DHCP server, and it can't be in the network segment 127 ,also can't be address of class D or class E above 224 .

Click " **delete** " button , system delete selected DHCP server , 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.

20.2Layer-3 interface DHCP server configuration

Configuration interface as follows:

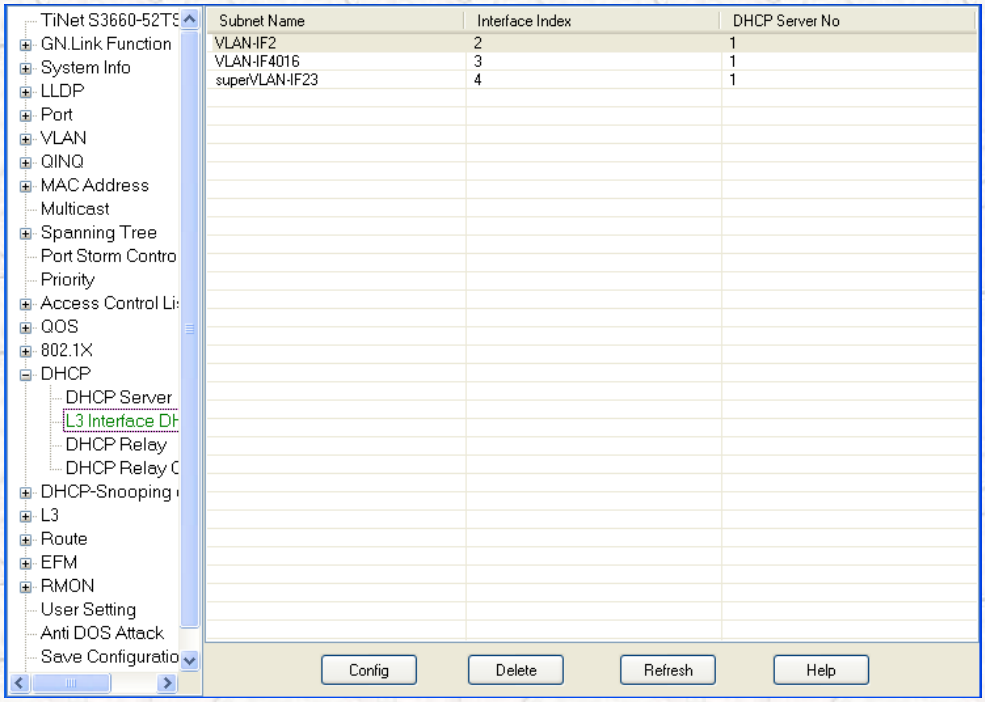


Figure20-3Layer-3 interface DHCP server configuration interface

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

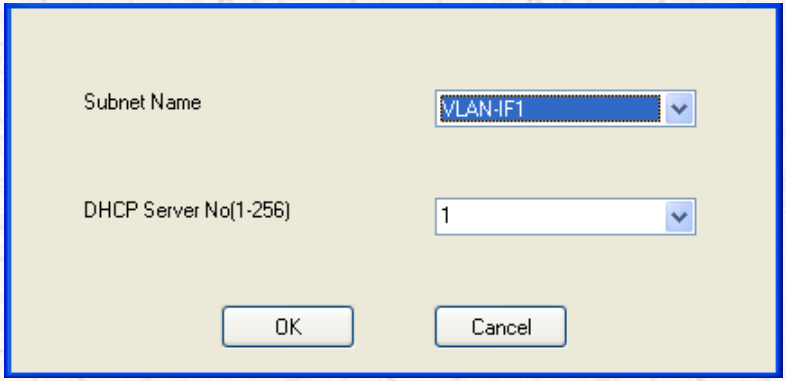


Figure20-4Parameter configuration interface

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 :

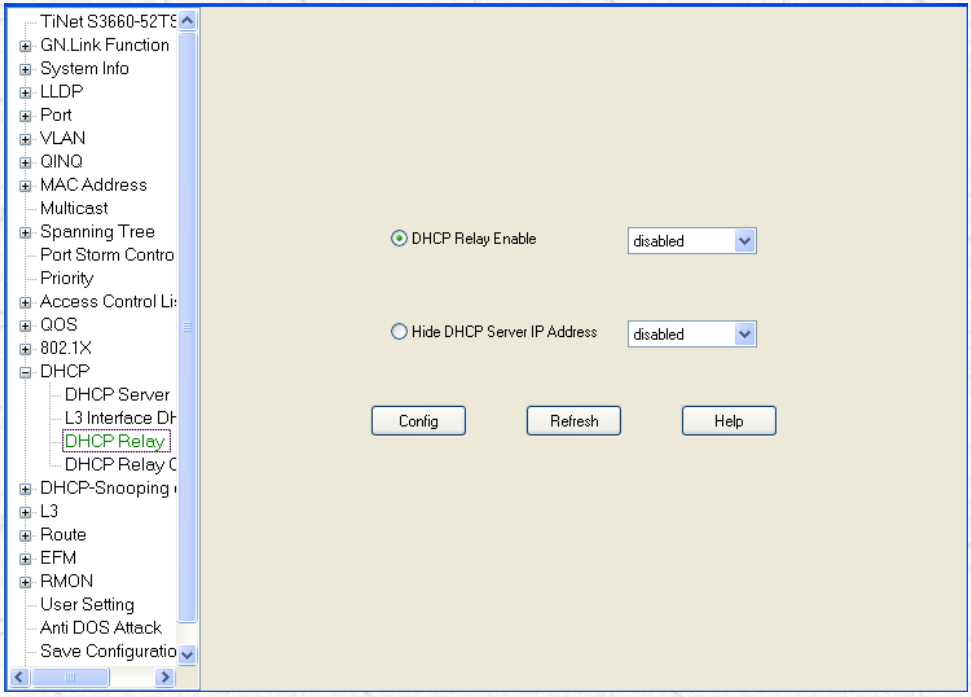


Figure20-5DHCP relay configuration interface

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.

20.4DHCP relay option82 configuration

Configuration interface as follows:

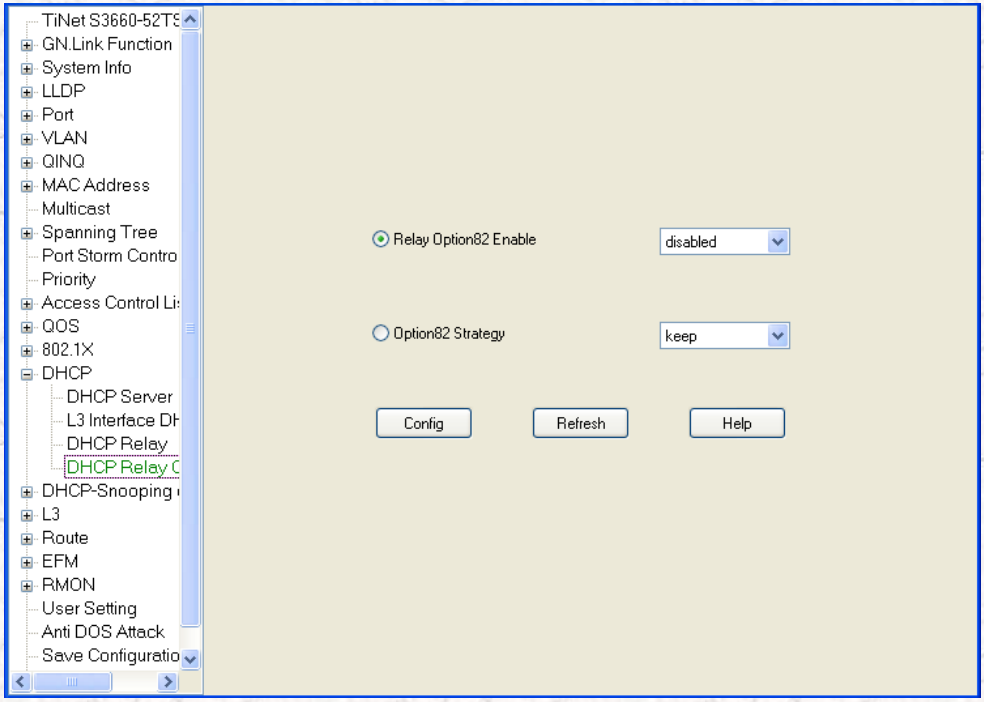


Figure20-6DHCP relay option82 configuration interface

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.

20.5DHCP Port relay option82 configuration

Configuration interface as follows:

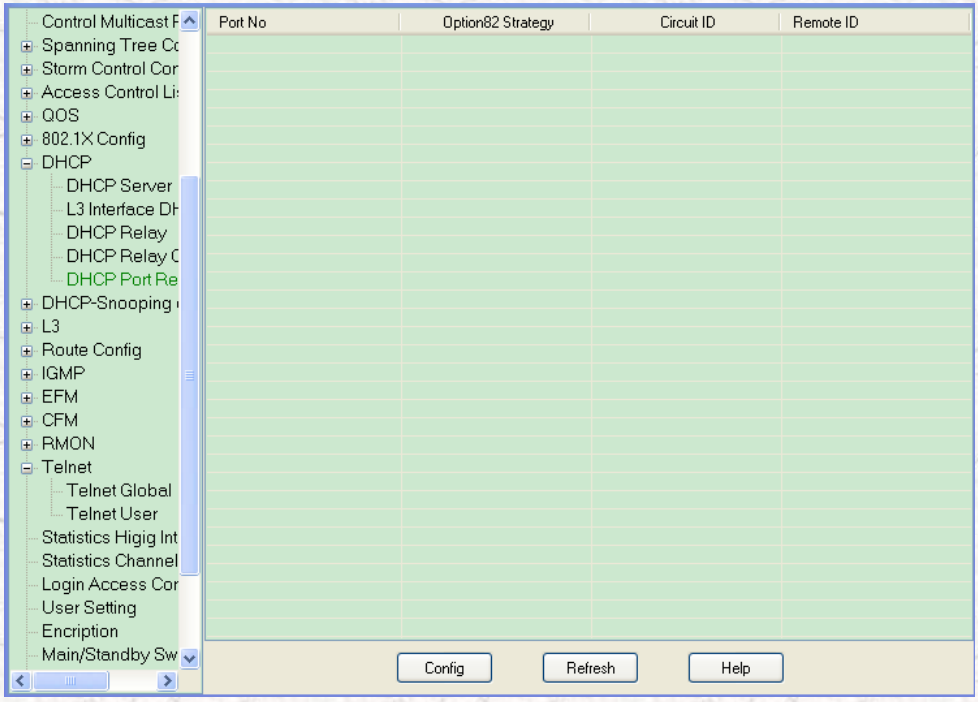


Figure20-7DHCP port relay option82 configuration interface

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

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:

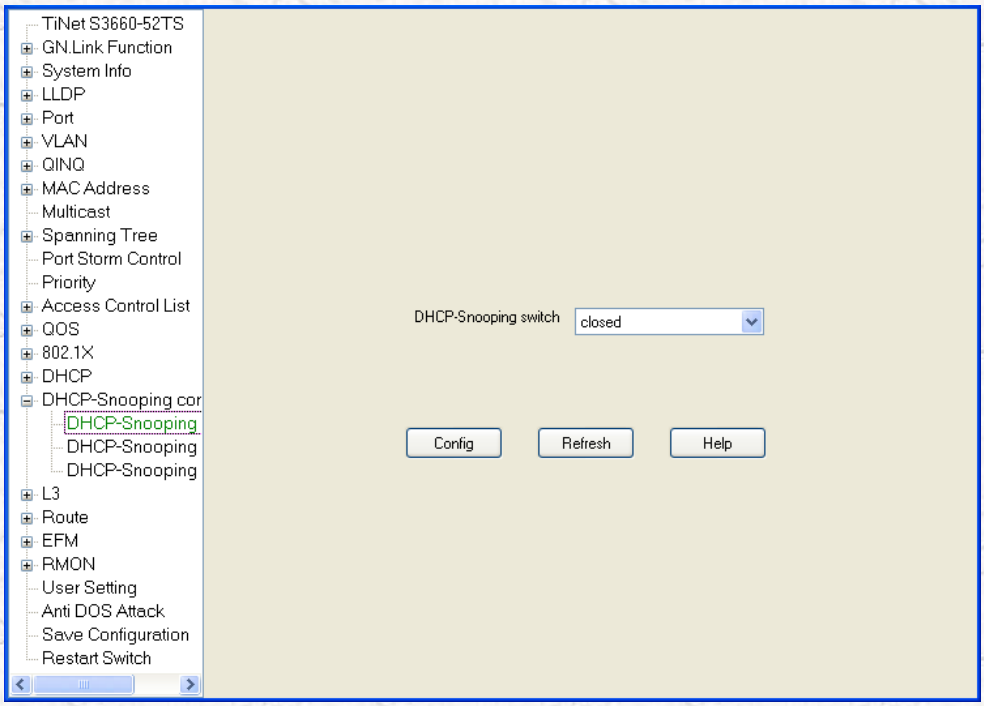


Figure21-1DHCP-Snooping on-off Configuration interface

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:

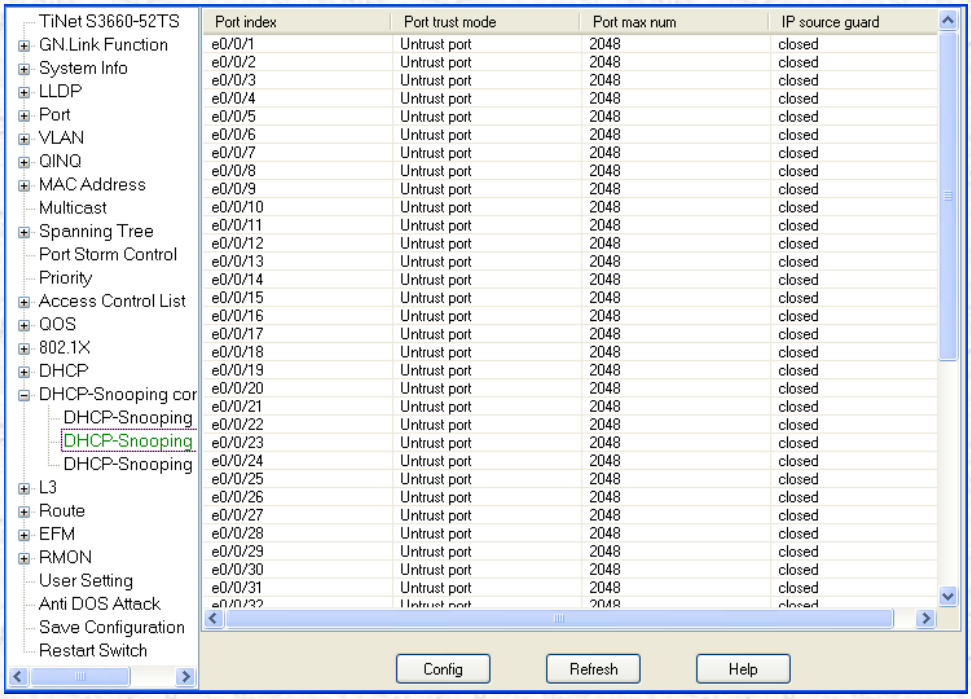


Figure21-2DHCP-Snooping port table Configuration interface

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

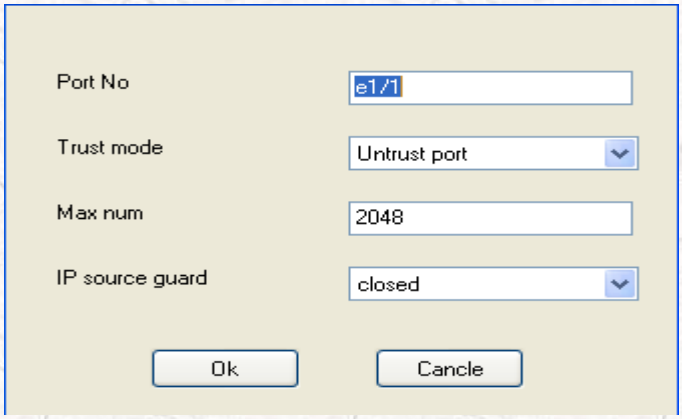


Figure21-3Parameter configuration interface

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:

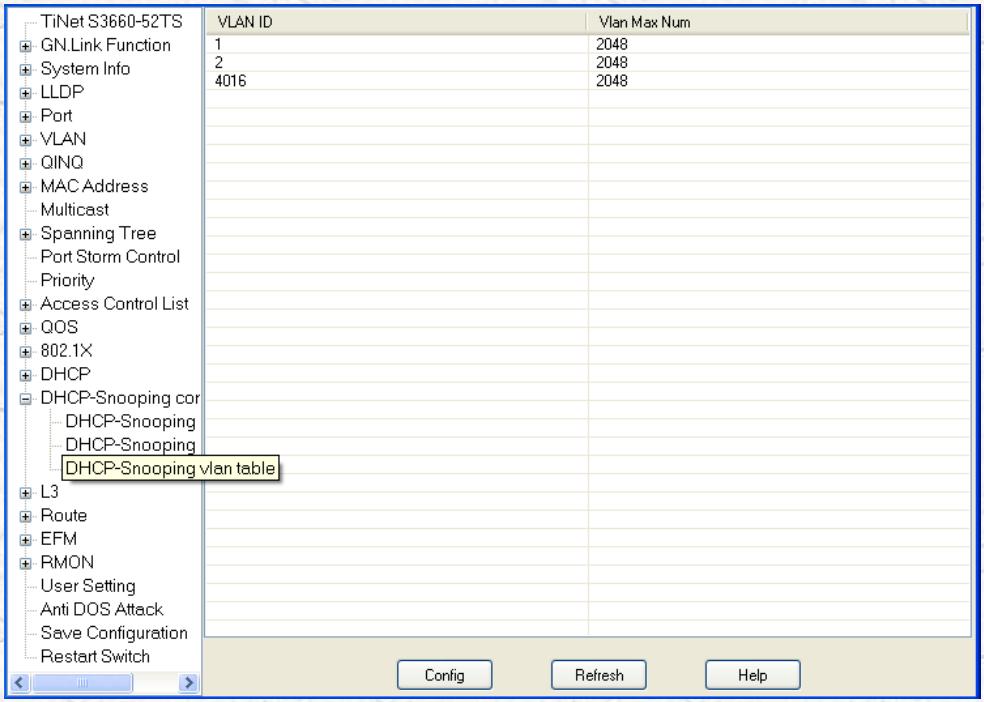


Figure21-4DHCP-Snooping Vlan table Configuration interface

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

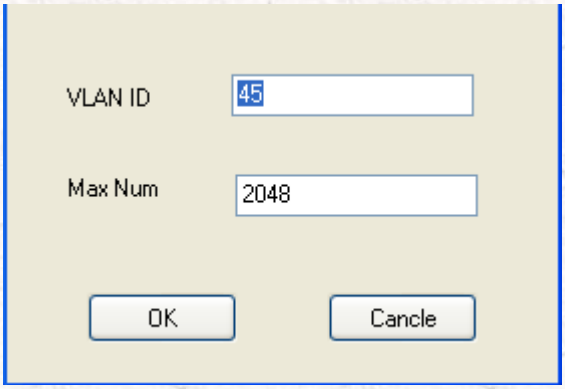


Figure21-5Parameter configuration interface

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 transmiting in layer-2,while hosts are in the different VLAN transmiting in layer-3 .

22.1Layer3 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 includes 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 :

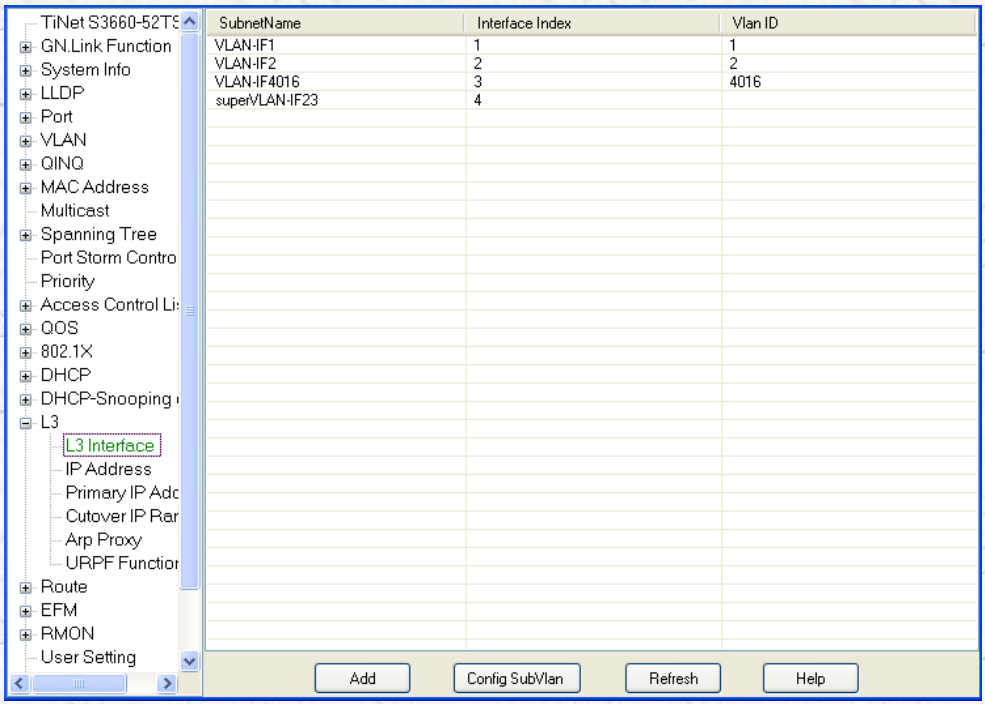


Figure22-1Layer-3 interface configuration

Notess: if there’s no VLAN, user can add VLAN and configure port type of member via VLAN configuration 802.1Q static VLAN configuration.

Click “ add “ button , add a new layer-3 interface .select”VLAN-IF”, add VLAN interface ;select ”superVLAN-IF”, add superVLAN interface . configuration result will be shown after configuration. Configuration interface as follows :

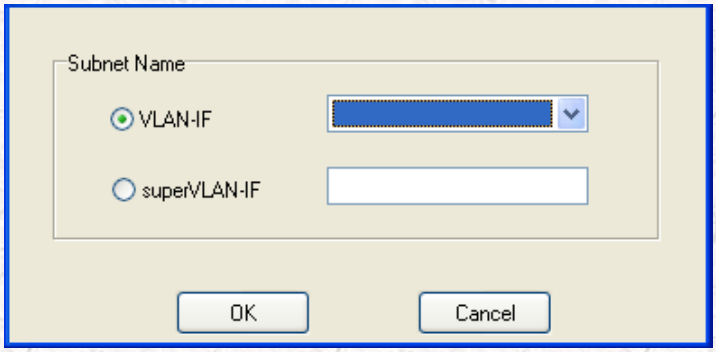


Figure22-2Add layer 3 interface configuration interface

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 :

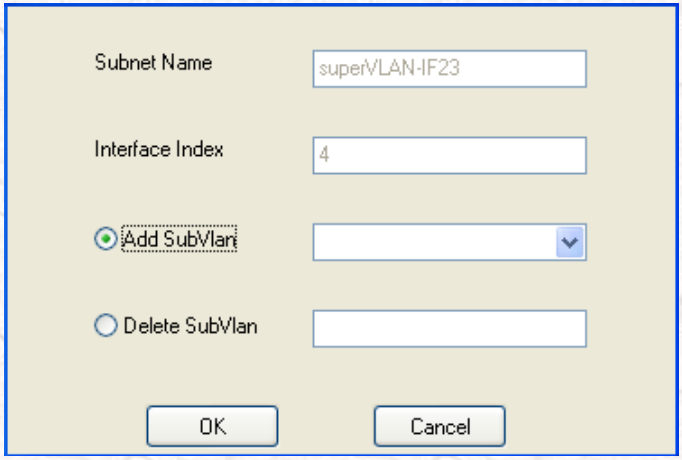


Figure22-3Configuration subVlan interface

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 :

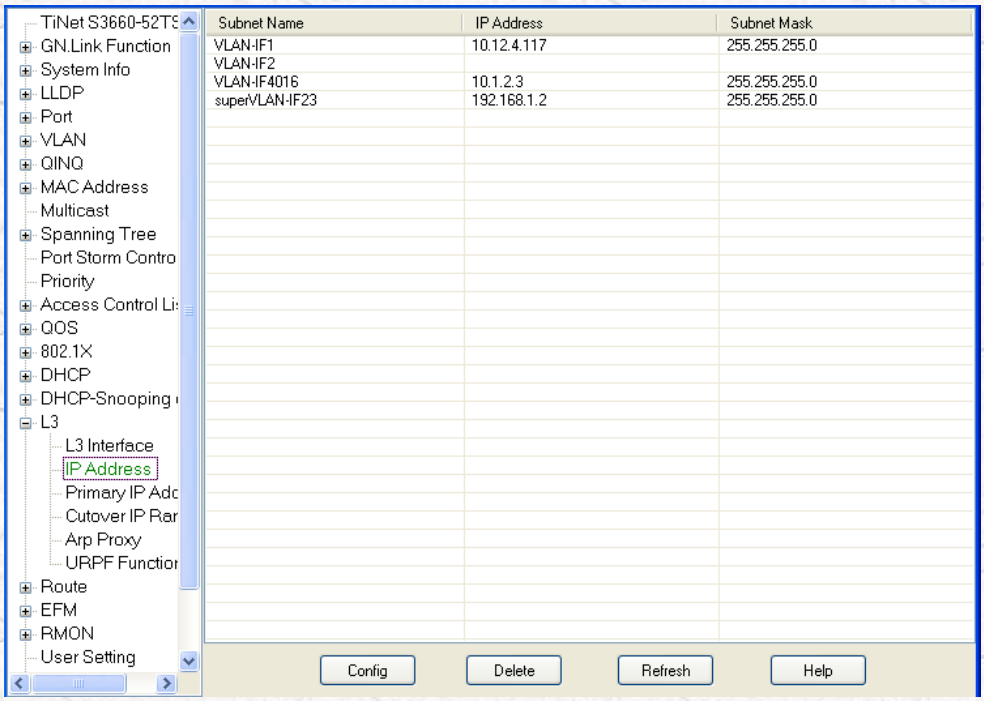


Figure22-4IP address configuration main interface

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

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

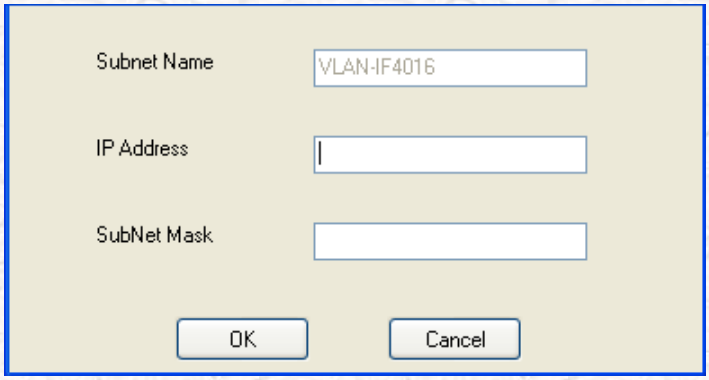


Figure22-5IP address configuration interface

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 :

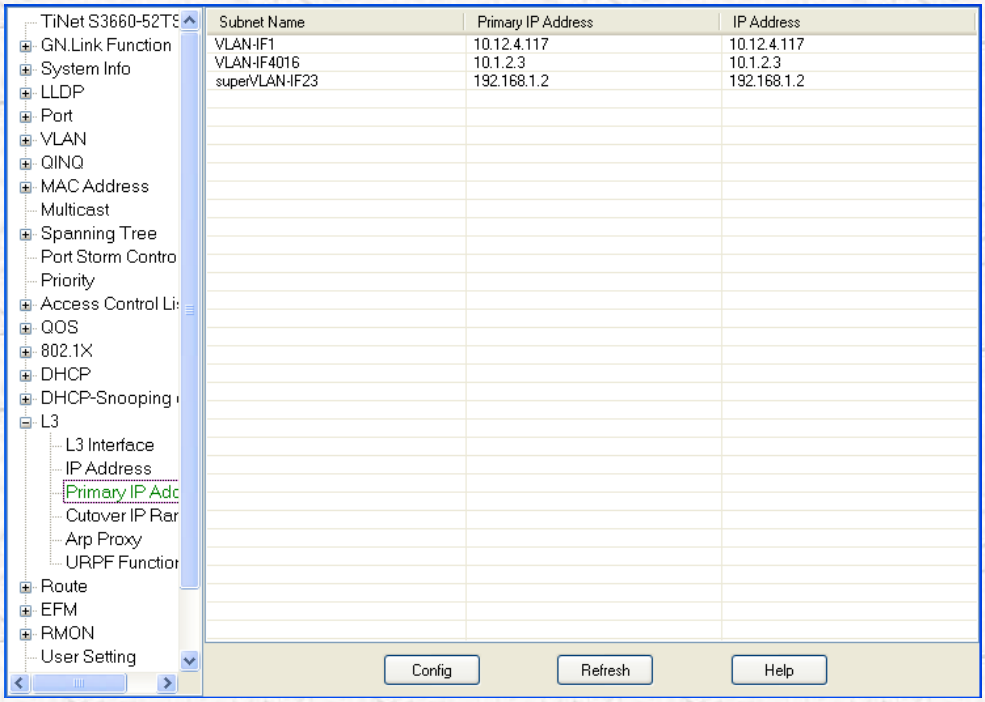


Figure22-6Main IP address Configuration interface

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 .

22.4Access 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:

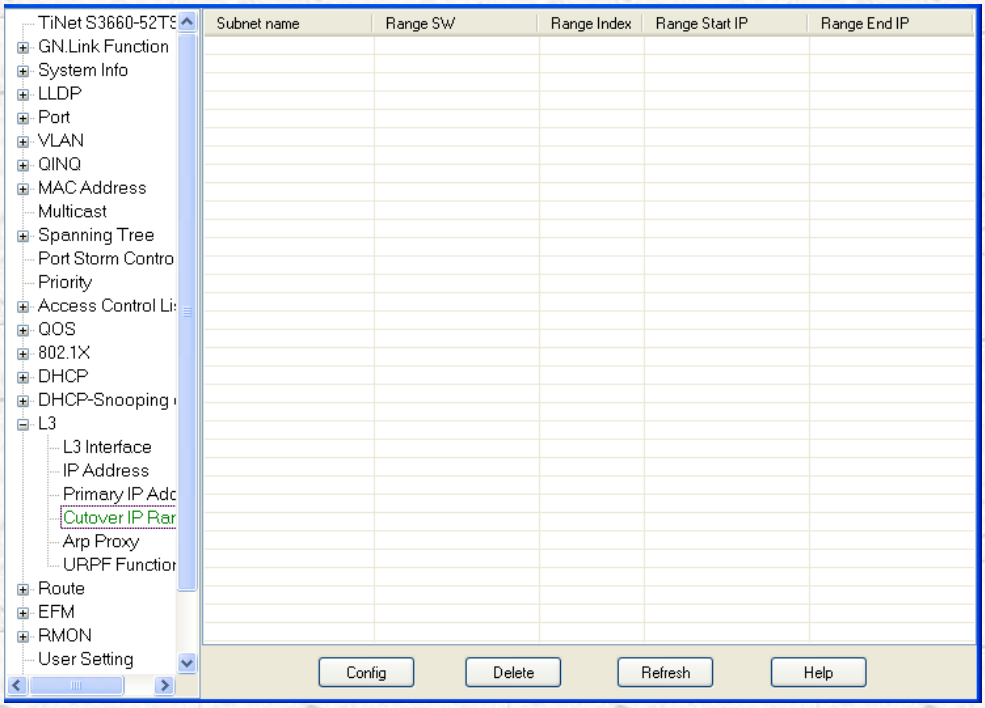


Figure22-7Access IP address range main interface

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

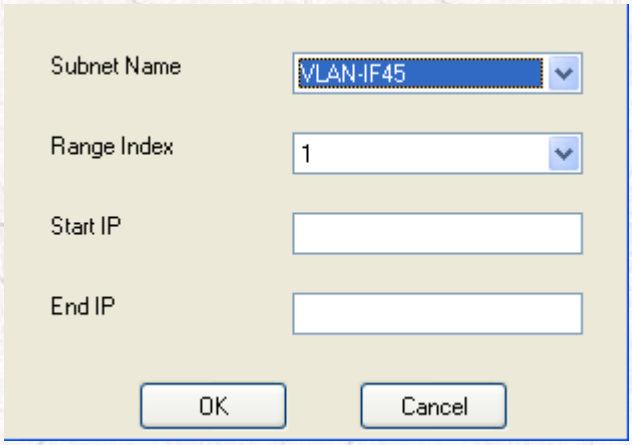


Figure22-8Access IP address range configuration interface

Notess: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 isdisabled,hosts in subVLAN of superVLAN interface can't communicate.The mode of ARP proxy includes :enable and disable. Configuration interface as follows :

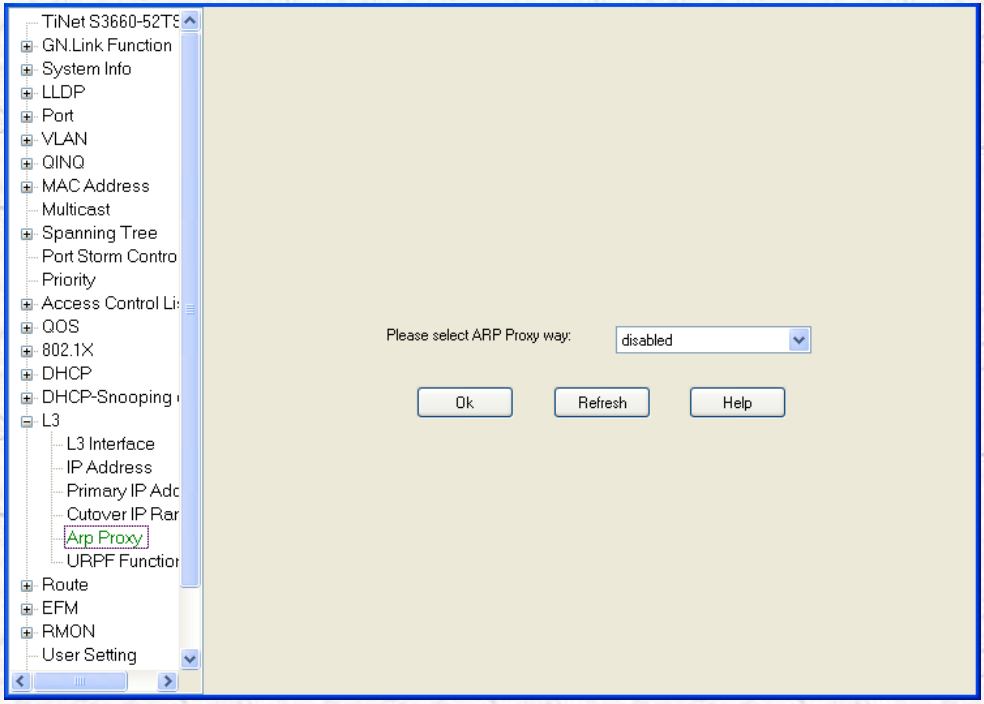


Figure22-9ARP proxy configuration interface

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

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

22.6URPF 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 :

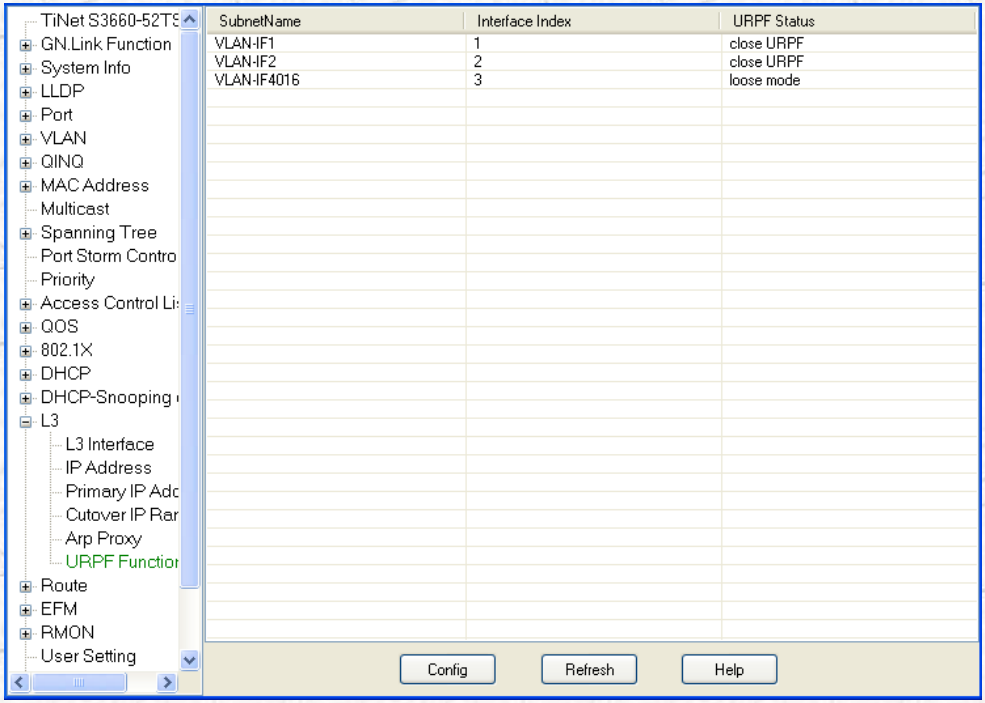


Figure22-10URPF function configuration main interface

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 :

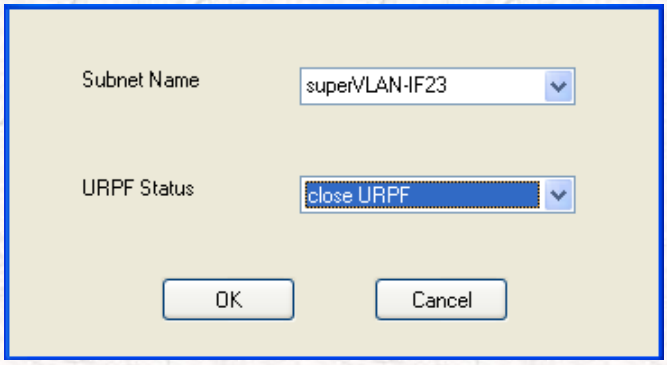


Figure22-11URPF function Configuration interface

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

23.1Global mode

23.1.1 Global mode on-off

Configuration interface as follows:

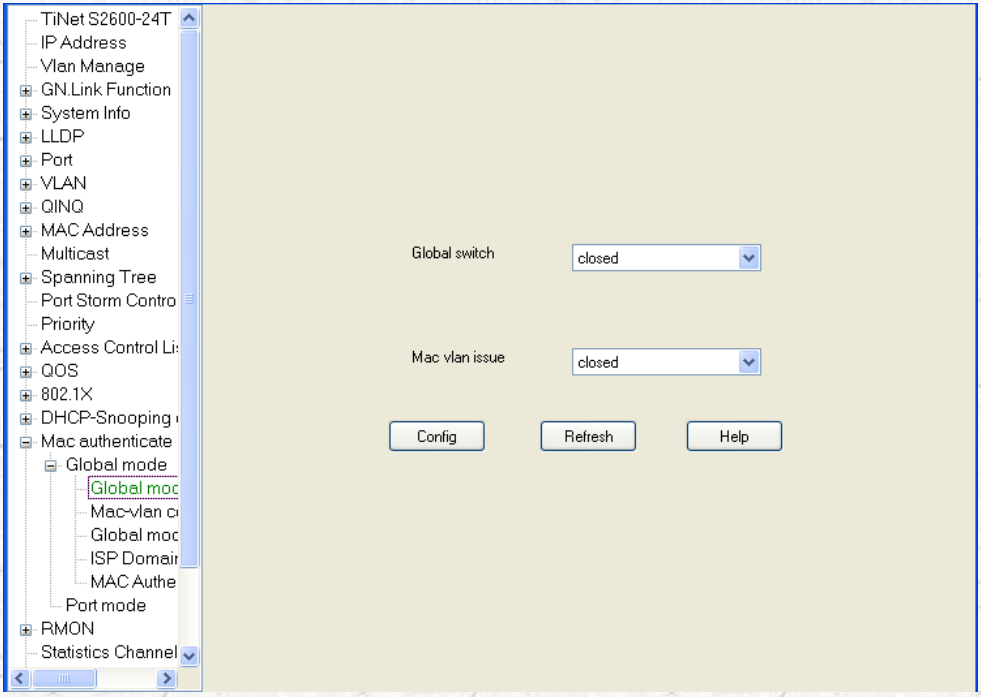


Figure23-1Global mode on-off Configuration interface

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:

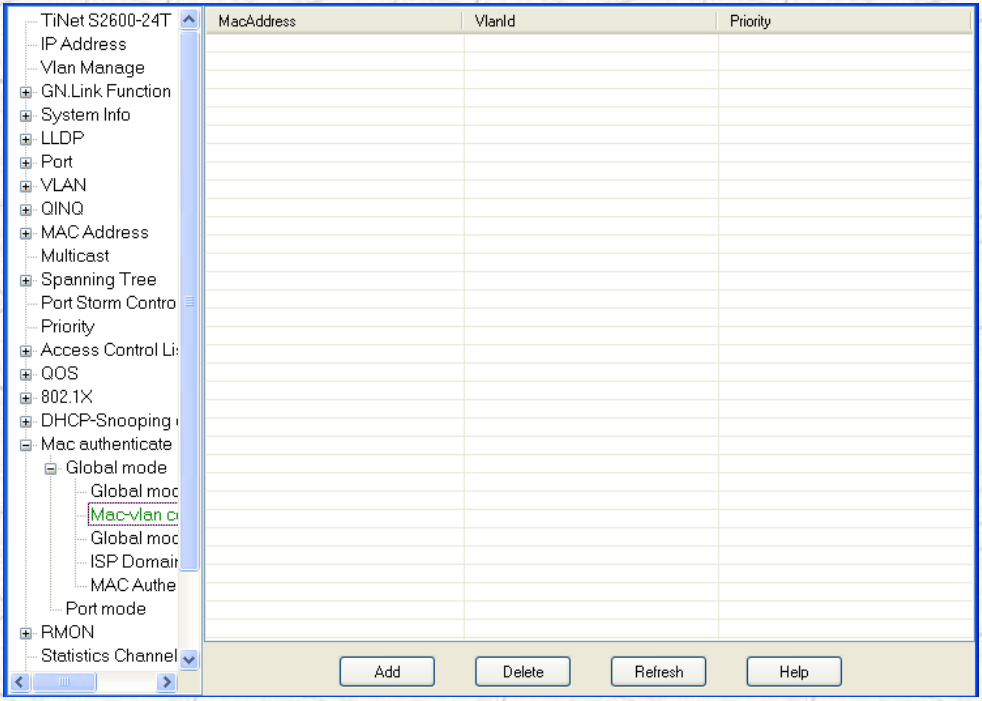


Figure23-2Mac-vlan Configuration interface

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

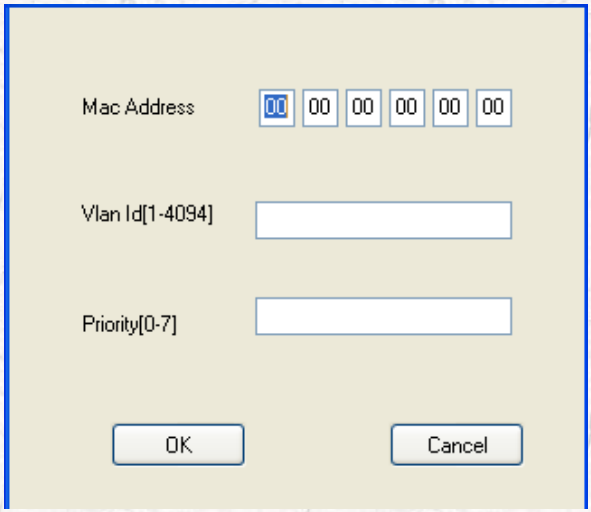


Figure23-3Parameter configuration interface

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:

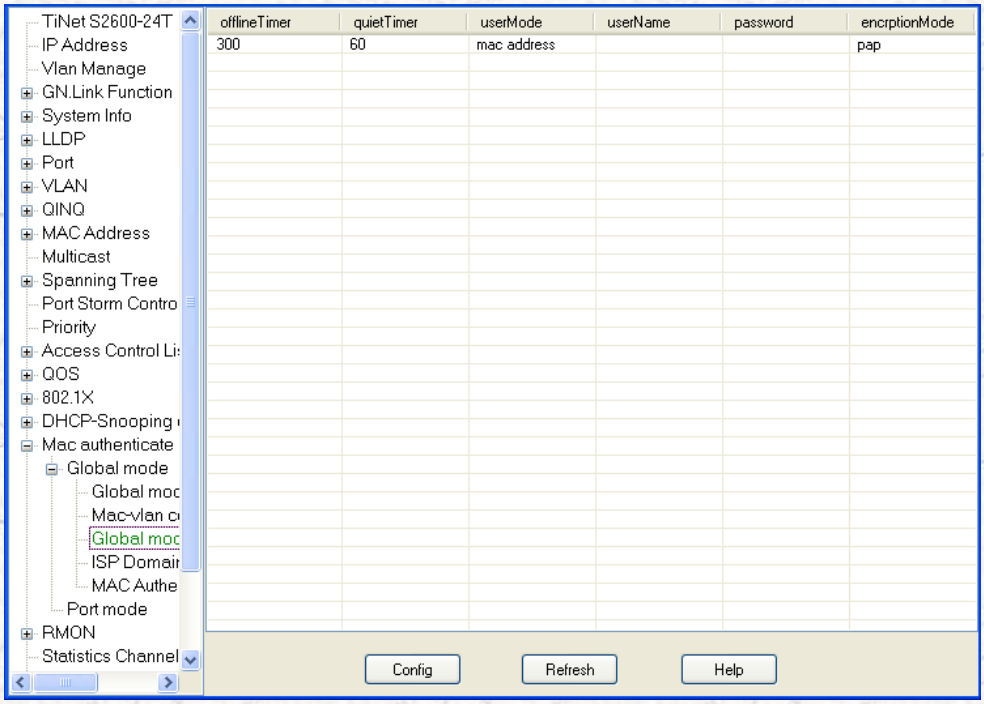


Figure23-4Global mode Configuration interface

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

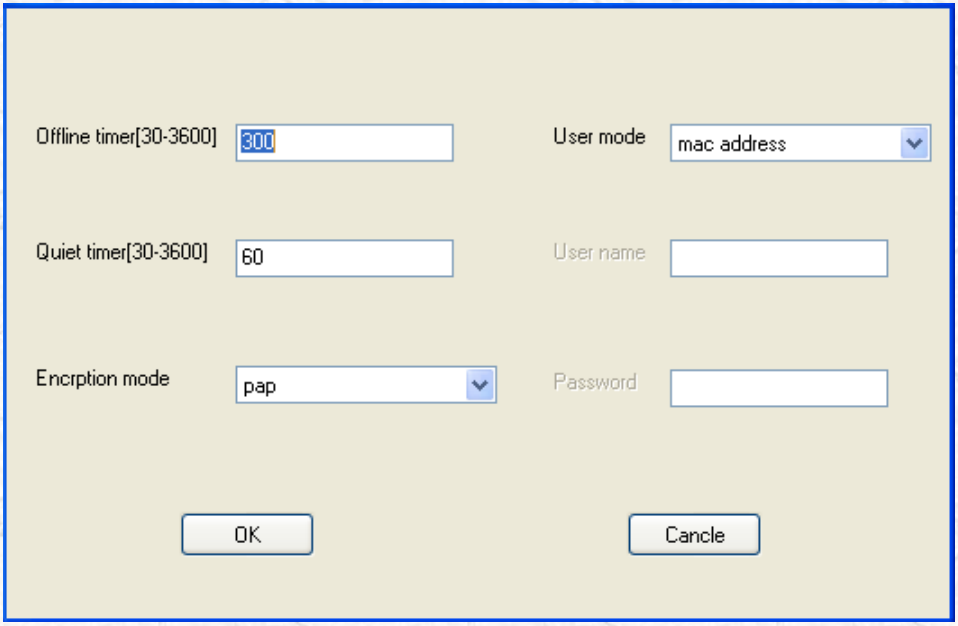


Figure23-5Parameter configuration interface

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:

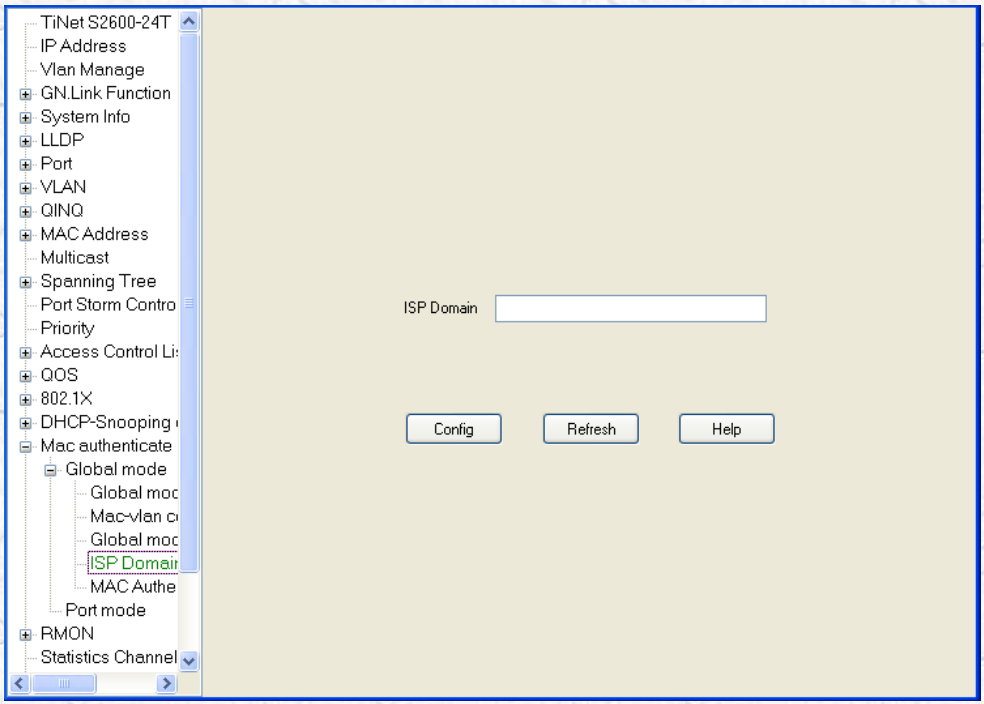


Figure23-6ISP domain name Configuration interface

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:

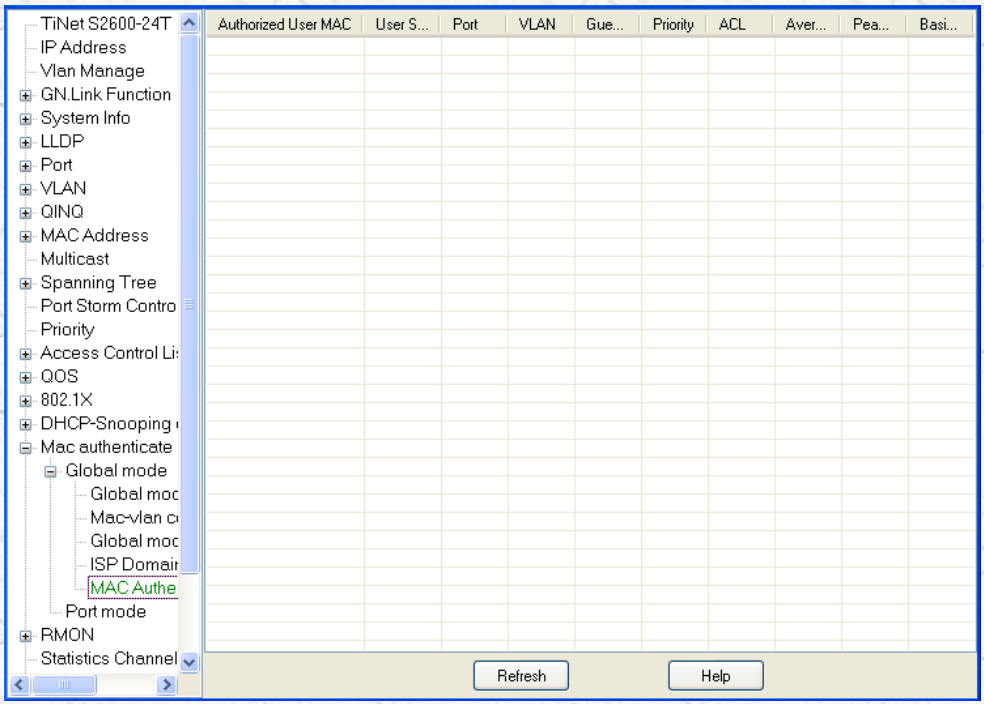


Figure23-7Information of user's MAC authentication Configuration interface

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

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

23.2Port mode

Configuration interface as follows:

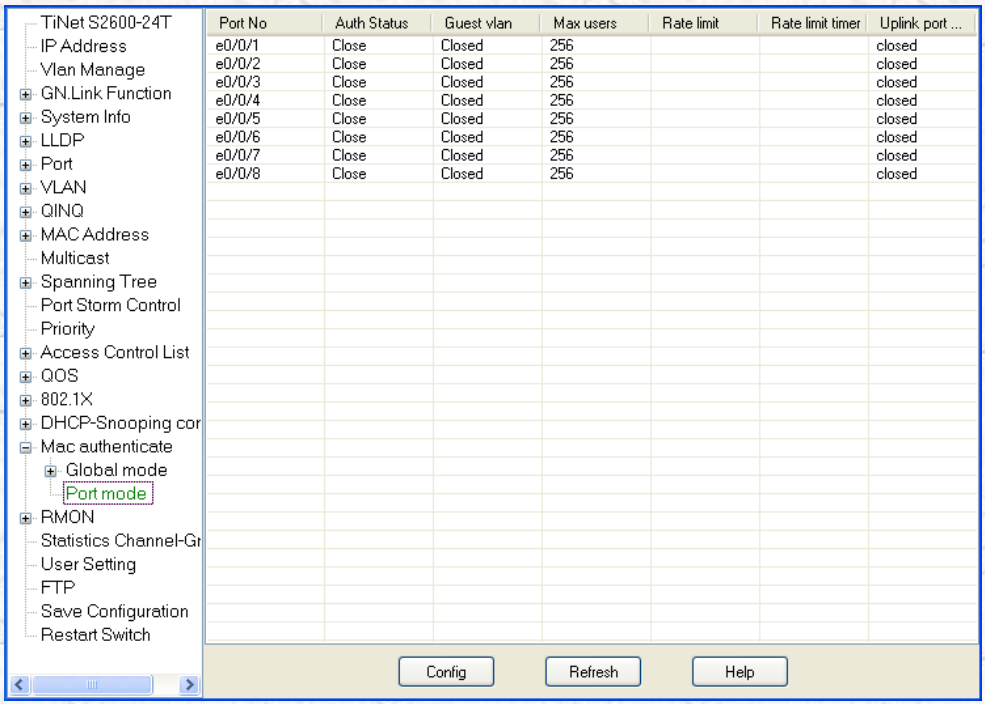


Figure23-8Port mode Configuration interface

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

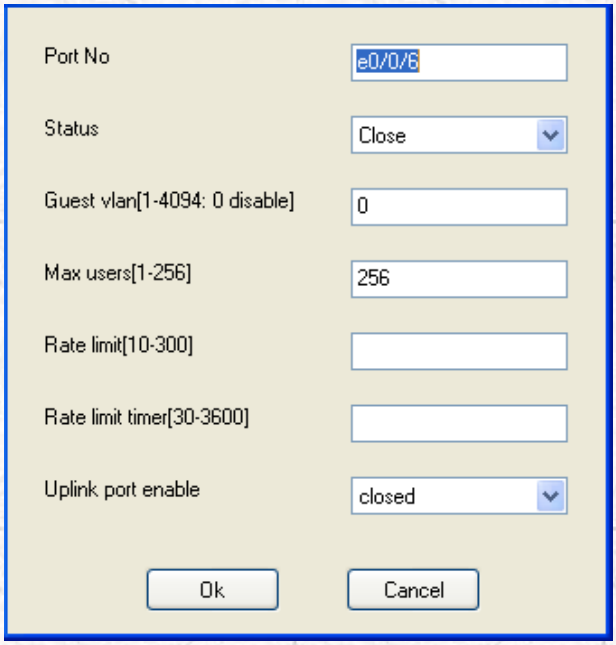


Figure23-9Parameter configuration interface

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

24.1Routing table lookup and configuration

TiNet S3526,TiNet S3650,TiNet S3750 and EL5600 are 10G smart routingswitch 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:

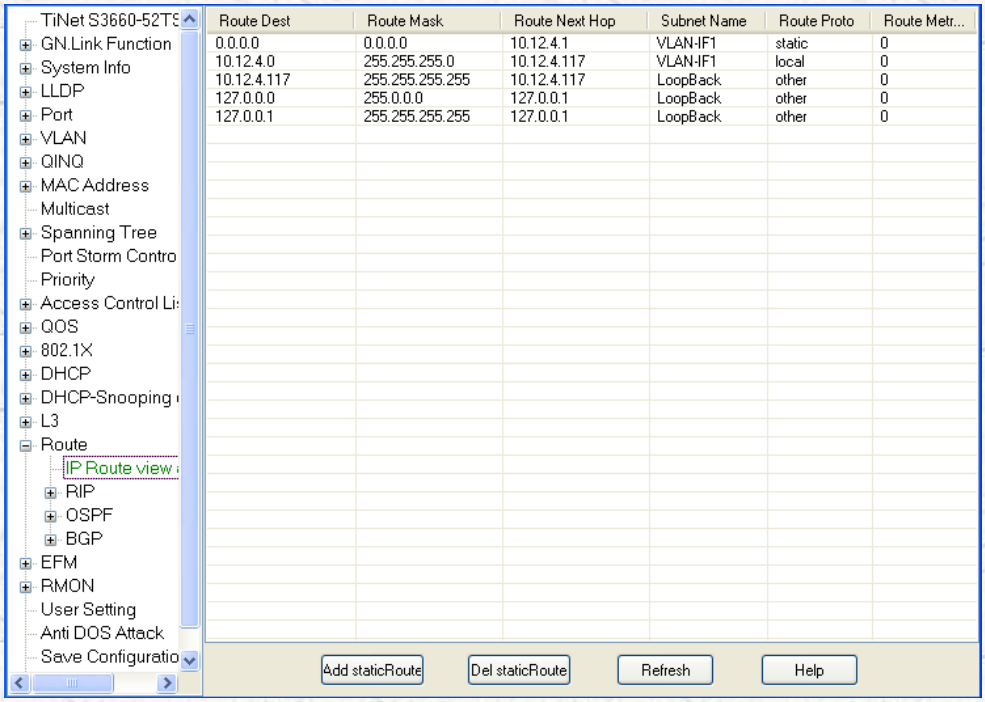


Figure24-1Routing table and Configuration interface

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

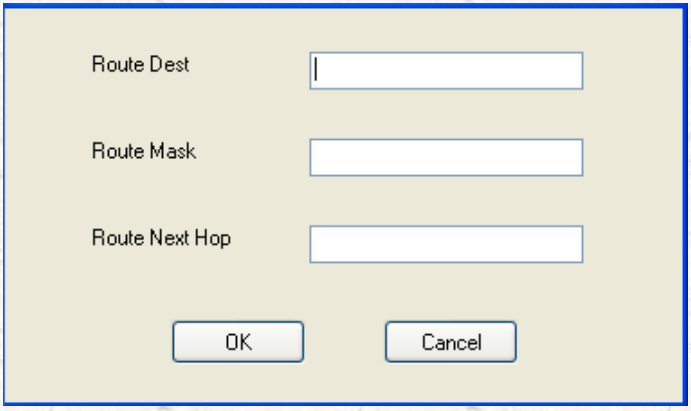


Figure24-2Parameter configuration interface

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 staic 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 initating RIP of device , route

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

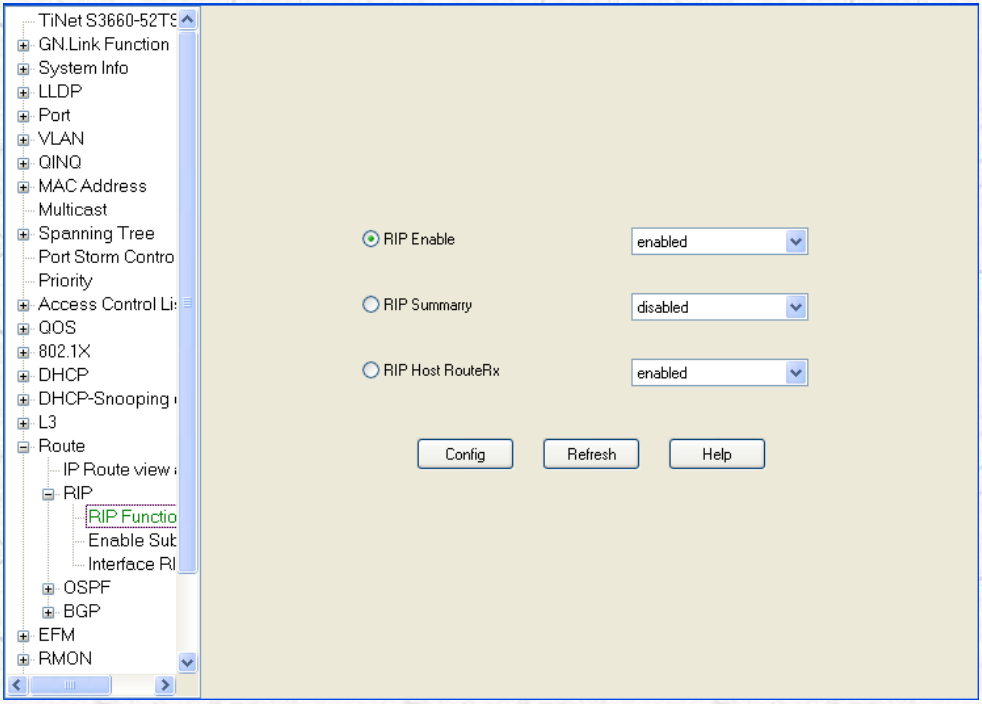


Figure24-3RIP function Configuration interface

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:

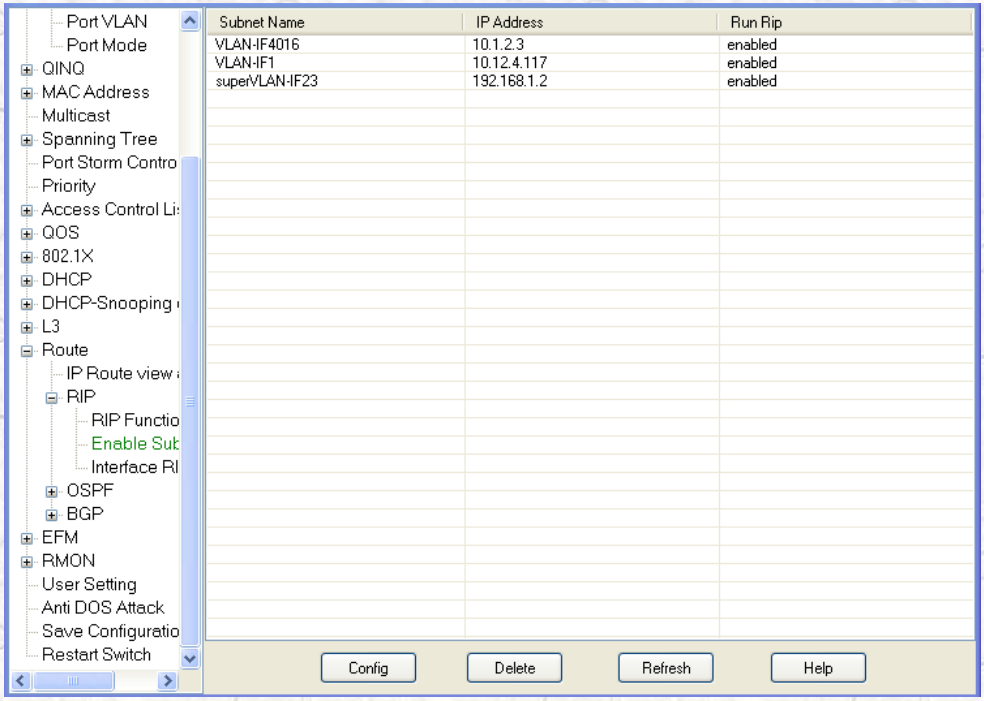


Figure24-4IP network segment Configuration interface

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

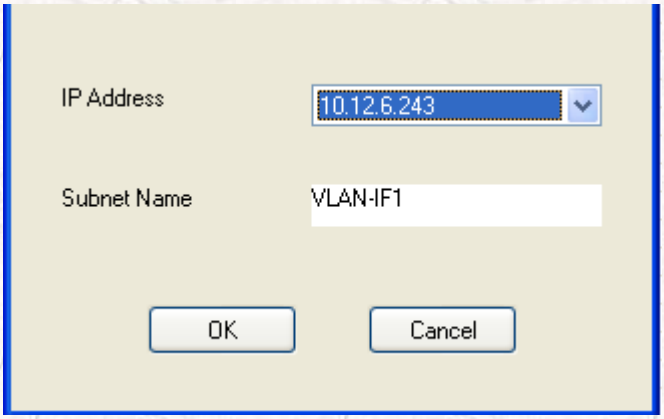


Figure24-5IP network segment parameter configuration interface

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:

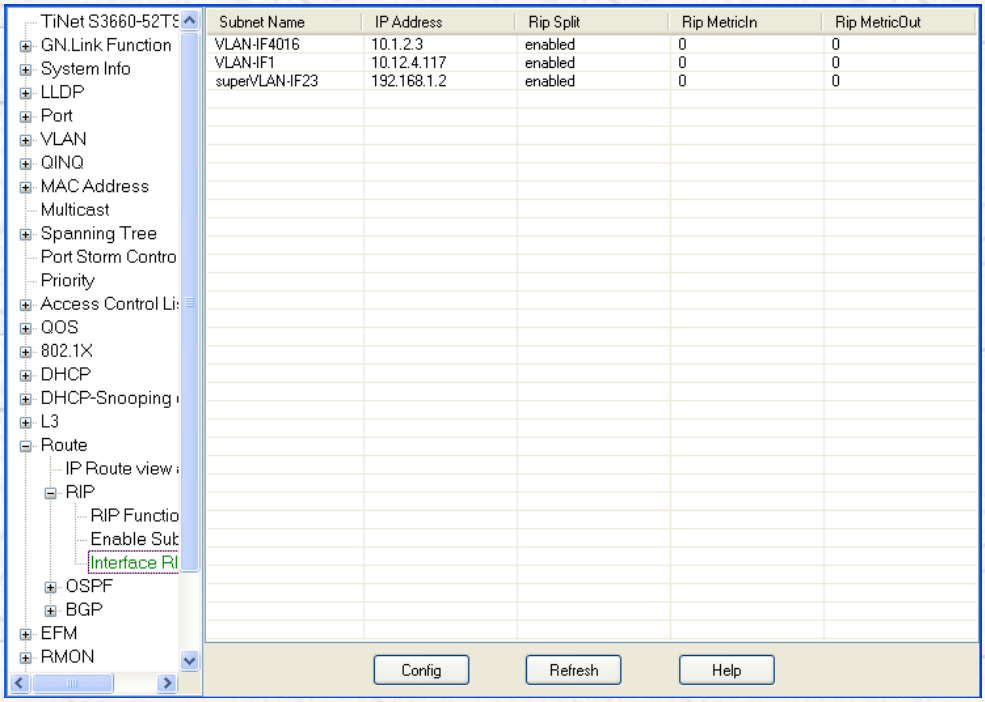


Figure24-6Port RIP Configuration interface

Click " **configuration** " button ,and pop a parameter configuration interface up.

as follows :

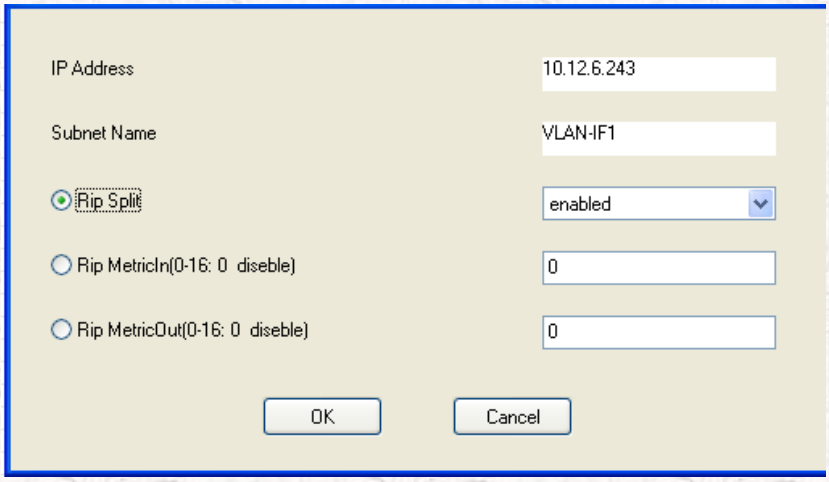


Figure24-7Port RIP parameter configuration interface

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 forbiding 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 .

24.3OSPF Configuration

24.3.1 OSPF Function Configuration

Configuration interface as shown below:

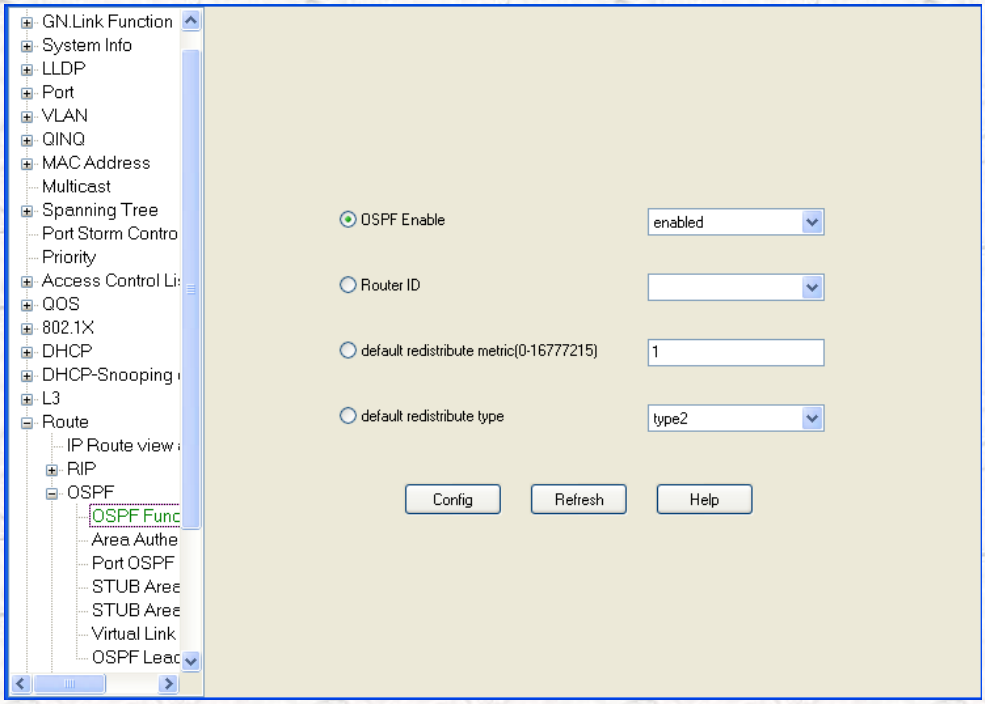


Figure24-8OSPF Function configure interface

Router ID:Router ID is a 32 byte intergeral number without symbols wgich 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:

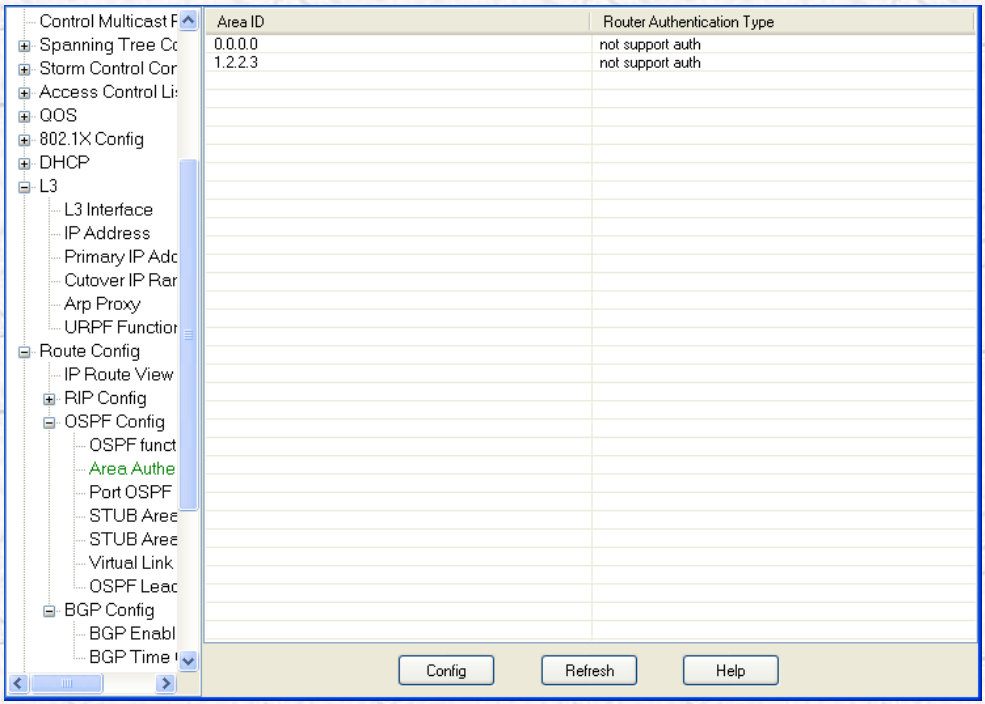


Figure24-9Area Authentication interface

Click the '**Config**' pops up a parameter configuration interface:

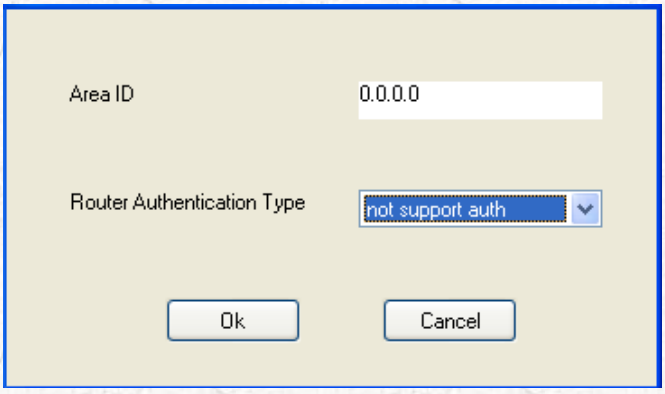


Figure24-10Area Authentication parameter configuration interface

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

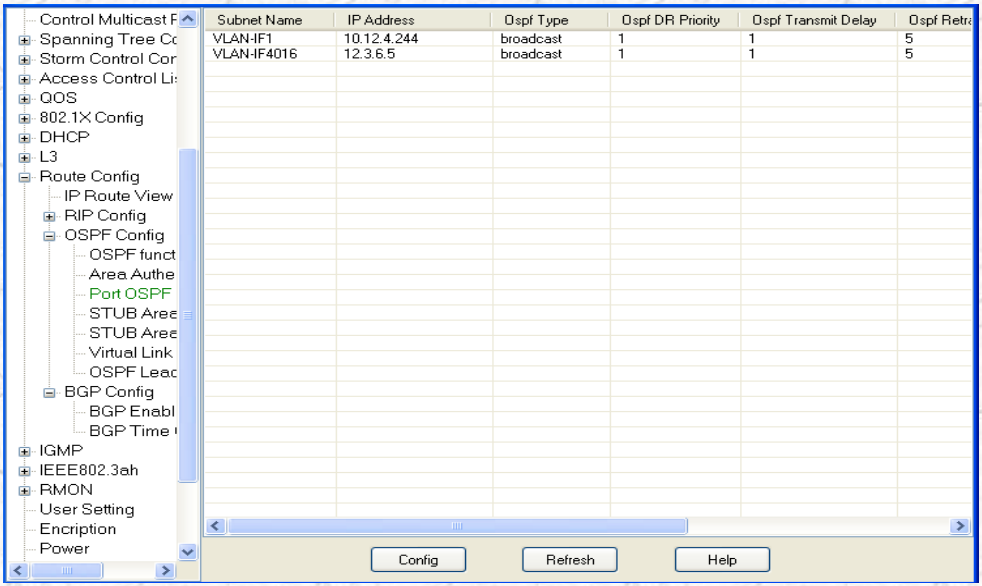


Figure24-11Configuration interface

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

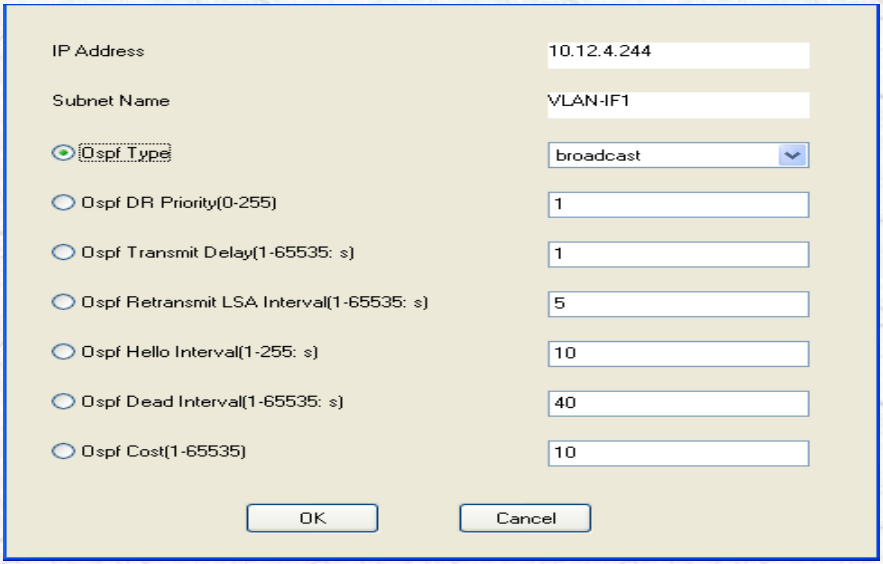


Figure24-12Port OSPF configuration interface

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:

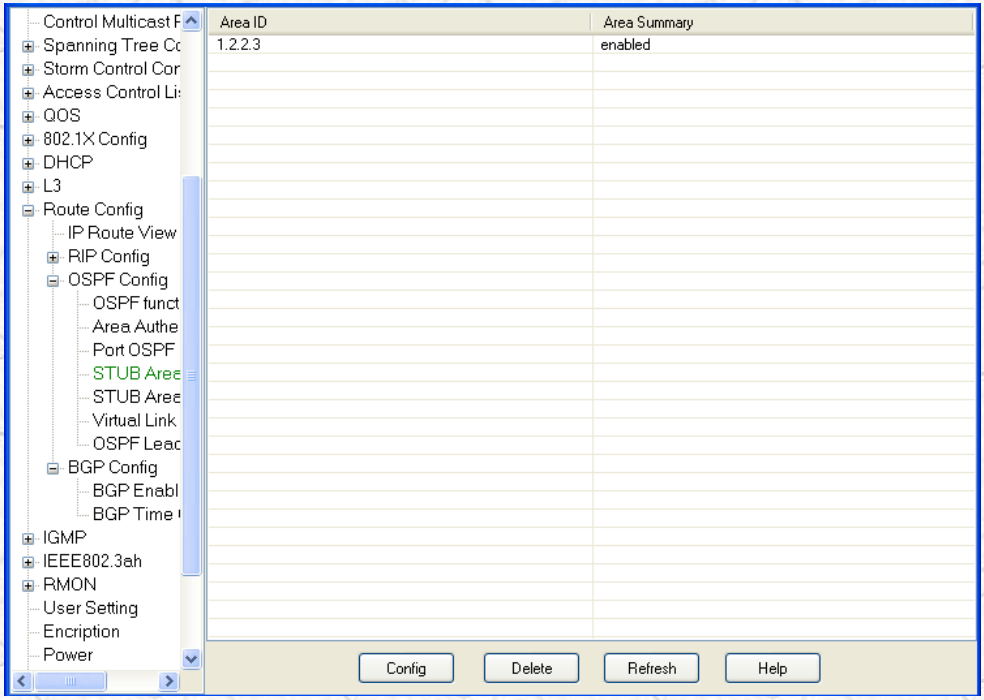


Figure24-13STUB Area configuration interface

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

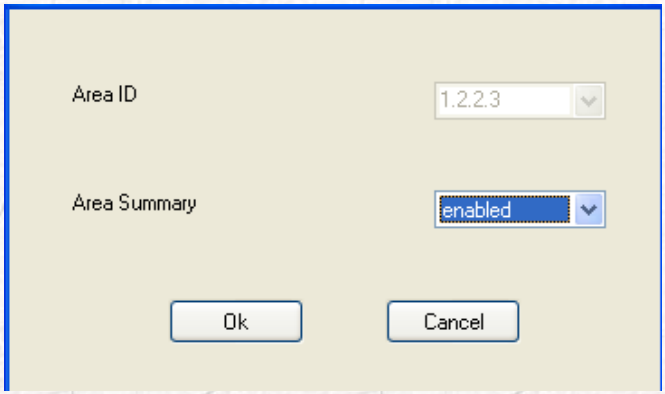


Figure24-14STUB Area Parameter Configuration Interface

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:

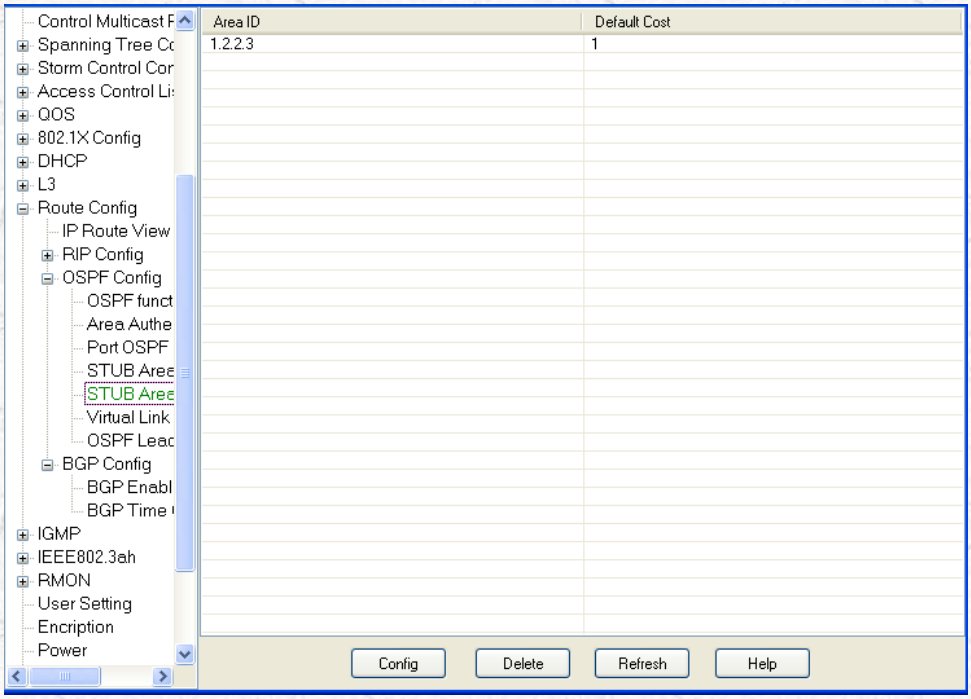


Figure24-15STUB area cost configuration interface

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

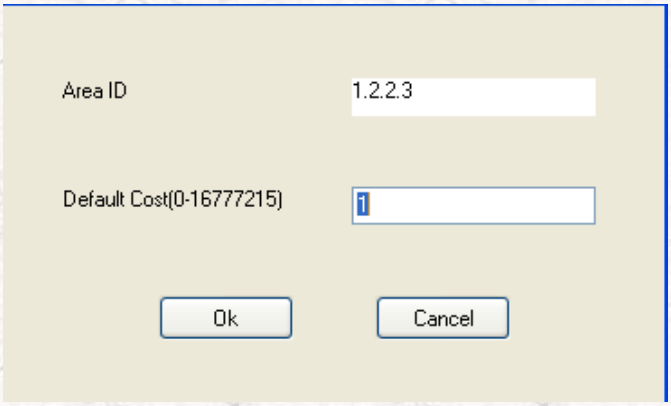


Figure24-16STUB Area Cost Parameter interface

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 Vitual Link Configuration

Configuration interface as shown:

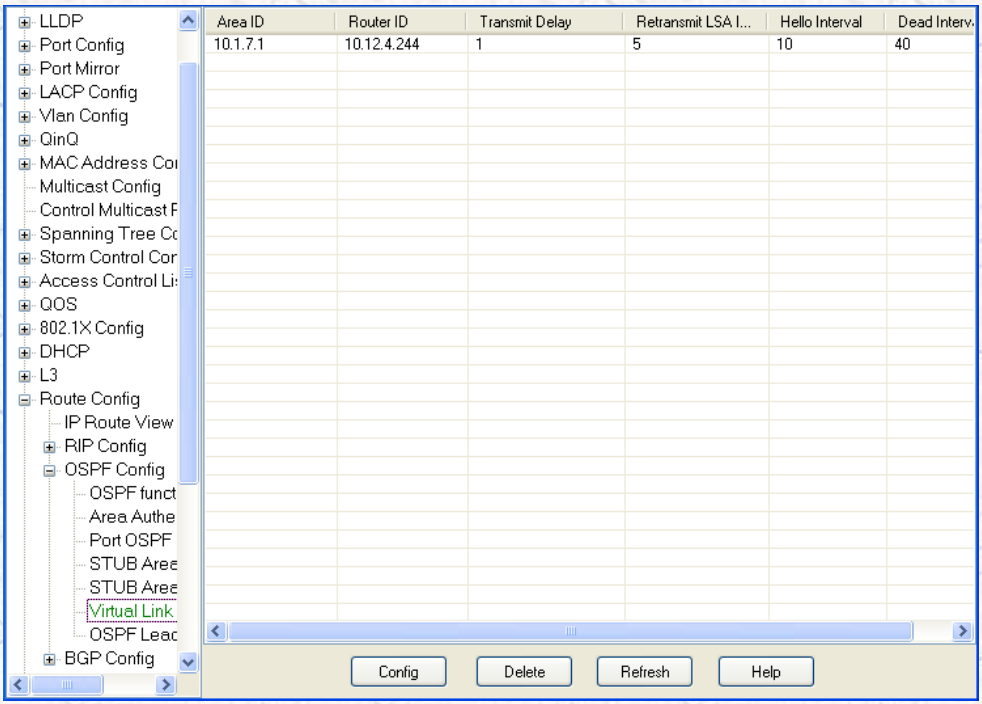


Figure24-17Virtual Link Configuration interface

Click 'Configure' button pops up a parameter configuration interface. Figure:

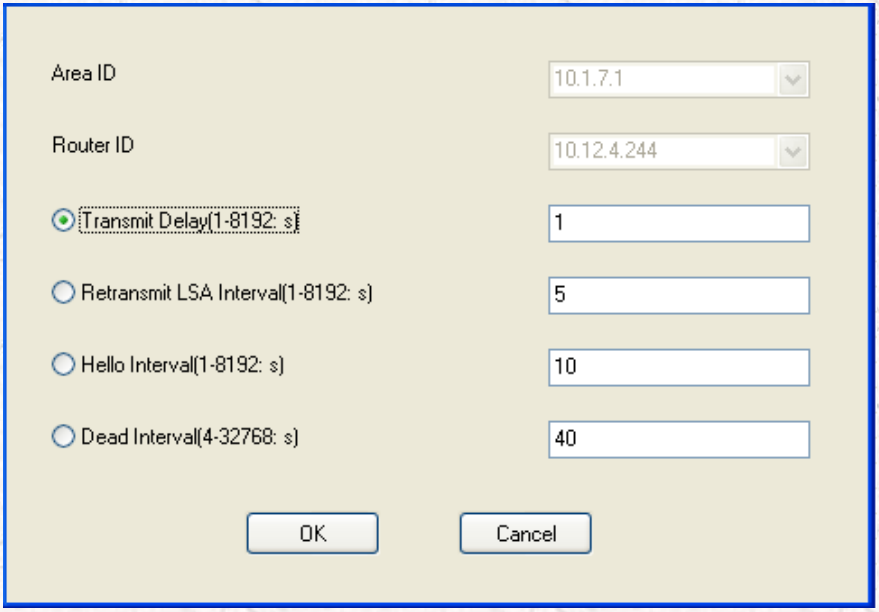


Figure24-18Virtual Link Configuration interface

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:

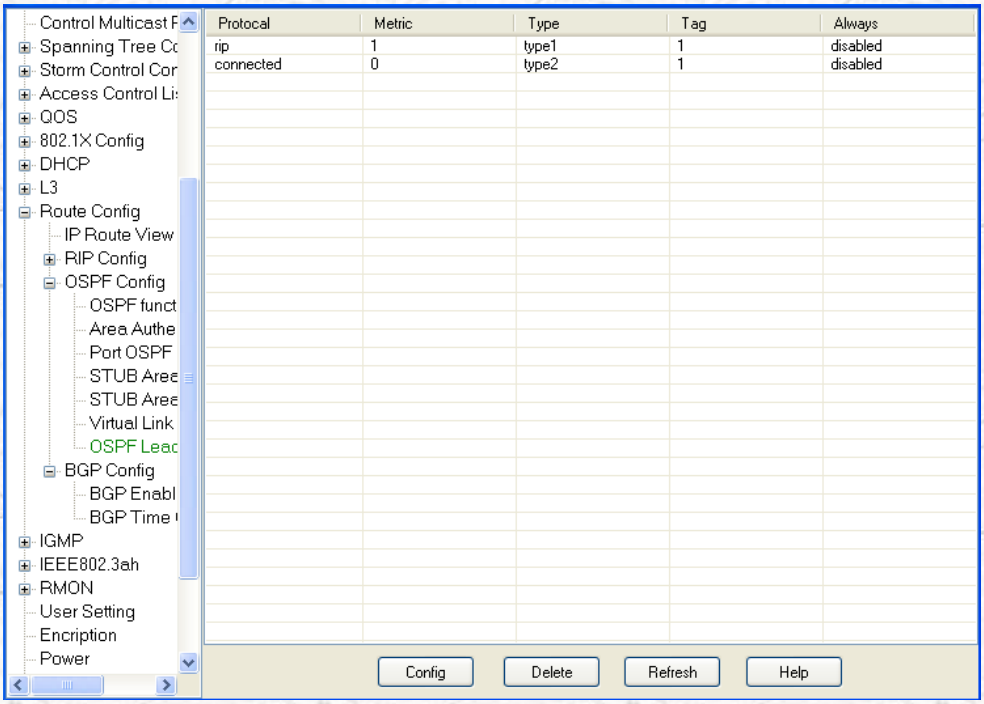


Figure24-19OSPF Lead Interface

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

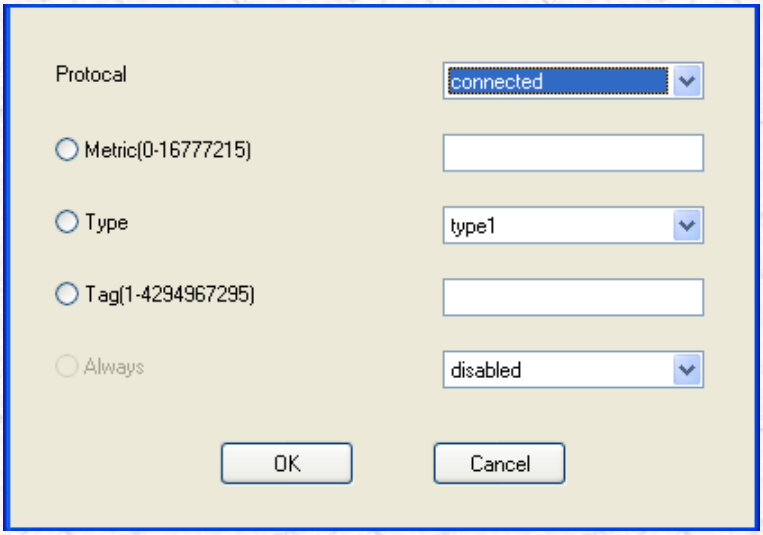


Figure24-20OSPF Lead router parameter interface

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.

24.4BGP Configuratin

24.4.1 BGP Enable Configuration

Configuration interface as shown:

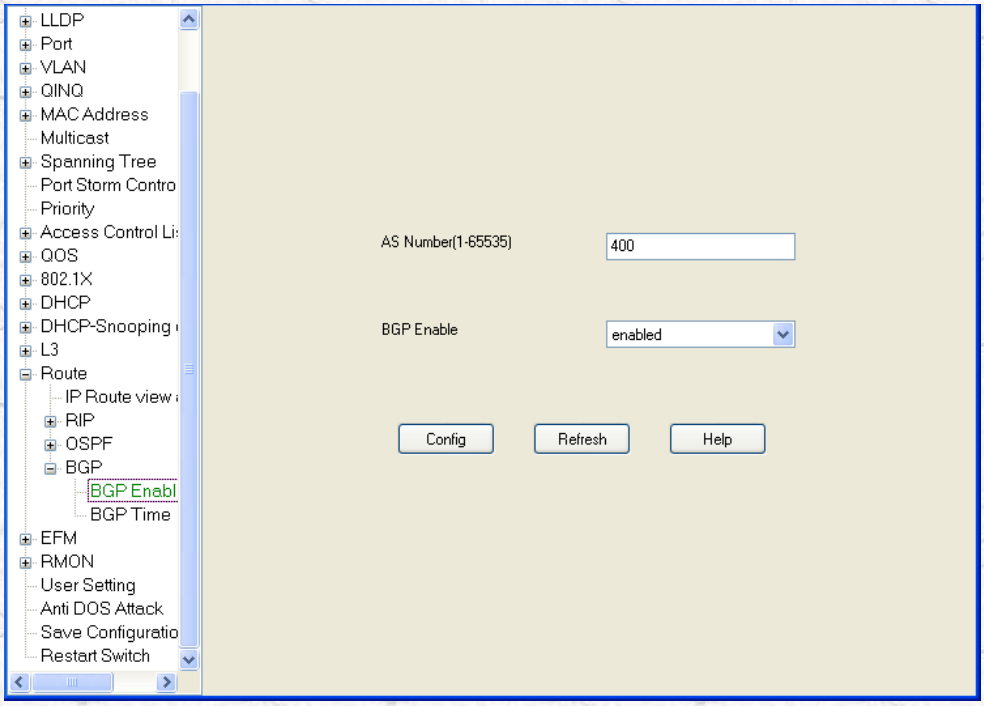


Figure24-21BGP Enabled Setting Interface

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:

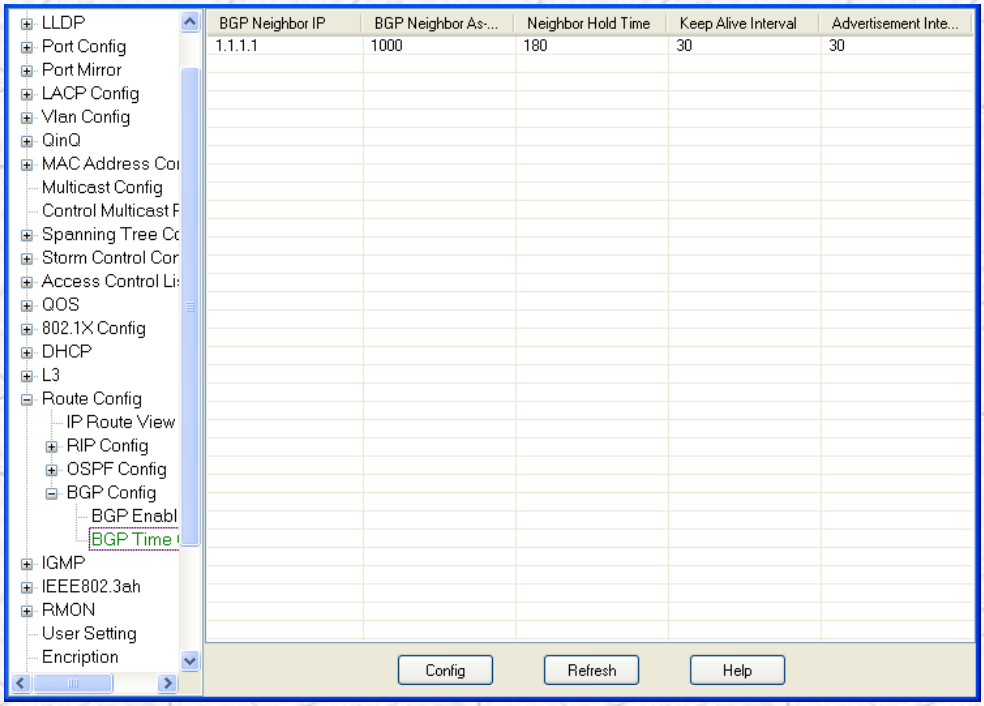


Figure24-22BGP Time Configuration interface

Select a record, click ‘**Config**’ button ,Pops up a parameter configuration interface. as shown:

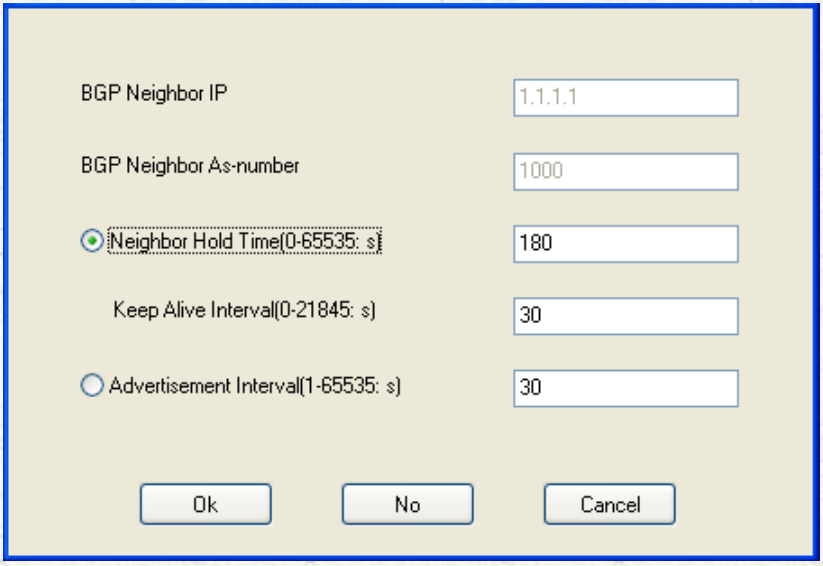


Figure24-23Parameter Configuration Interface

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

25.1EFM Configuration

Configuration interface as shown:

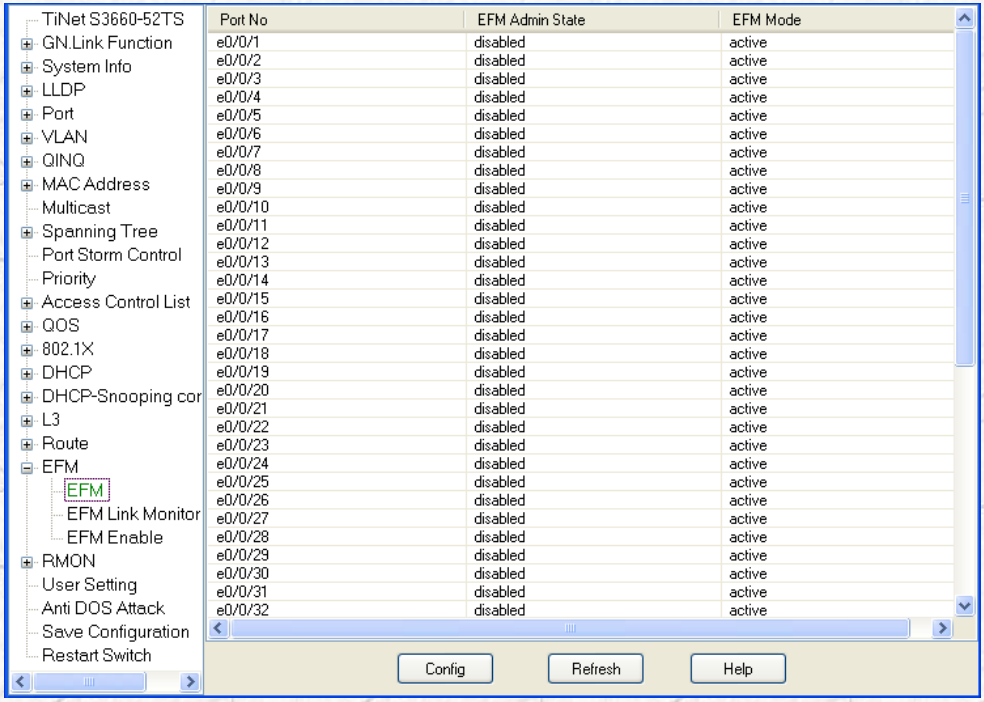


Figure25-1EFM Configuration interface

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

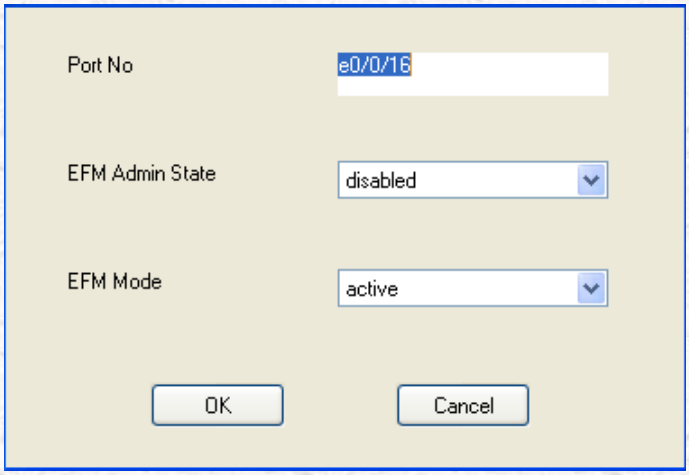


Figure25-2Parameter Configuration Interface

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:

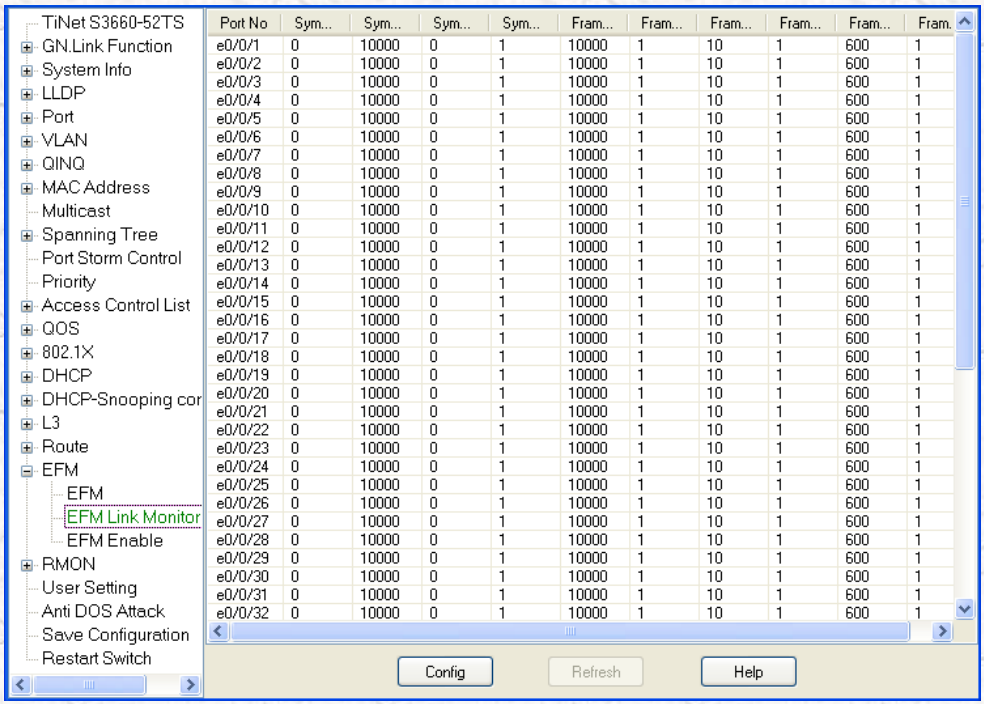


Figure25-3EFM Link Monitor Event Configuration Interface

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

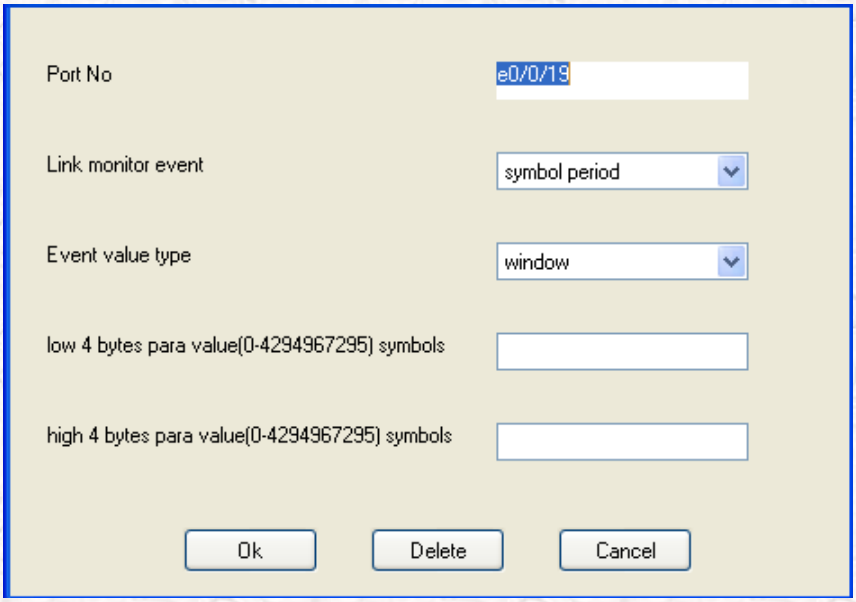


Figure25-4Parameter Configuration Interface

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:

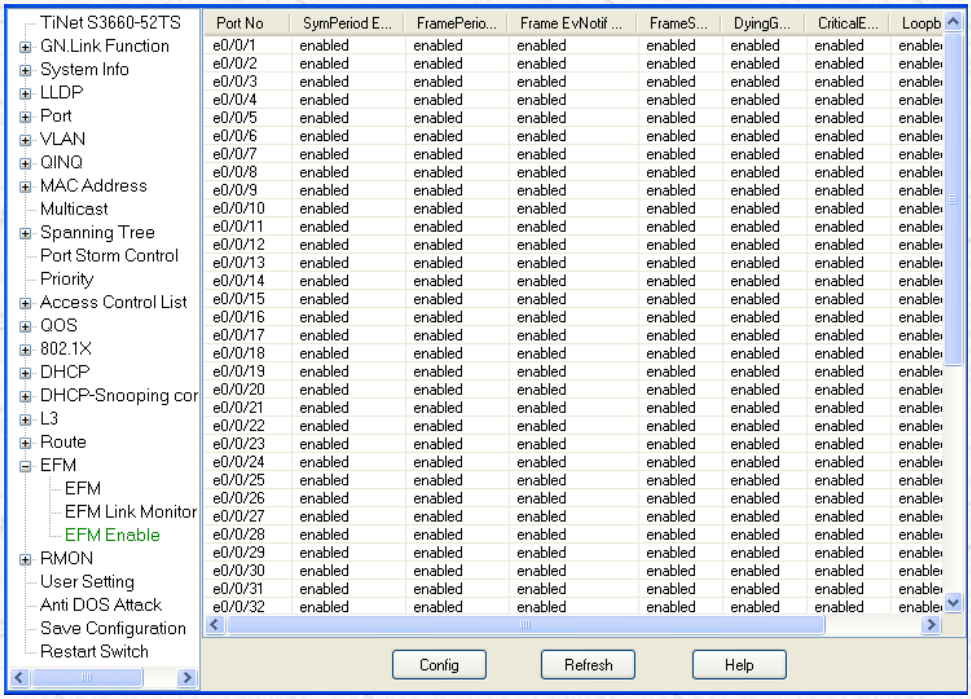


Figure25-5EFMEnabledConfiguration Interface

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

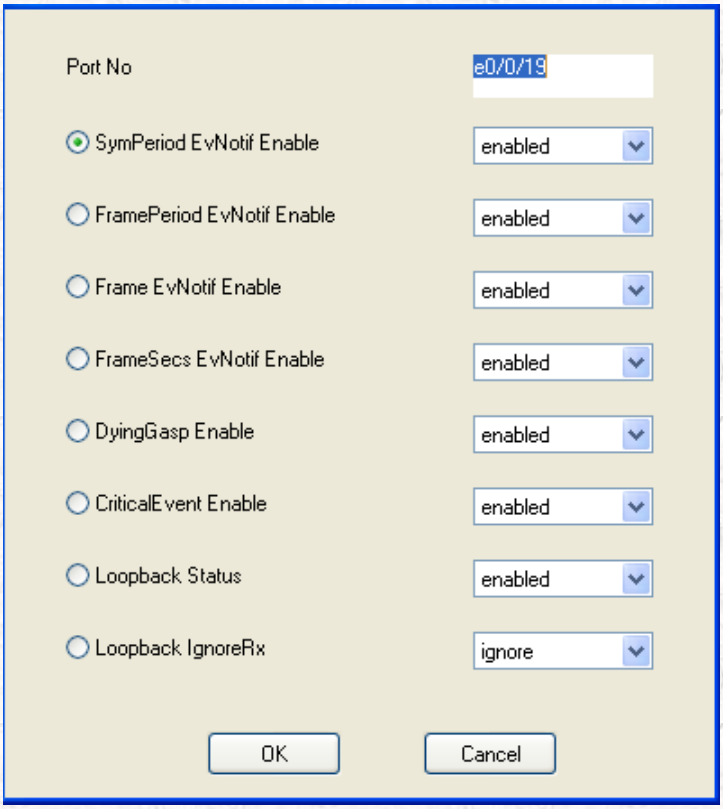


Figure25-6Parameter Configuration Interface

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

26.1RMON 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:

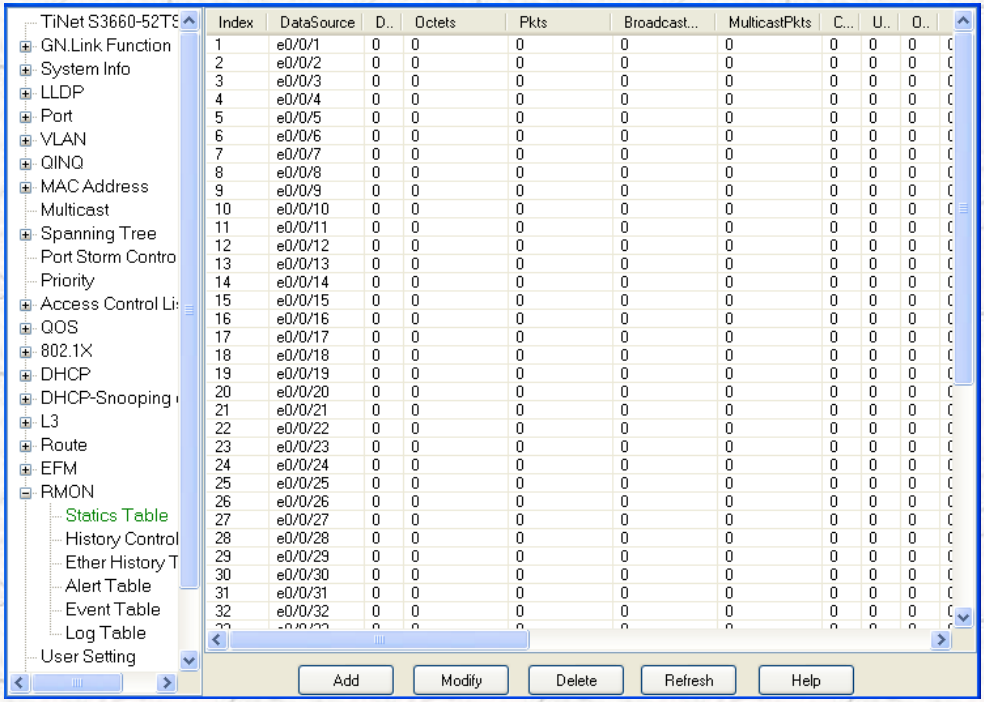


Figure26-1Statistics Information Interface

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;

CRCAliginErrors: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(Incuding error packets);

Pkts128to255octets:The number of packets whose length is between 128 and255 bytes(Incuding error packets);

Pkts256to511octets:The number of packets whose length is between 255 and511 bytes(Incuding error packets);

Pkts512to1023octets:The number of packets whose length is between 512 and1023 bytes(Incuding error packets);

Pkts1024to1518octets:The number of packets whose length is between 1024 and1518 bytes(Incuding 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:

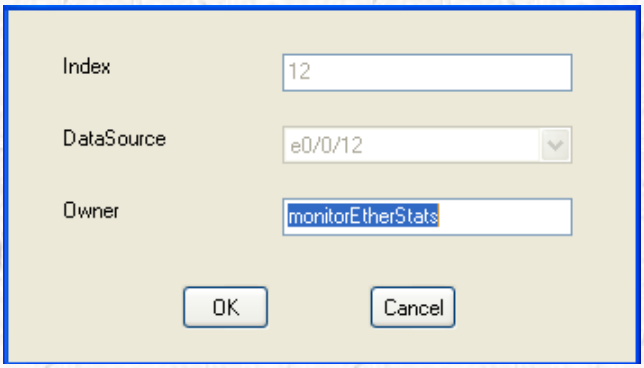


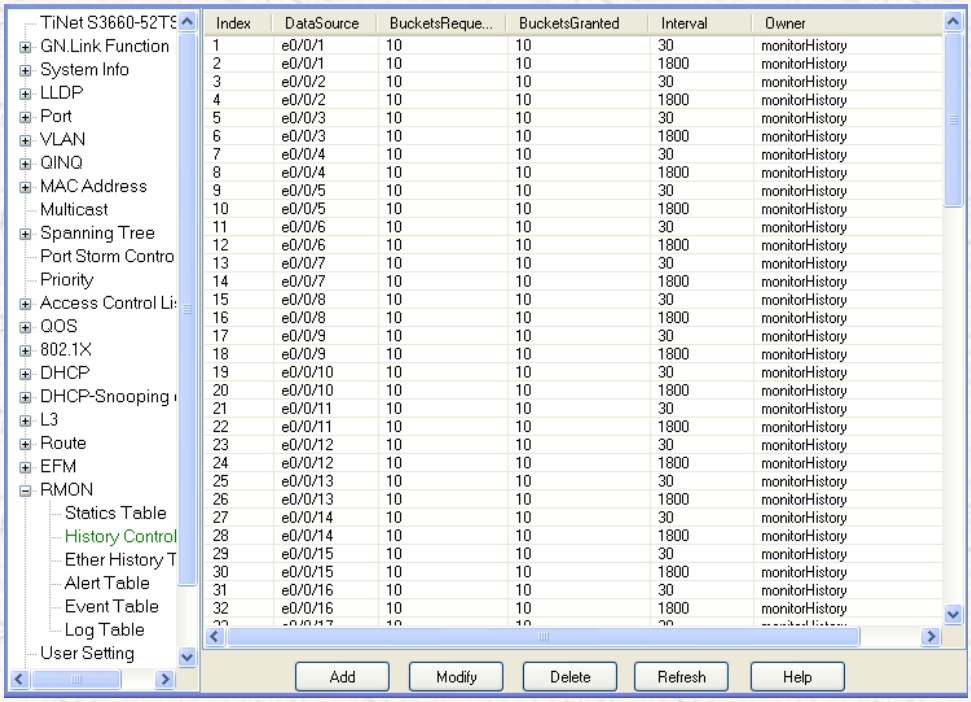
Figure26-2Parameter Configuration Interface

Click '**Rerensh**' button,The system will get the last data from device again.

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

26.2RMON 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	BucketsReque...	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

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:

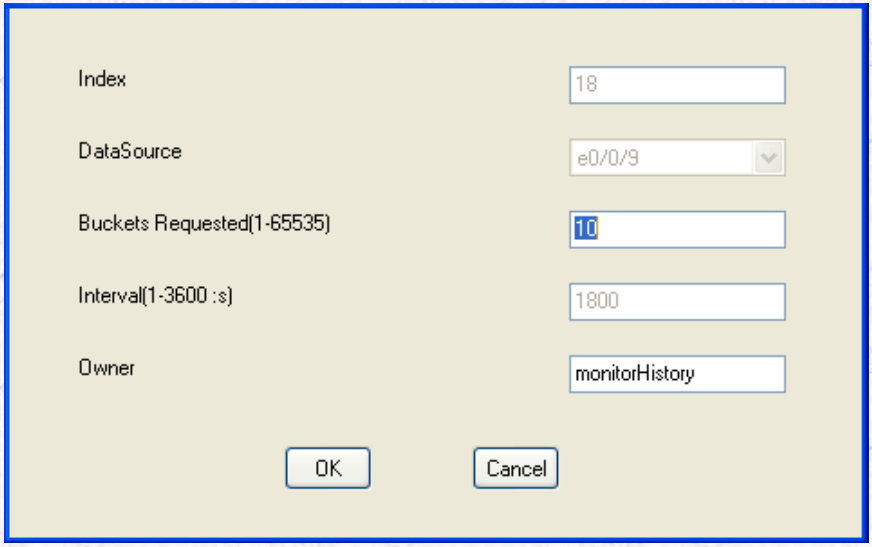


Figure26-4Parameter Configuration Interface

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

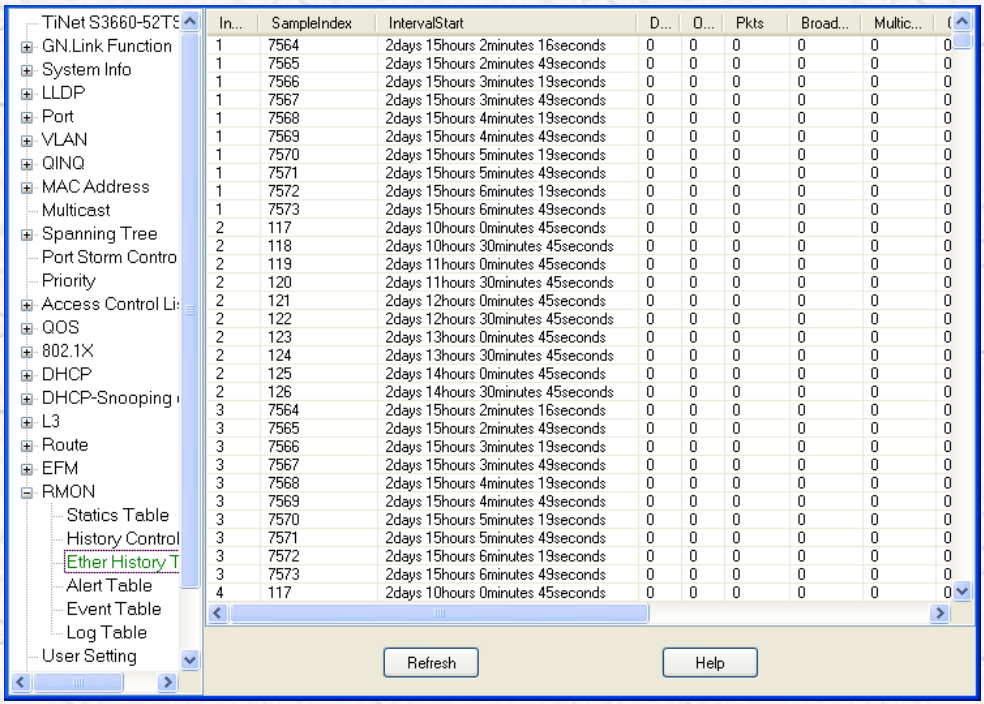
index number to identify is the same.

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
1	7565	2days 15hours 2minutes 49seconds	0	0	0	0	0
1	7566	2days 15hours 3minutes 19seconds	0	0	0	0	0
1	7567	2days 15hours 3minutes 49seconds	0	0	0	0	0
1	7568	2days 15hours 4minutes 19seconds	0	0	0	0	0
1	7569	2days 15hours 4minutes 49seconds	0	0	0	0	0
1	7570	2days 15hours 5minutes 19seconds	0	0	0	0	0
1	7571	2days 15hours 5minutes 49seconds	0	0	0	0	0
1	7572	2days 15hours 6minutes 19seconds	0	0	0	0	0
1	7573	2days 15hours 6minutes 49seconds	0	0	0	0	0
2	117	2days 10hours 0minutes 45seconds	0	0	0	0	0
2	118	2days 10hours 30minutes 45seconds	0	0	0	0	0
2	119	2days 11hours 0minutes 45seconds	0	0	0	0	0
2	120	2days 11hours 30minutes 45seconds	0	0	0	0	0
2	121	2days 12hours 0minutes 45seconds	0	0	0	0	0
2	122	2days 12hours 30minutes 45seconds	0	0	0	0	0
2	123	2days 13hours 0minutes 45seconds	0	0	0	0	0
2	124	2days 13hours 30minutes 45seconds	0	0	0	0	0
2	125	2days 14hours 0minutes 45seconds	0	0	0	0	0
2	126	2days 14hours 30minutes 45seconds	0	0	0	0	0
3	7564	2days 15hours 2minutes 16seconds	0	0	0	0	0
3	7565	2days 15hours 2minutes 49seconds	0	0	0	0	0
3	7566	2days 15hours 3minutes 19seconds	0	0	0	0	0
3	7567	2days 15hours 3minutes 49seconds	0	0	0	0	0
3	7568	2days 15hours 4minutes 19seconds	0	0	0	0	0
3	7569	2days 15hours 4minutes 49seconds	0	0	0	0	0
3	7570	2days 15hours 5minutes 19seconds	0	0	0	0	0
3	7571	2days 15hours 5minutes 49seconds	0	0	0	0	0
3	7572	2days 15hours 6minutes 19seconds	0	0	0	0	0
3	7573	2days 15hours 6minutes 49seconds	0	0	0	0	0
4	117	2days 10hours 0minutes 45seconds	0	0	0	0	0

Figure26-5Ether History Table Information 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.

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

more than 500 CRC error is found within five minutes, it will generate an alarm. The alarm table for each record to define a specific Monitor variable sampling interval and threshold parameters. Value in each record are from the latest value of the last sampling interval, when the most recent sampling period after the end of the new value will replace the old value.Configuration Interface as shown:

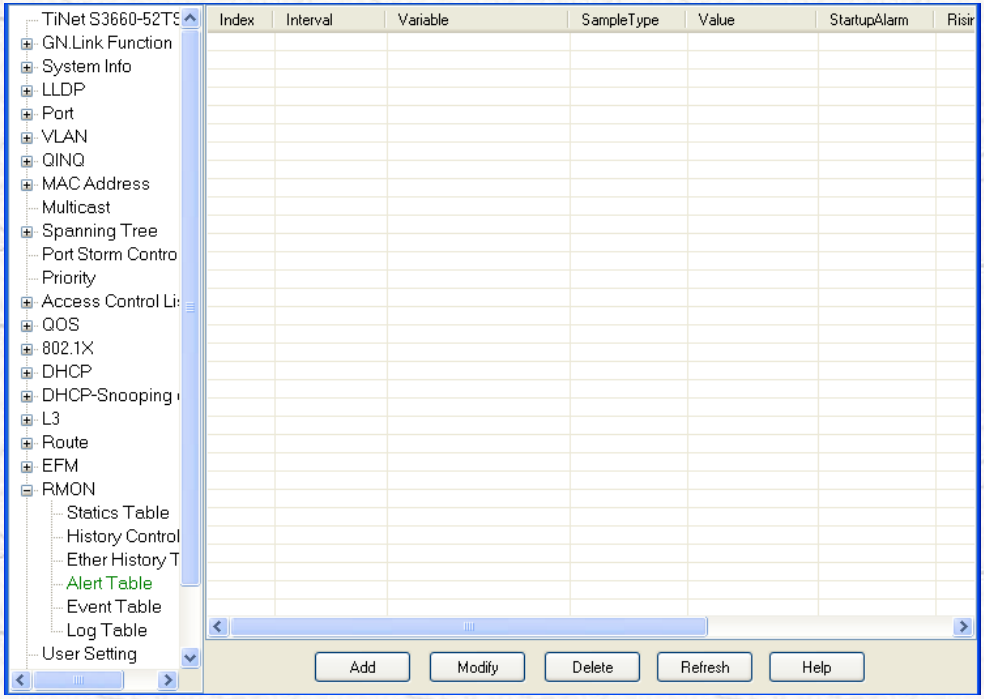


Figure26-6Alert Table Configuration Interface

Index:Line integer that uniquely identifies the alarm table, each such row provides a sampling of the Monitor MIB specific object within a specific time

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 thresholdas 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:

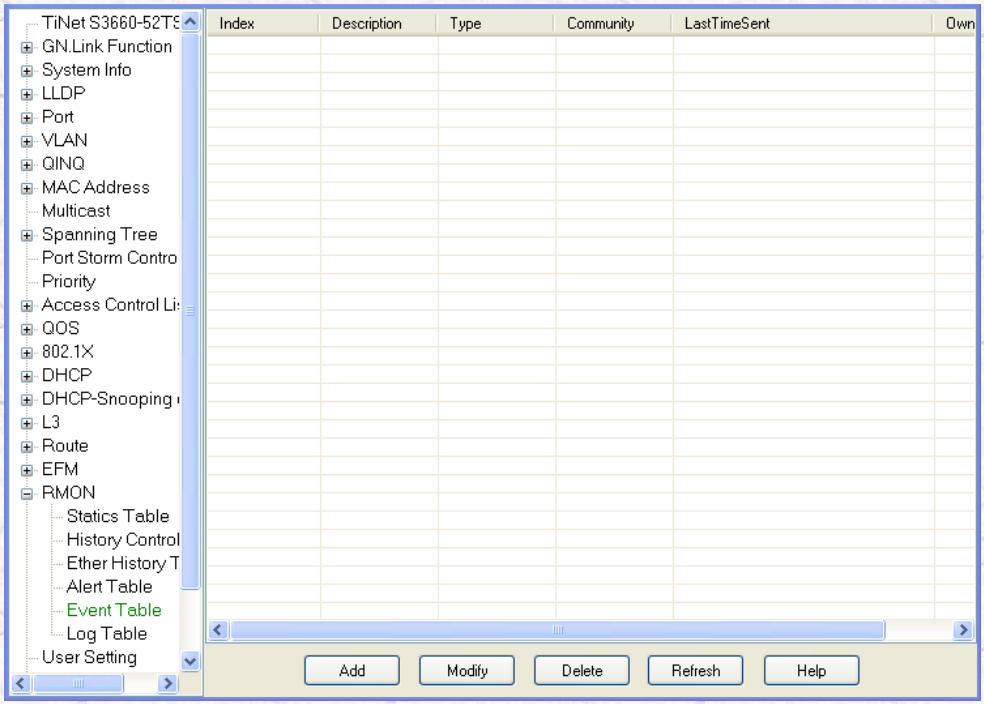


Figure26-7Event Table Configuration Interface

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.

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

26.6RMON Log Table

If you want to record the Event in the Event Table, it is necessary to create a new entry in the log table, the corresponding Event occurs, Click the 'Refresh' button in the log table will update the relevant records.

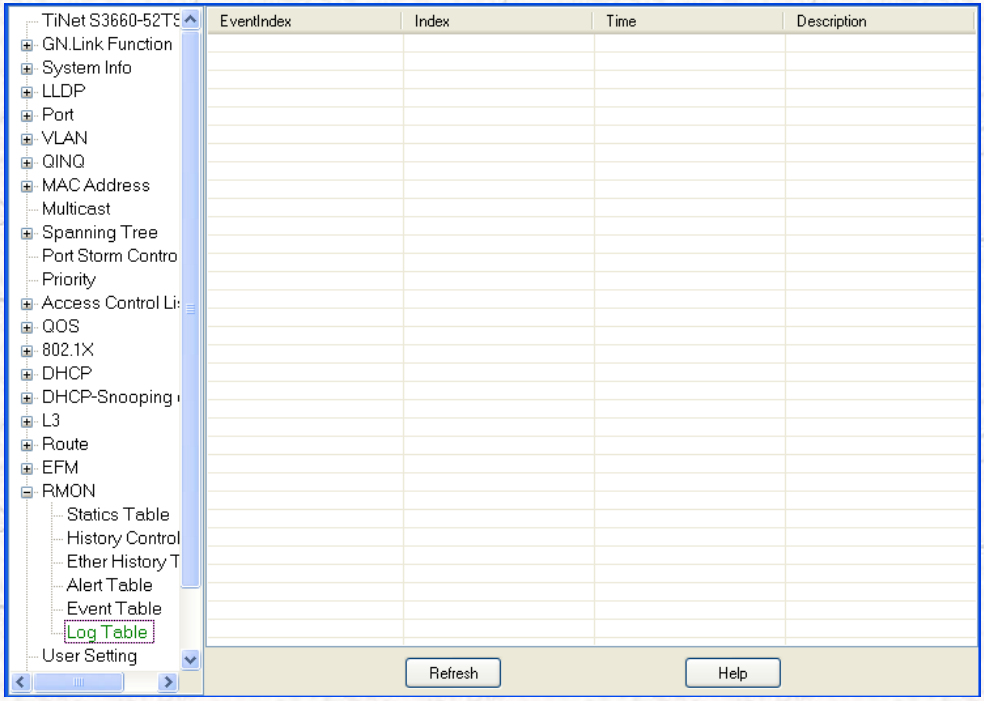


Figure26-8Log Table Information Interface

EventIndex:Recognition generated which records the Event. The index values with the same values by the same Event index number identified Event.

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

27.1Telnet Global

Configuration interface as shown:

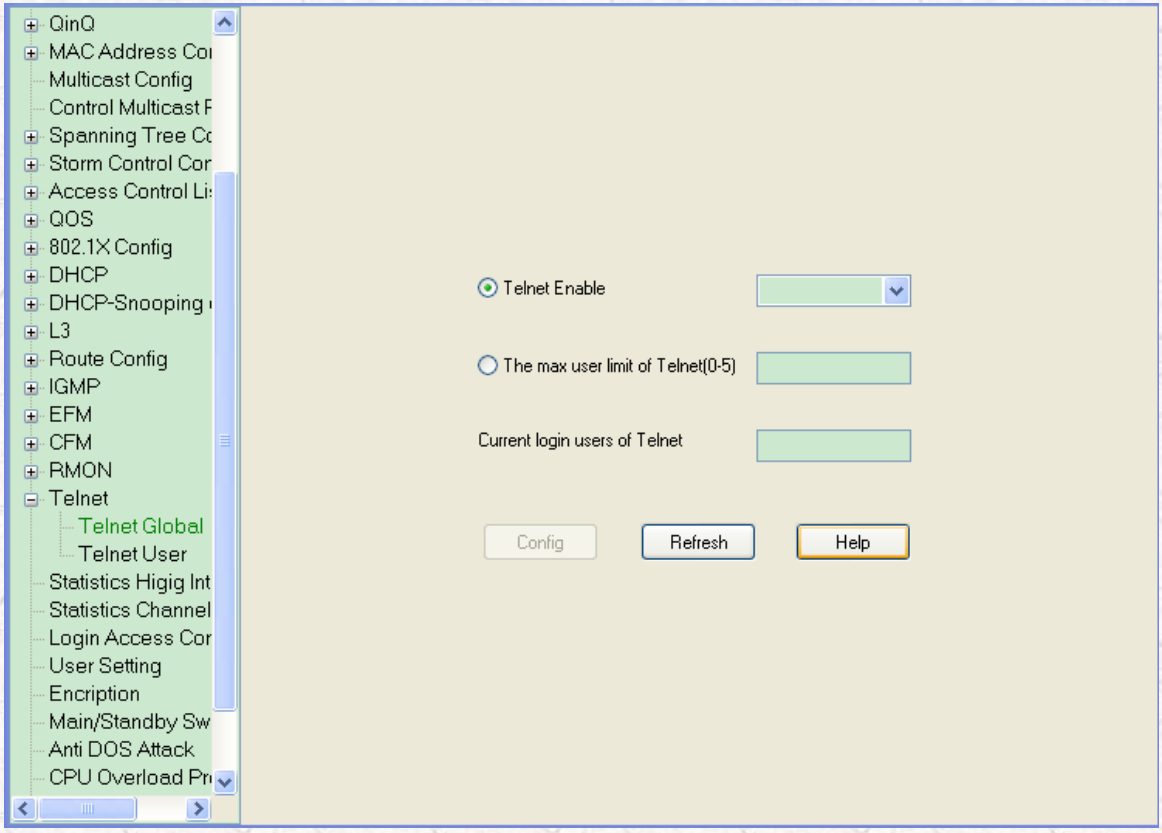


Figure27-1Telnet Global Interface

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:

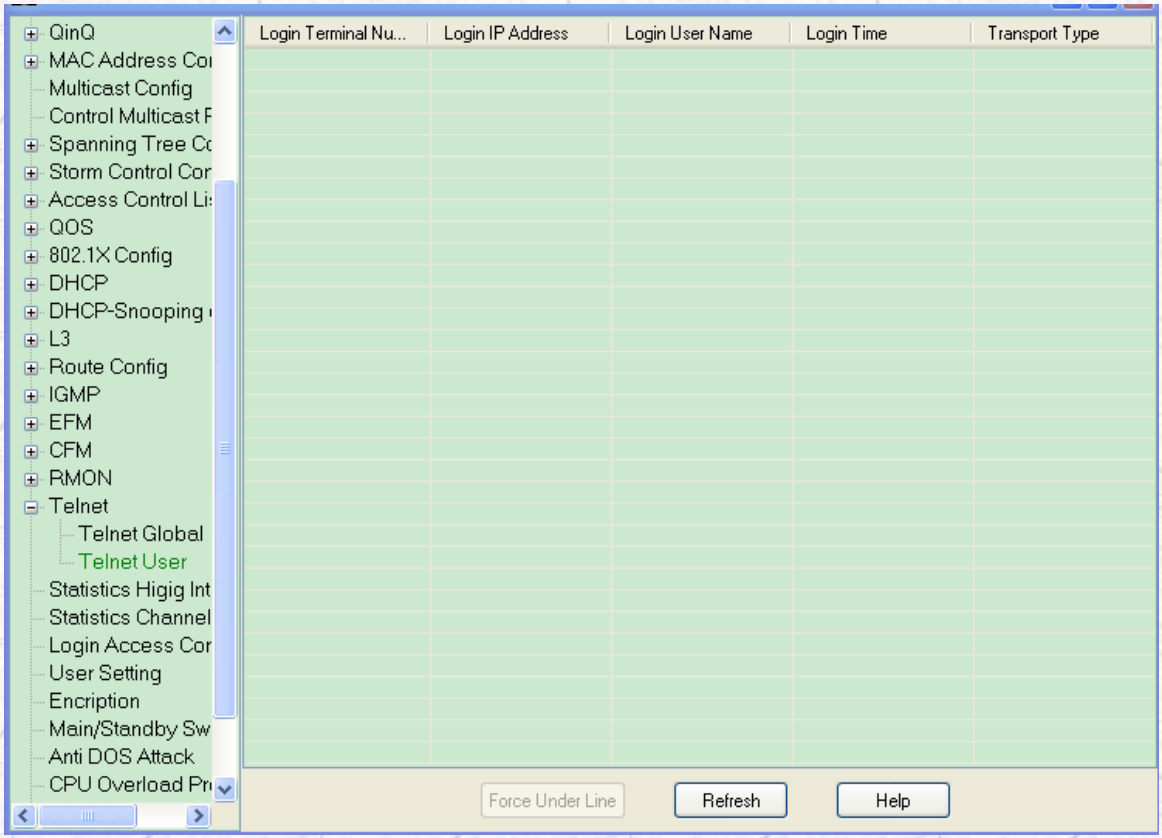


Figure27-2Telnet User Interface

Click the '**Force Under Line**, The user-selected forced offline.

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.

28 Statistics Higi

Configuration interface as shown:

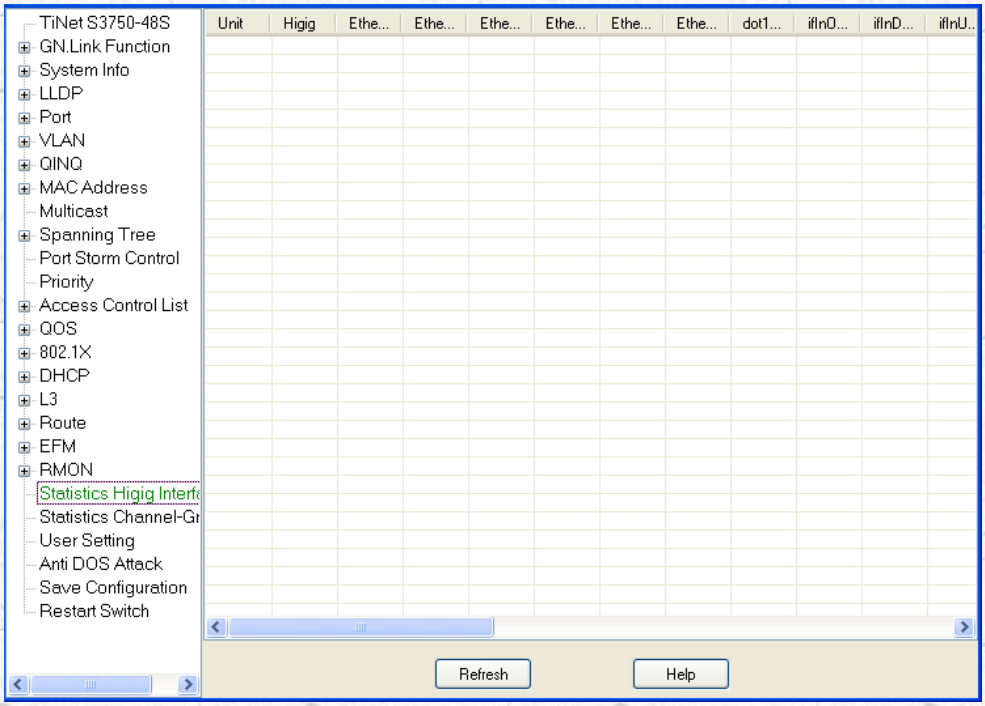


Figure28-1Statistics Higig Interface

Click '**Rerensh**' button,The system will get the last data from device again.

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

29 Statistics Channel

Configuration interface as shown:

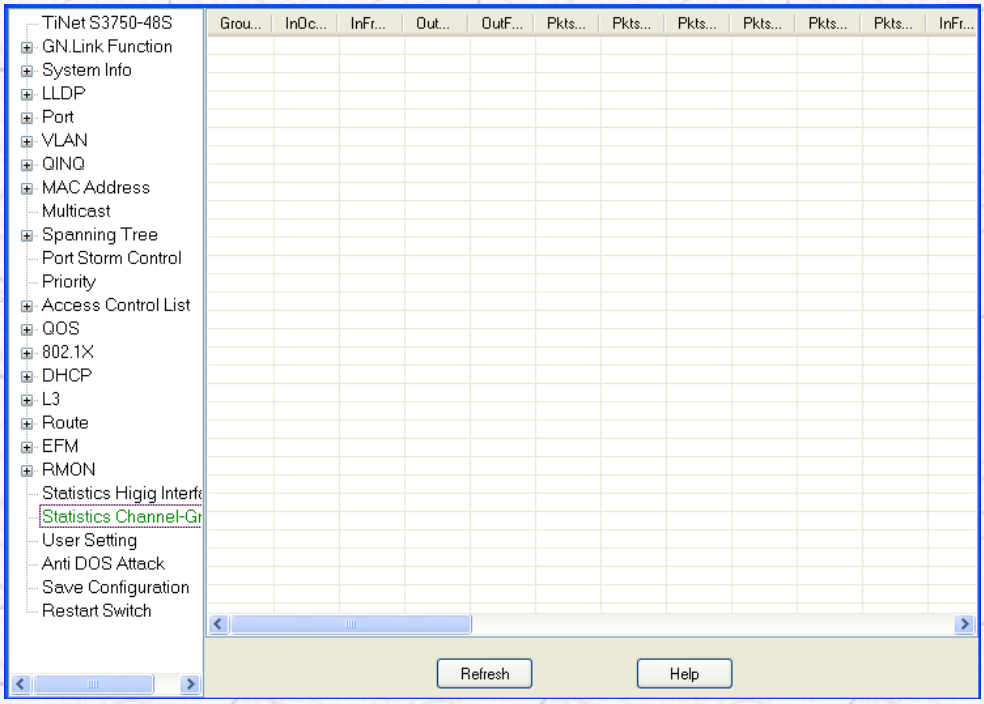


Figure29-1Static Channel Interface

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:

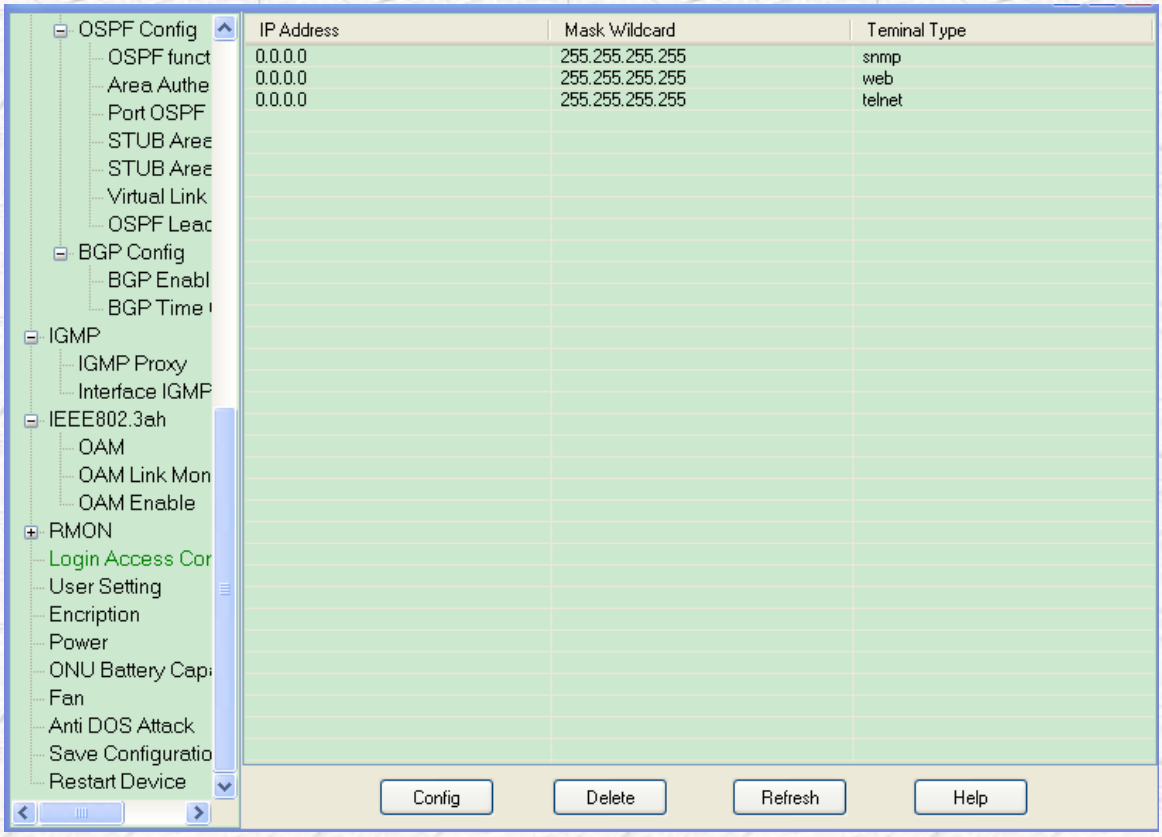


Figure30-1Login Access Control List Interface

Choose Interface one line,Click '**Config**' button pops up a parameter configuration interface. as shown:

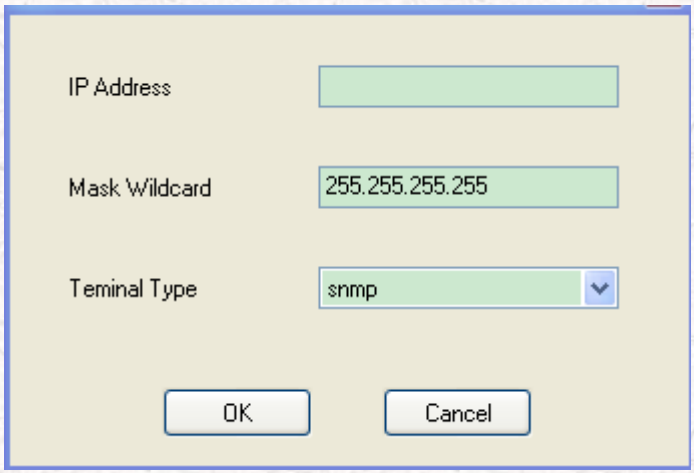


Figure30-2Login Access Control List Configuration Interface

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.

31 User Setting

The Configuration is used to Configure the permission and status of user's.Configuration interface as shown:

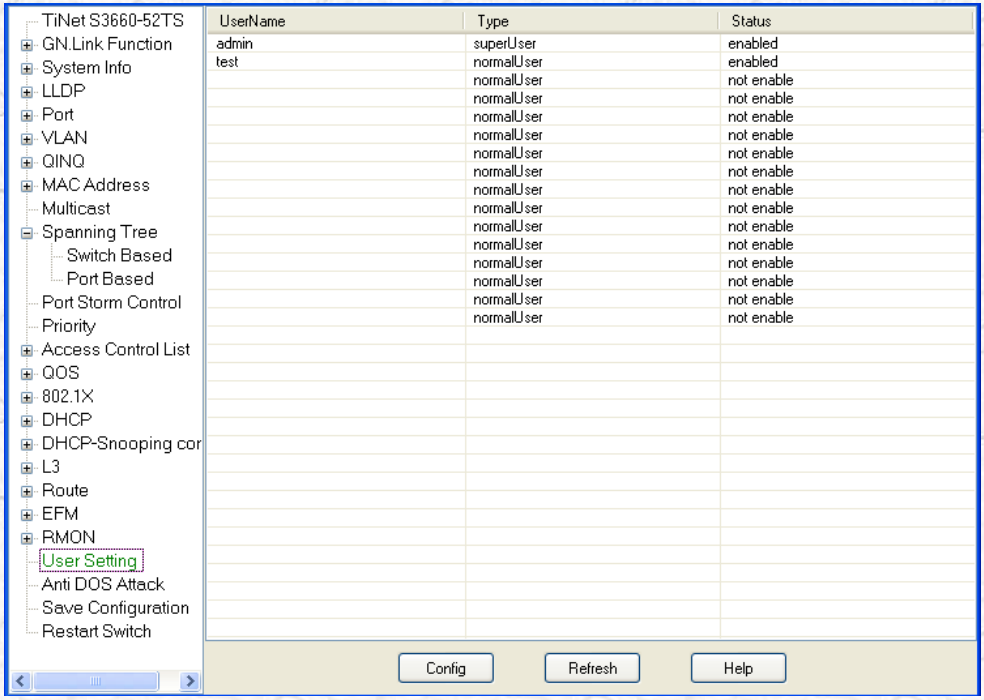


Figure31-1User Setting Interface

Choose Interface one line,Click '**Config**' button pops up a parameter configuration interface. as shown:

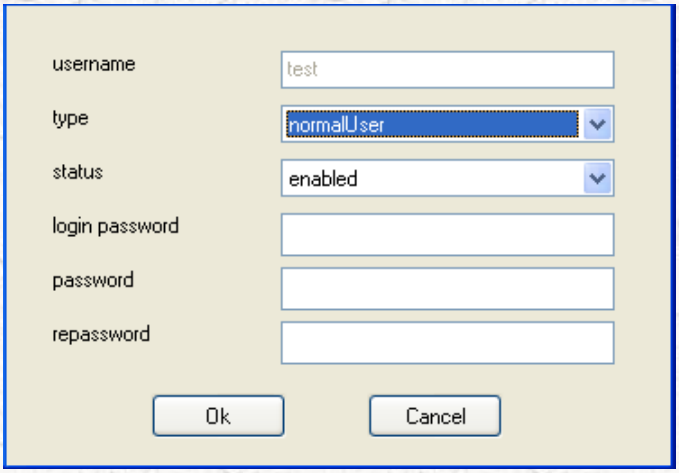


Figure31-2Parameter Configuration Interface

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:

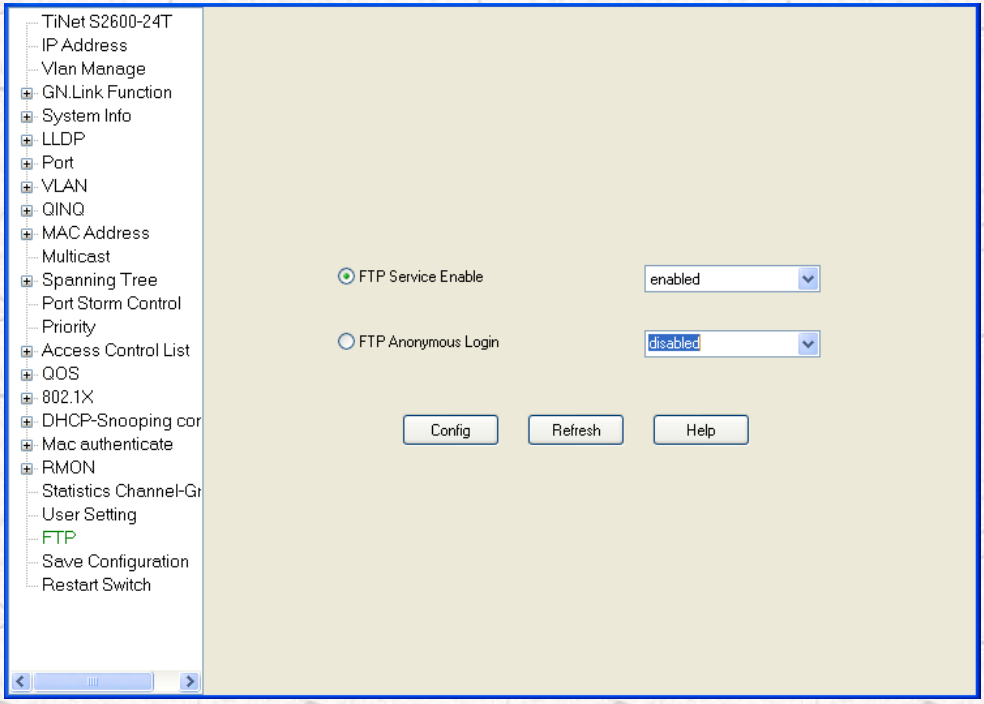


Figure32-1FTP Configuration Interface

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:

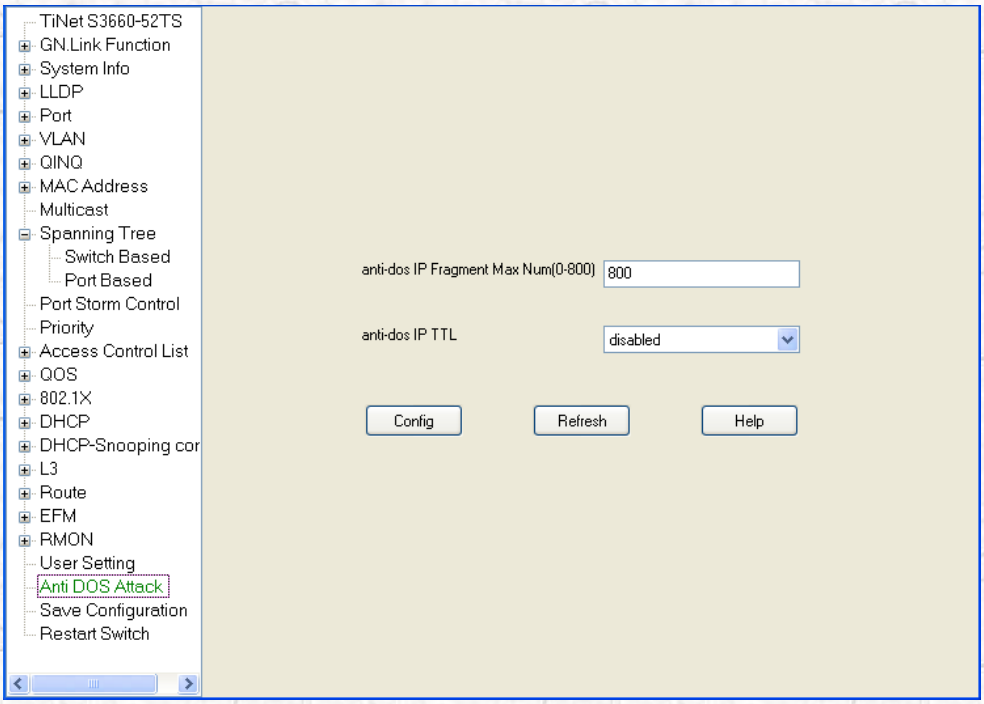


Figure33-1Anti DOS Attack Configuration Interface

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 '**Rerensh**' 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:

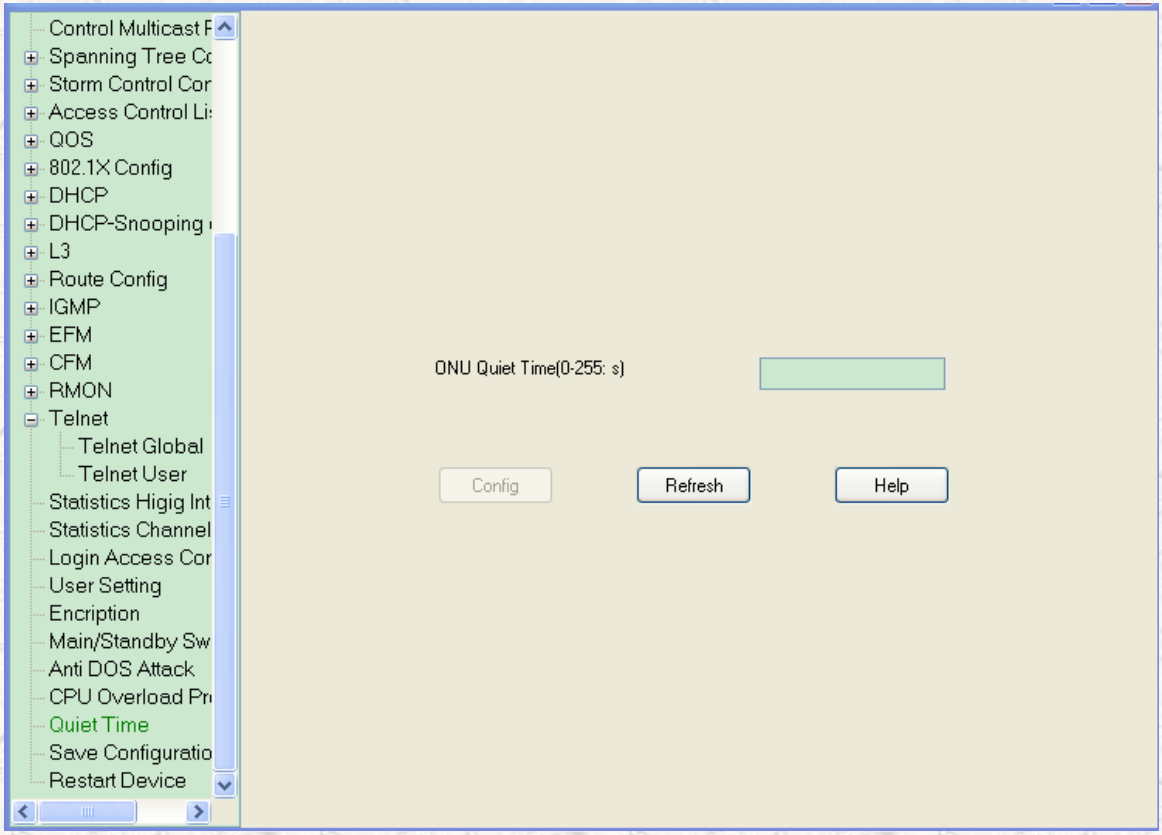


Figure35-1Quiet time Configuration Interface

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

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.

Figure36-1Save 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:

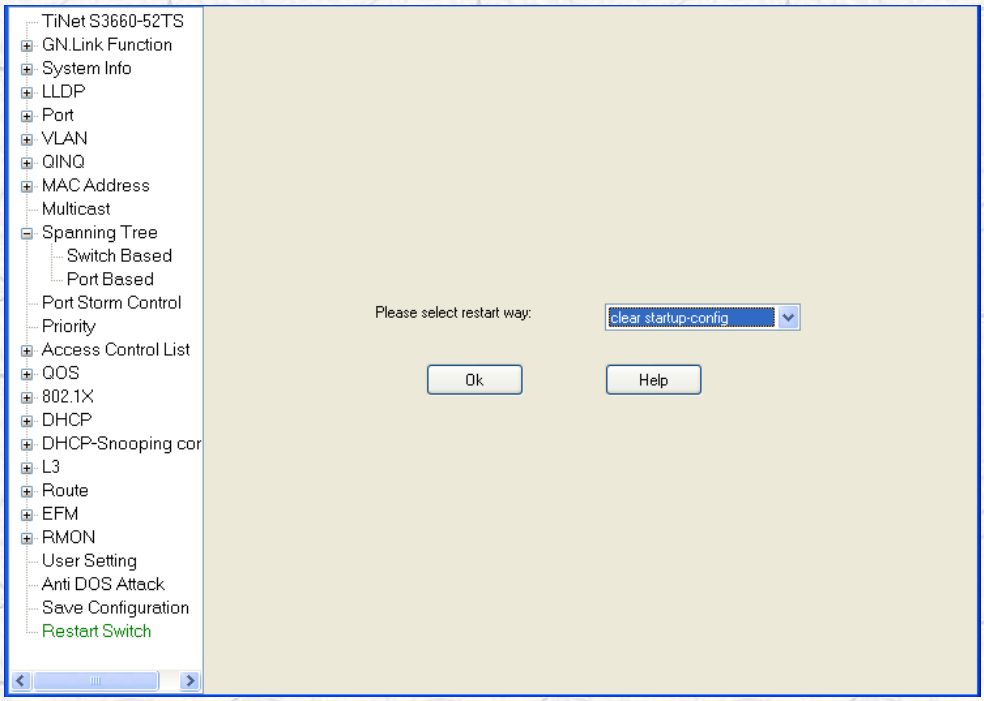


Figure37-1Restart Switch Interface

Restart, there are two ways to restart and restart the restore factory settings two typess.

If you choose ‘Restart’ and click 'OK' button, as shown dialog box appears:

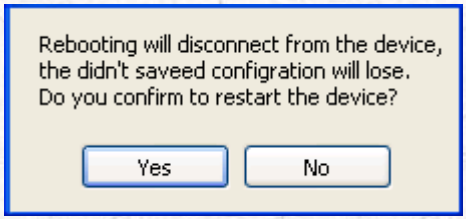


Figure37-2Make sure to restart Interface（1)

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:

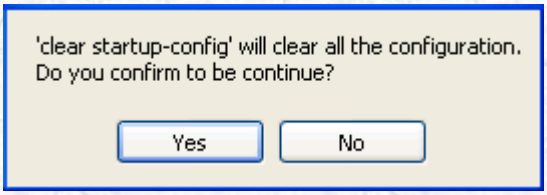


Figure37-3Make sure to restart Interface（2)

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

38.1Slot Type

Configuration interface as shown:

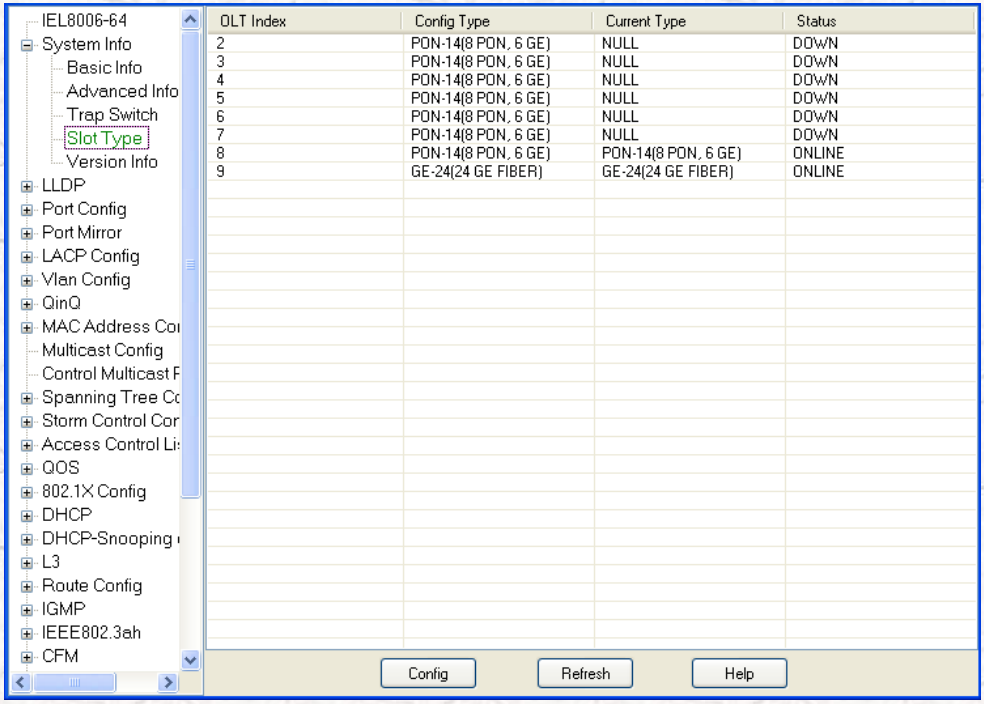


Figure38-1Slot Type Configuration Interface

Select Interface one row,Click ‘**Config**’ button pops up a parameter

configuration interface. as shown:

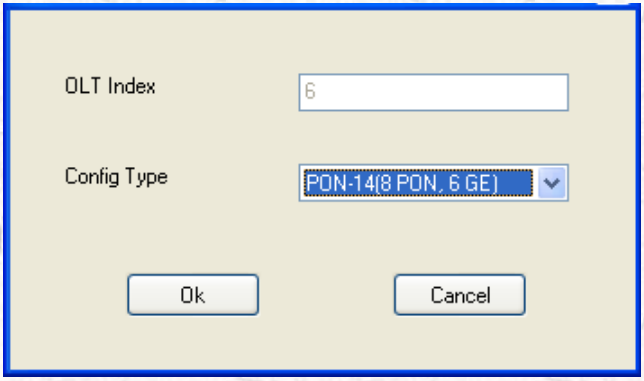


Figure38-2Parameter Configuration Interface

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:

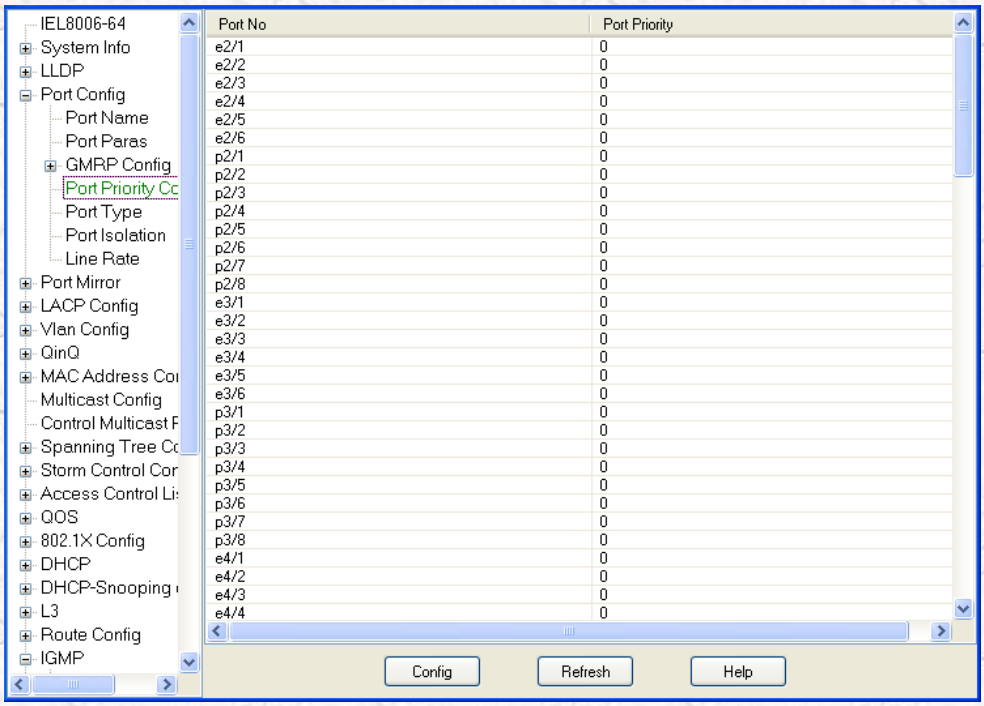


Figure38-3Port Primary Configuration Interface

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.

38.3LACP Mode Configuration

38.3.1 EPON Port Mode Configuration

Configuration interface as shown:

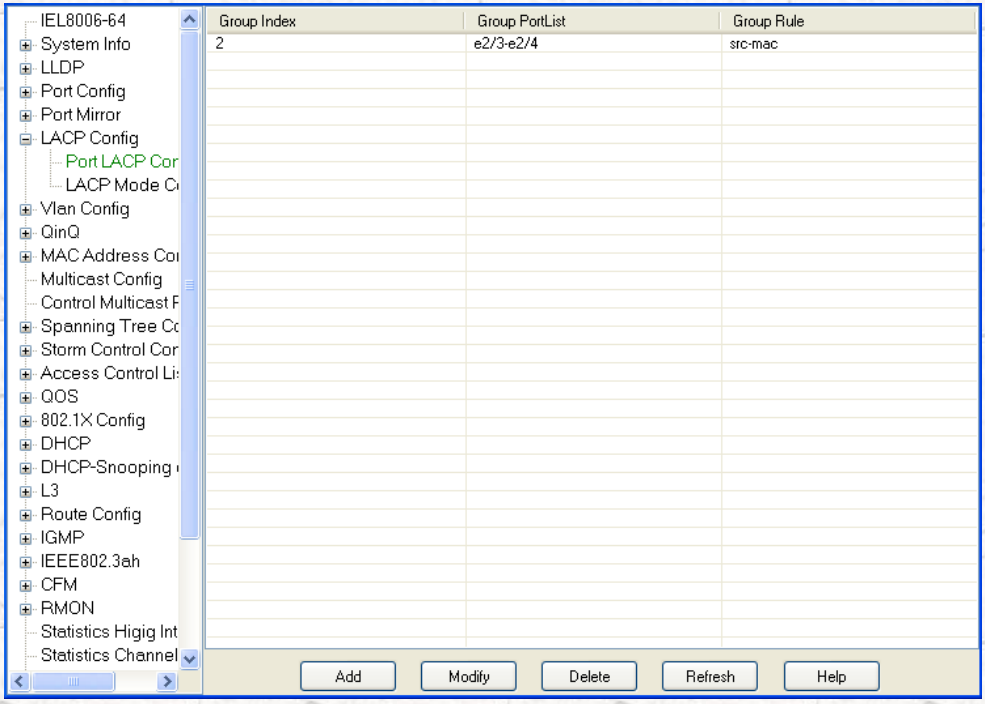


Figure38-4LACP Port ModeConfiguration Interface

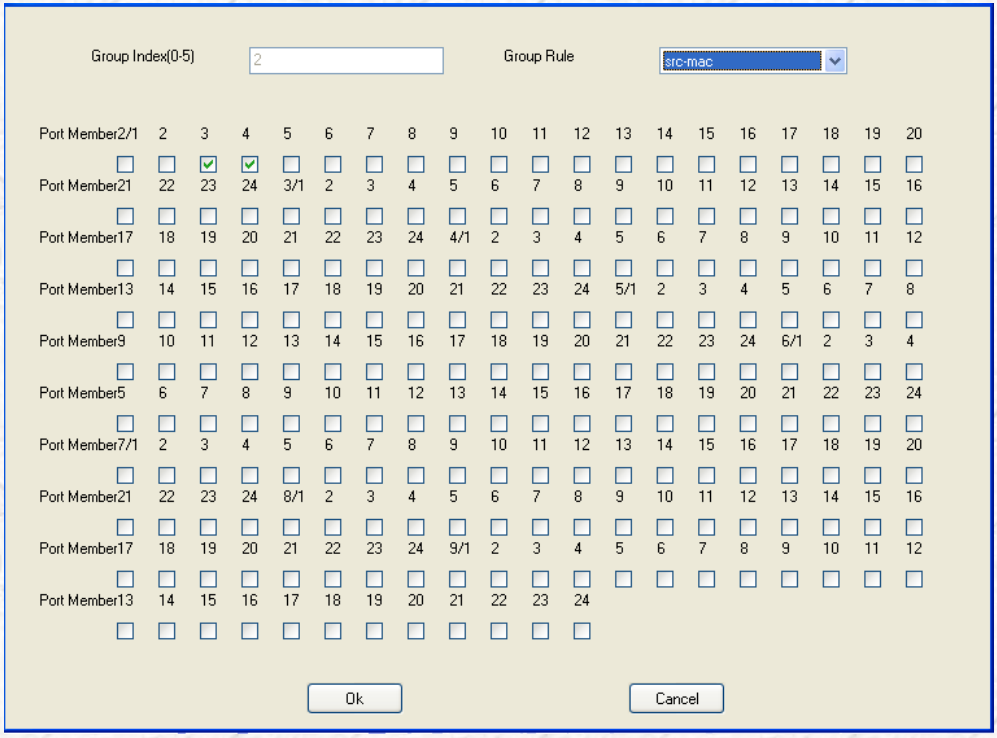


Figure38-5Parameter Configuration Interface

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:

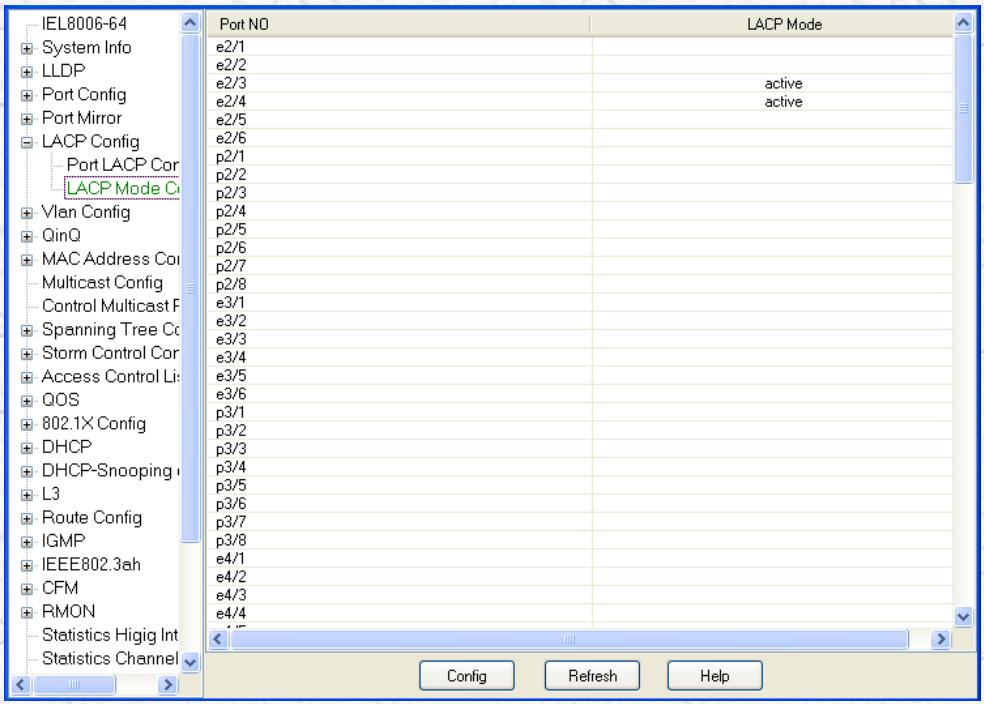


Figure38-6LACP Mode Configuration Interface

LACP mode Config:Including static,active and passive three model.

Click the '**Config**'button,System begin to configure the deivce.,Configuration and send the configuration result.

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.

38.4EPON QinQ Configuration

38.4.1 Global QinQ Configuration

Configuration interface as shown:

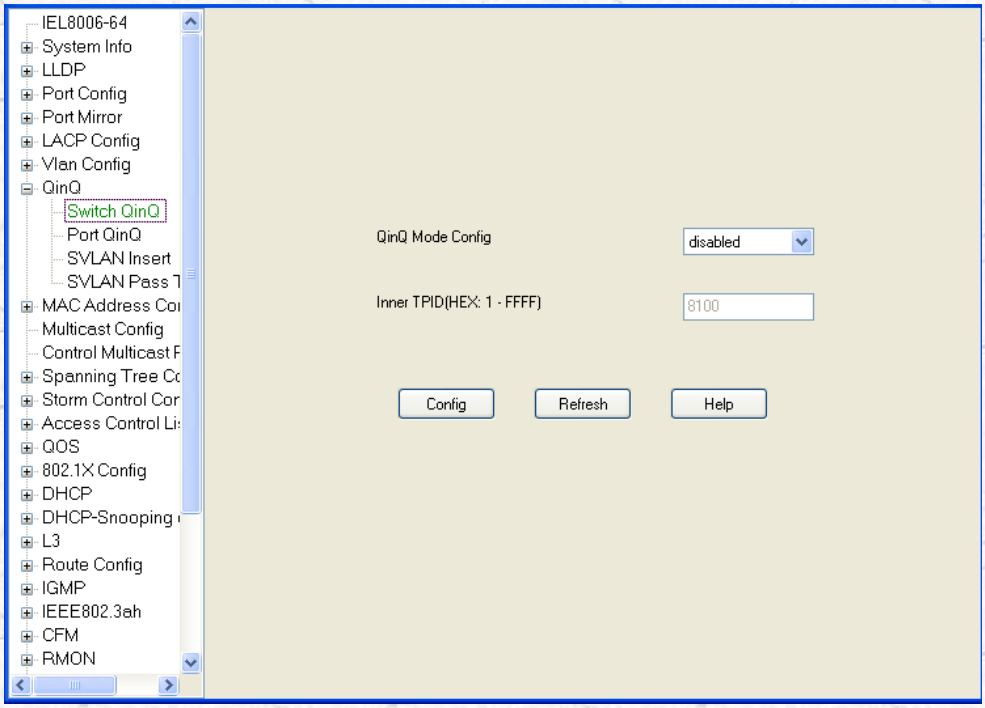


Figure38-7QinQ Configuration

Click the '**Config**'button,System begin to configure the deivce.,Configuration and send the configuration result.

Click '**Rerensh**' 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.

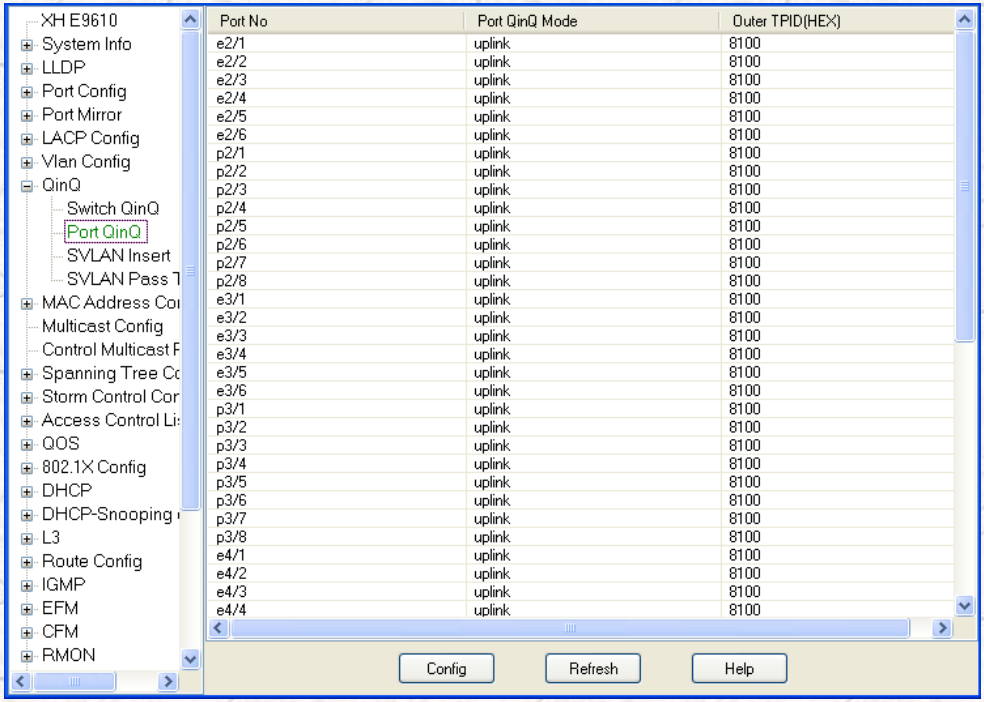


Figure38-8Port QinQConfiguration Interface

Select one row of the tabel.,Click '**Config**' button,Pop-up as shown:

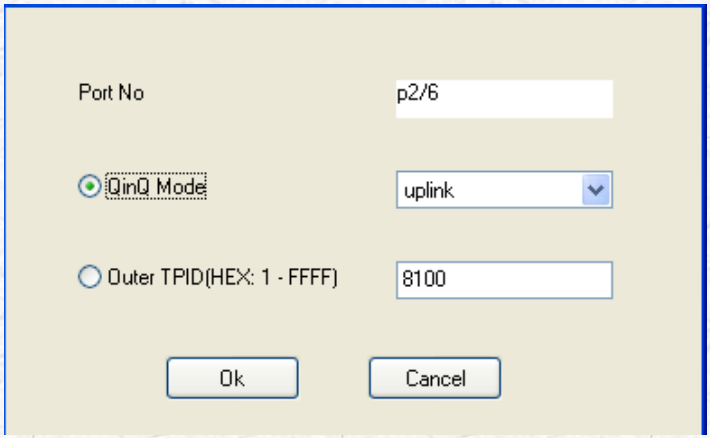


Figure38-9Port QinQ Configuration Parameter Interface

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:

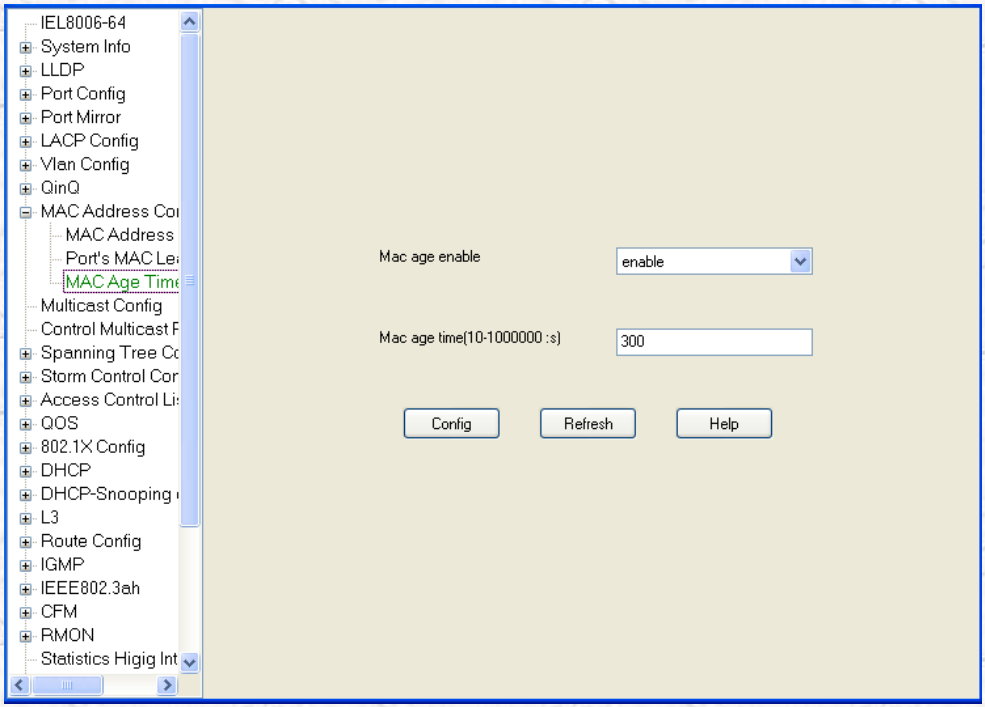


Figure 34-1 MAC Age Time Configuration Interface

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.

38.6Control Multicast Parameter Configuration

Configuration interface as shown:

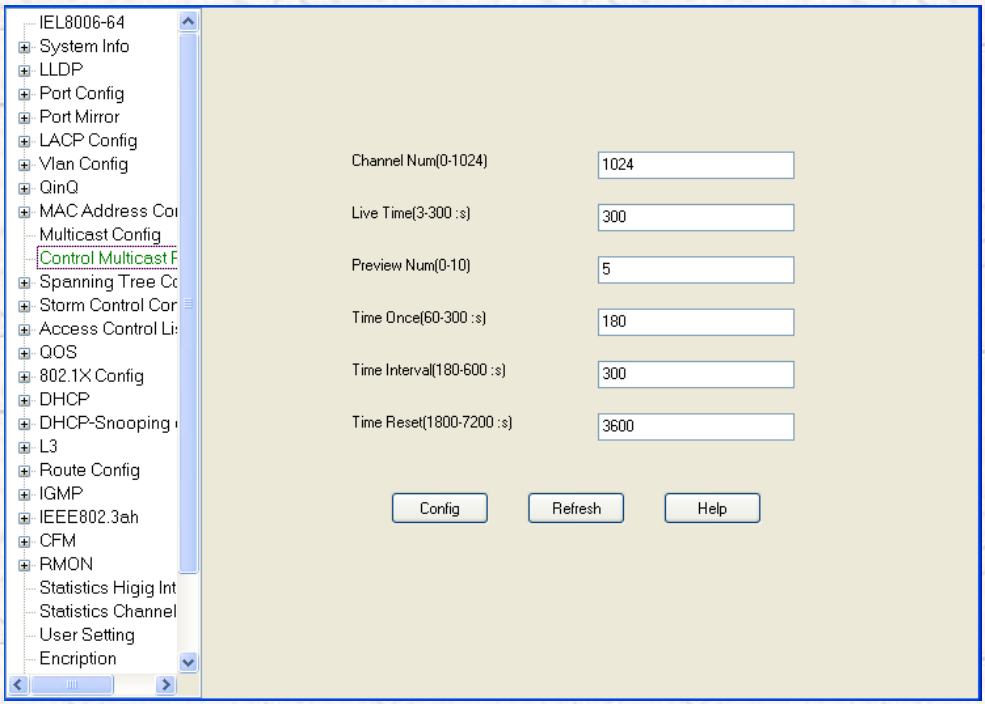


Figure38-10Control Multicast Parameter Configuration Interface

Click '**Config**' button,The system begin to configure the equipment and give the result after configuration.

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

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

38.7Storm Control Configuration

38.7.1 Switch Undefined Message Forword Configuration

Configuration Interface as shown:

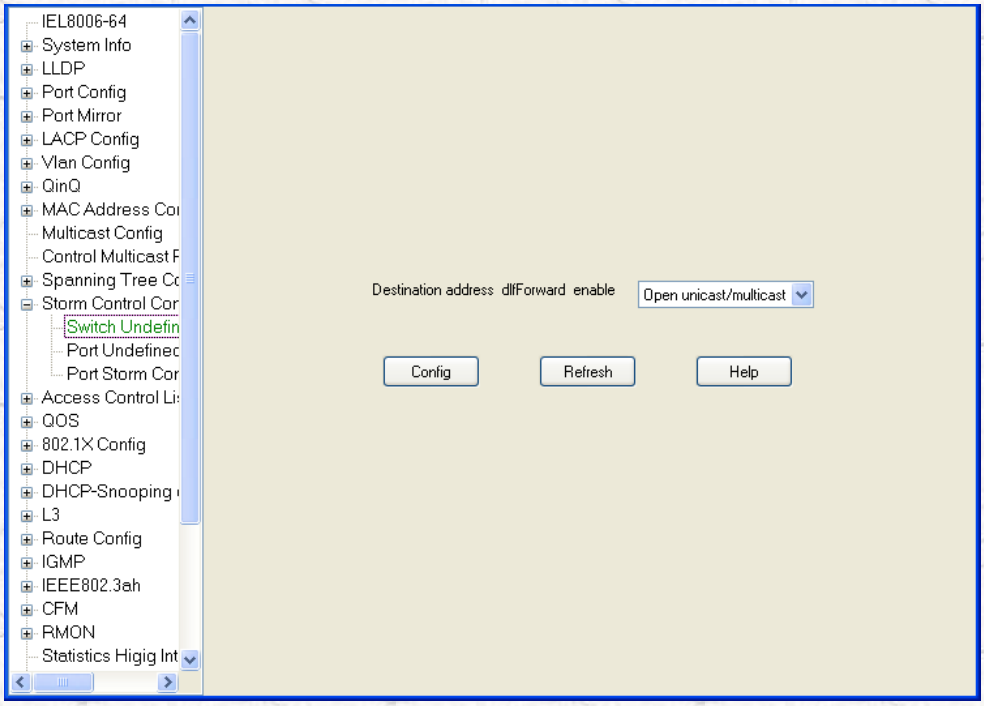


Figure38-11Swicth Undefined Message Forward Configuration Interface

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.

38.7.2 Port Undefined Message Forword Configuration

Configuration Interface as shown:

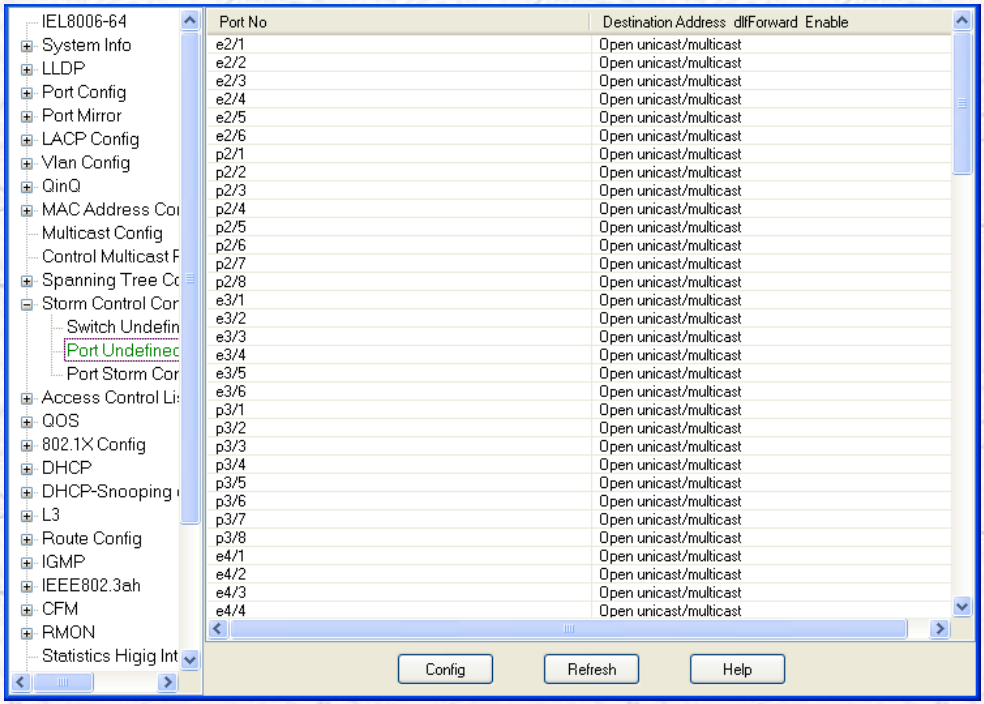


Figure38-12Port Undefined Message Forward Configuration Interface

Select a row in a table,that is,a port ,Click’**Config**’ button, Interface as shown:

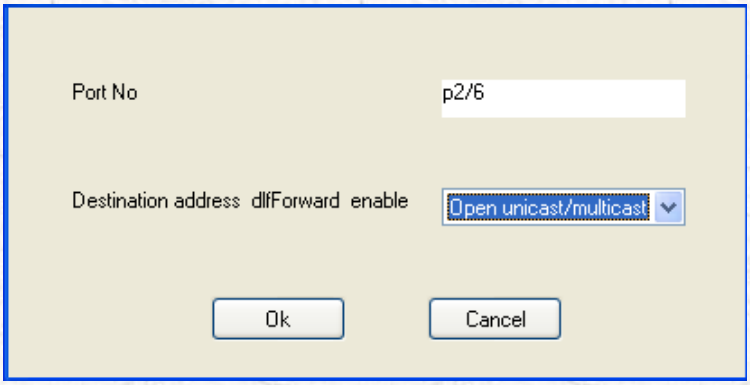


Figure38-13Parameter Configuration Interface

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:

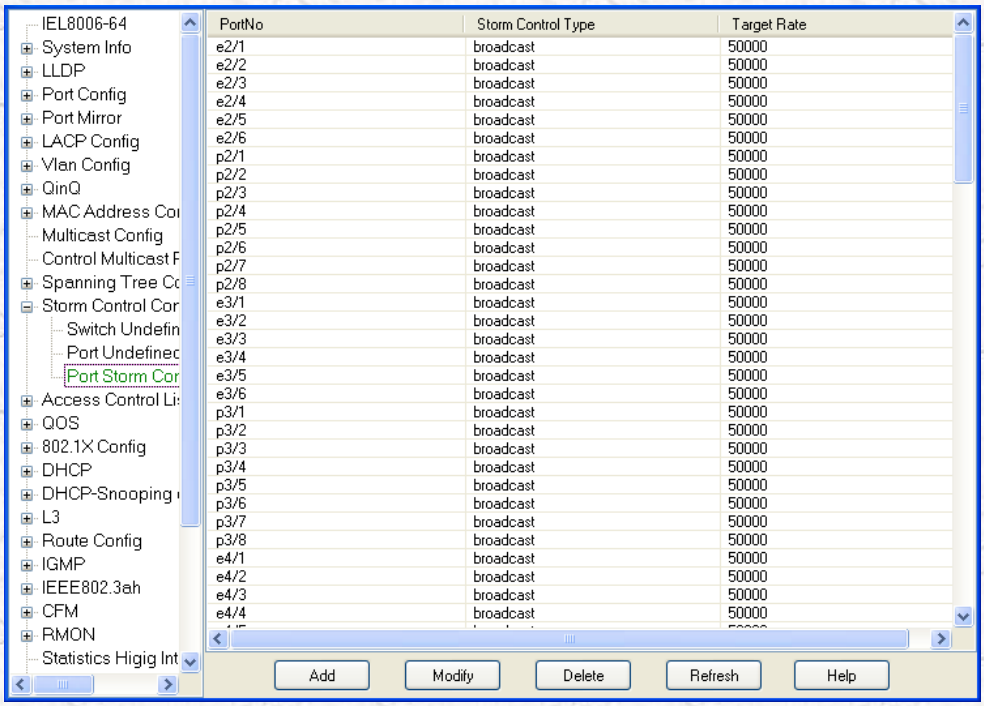


Figure38-14Unicast/MultiCast/BroadCast Control Interface

Select a row in a table,that is,a port ,Click '**Edit**' button,It will appear the Interface:

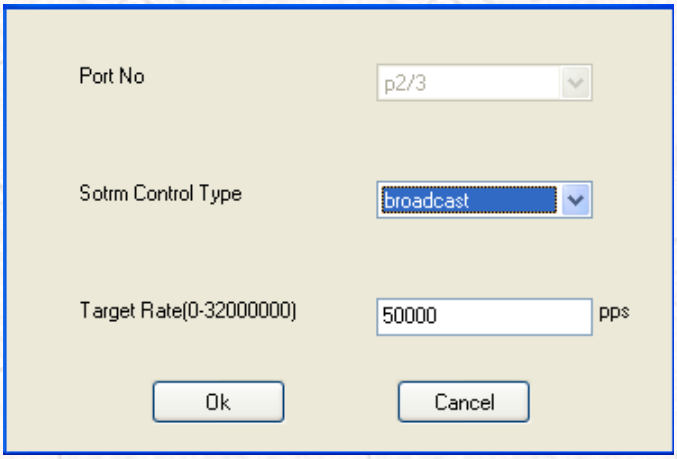


Figure38-15Parameter Configuration Interface

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.

38.8Queue Schedule

Configuration interface as shown:

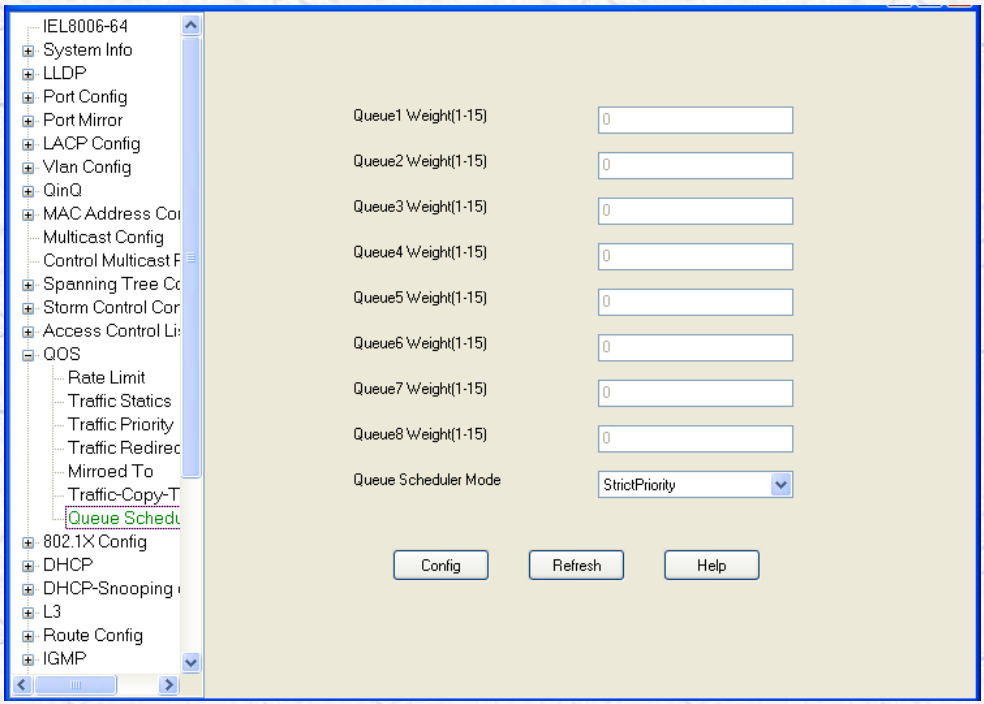


Figure38-16Queue Schedule Interface

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

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

38.9IGMP

38.9.1 IGMP Proxy Configuration

Configuration interface as shown:

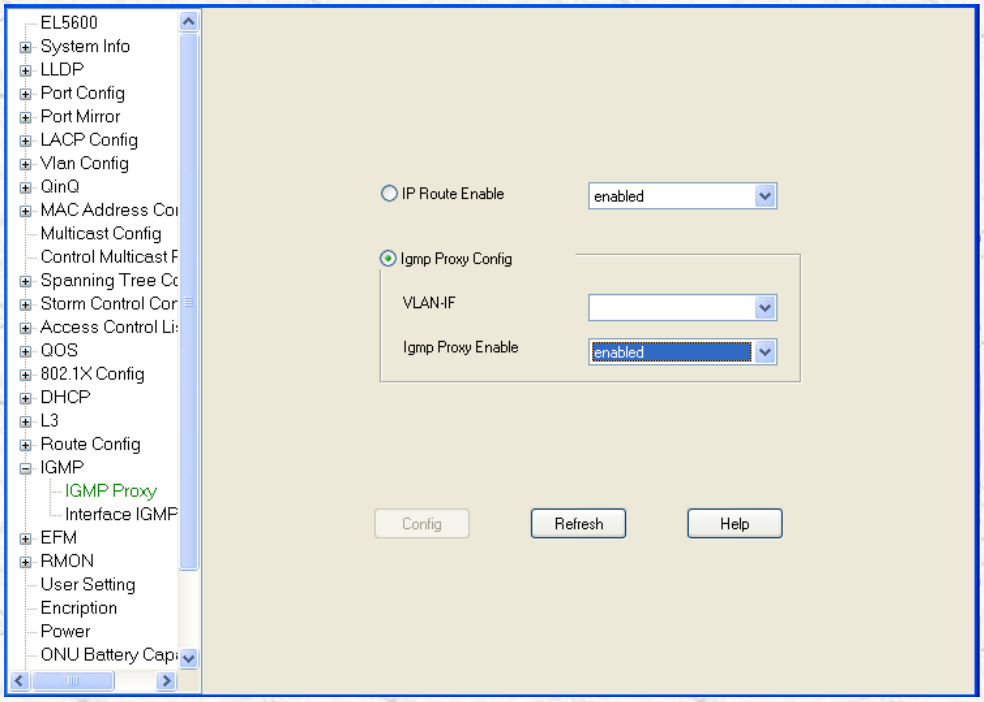


Figure38-17IGMP proxy Configuration Interface

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:

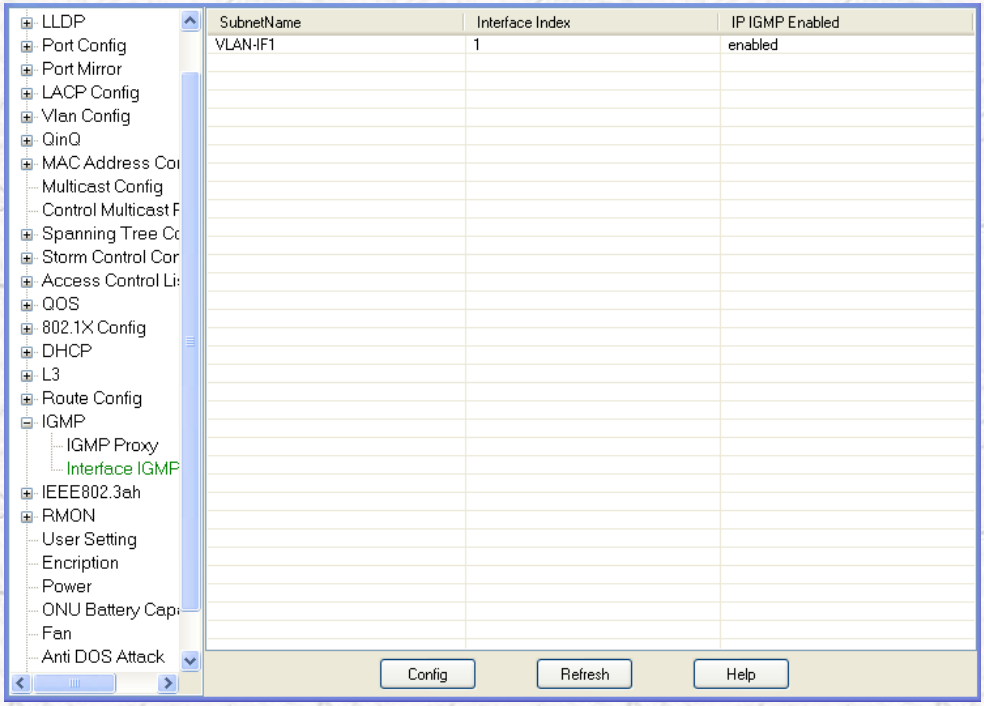


Figure38-18Interface IGMPEnabledConfiguration Interface

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.

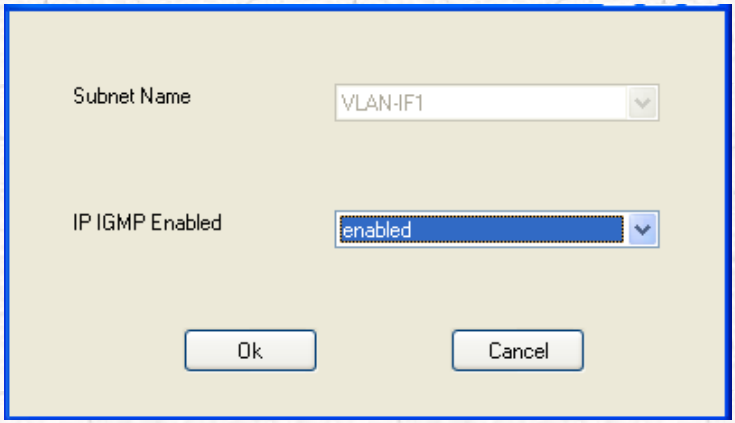


Figure38-19Parameter Configuration Interface

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.

38.10CFM 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:

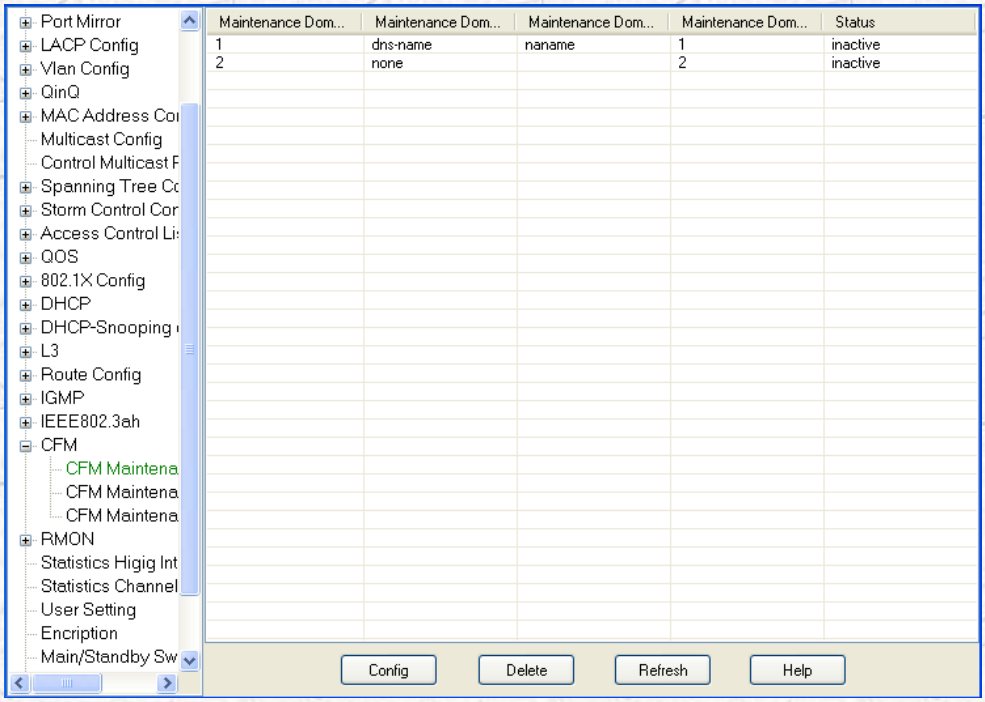


Figure38-20CFM Maintenacnce Domain Configuration Interface

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:

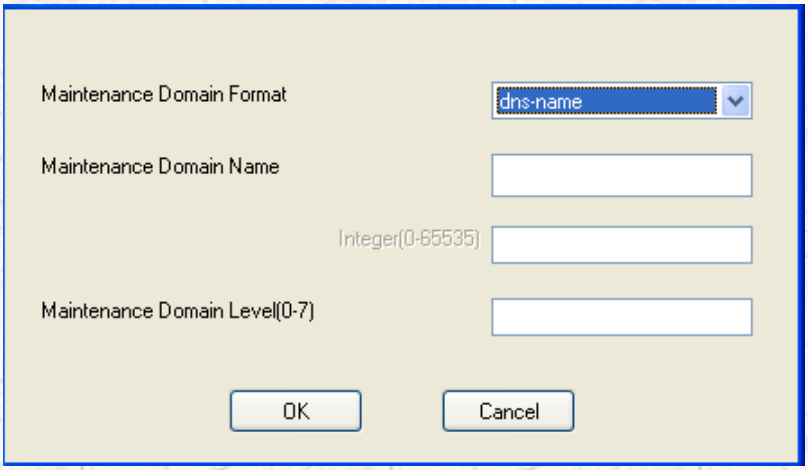


Figure38-21Parameter Configuration Interface

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:

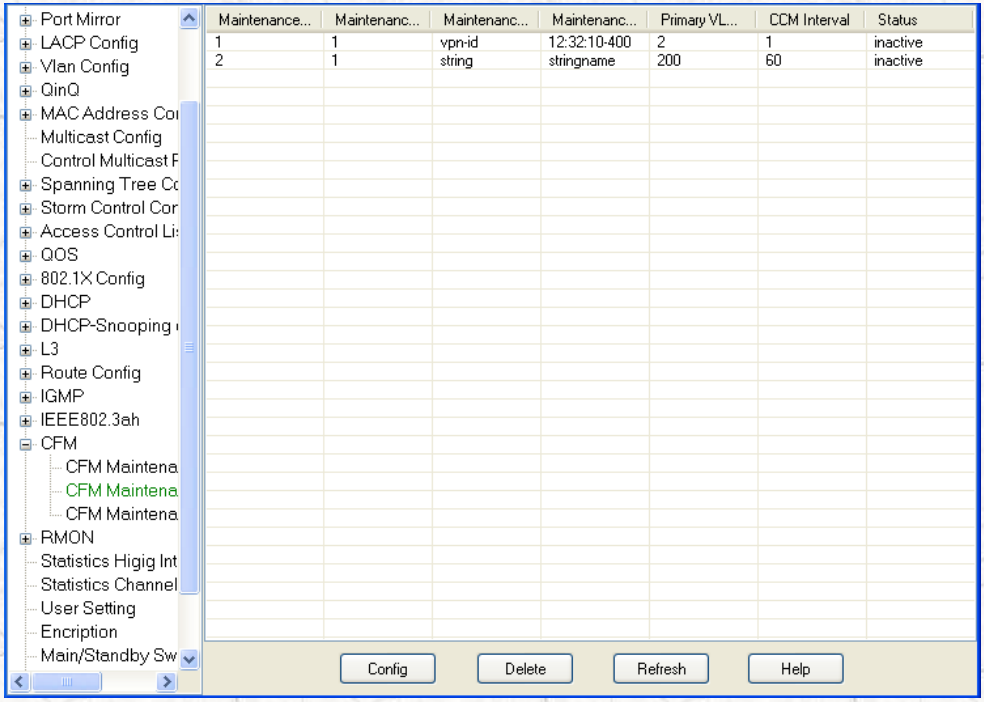


Figure38-22CFM Maintenance Configuration Interface

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:

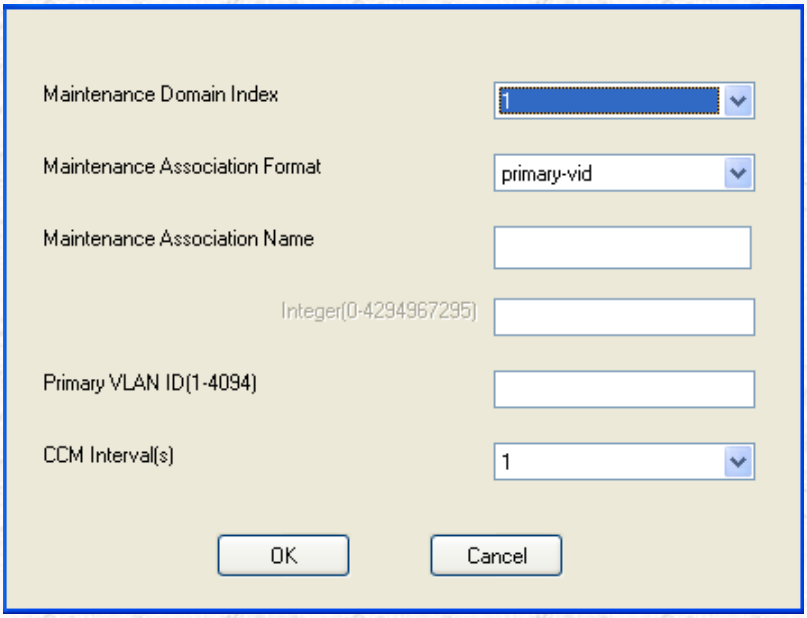


Figure38-23Parameter Configuration Interface

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:

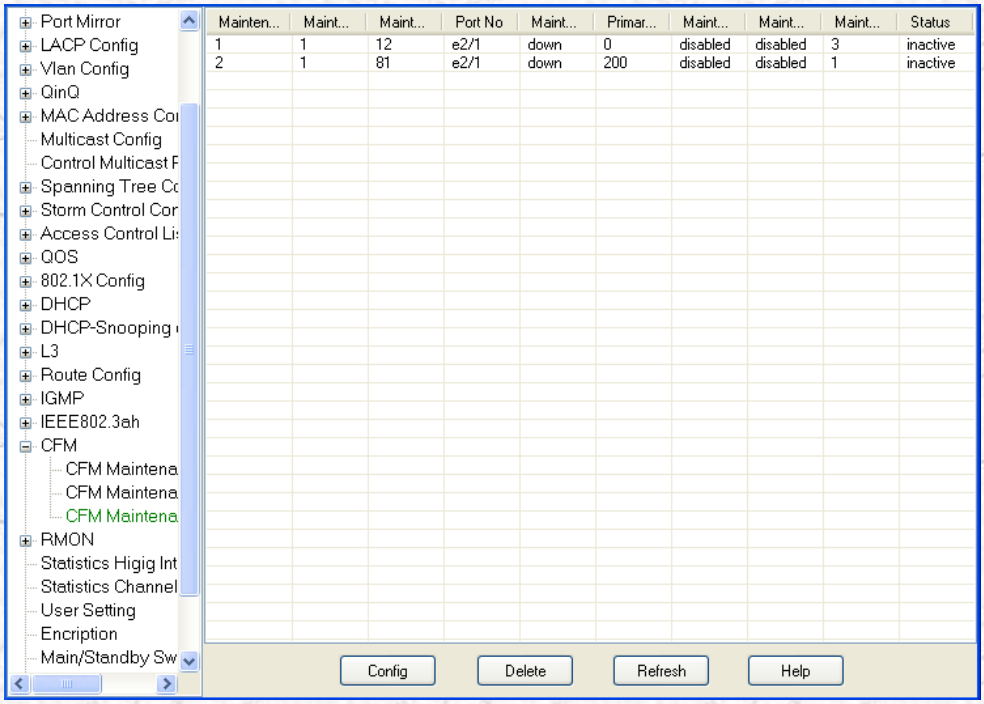


Figure38-24CFM Maintenance Point Configuration Interface

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

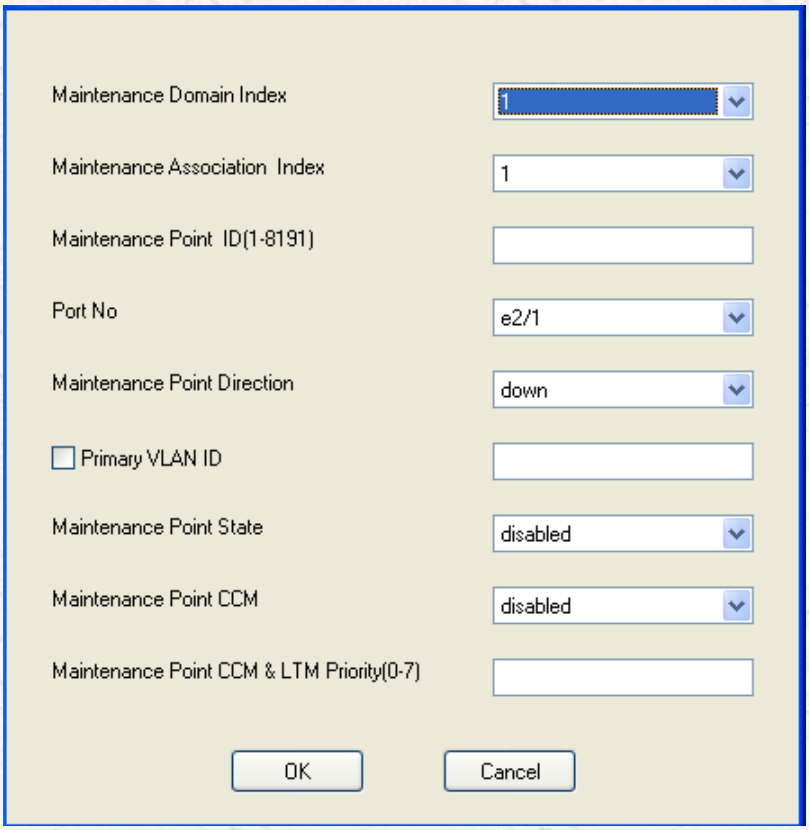


Figure38-25Parameter Configuration Interface

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.

38.11Enctription Configuration

Configuration interface as shown:

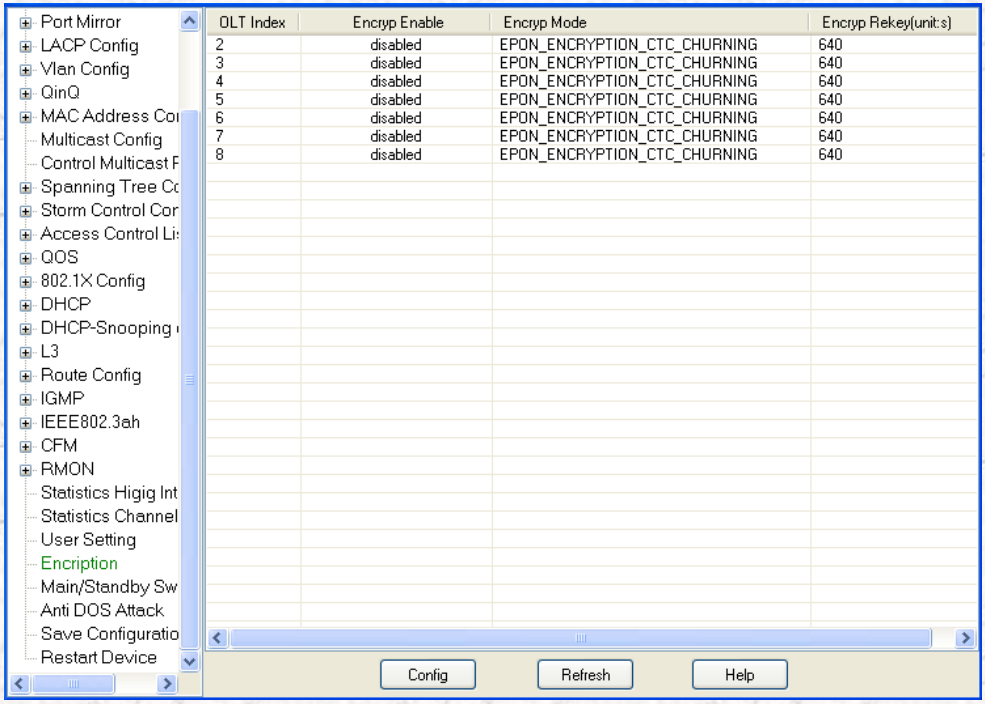


Figure38-26Encription Configuration Interface

Select one row of the Interface,Click ‘**Config**’ button pops up a parameter configuration interface. as shown:

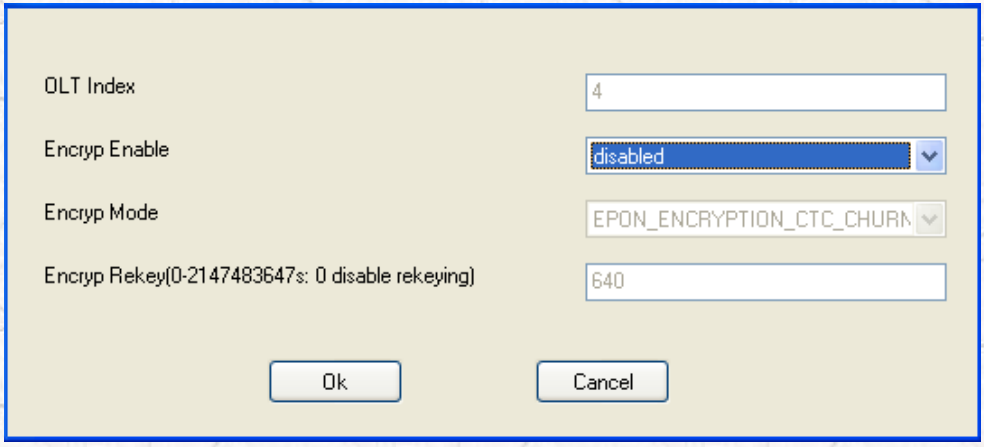


Figure38-27Parameter Configuration Interface

Encrp 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.

38.12Power Configuration

Configuration interface as shown:

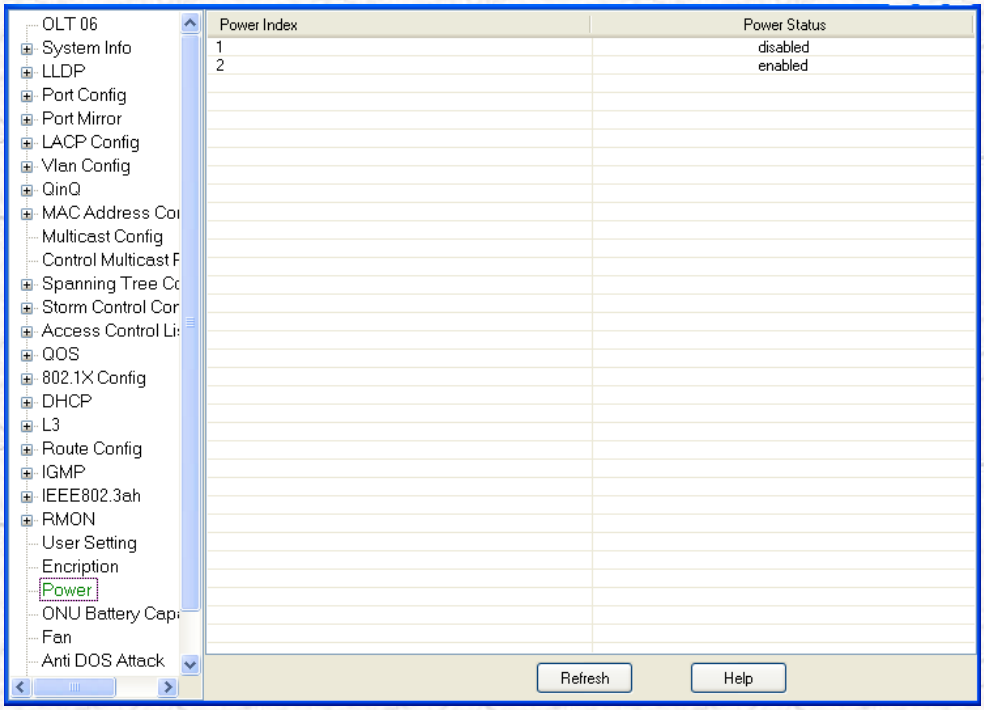


Figure38-28Power Configuration Interface

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.

38.13ONU Battery power

Configuration interface as shown:

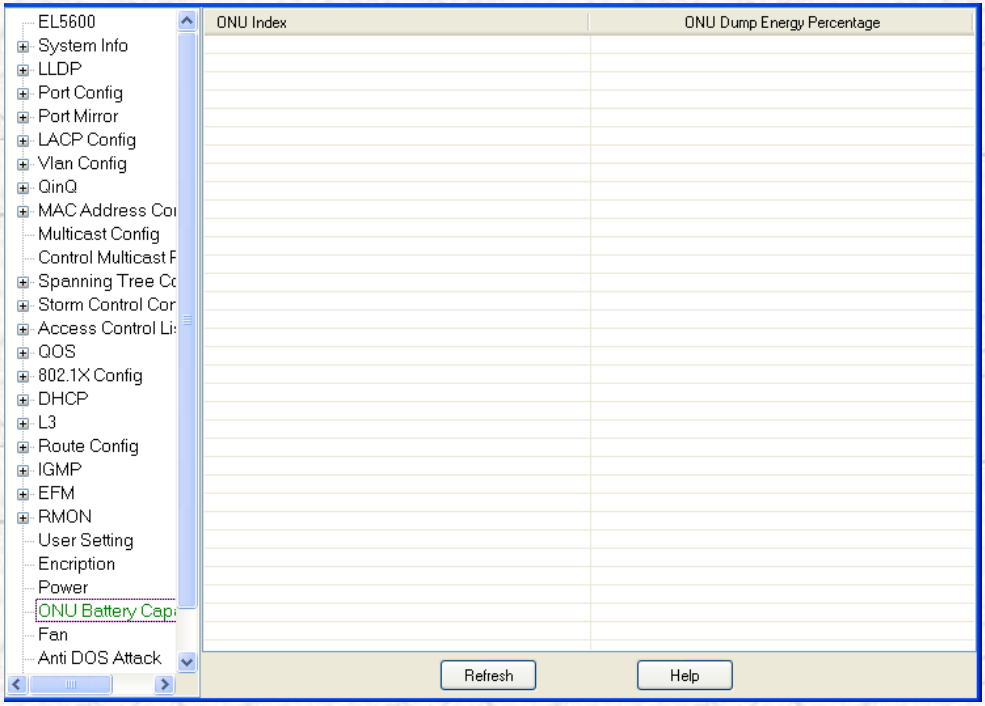


Figure38-29ONU Battery Power Configuration Interface

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.

38.14Fan Configuration

Configuration interface as shown:

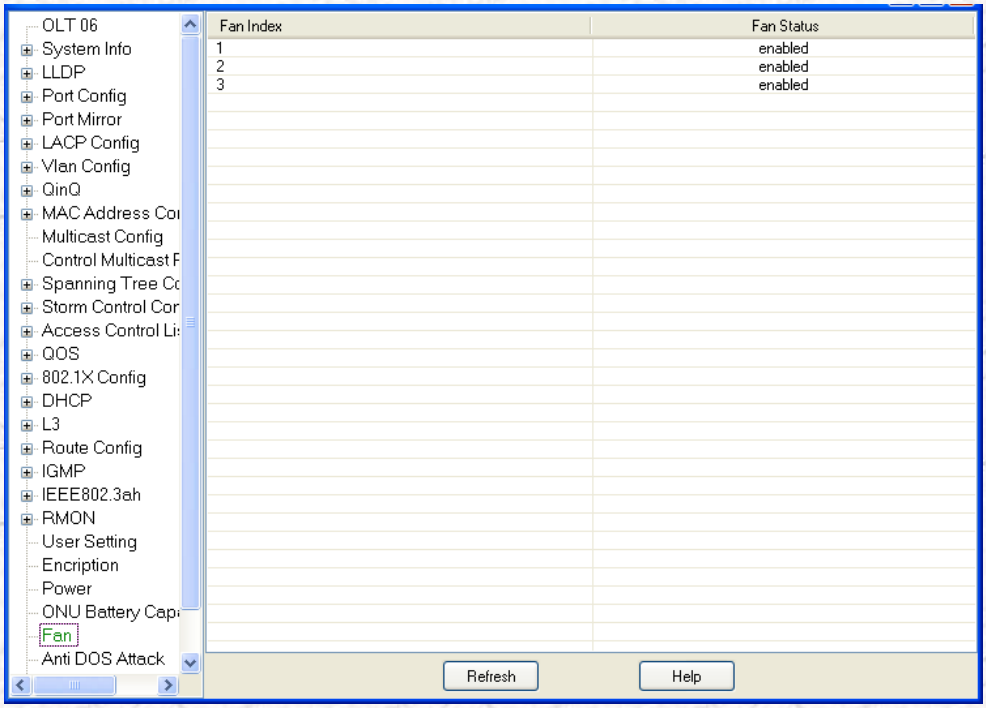


Figure38-30Fan Configuration Interface

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.

38.15Main/standby Switch Configuration

Configuration interface as shown:

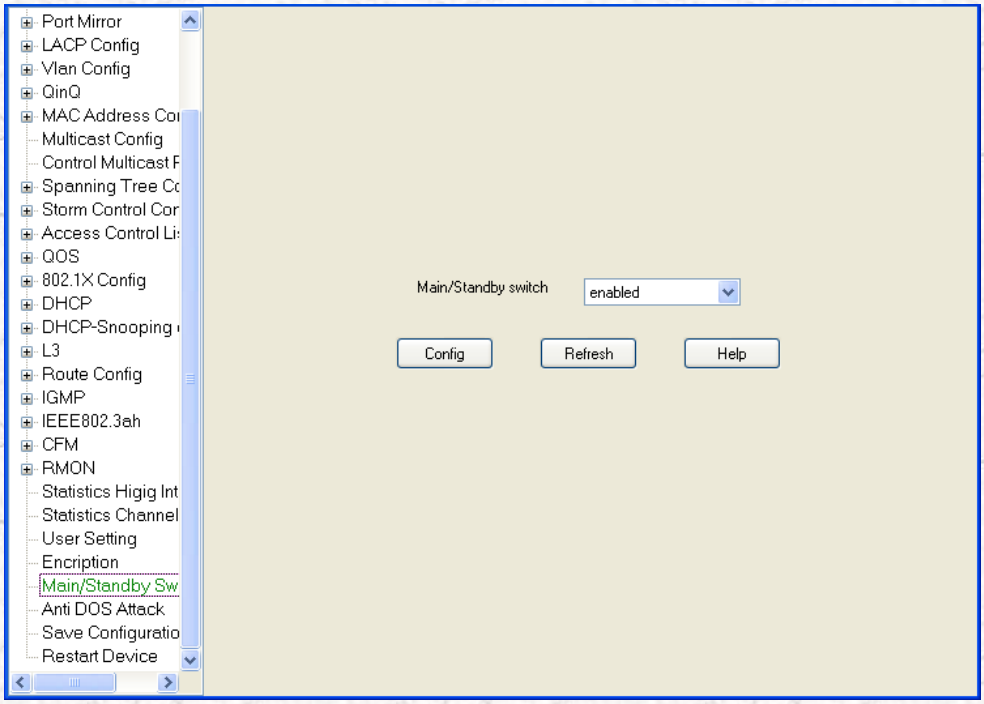


Figure38-31Main/StandbyConfiguration Interface

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.

38.16EPON Save Configuration

Configuration interface as shown:

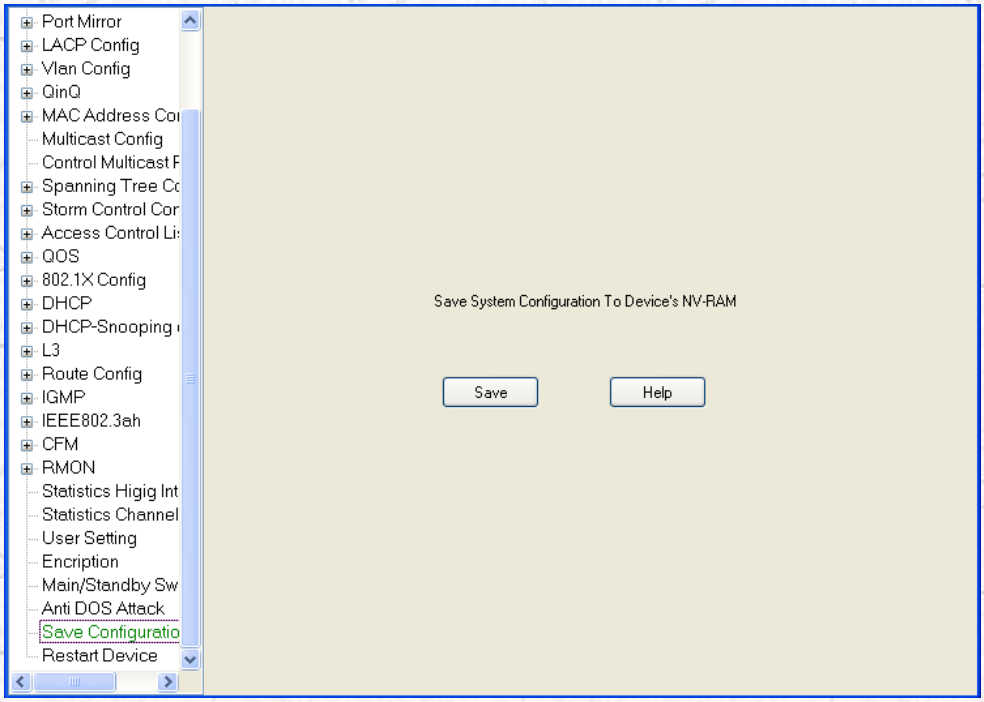


Figure38-32Save Configuration Interface

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.

38.17Restart Device

Configuration interface as shown:

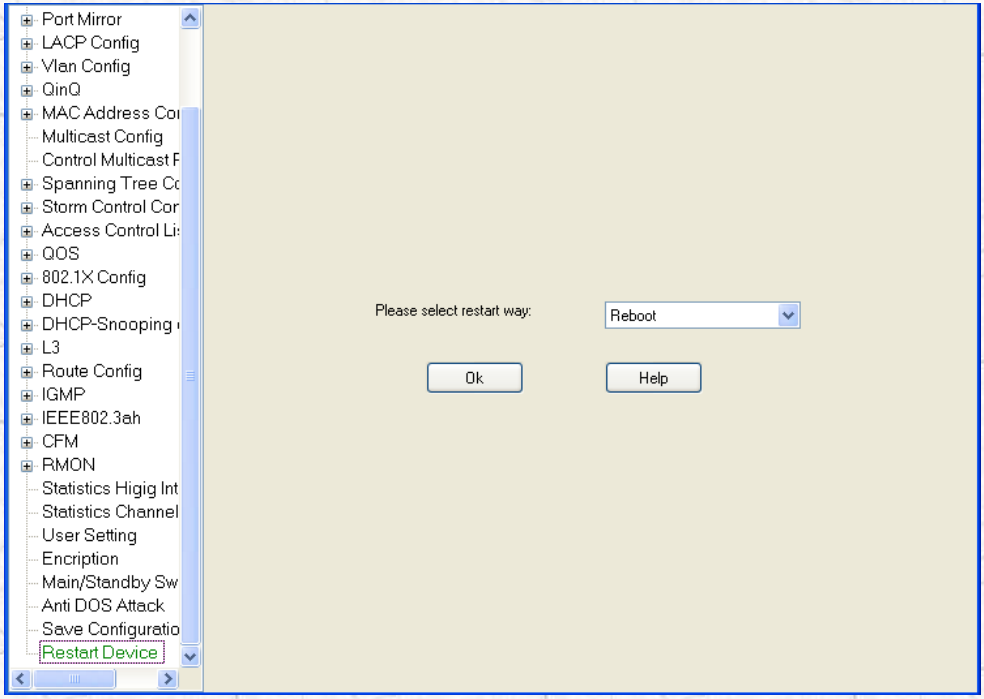


Figure38-33Restart device Interface

The style of restart has two types,including restart EPON and clear start-up config.

Click ‘**Ok**’ button,The system begin to confiure the equipment and give the result after configuration.

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

39 EPON OLT Configuration Management

39.1OLT Version information

OLT version information interface as the shown Figure:

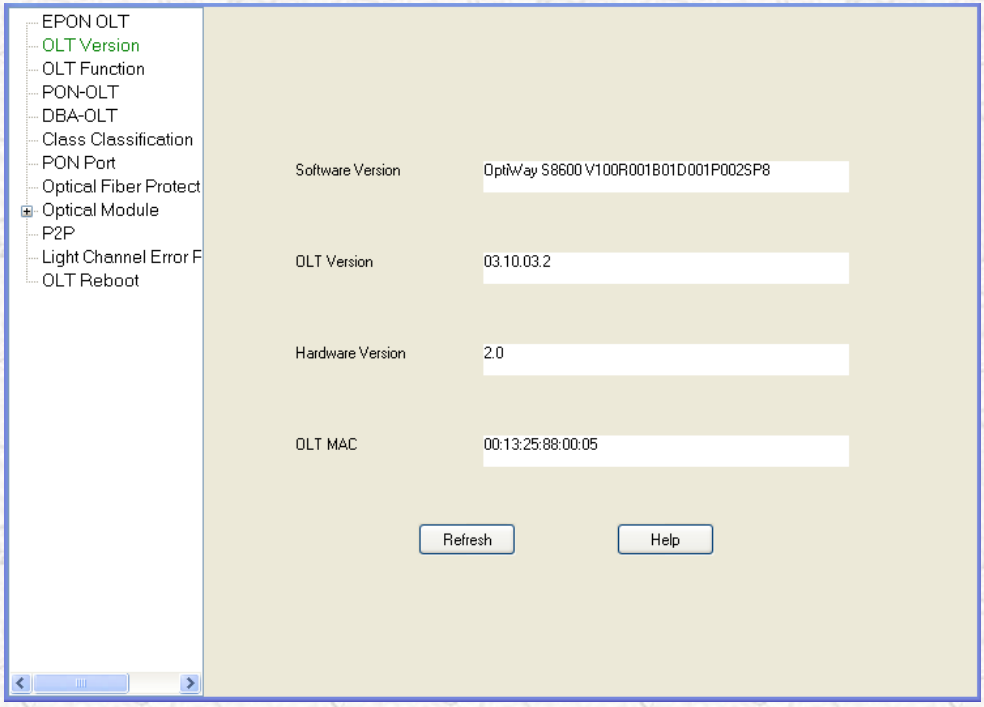


Figure39-1OLT version information interface

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:

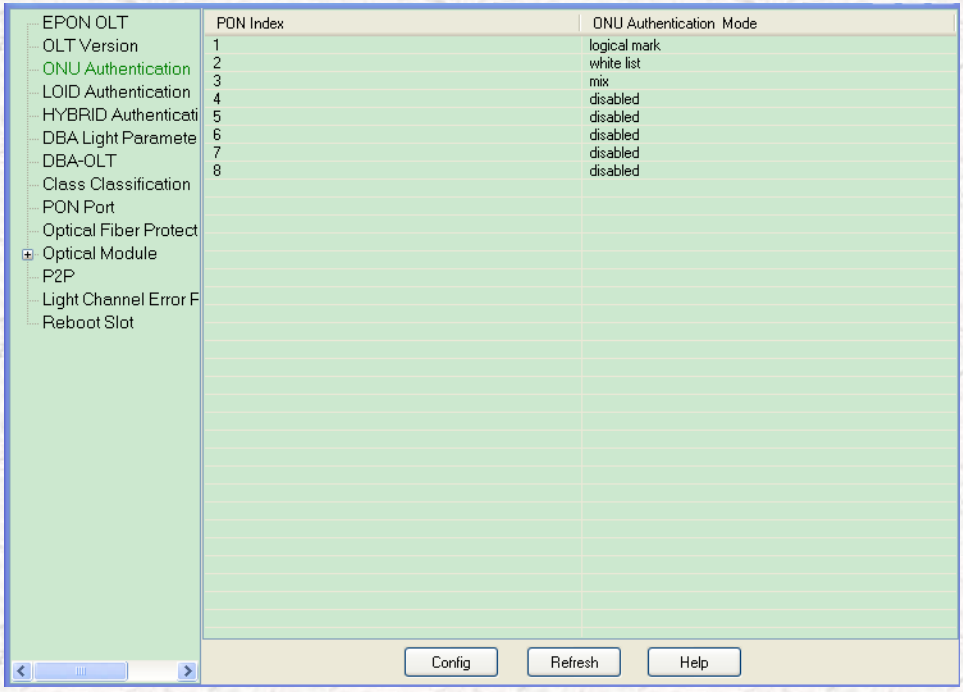


Figure39-2OLT function configuration interface

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:

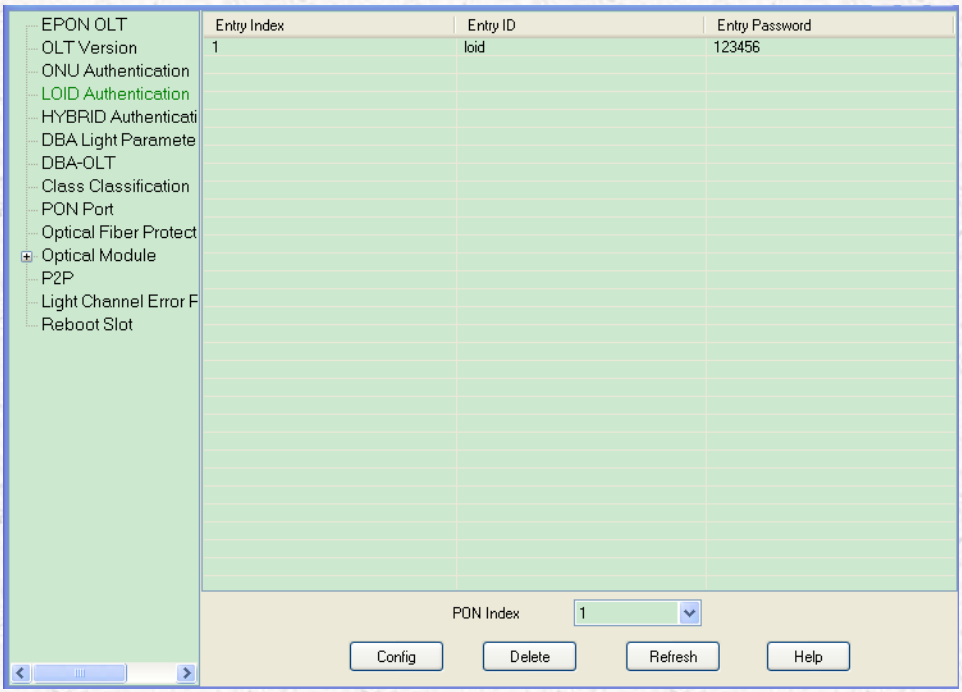


Figure39-3LOID Authentication configuration interface

click the' **Config”** button, there will appear a parameter configuration interface. As the shown figure:

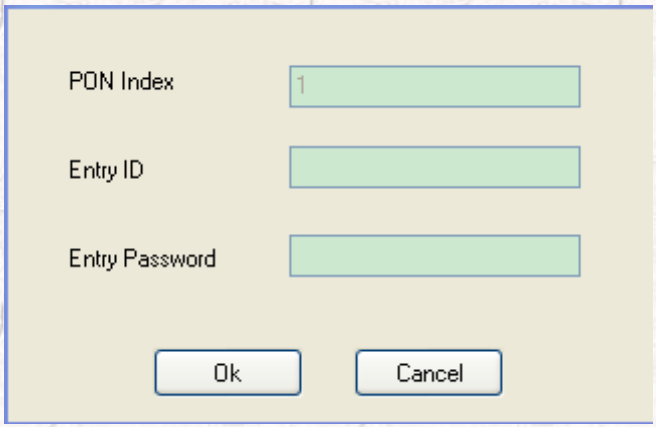


Figure39-4Parameter configuration interface

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:

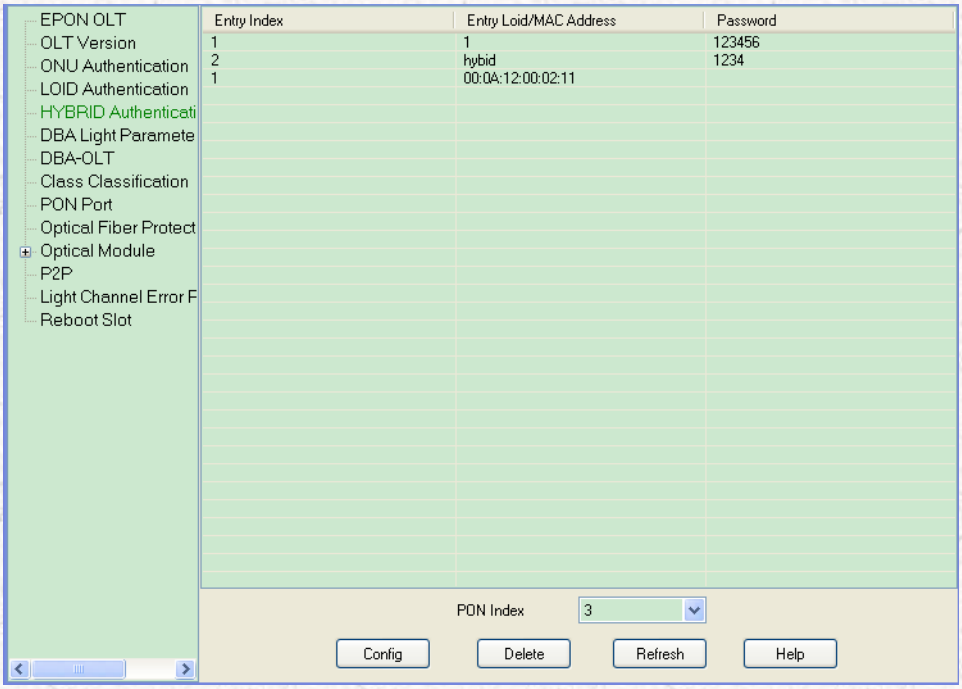


Figure39-5HYBRID Authentication configuration interface

click the' **Config”** button, there will appear a parameter configuration interface. As the shown figure:

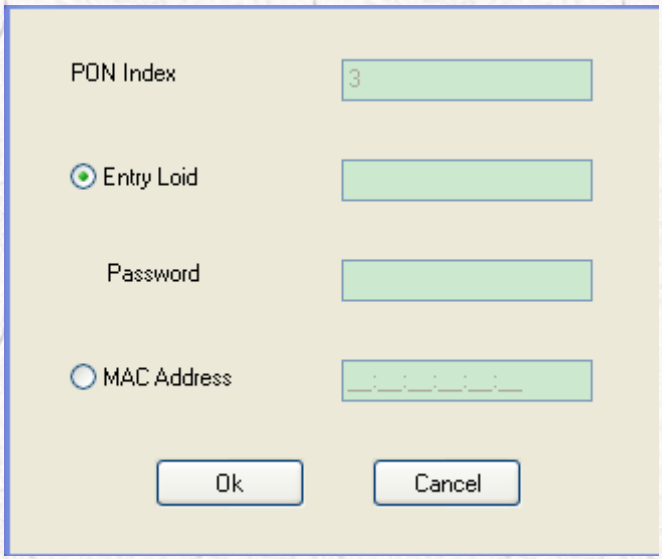


Figure39-6Parameter configuration interface

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:

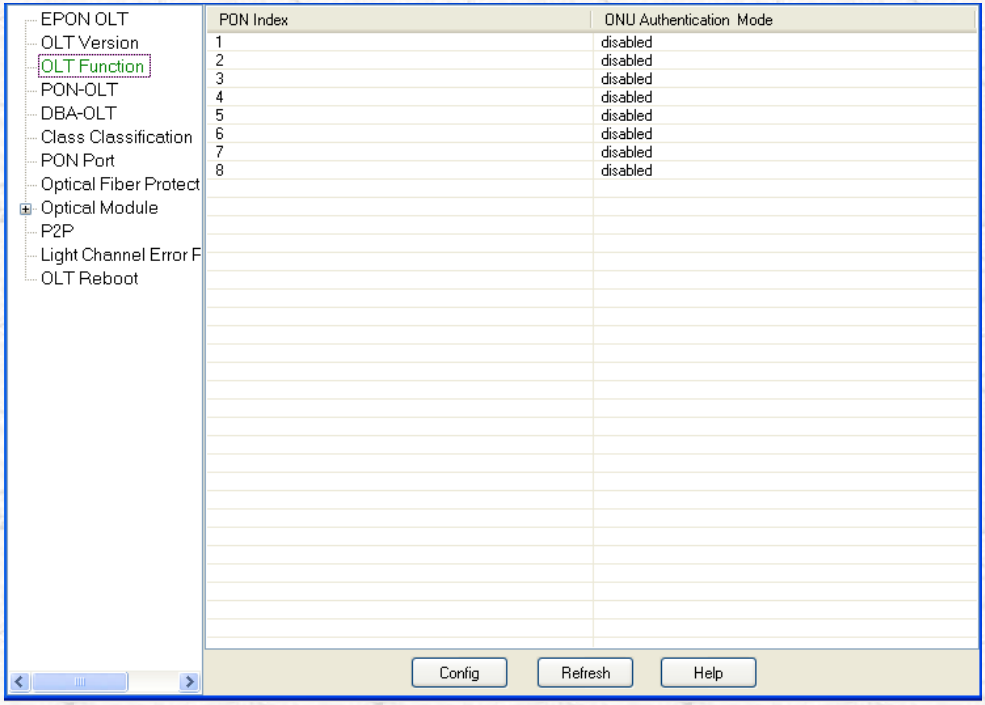


Figure39-7OLT function configuration interface

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.

39.6PON-OLT configure

Configuration interface as the shown figure:

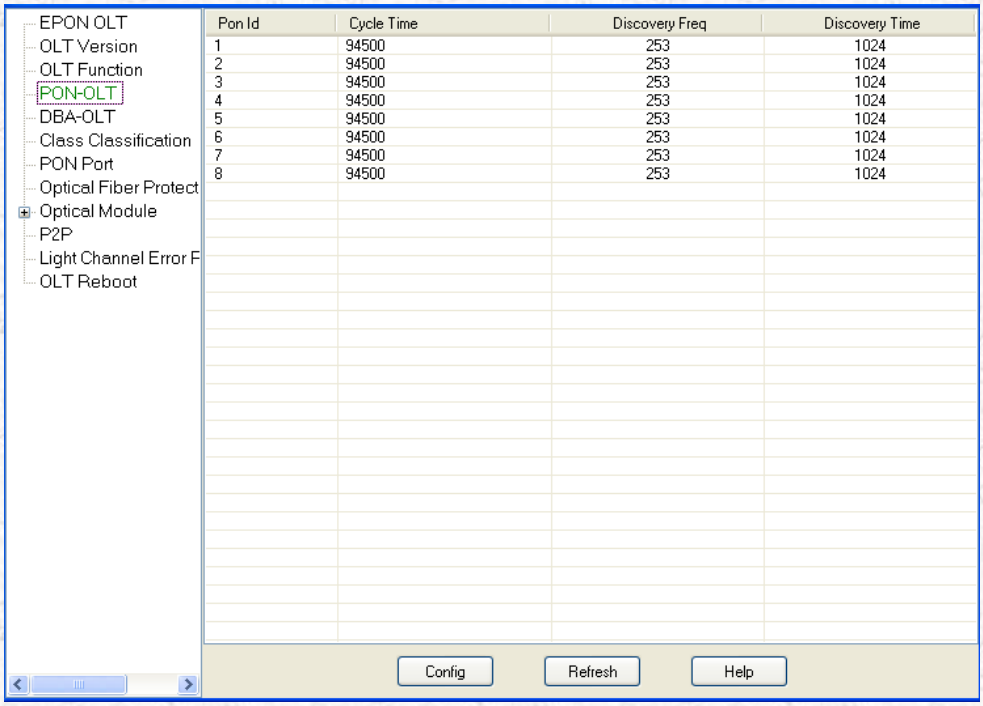


Figure39-8PON-OLT configuration interface

Select one of the line in the interface, click the' **Config”** button, there will appear a parameter configuration interface. As the shown figure:

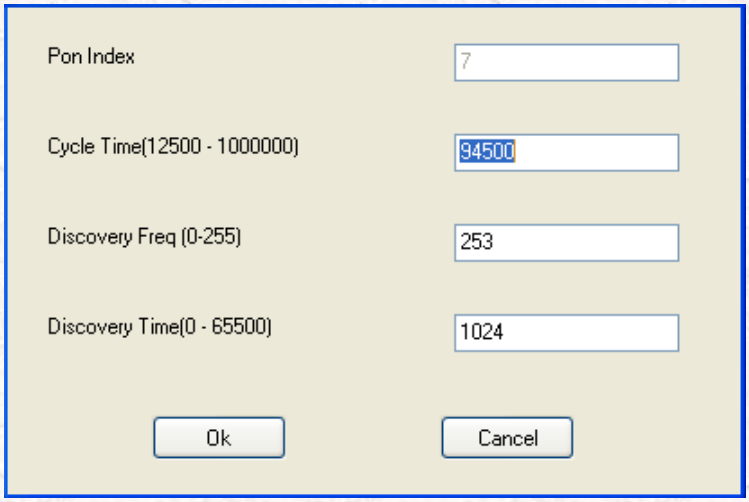


Figure39-9Parameter configuration interface

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:

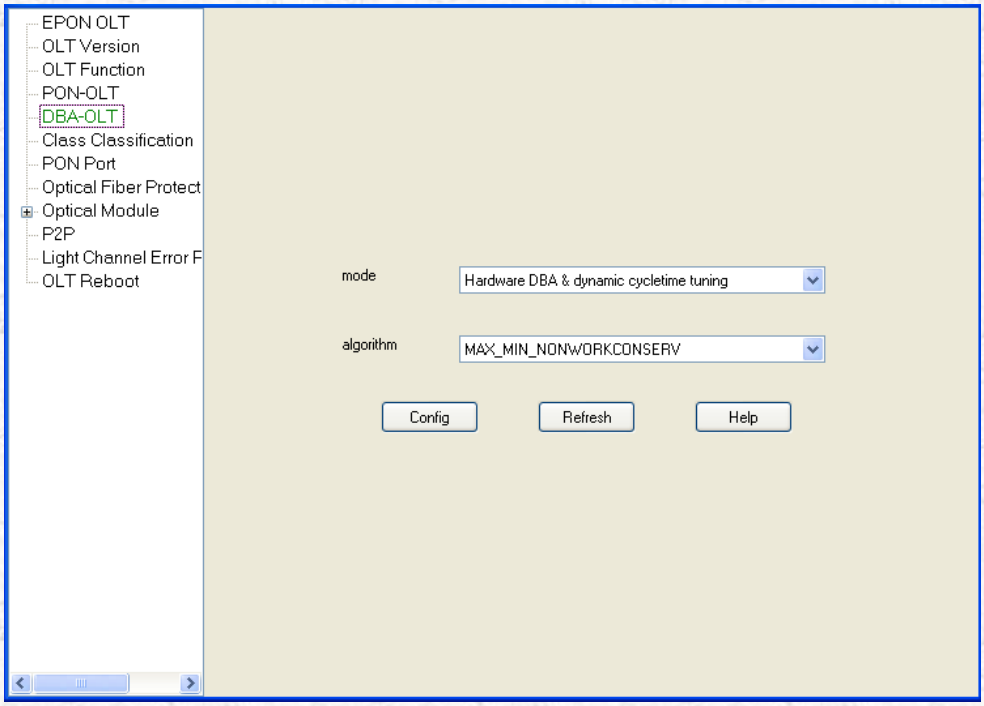


Figure39-10DBA-OLT configuration interface

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:

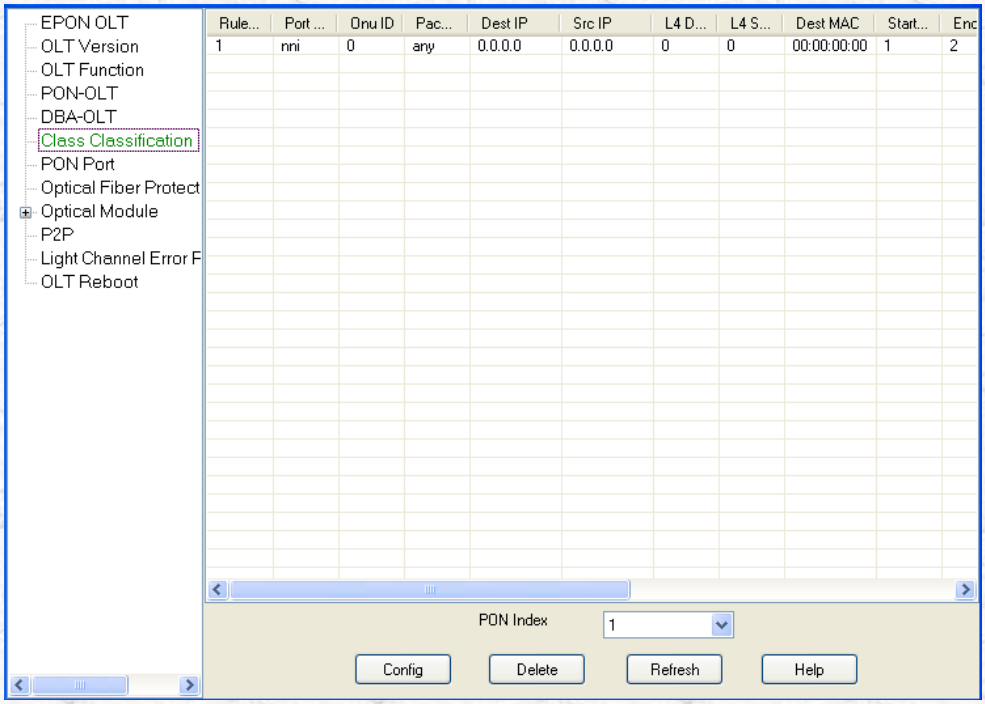


Figure39-11Class classification configuration interface

Click the' **Config”** button, it will pop up a parameter configuration interface. Rule number set 100, Configuration in global mode. As the shown figure:

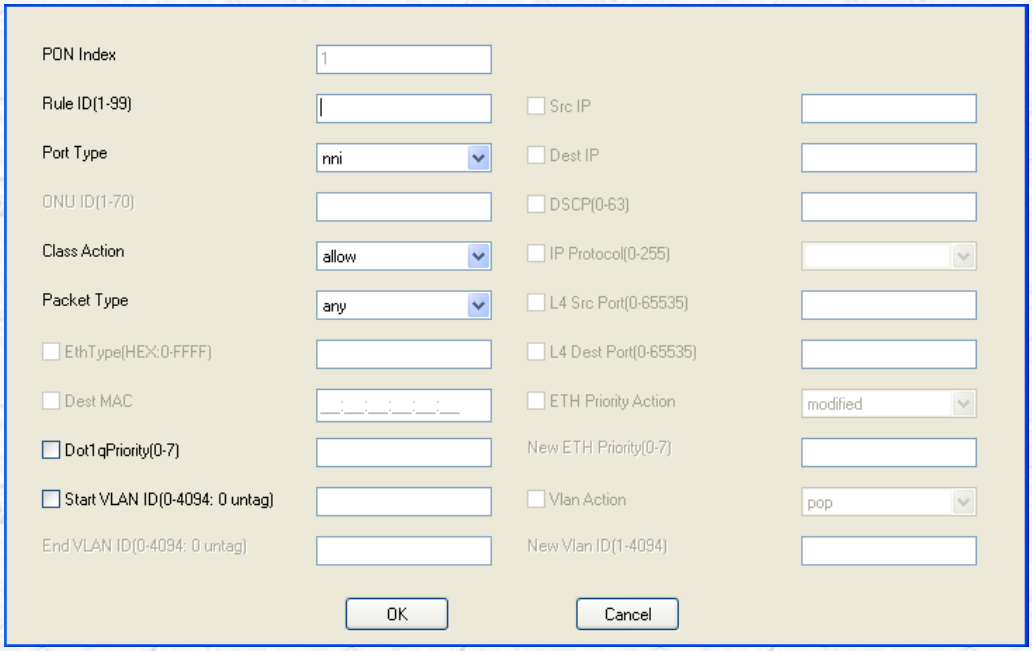


Figure39-12Parameter configuration interface

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 Prionity: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 Prionity 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.

39.9PON Port Configuration

Configuration interface as the shown figure:

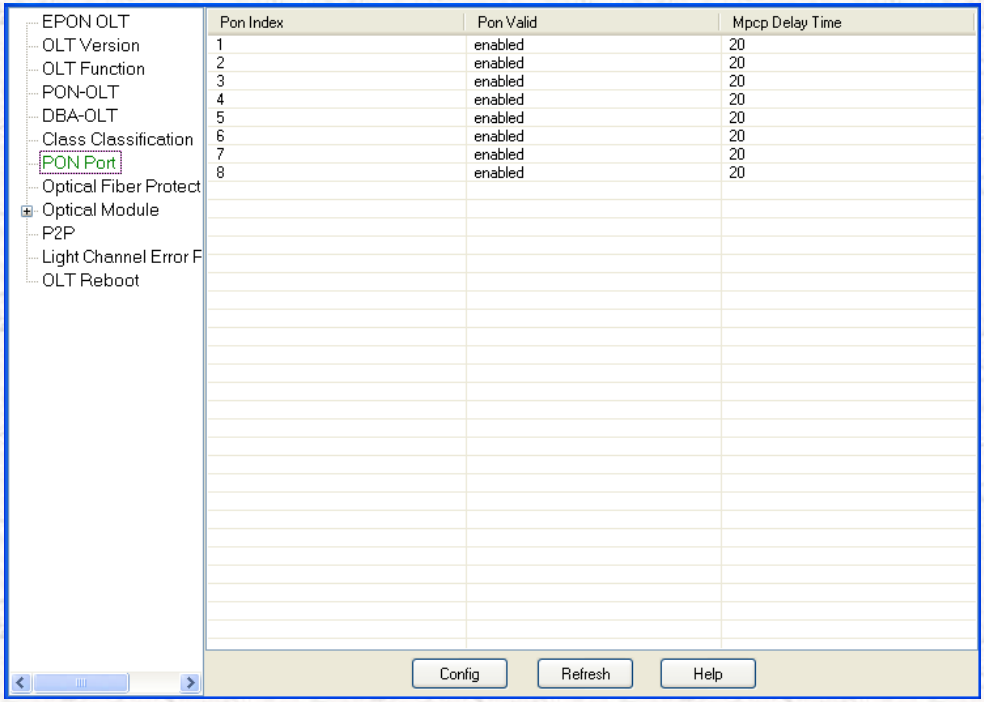


Figure39-13P2P Configuration interface

Select one line of the interface,Click the' **Config”** button,It will appear a parameter configuration interface.As the shown figure:

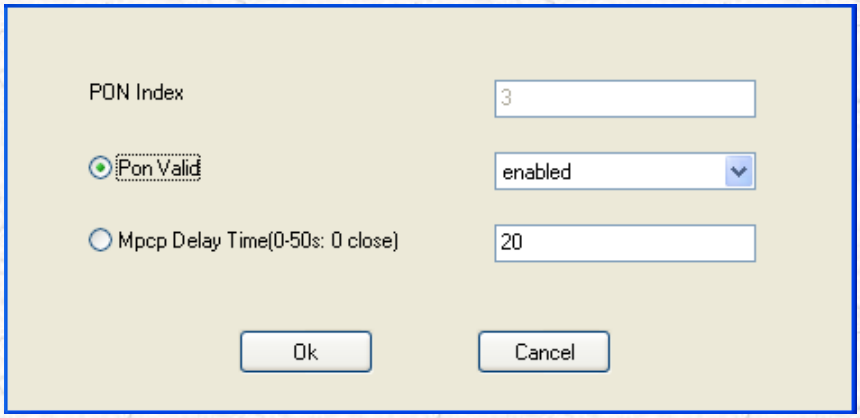


Figure39-14Parameter configuration interface

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.

39.10Optical fiber protection function

Configuration interface as the shown figure:

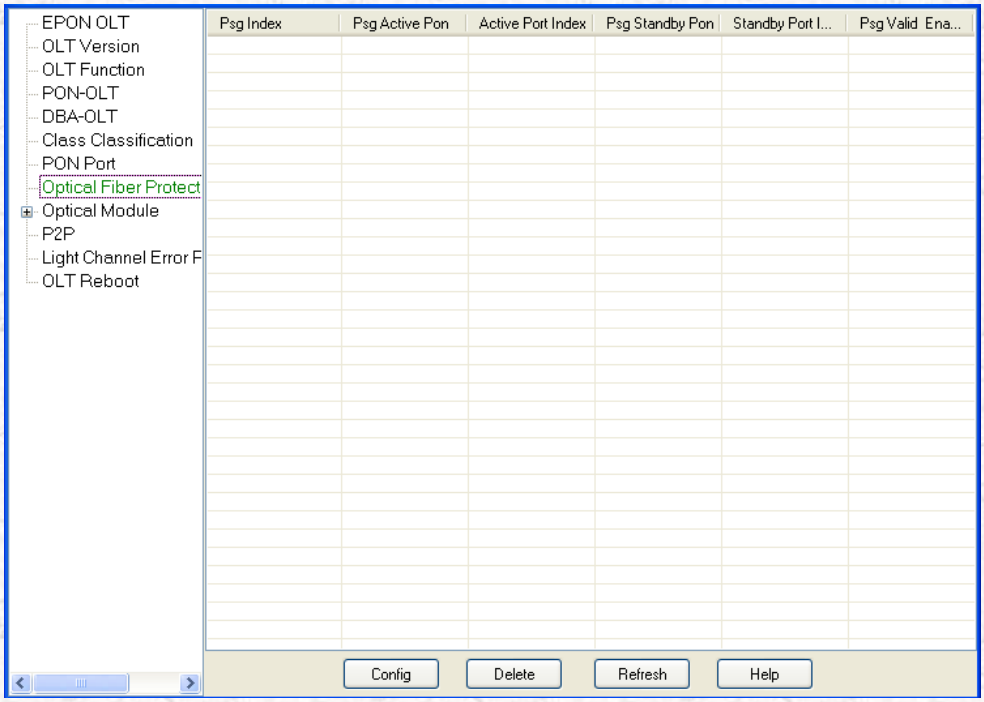


Figure39-15P2P configuration interface

Select one line of the interface,Click the' **Config”** button,It will apperr a parameter configuration interface. As the shown figure:

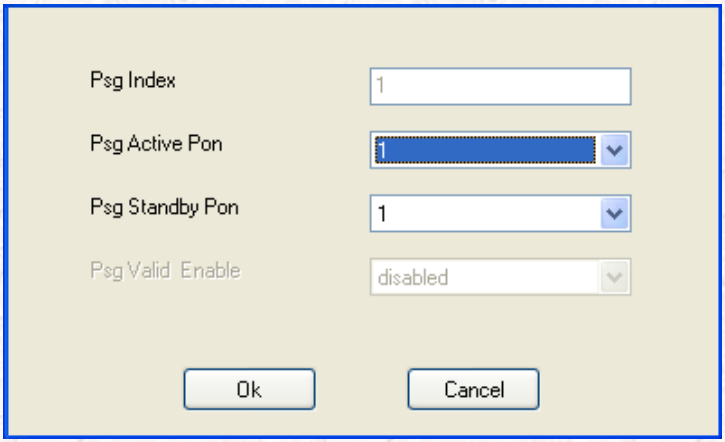


Figure39-16Parameter configuration interface

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:

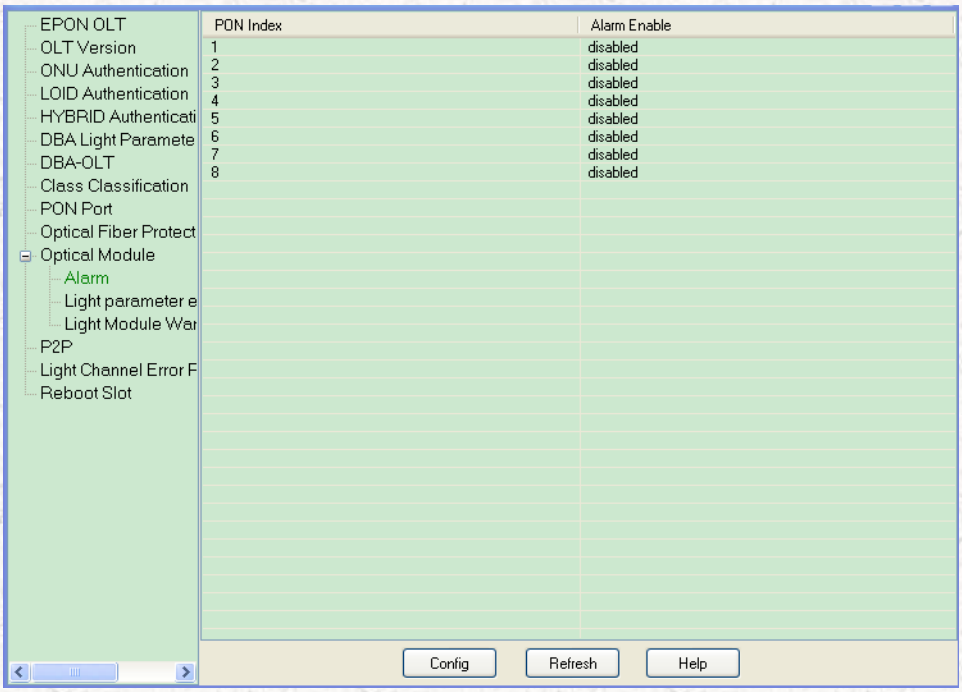


Figure39-17Alarm Configuration interface

Choice one of a line,Click the' **Config"** button,It will appear a parameter configuration interface.As the shown figure:

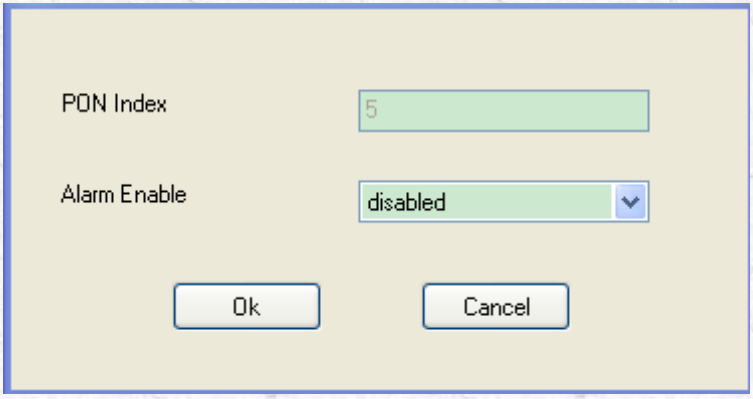


Figure39-18Parameter Configuration interface

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:

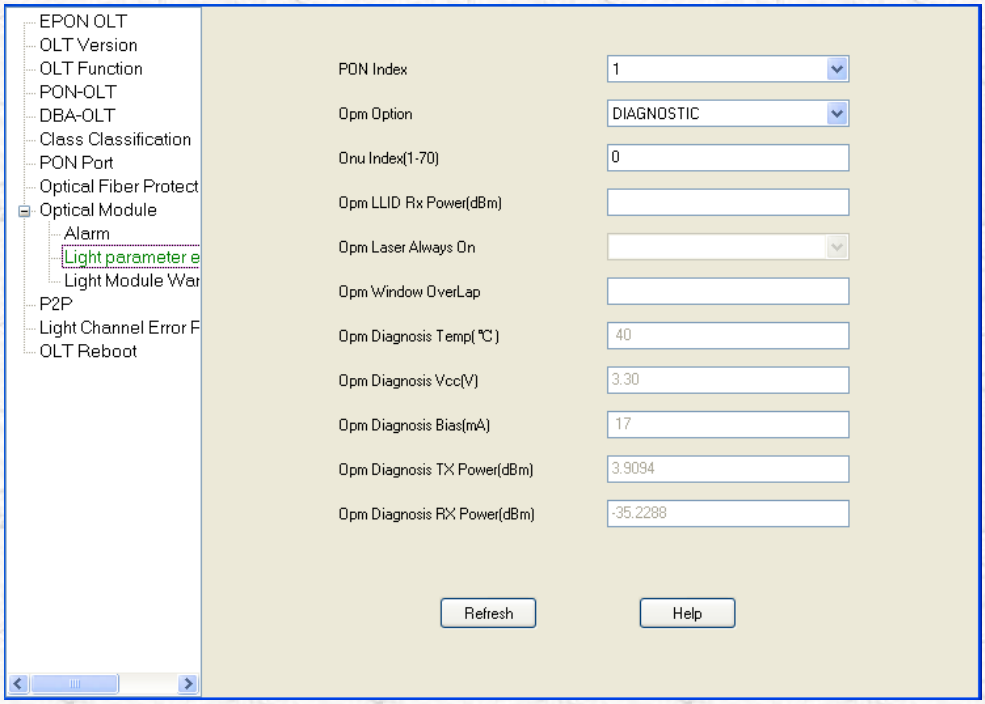


Figure39-19Optical parameter measurement interface

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:

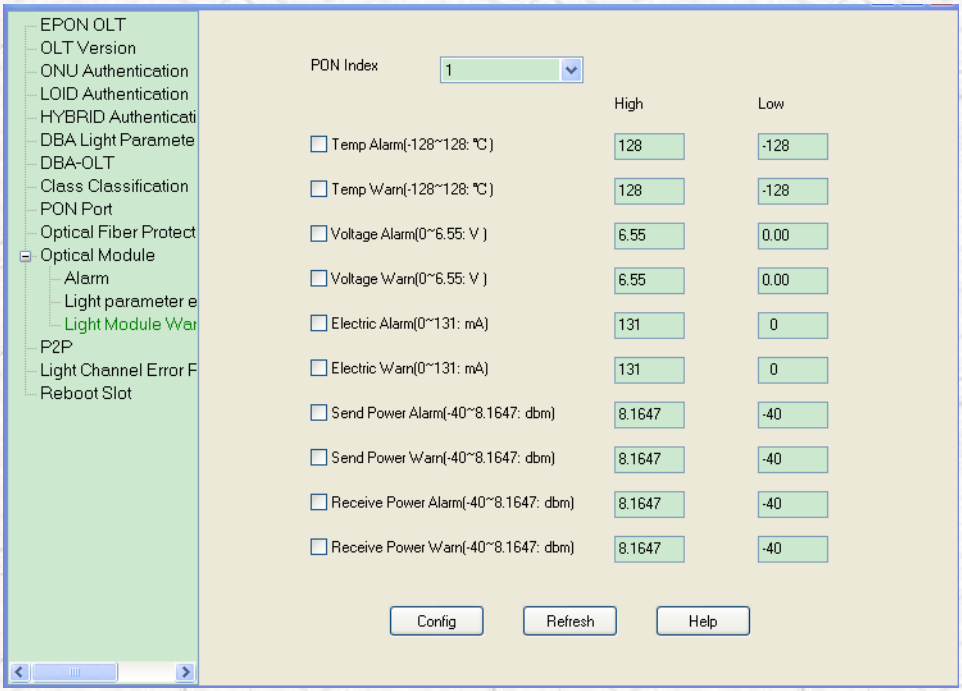


Figure39-20Light Module Warning Threshold interface

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:

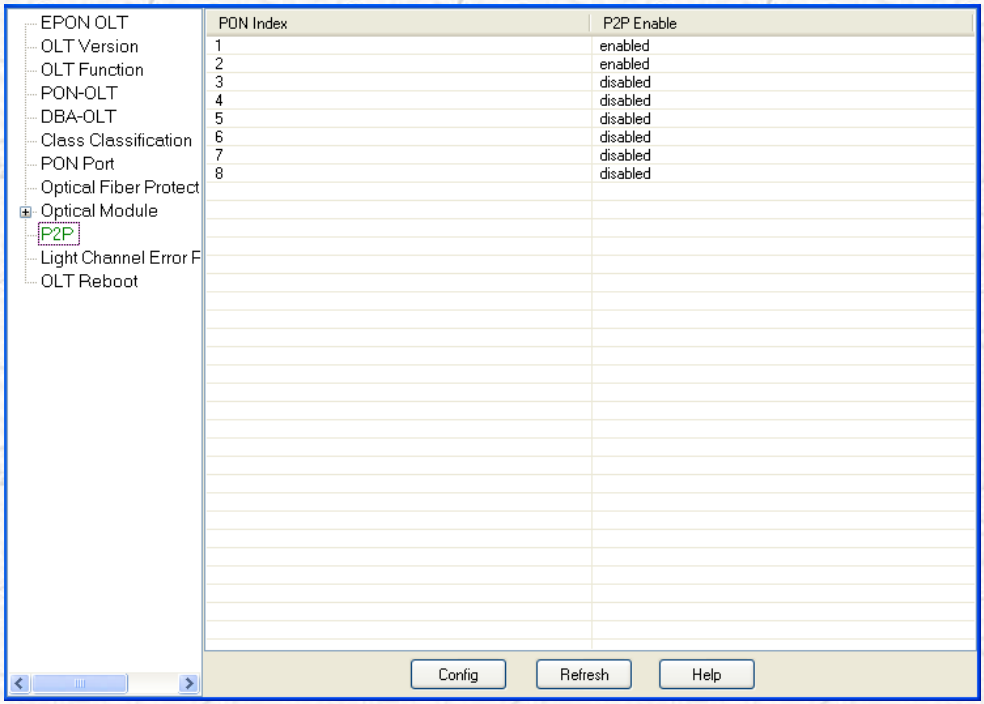


Figure39-21P2P configure interface

Choice one of a line,Click the' **Config"** button,It will appear a parameter configuration interface.As the shown figure:

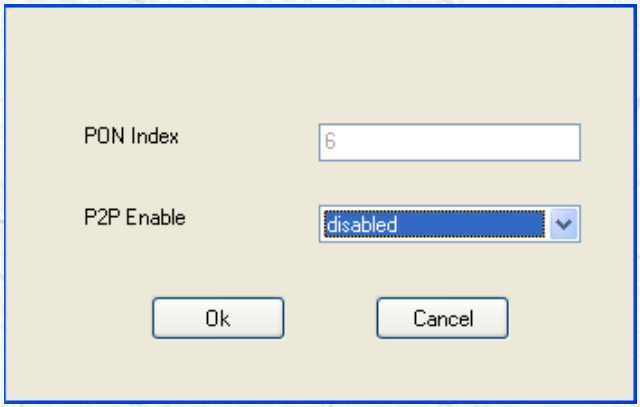


Figure39-22Parameter configuration interface

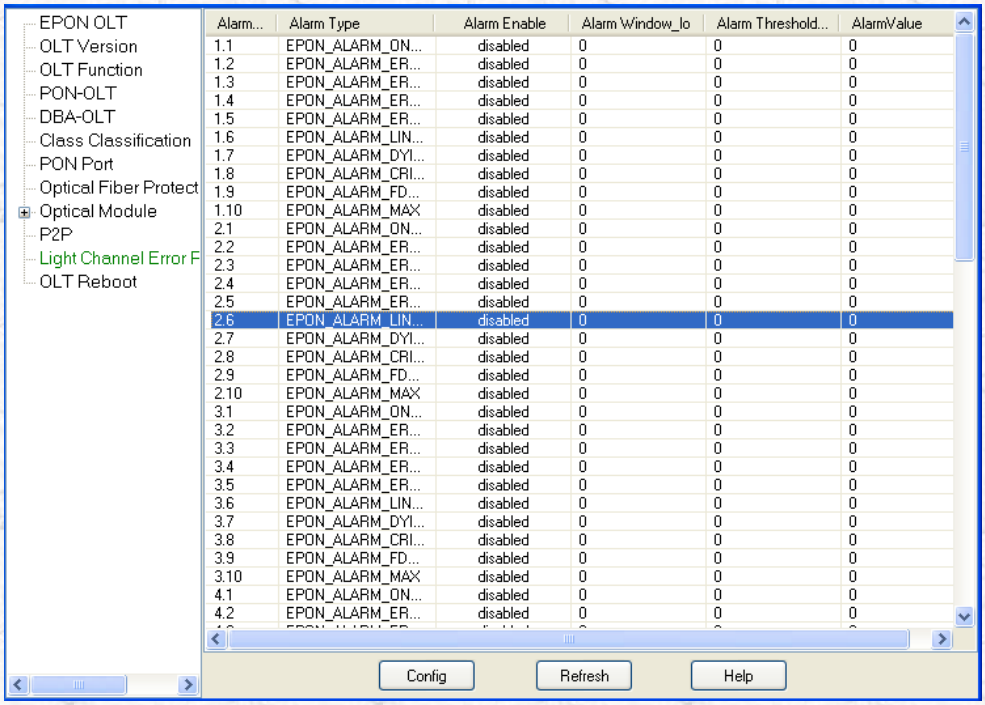
Click the' **OK”** button,The system began to configure the equipment, after configuration system will given the configuration result.

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:

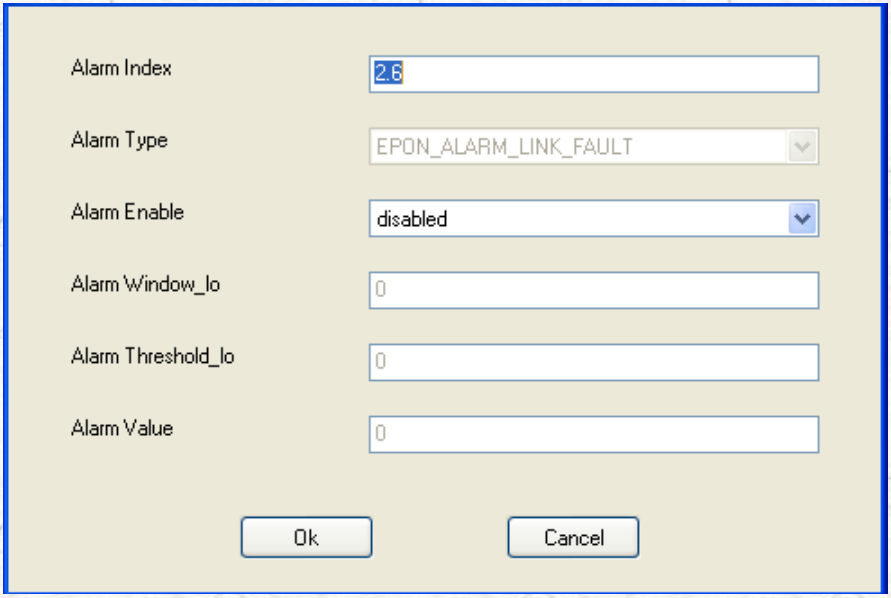


Figure39-24Parameter configuration interface

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.

39.14Reboot Solt

Configuration interface as the shown figure:

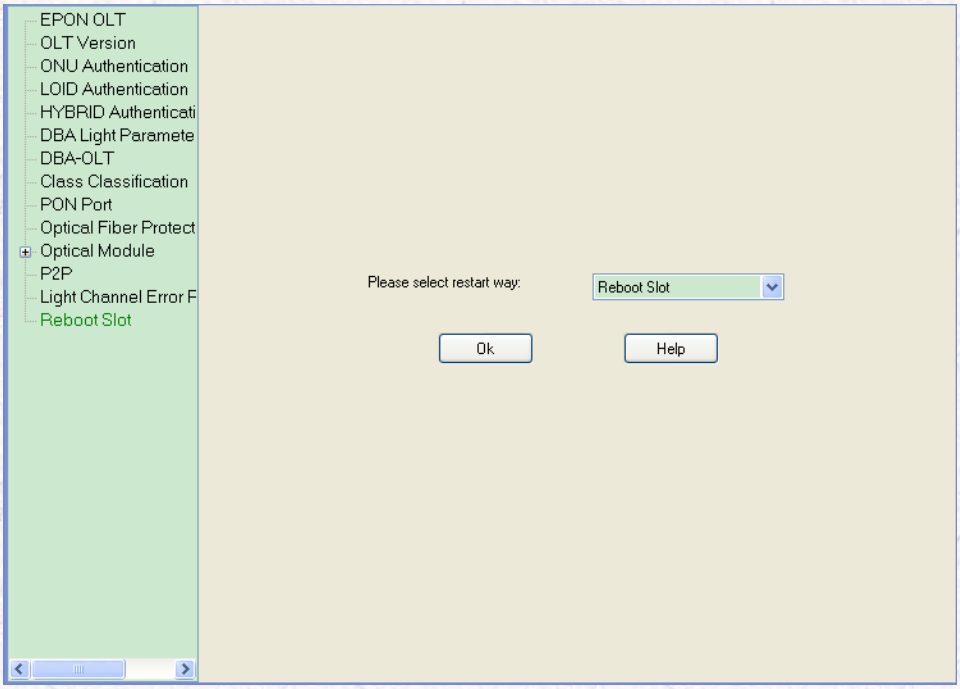


Figure39-25reboot Solt

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:

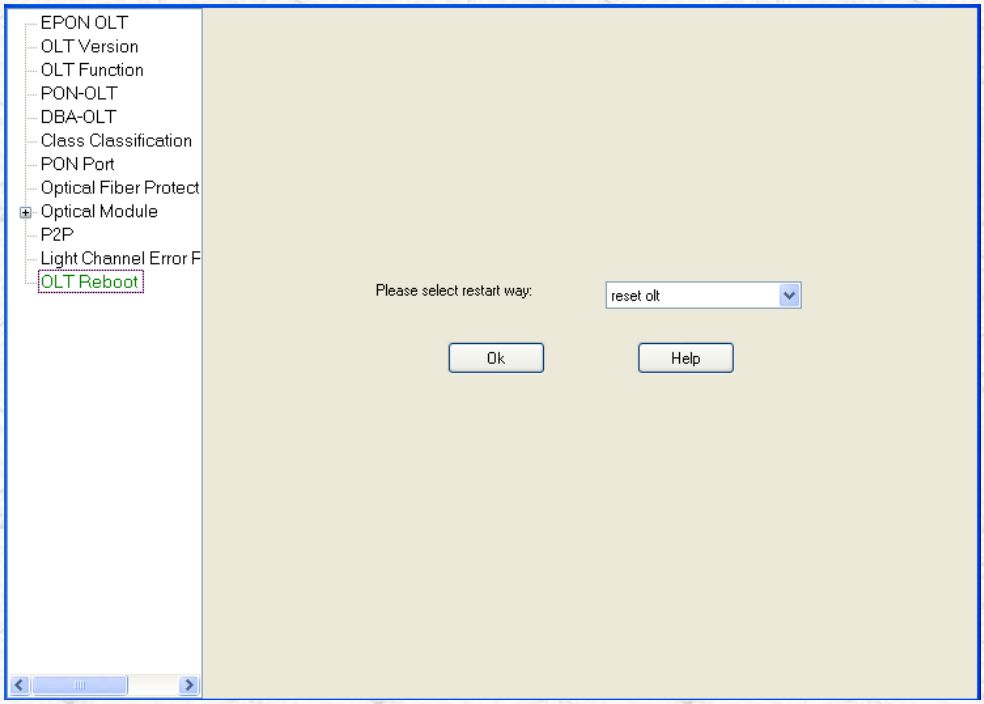


Figure39-26OLT reboot interface

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

40.1ONU IP address configuration

Configuration interface as the shown figure:

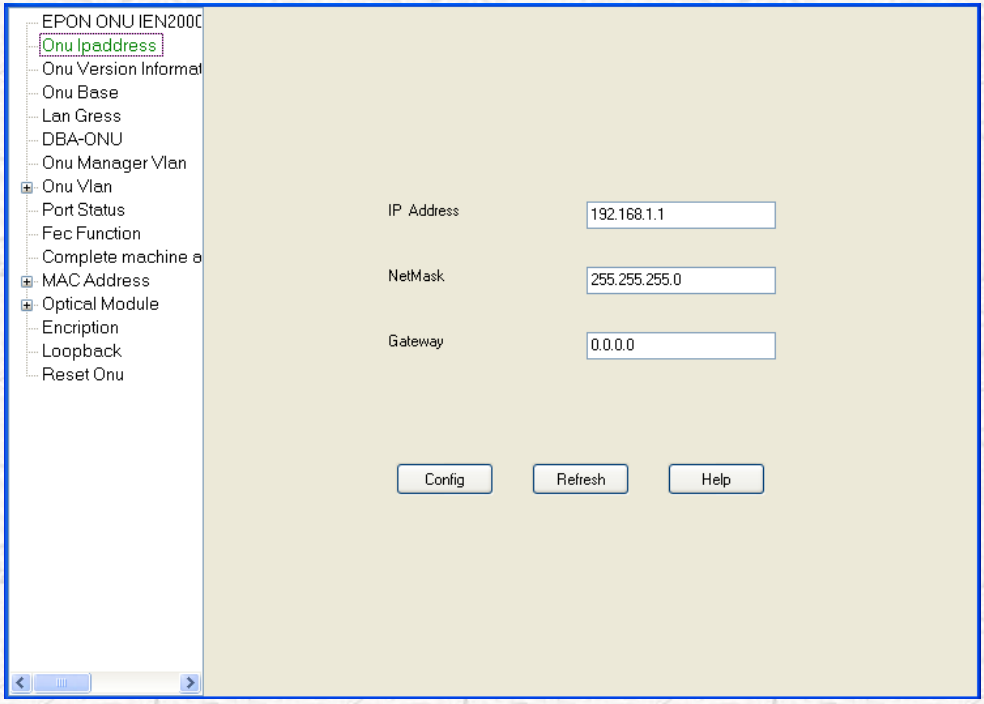


Figure40-1ONU IP address configuration interface

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:

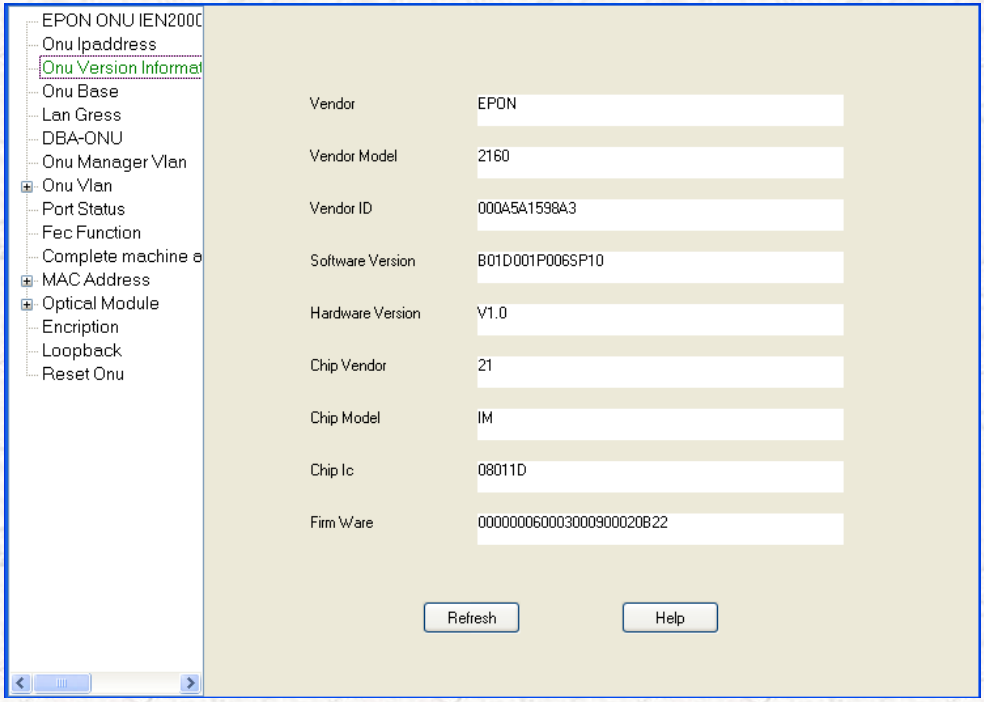


Figure40-2ONU version information interface

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.

40.3ONU Functional Configuration

Configuration interface as the shown figure:

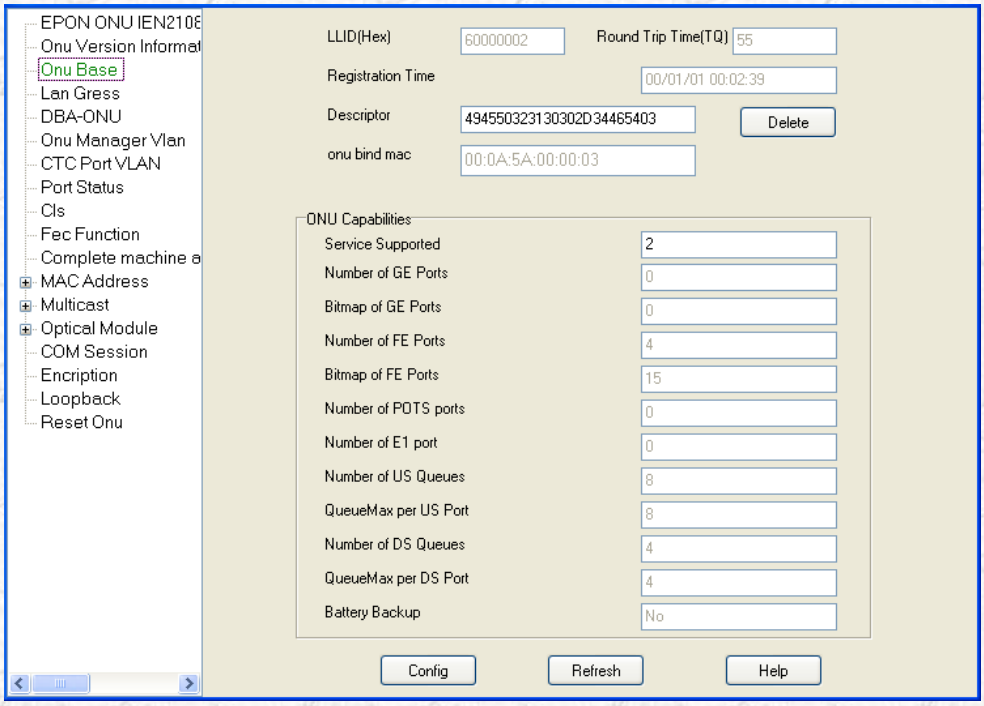


Figure40-3ONU functional configuration interface

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.

40.4ONU Capabitlity 2 Configuration

Configuration interface as the shown figure:

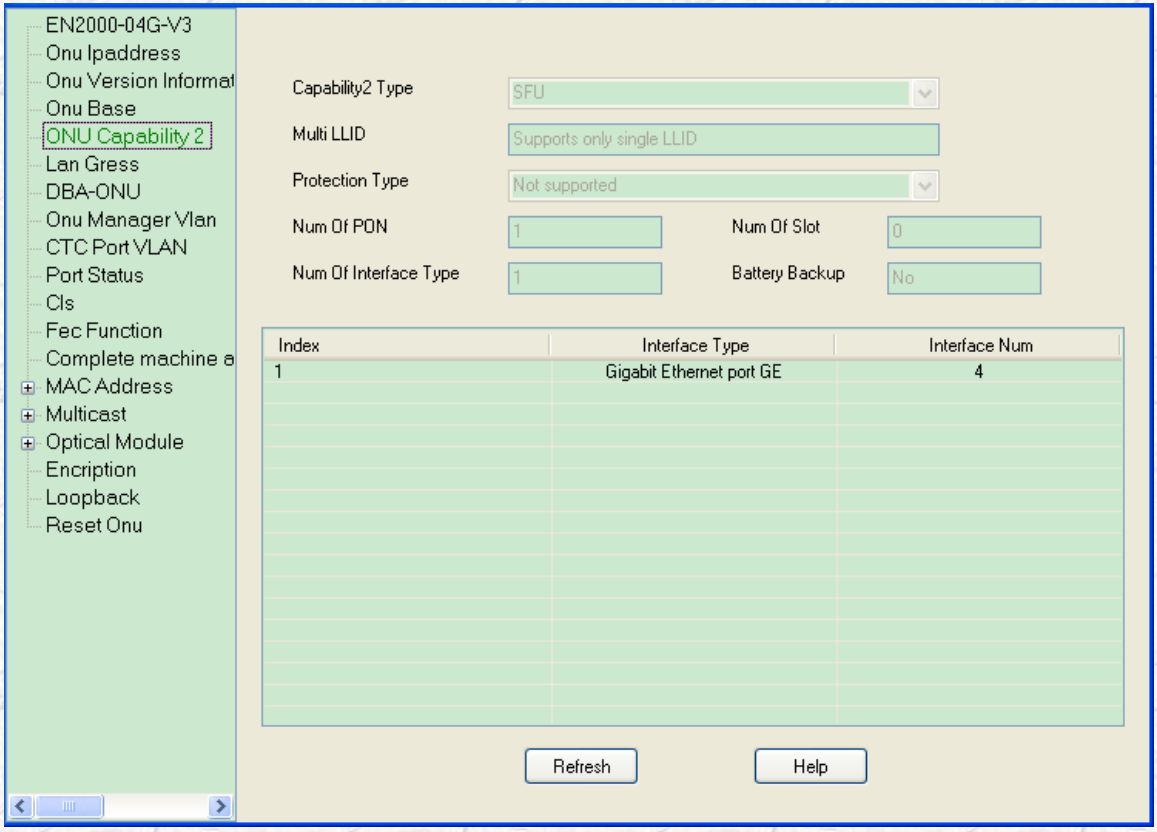


Figure40-4ONU Capabitlity 2 interface

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.

40.5LAN port configuration

Configuration interface as the shown figure:

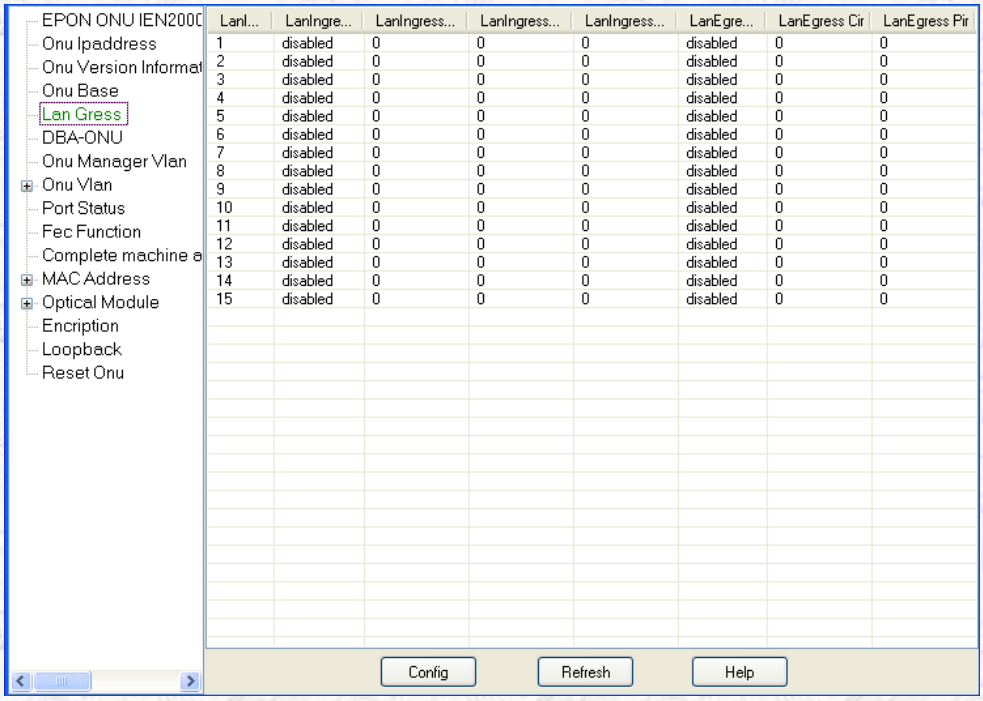


Figure40-5LAN port configuration interface

Choice one of a line in the interface,Click the' **Config”** button,It

will appear a parameter configuration interface.As the shown figure:

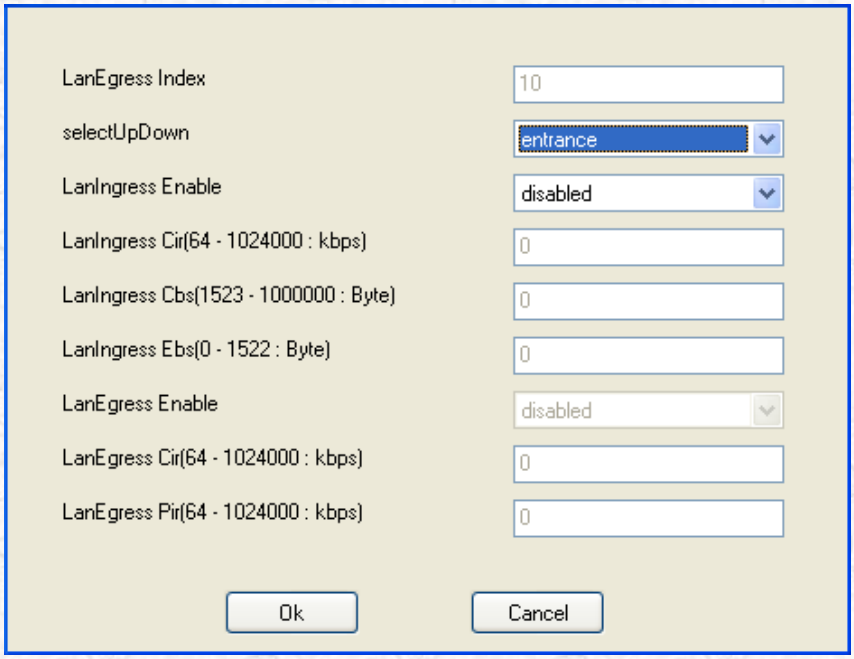


Figure40-6Parameter configuration interface

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:

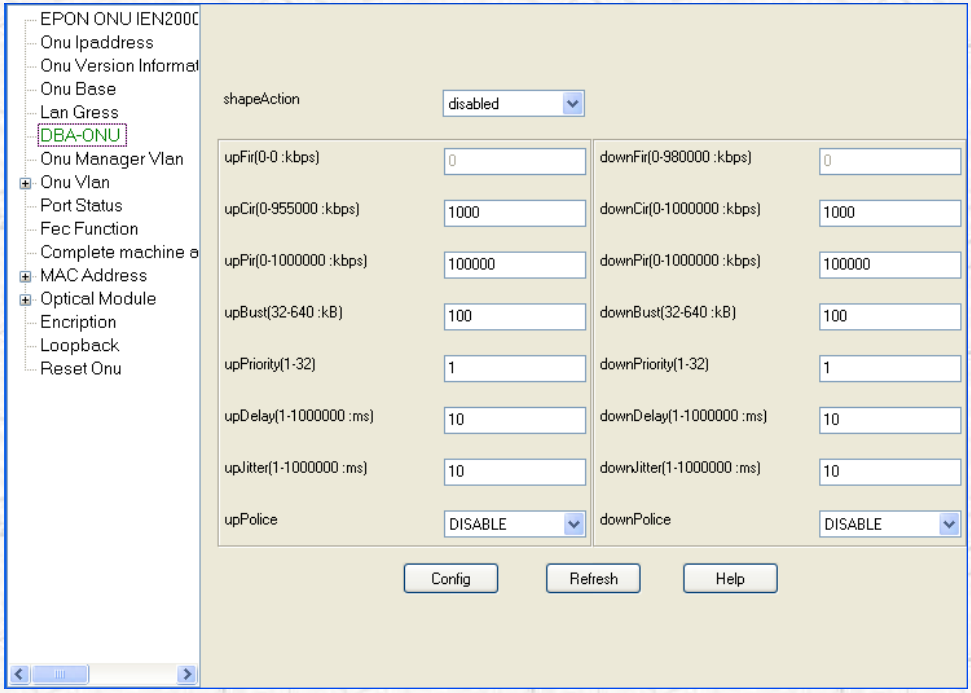


Figure40-7DBA-ONU configuration interface

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 bandwidthOLT 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 is0- 661375; In Software DBA mode is 0- 500004;In Hardware DBA & dynamic cycletime tuning and Software DBA & dynamic cycletime tuning mode is0- 1000000.

Every bandwidth required must be:Fixed bandwidth <= Guaranteed bandwidth<= 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.

40.7Port Isolation

Configuration interface as the shown figure:

Figure40-8Port Isolation configuration interface

Click the "**Add**" button, the interface appears as follows:

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:

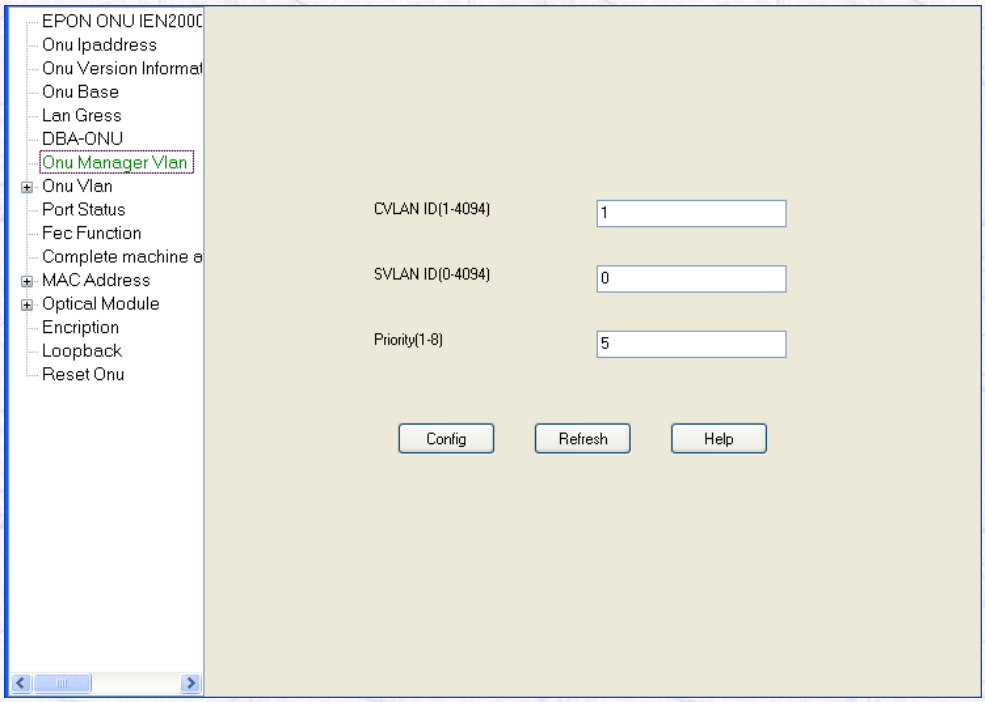


Figure40-10ONU Administration VLAN Configuration interface

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.

40.9ONU 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:

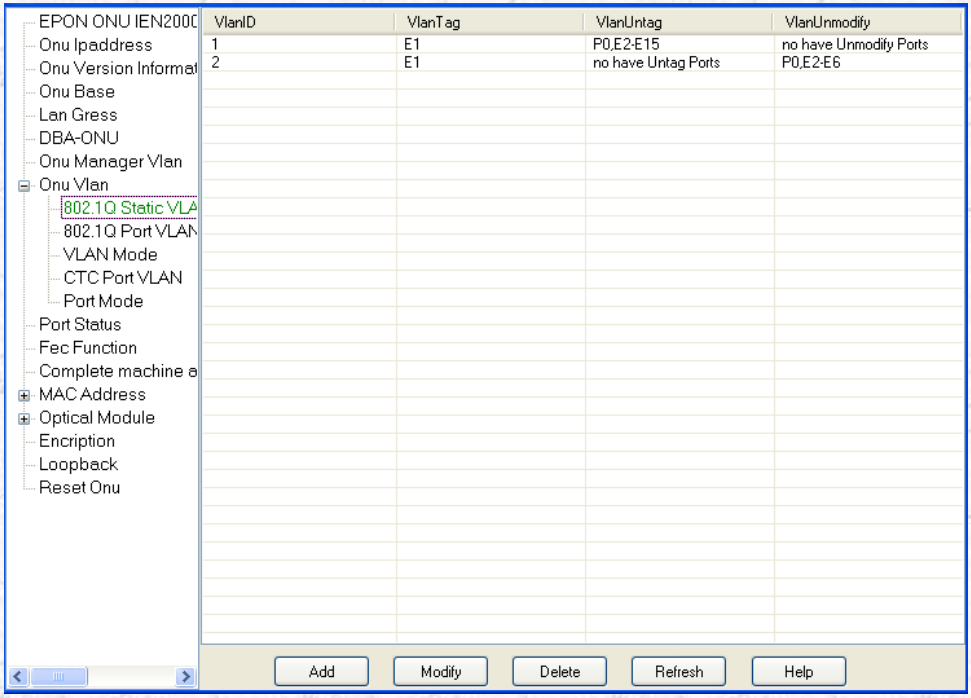


Figure40-11802.1Q Static VLAN Configuration main interface

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:

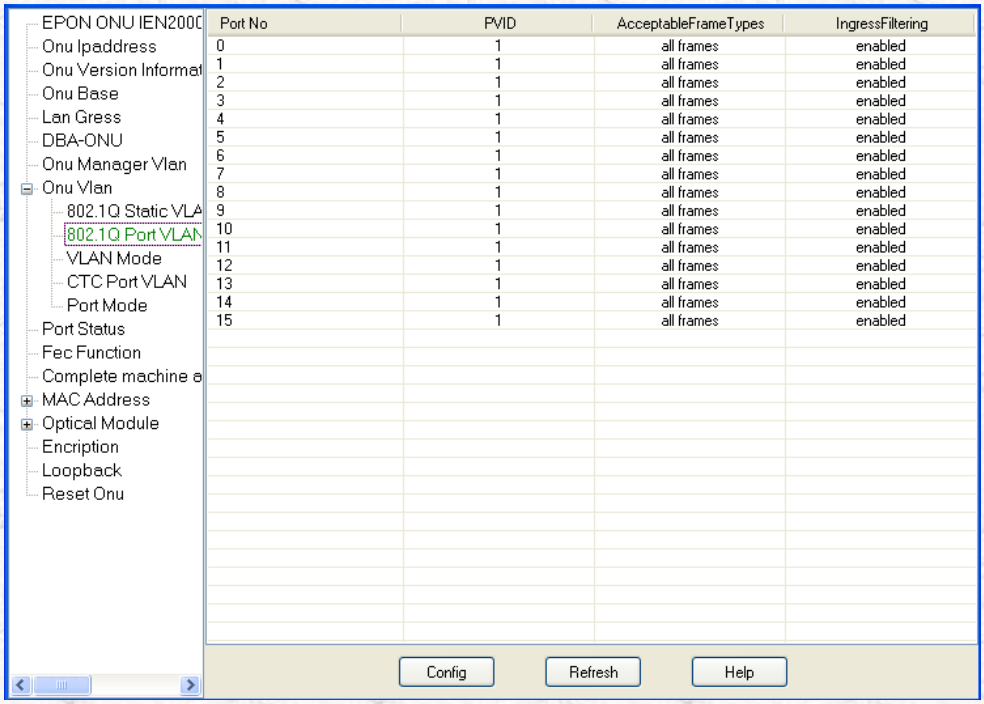


Figure40-12802.1Q Port VLAN Configuration main interface

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:

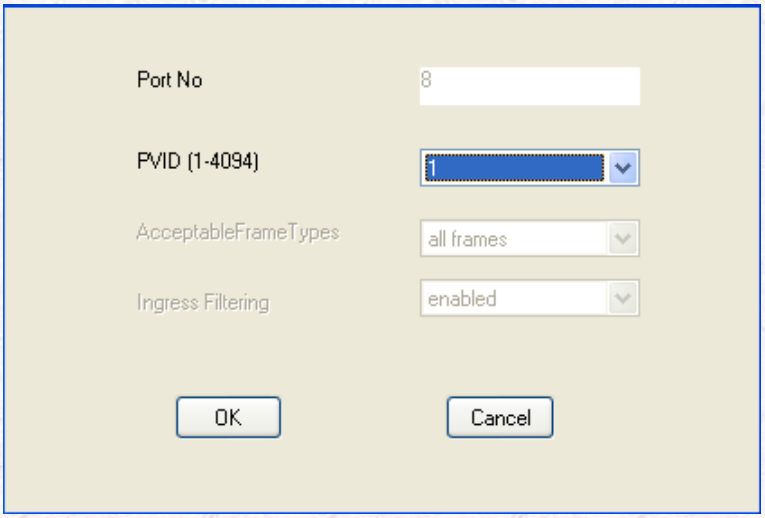


Figure40-13Parameter configuration interface

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:

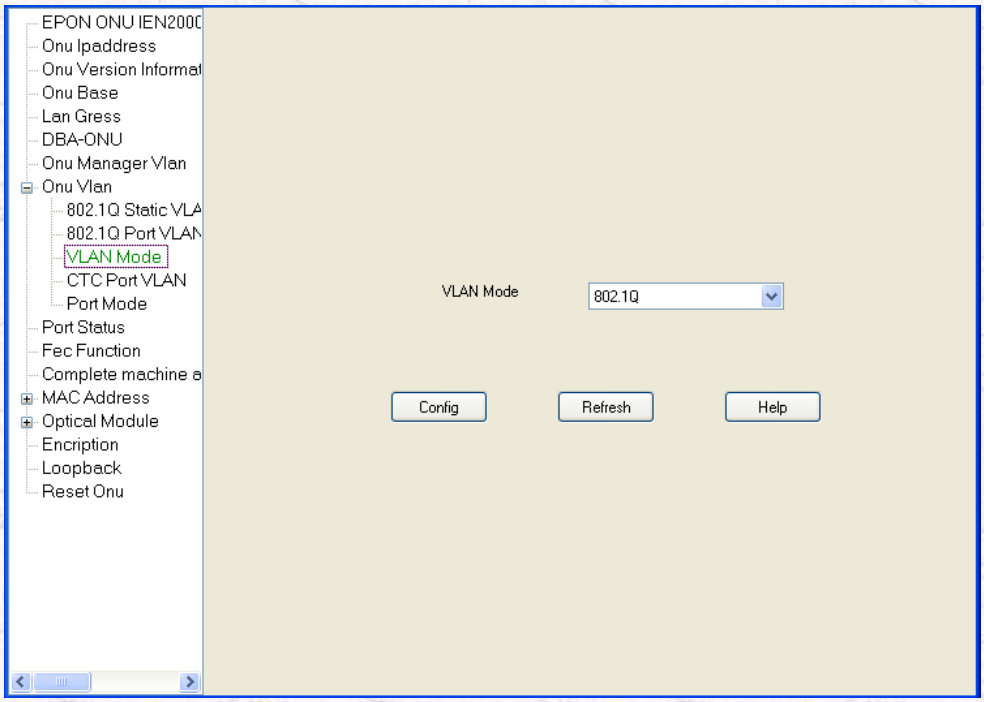


Figure40-14VLAN Mode Configuration Interface

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:

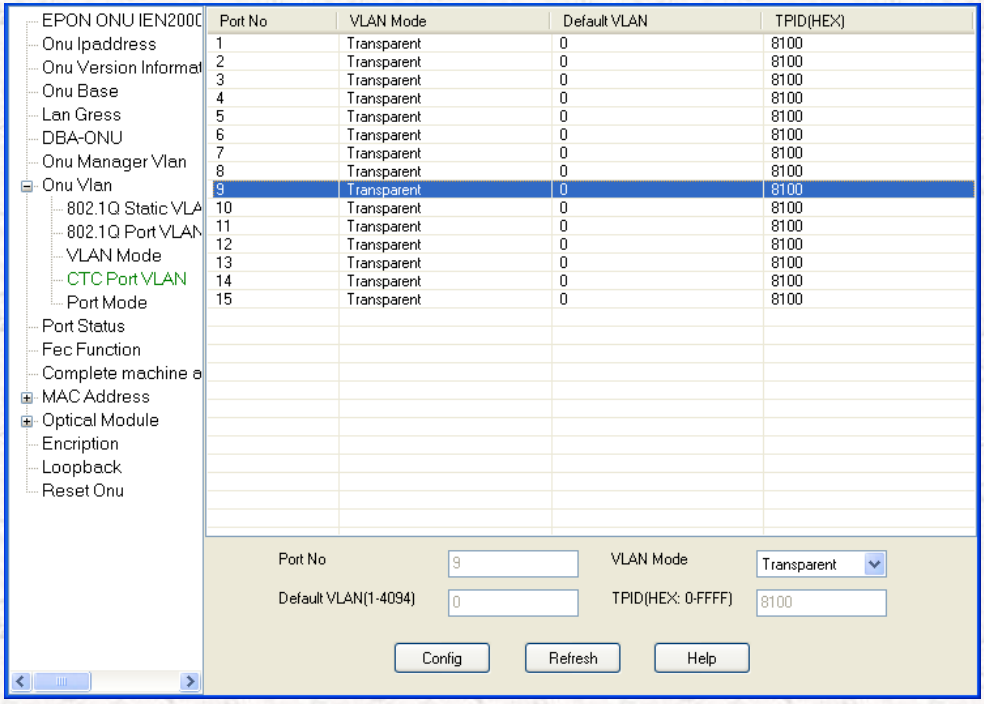


Figure40-15CTC Port VLAN Configuration Interface

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

will configuration the operation.

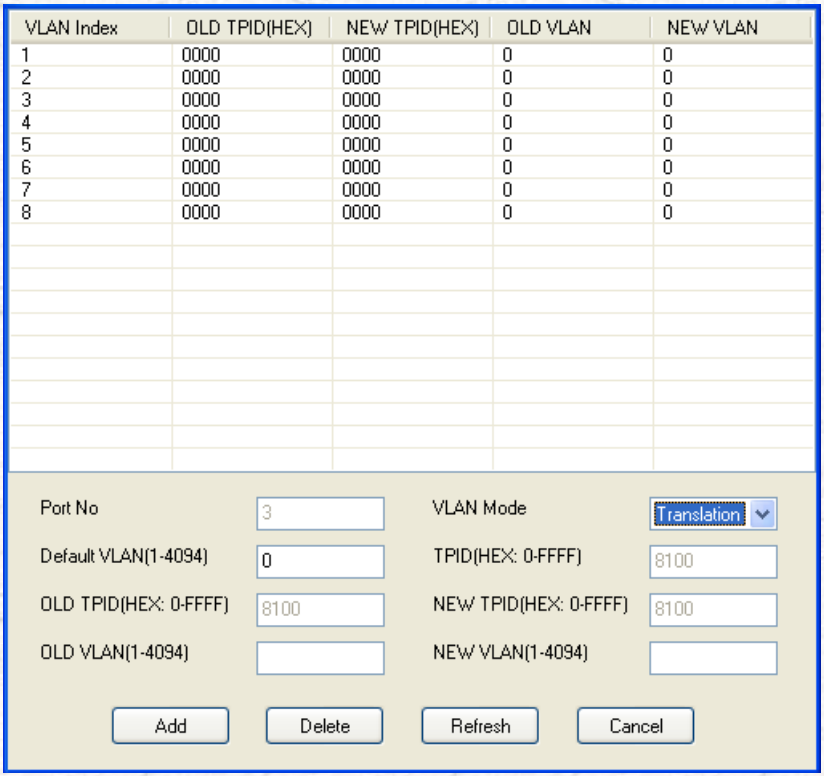


Figure40-16Parameter configuration interface

VLAN Mode:There are transparent transmission, markers and the conversion these three 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.

40.9.5 EPON-ONU Port Mode Configuration

Configuration interface as the shown figure:

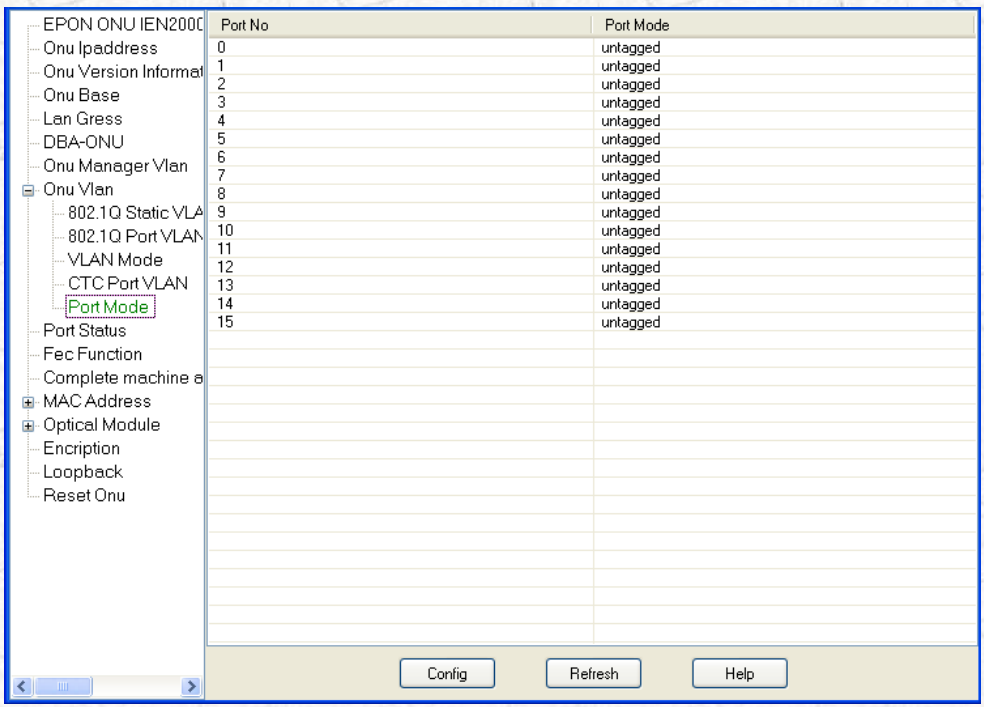


Figure40-17Port mode configuration main interface

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:

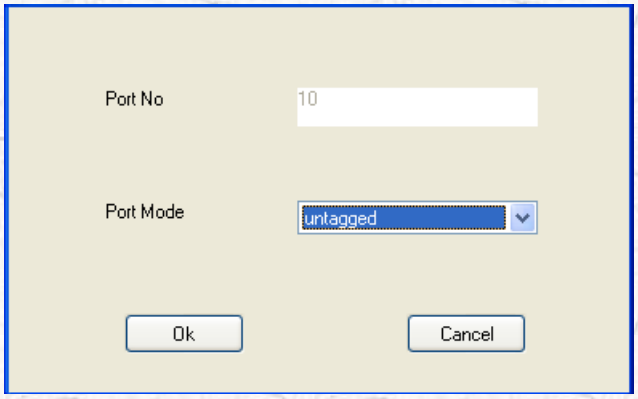


Figure40-18Parameter configuration interface

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:

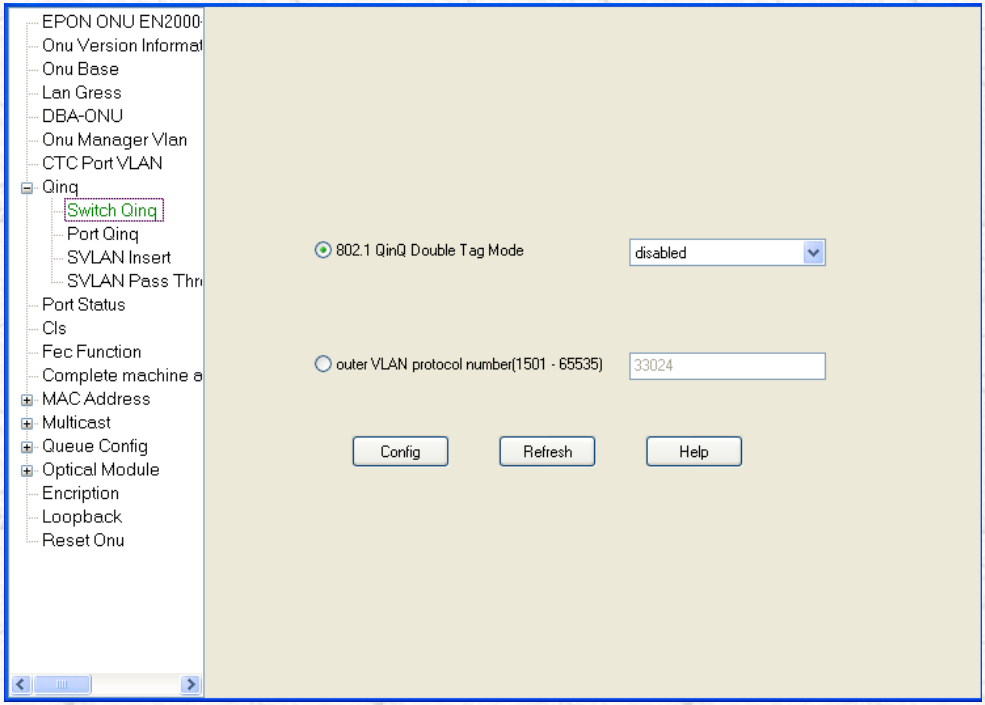


Figure40-19Global QINQ configure interface

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 allows to configuration.Configuration interface as the shown figure:

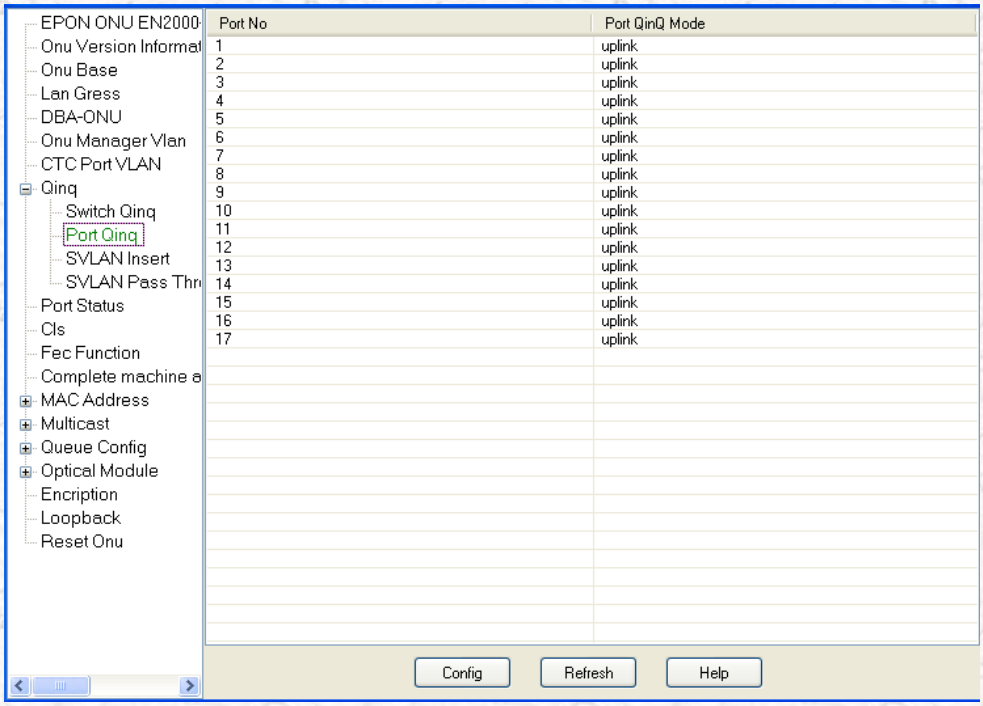


Figure40-20Port QINQ configure interface

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:

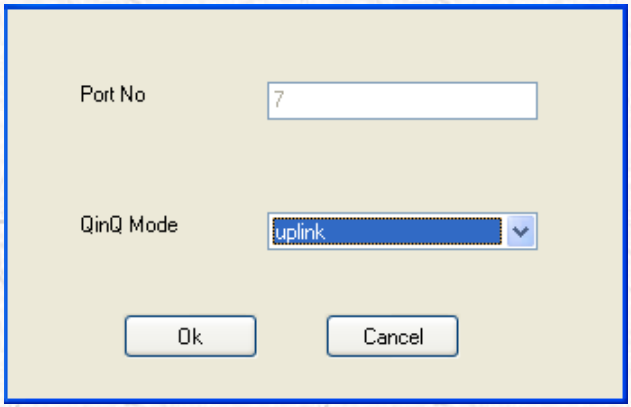


Figure40-21Parameter configuration interface

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:

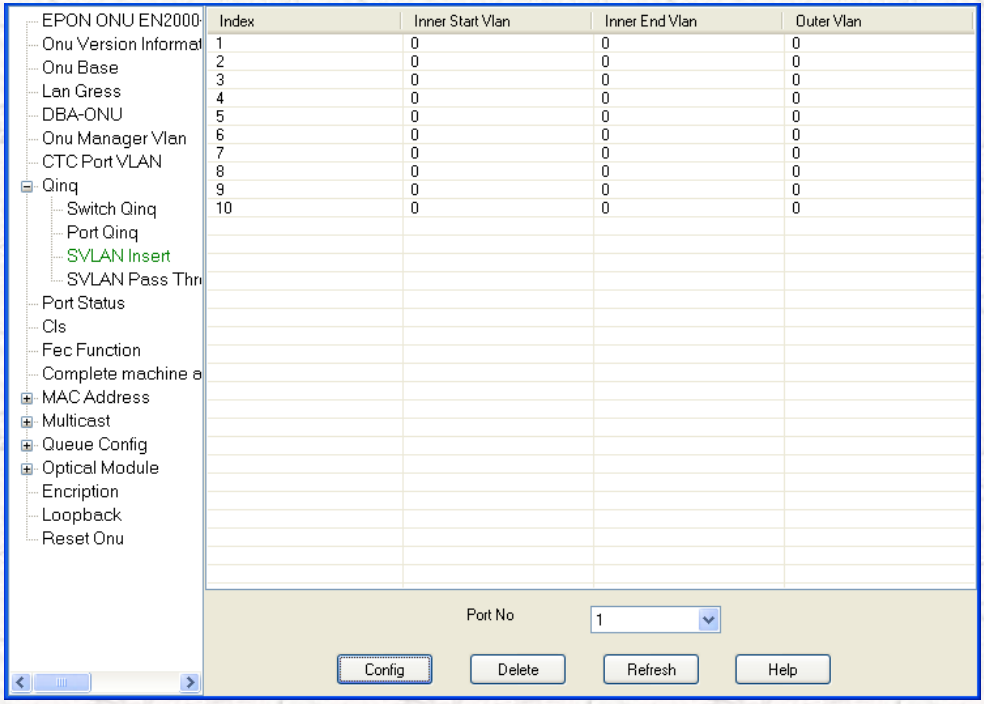


Figure40-22SVLAN Insert Configured Interface

Click the' **Config**"button, It will appear the parameter configuration interface. As the shown figure:

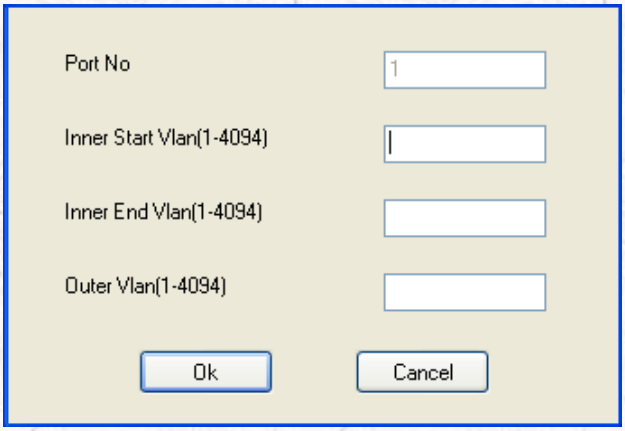


Figure40-23Parameter configuration interface

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:

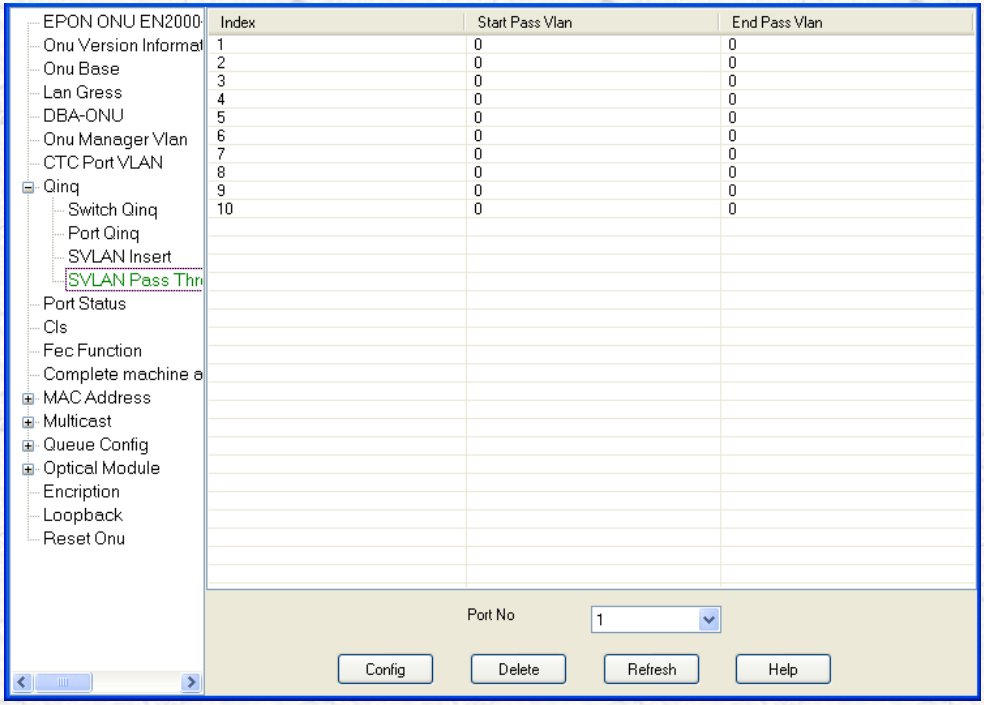


Figure40-24SVLAN Transparent transmission Configuration Interface

Click the' **Config**"button,,It will appear the parameter

configuration interface. As the shown figure:

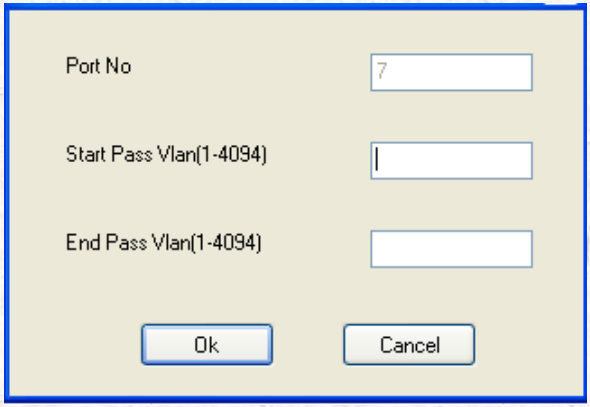


Figure40-25Parameter configuration interface

Notes:

1. Configuration corresponding to the port of QinQ type must be1. Configuration corresponding to the port of QinQ type must becustomer.
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.

40.11Port Status Configuration

Configuration interface as the shown figure:

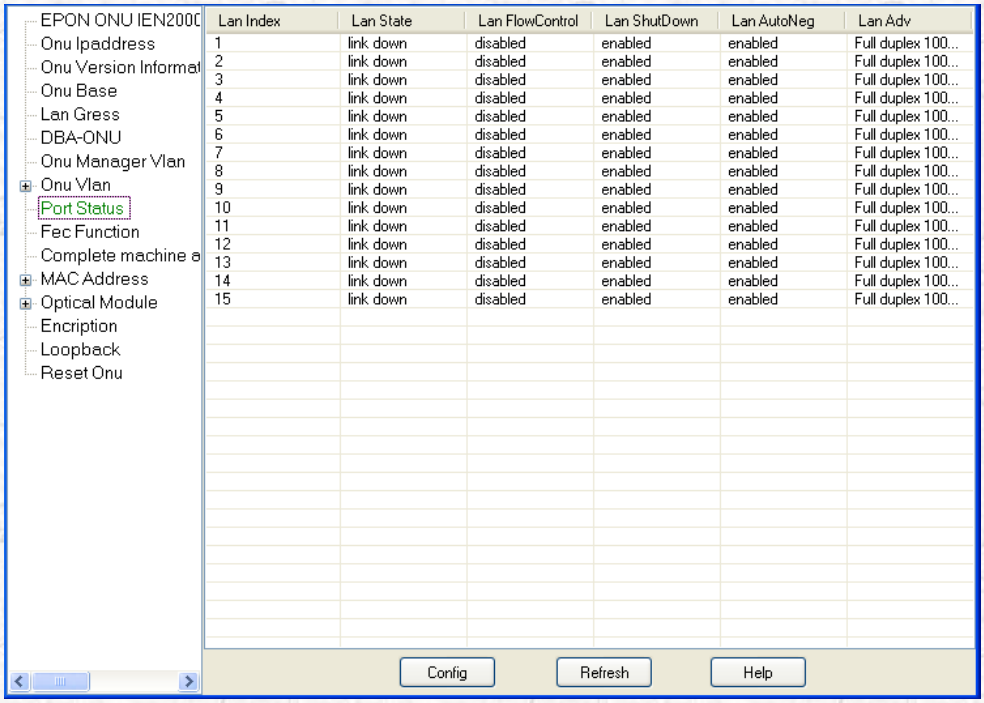


Figure40-26Port Status Configuration Interface

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:

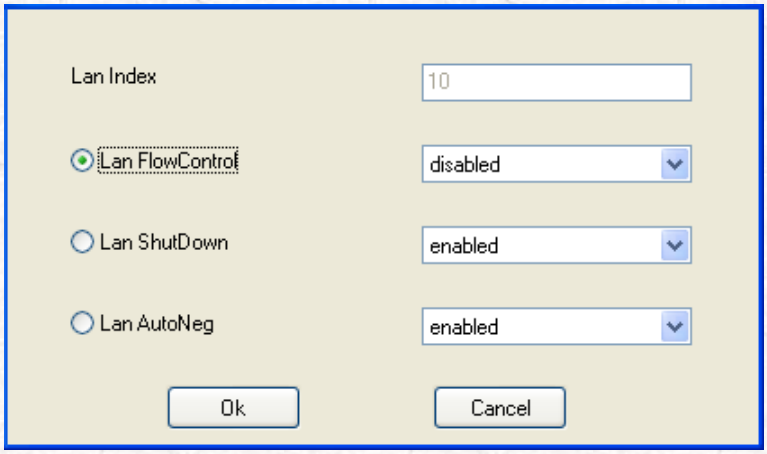


Figure40-27Parameter configuration interface

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:

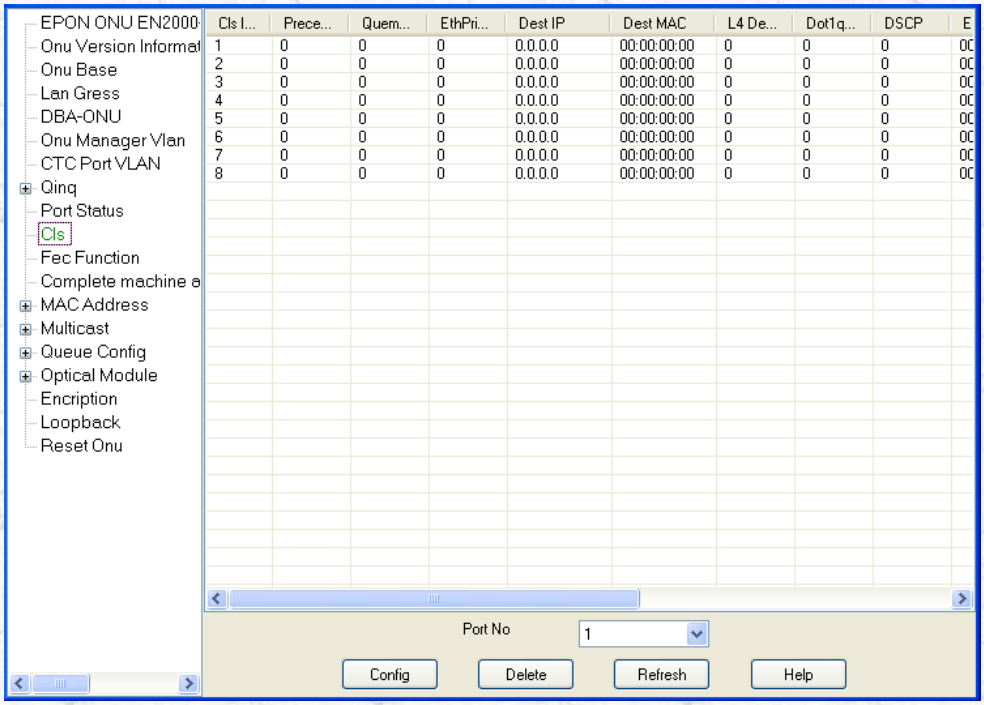


Figure40-28Flow classification configuration Interface

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.

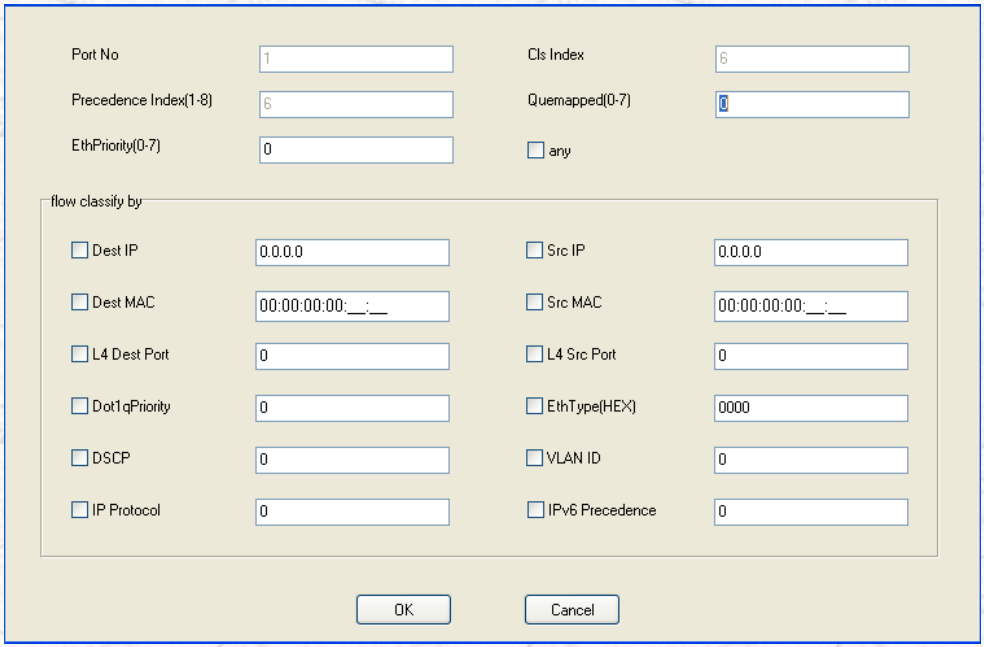


Figure40-29Parameter configuration interface

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 Prionity: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:

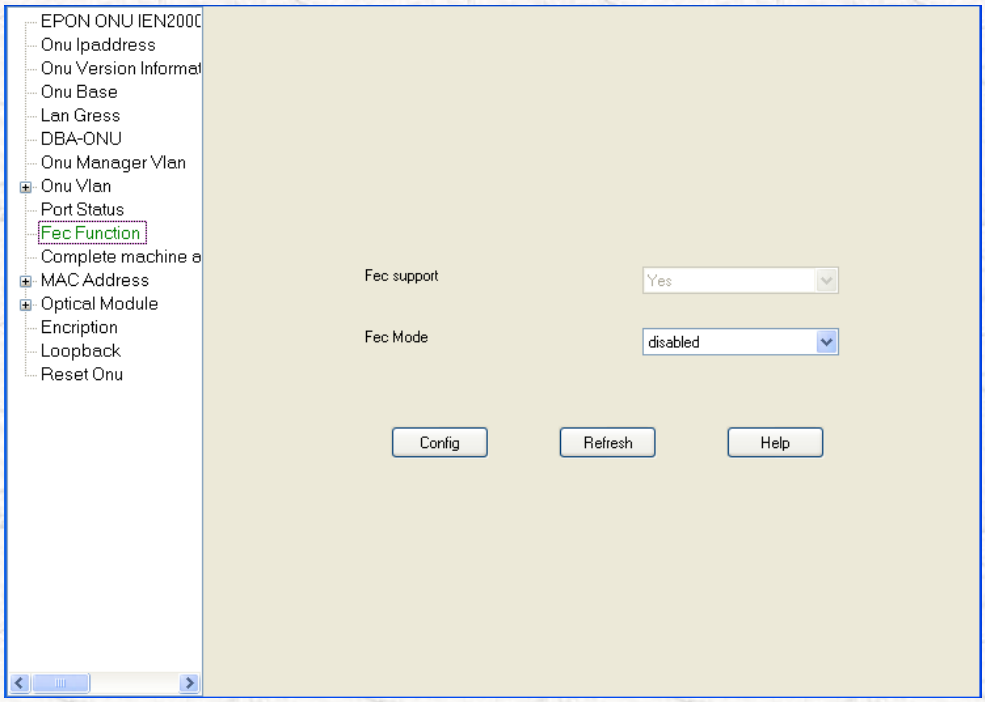


Figure40-30FEC Functional Configuration Interface

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.

40.14Machine uplink and downlink storm control

Configuration interface as the shown figure:

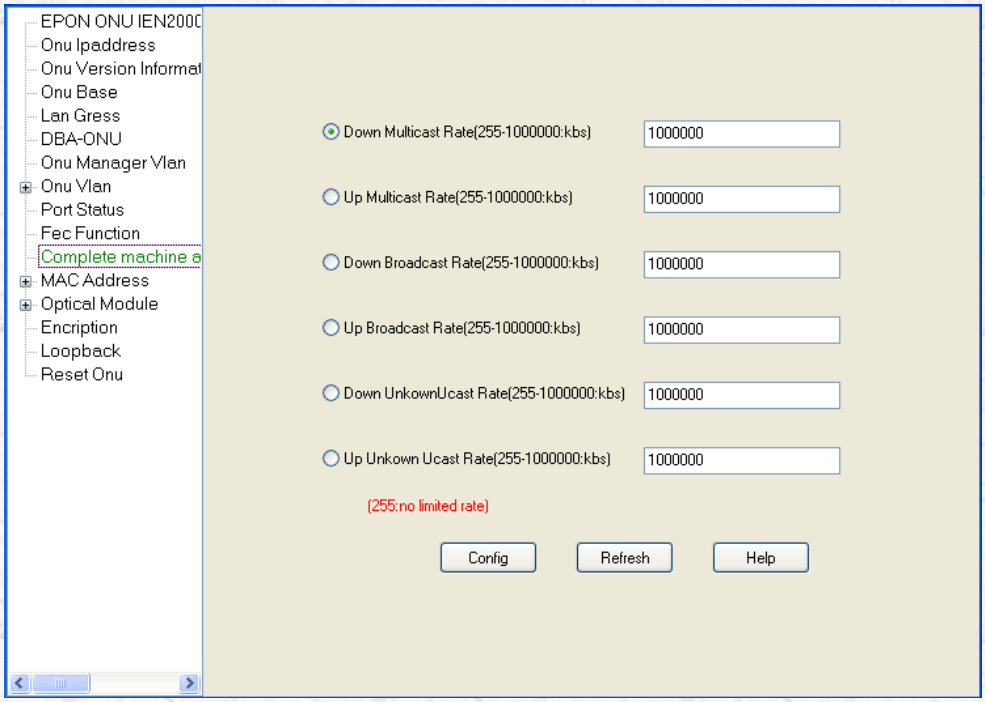


Figure40-31Rate configuration interface

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.

40.15MAC Address configure

40.15.1 MAC Address Filter Configuration

Configuration interface as the shown figure:

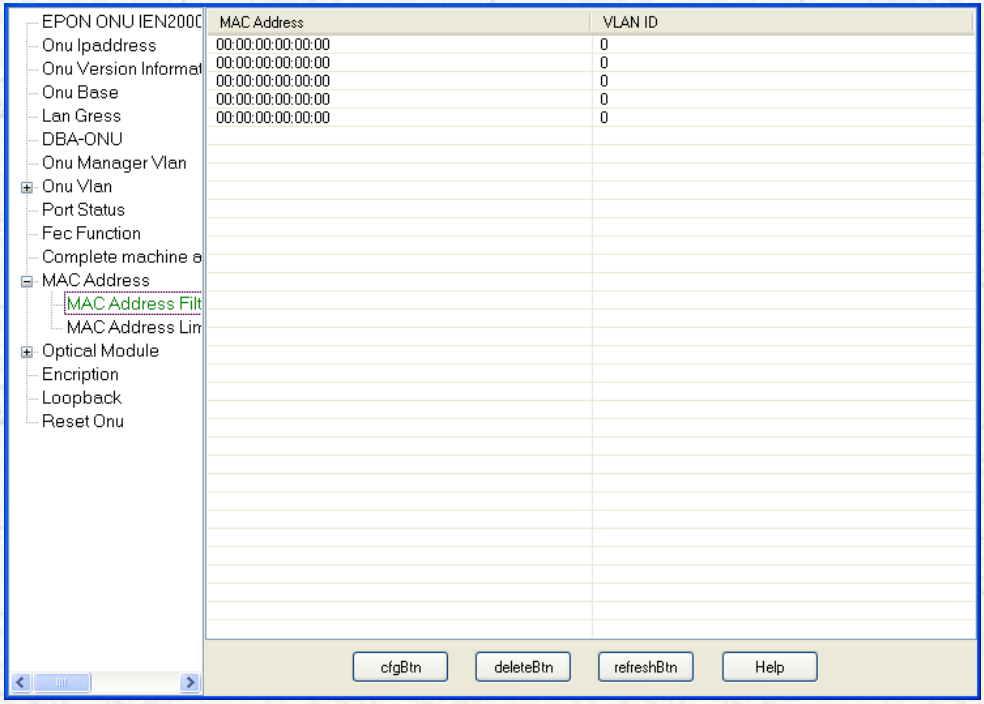


Figure40-32MAC address filter configuration interface

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:

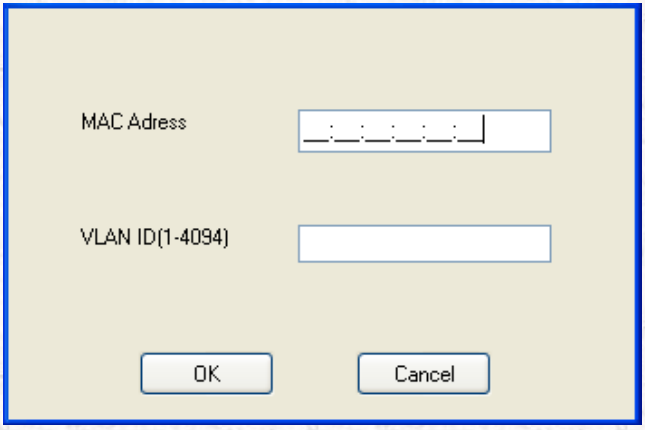


Figure40-33Parameter configuration interface

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:

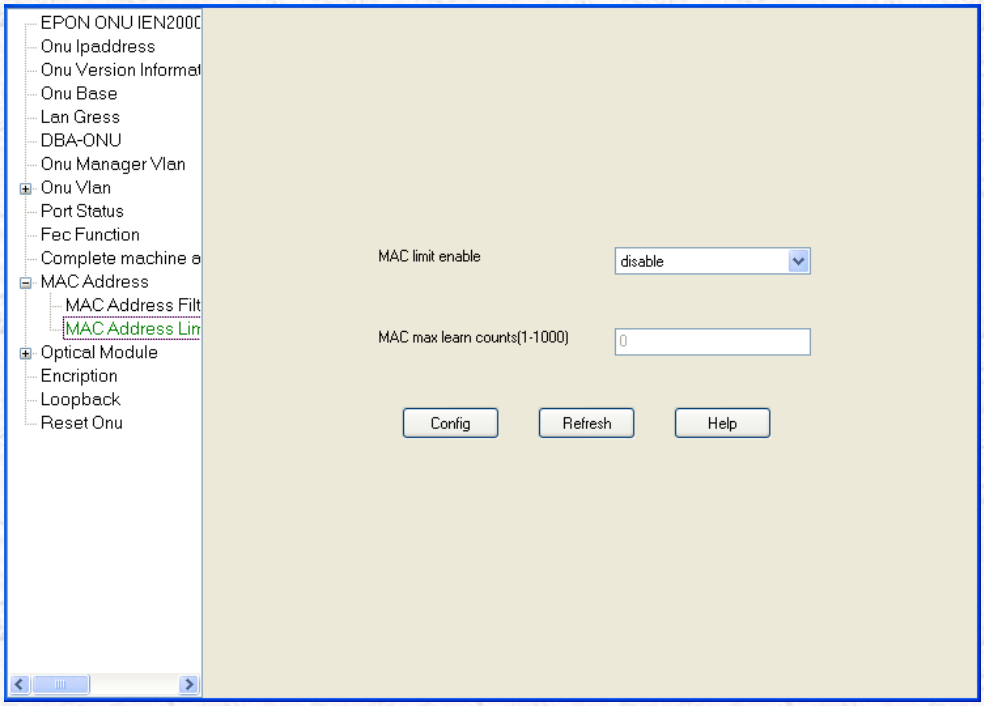


Figure40-34MAC Address Define Function Configuration

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:

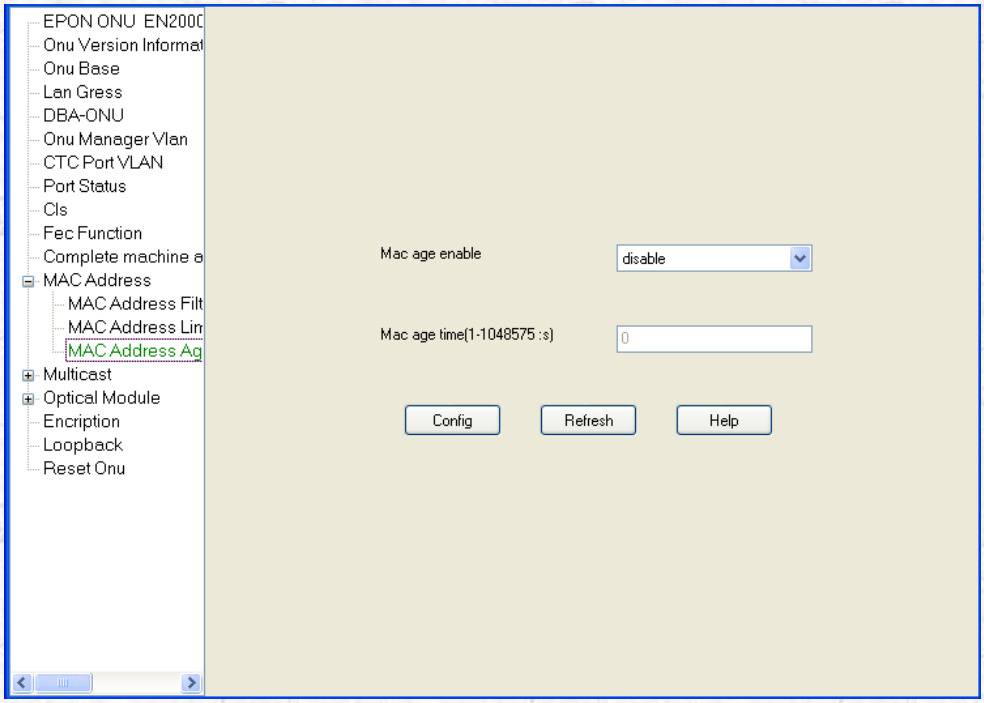


Figure40-35MAC Address Aging Function Configuration Interface

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:

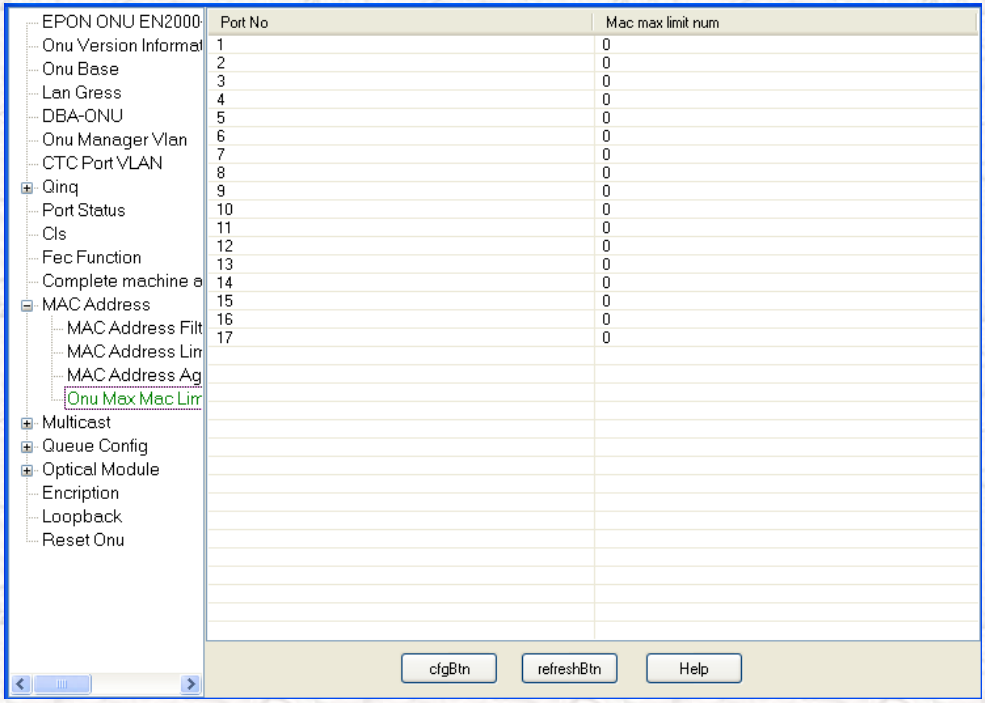


Figure40-36MAC Address Maximum Number Configuration Interface

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:

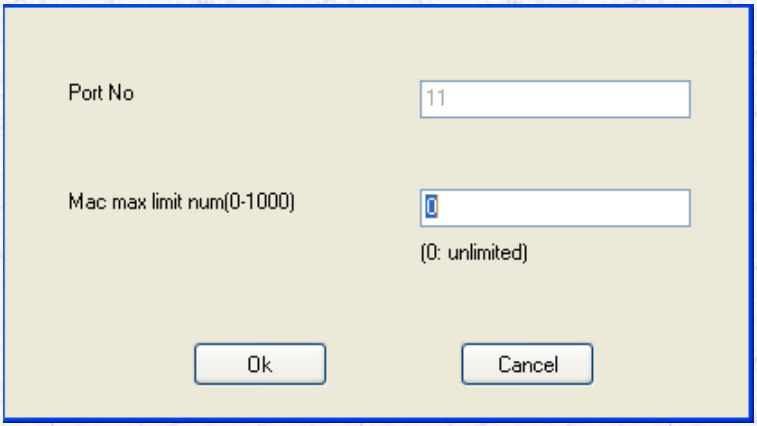


Figure40-37Parameter configuration interface

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.

40.16Multicast configuration

40.16.1 Multicast basic configuration

Configuration interface as the shown figure:

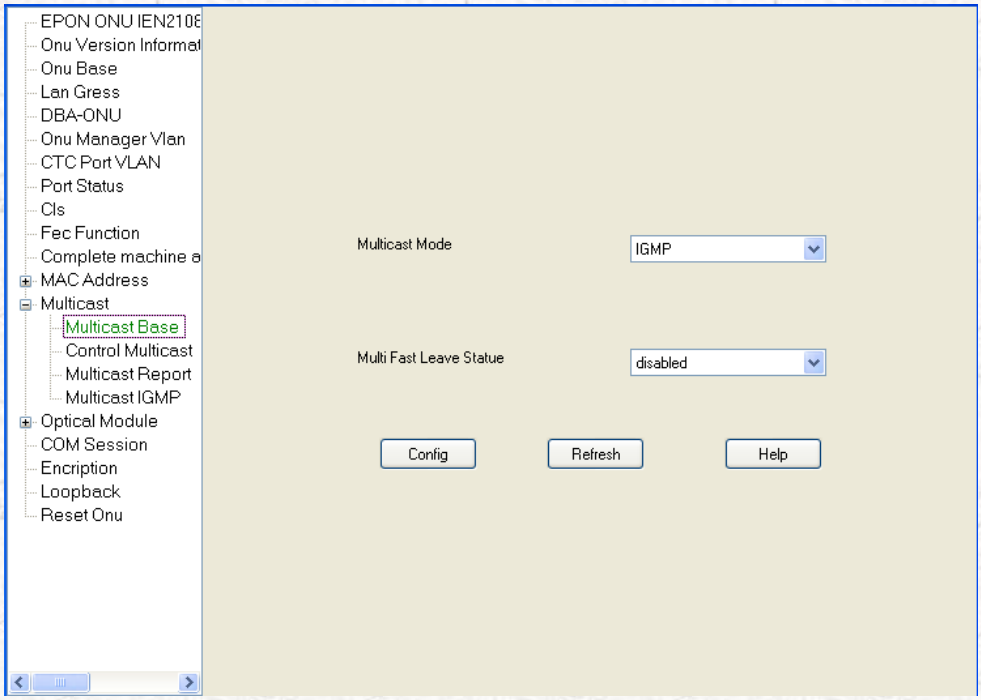


Figure40-38Multicast Basic Configuration Interface

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:

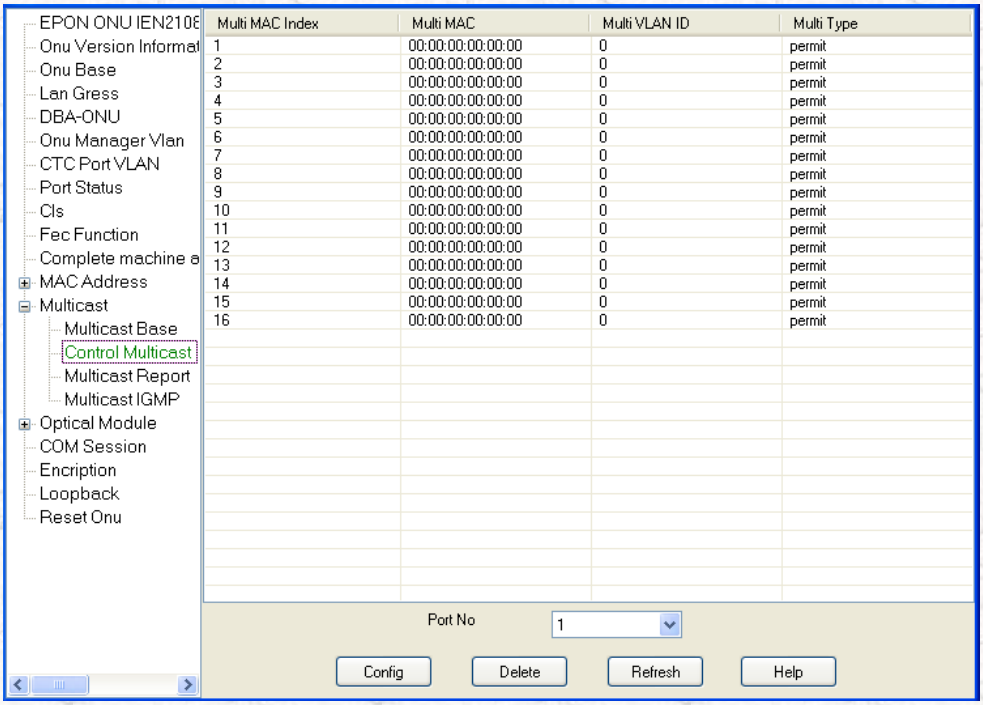


Figure40-39Controllable multicast configuration interface

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:

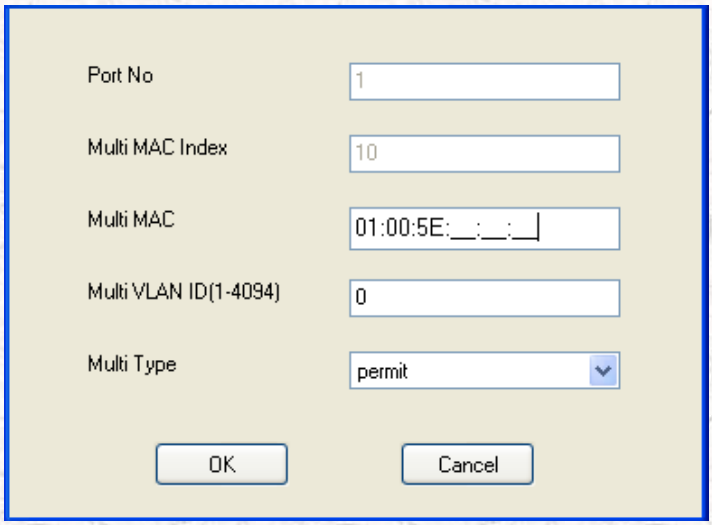


Figure40-40Parameter configuration interface

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 given a hand online.

40.16.3 Multicast message configuration

Configuration interface as the shown figure:

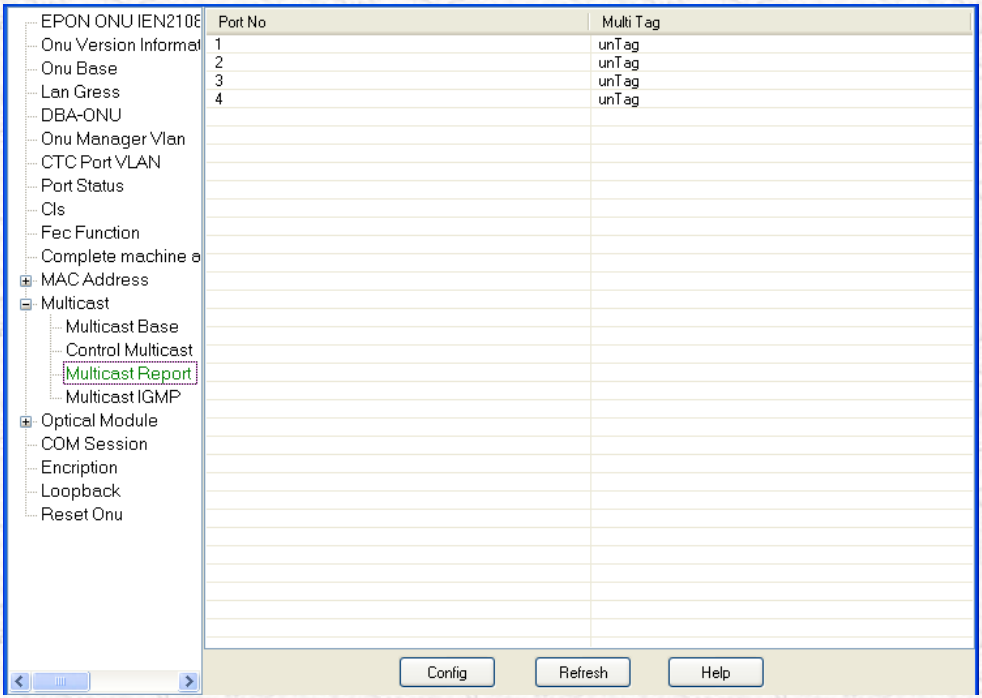


Figure40-41Multicast message configuration interface

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:

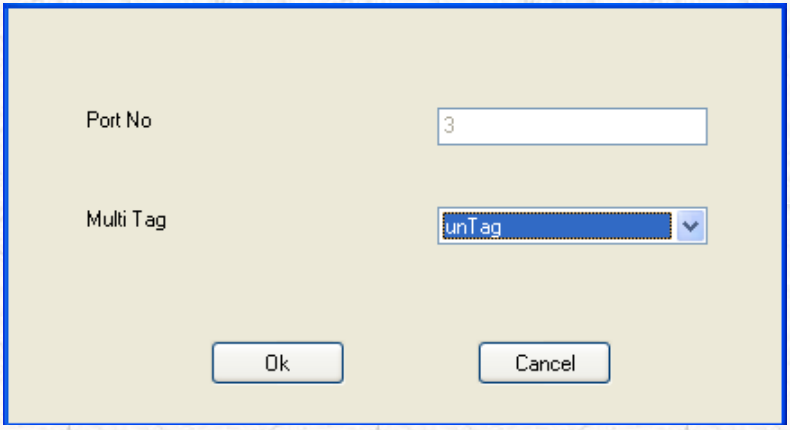


Figure40-42Parameter configuration interface

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:

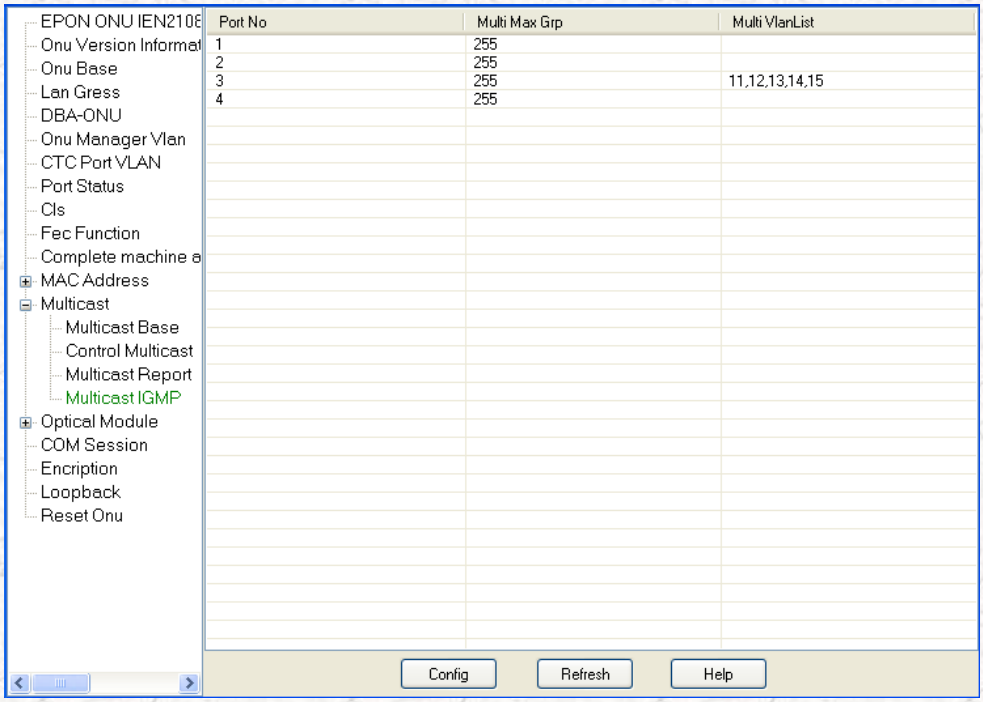


Figure40-43Multicast IGMP Configuration Interface

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:

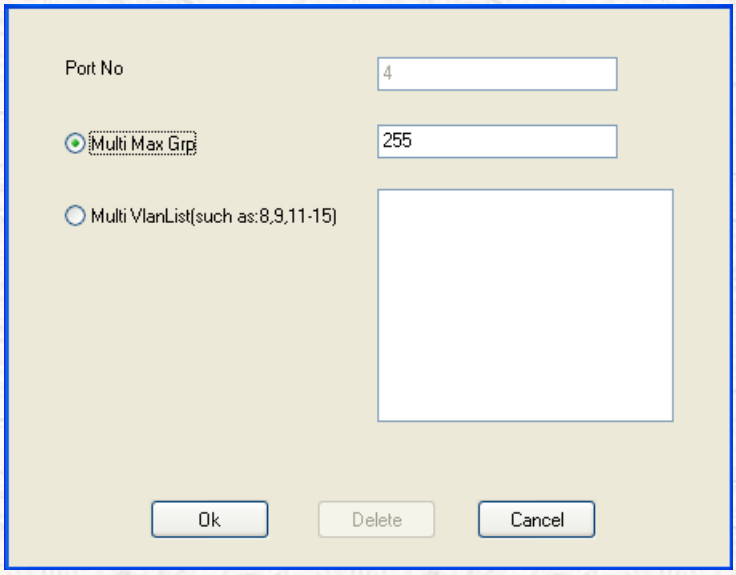


Figure40-44Parameter configuration interface

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:

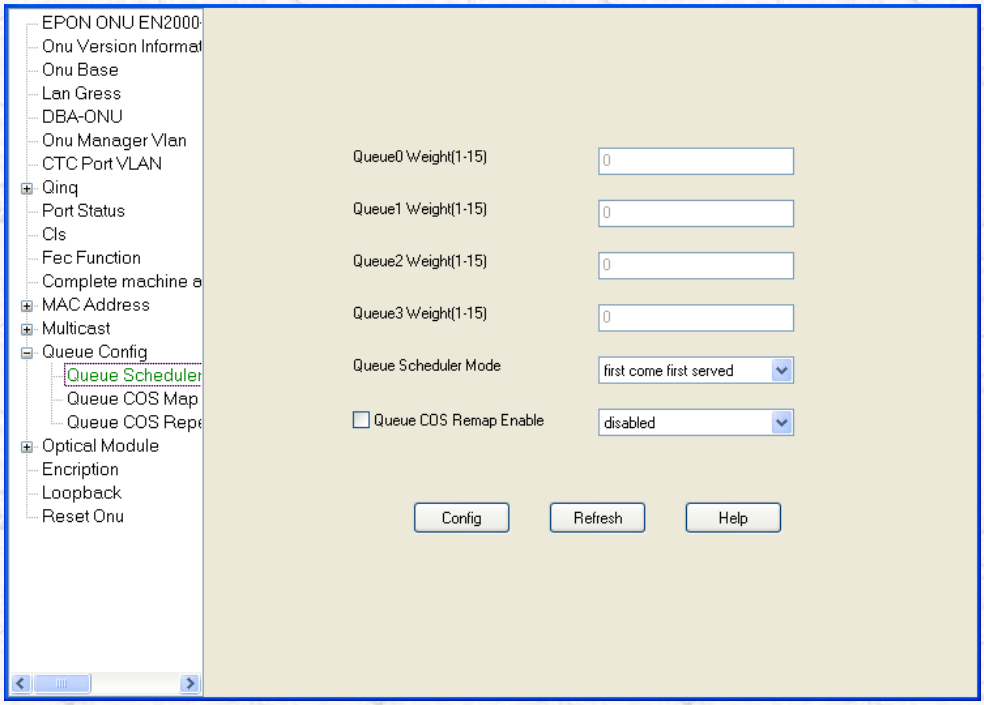


Figure40-45Queue scheduling interface

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:

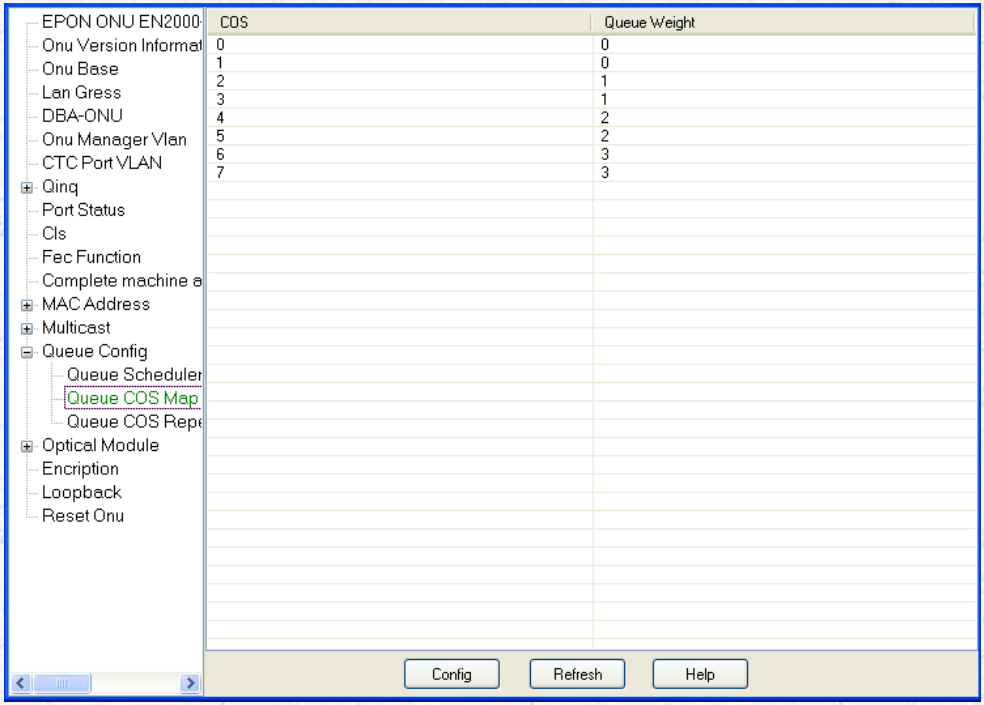


Figure40-46Queue COS mapping relationship interface

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:

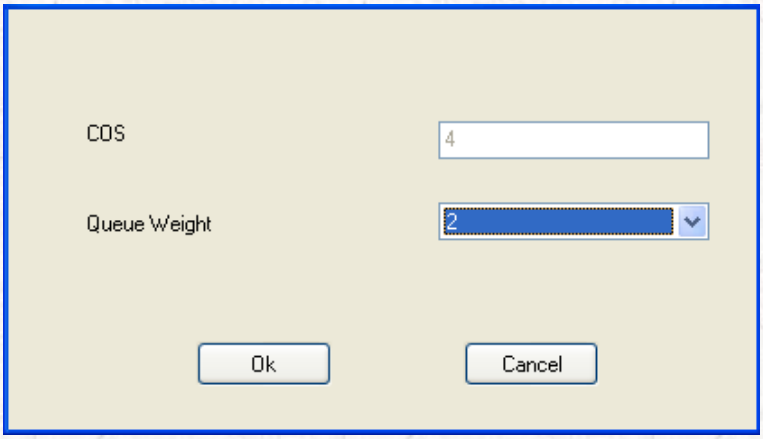


Figure40-47Parameter configuration interface

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:

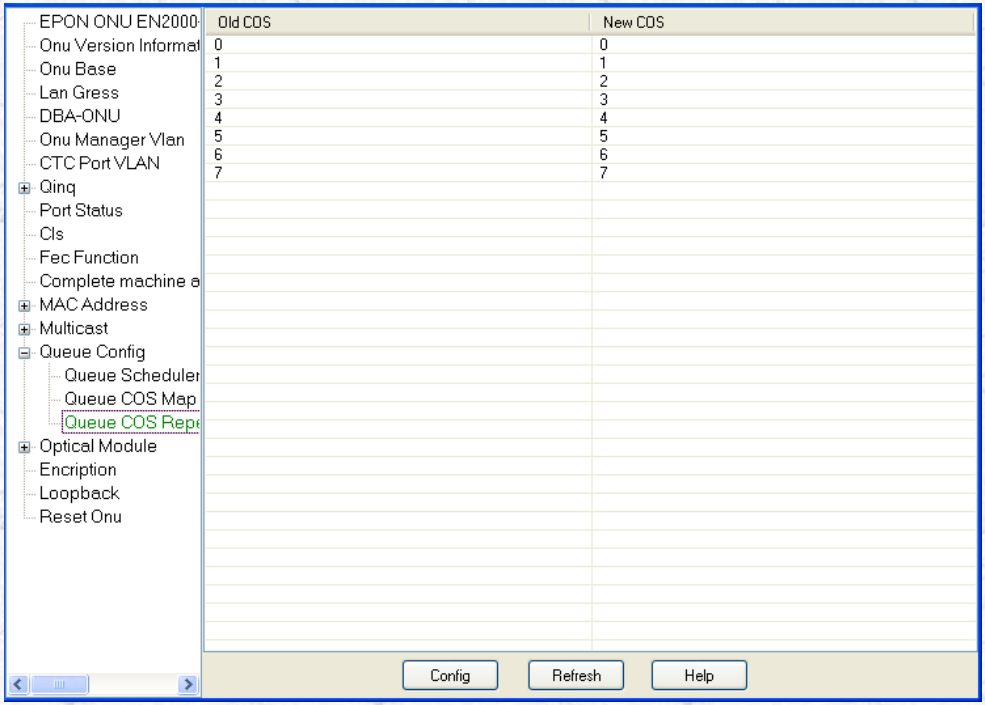


Figure40-48Queue COS repeat mapping relationship interface

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:

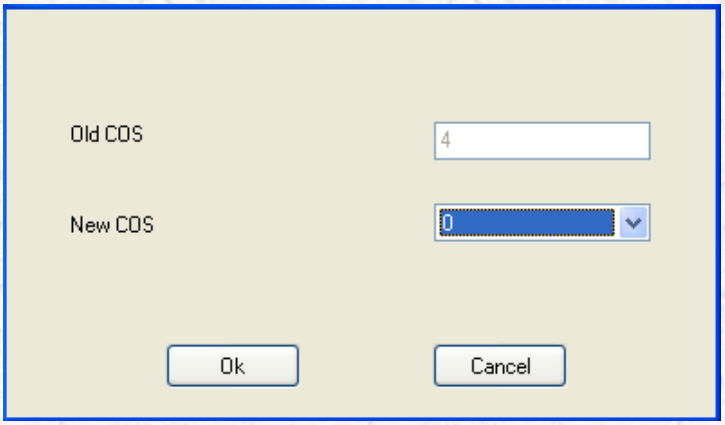


Figure40-49Parameter configuration interface

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:

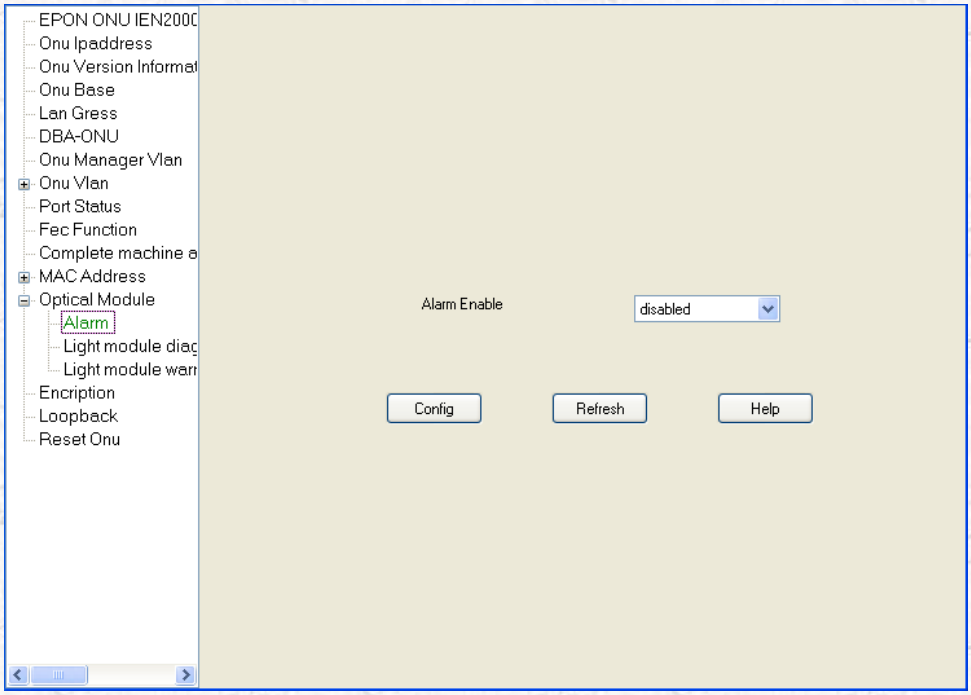


Figure40-50Alarm configuration interface

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:

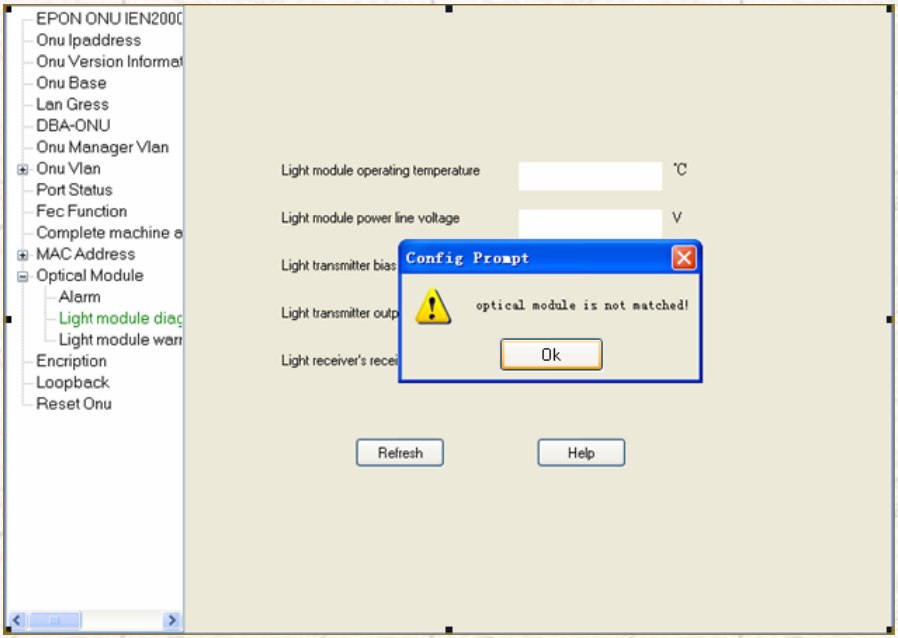


Figure40-51Light module diagnostic value interface

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:

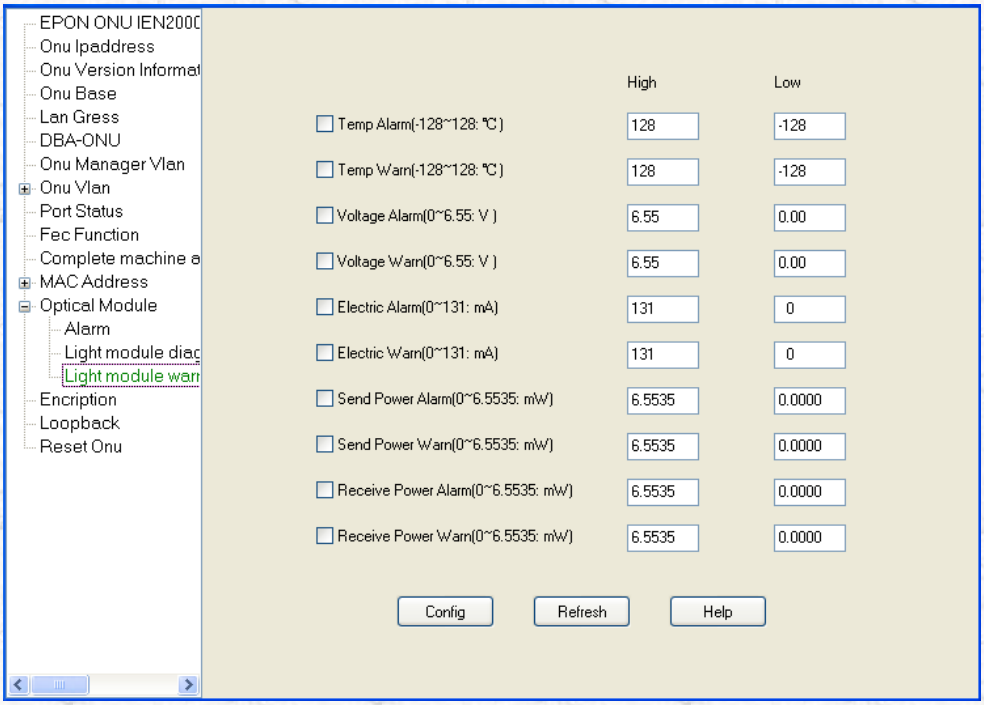


Figure40-52Light module alarm threshold configuration interface

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:

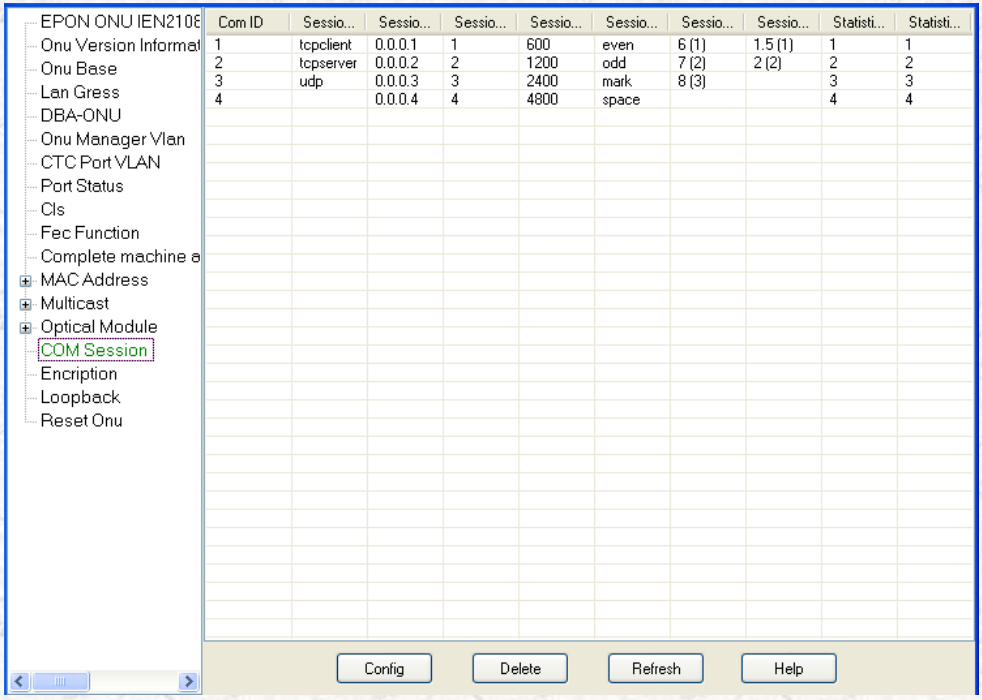


Figure40-53COM Session configuration

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:

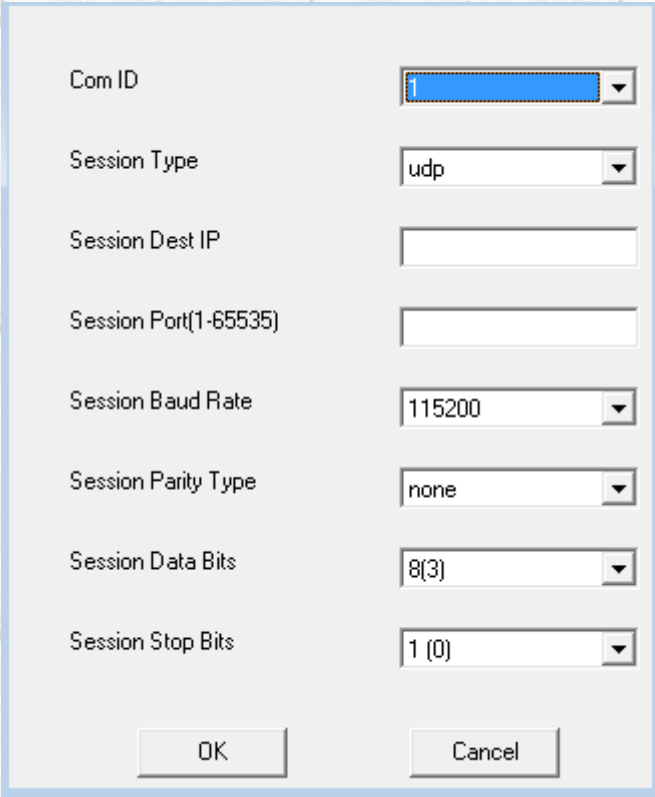


Figure40-54Parameter configuration interface

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.

40.20Encryption configuration

Configuration interface as the shown figure:

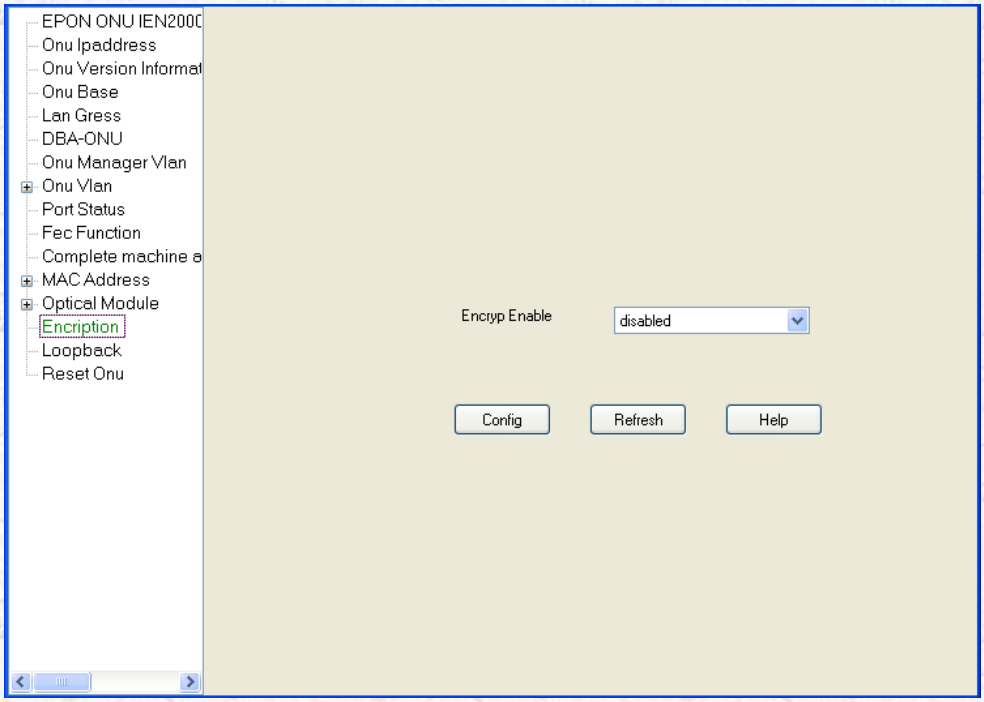


Figure40-55Encryption configuration interface

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.

40.21Loop back test configuration

Configuration interface as the shown figure:

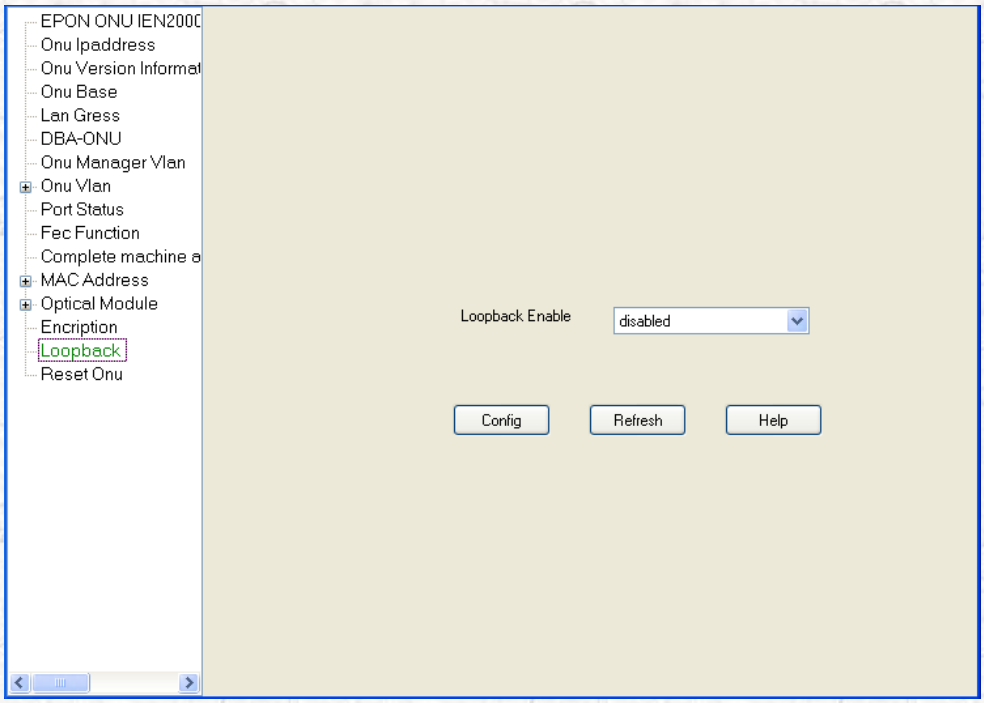


Figure40-56Loop back test configuration interface

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:

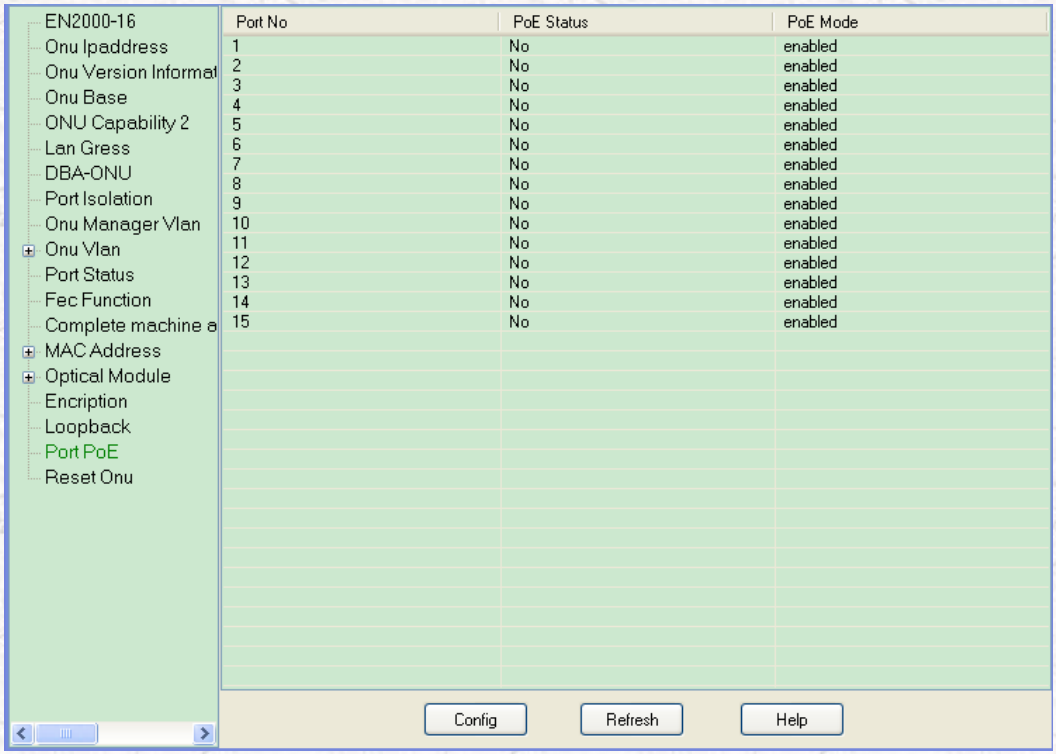


Figure40-57POE configuration interface

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:

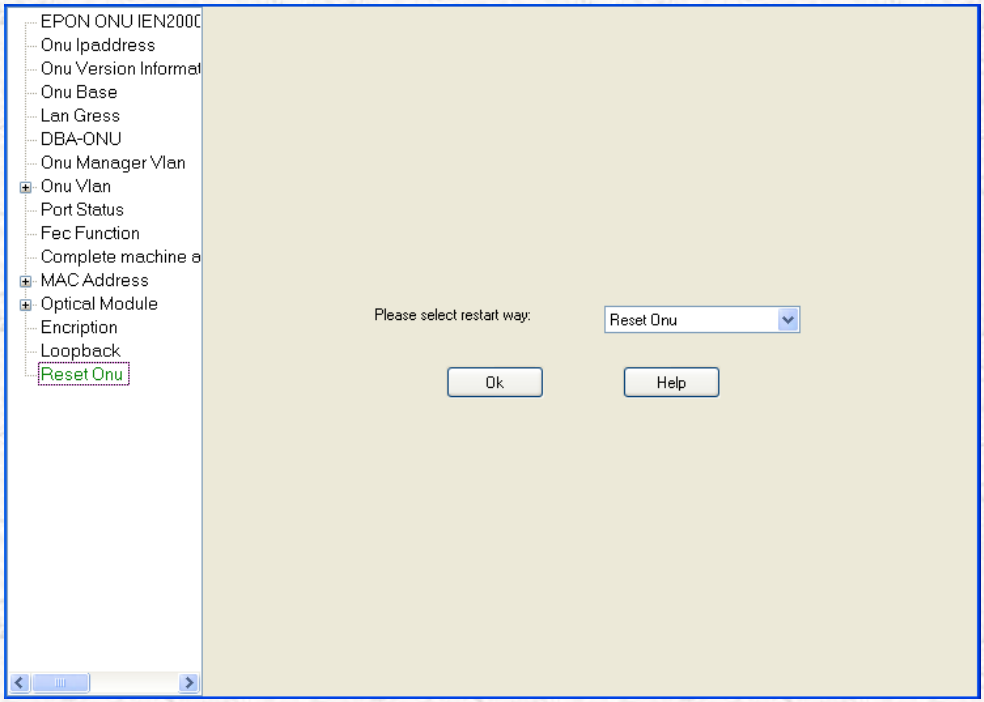


Figure40-58ONU Reboot Interface

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:

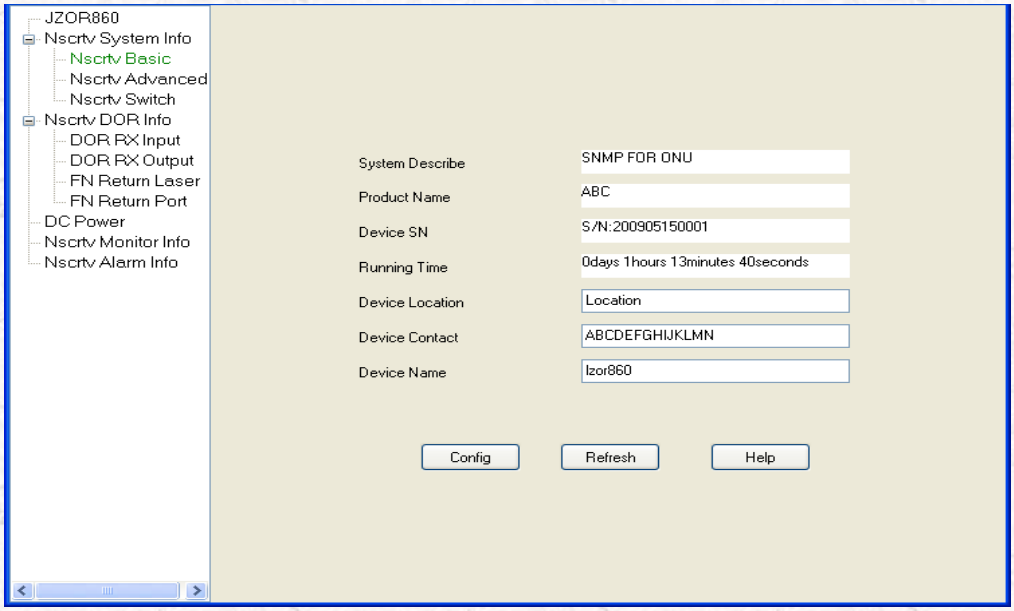


Figure41-1Basic information configuration interface

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:

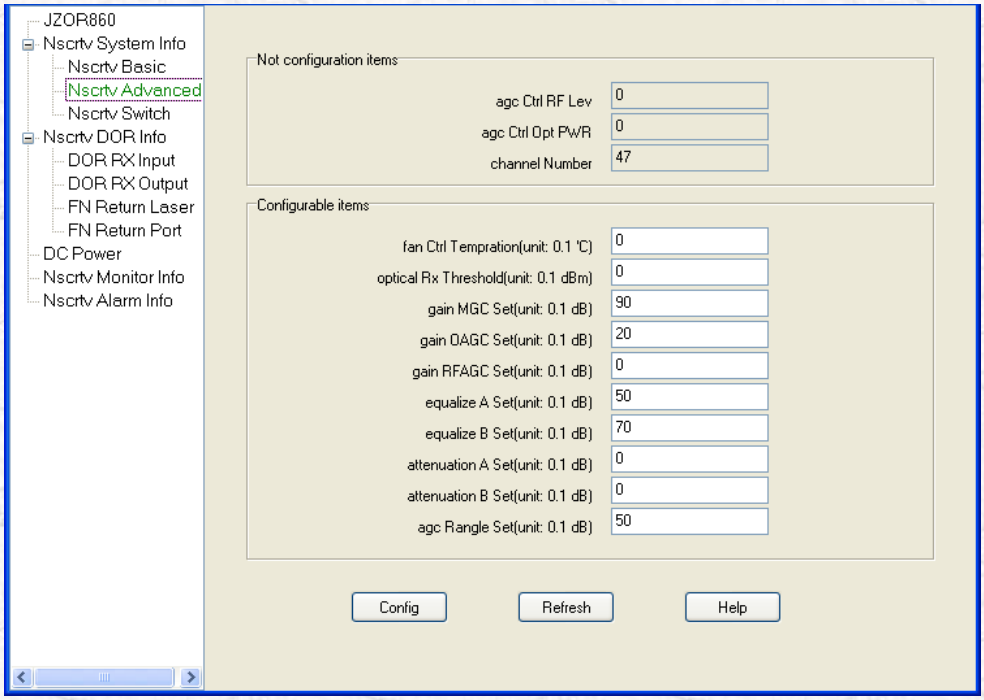


Figure41-2Senior information configuration interface

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 Rangle 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:

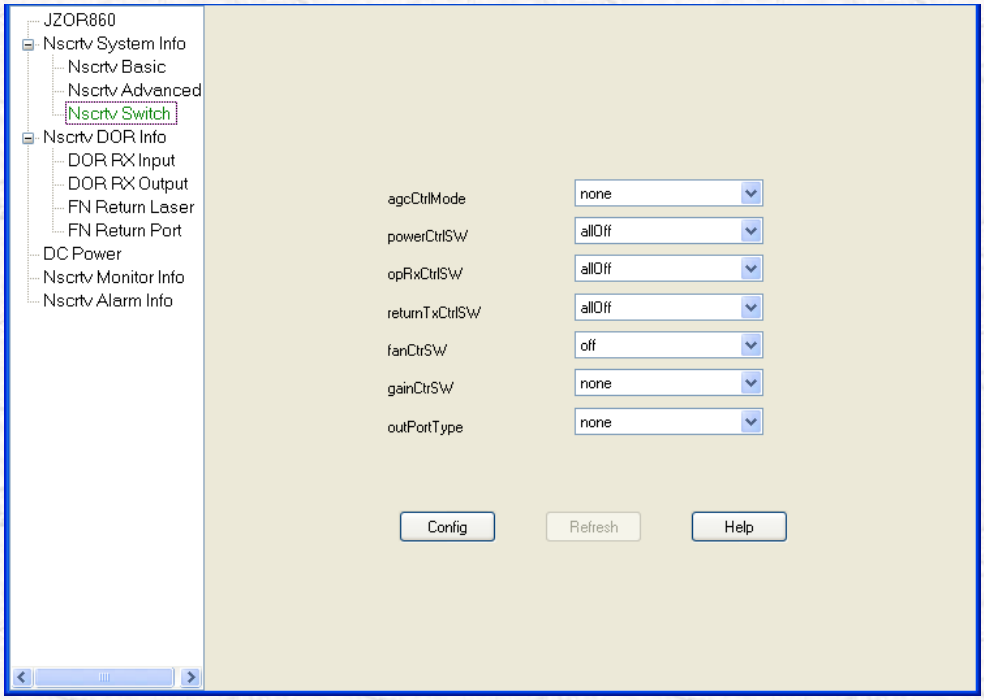


Figure41-3Switch Configurable Interface

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.

41.4DOR RX Input

Configuration interface as the shown figure:

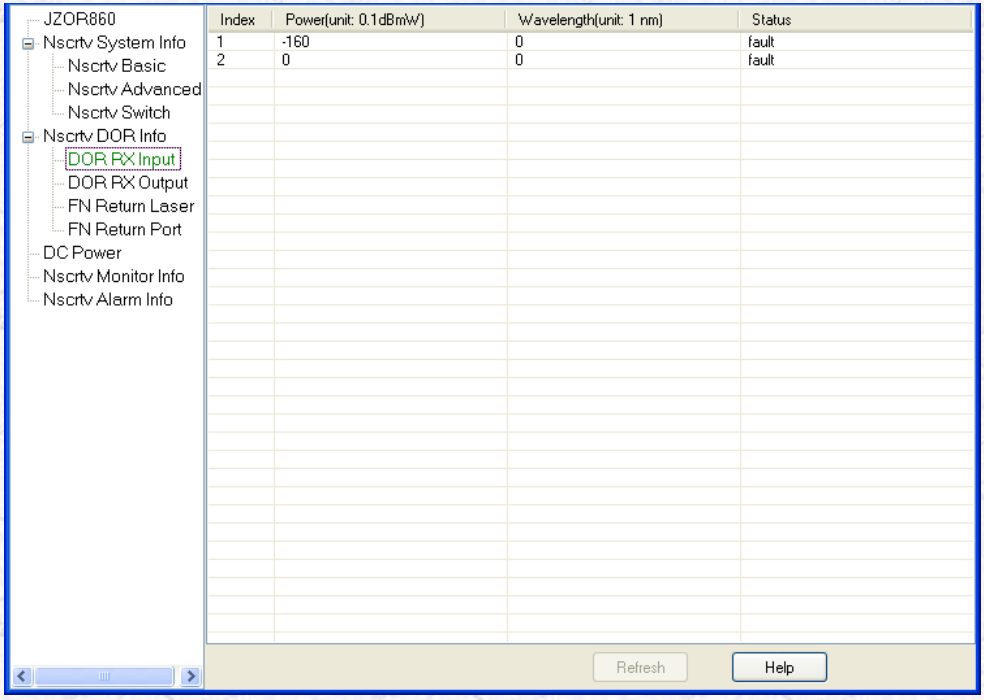


Figure41-4DOR RX Input configuration interface

State value: It has normal and fault these two option;

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.

41.5DOR RX Output

Configuration interface as the shown figure:

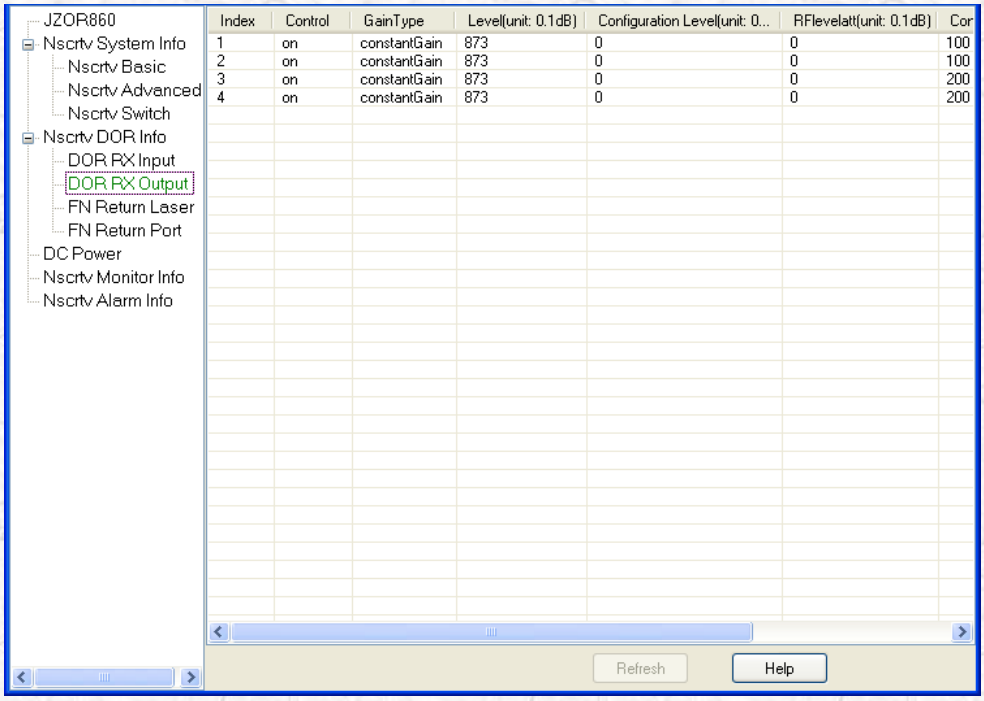


Figure41-5DOR RX Output configuration interface

Control Switch: It has on and off these two option.

Gain Type: It has constantLevel and constantGain these two option.

RF level: The unit is0.1Buv.

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 Retum Laser

Configuration interface as the shown figure:

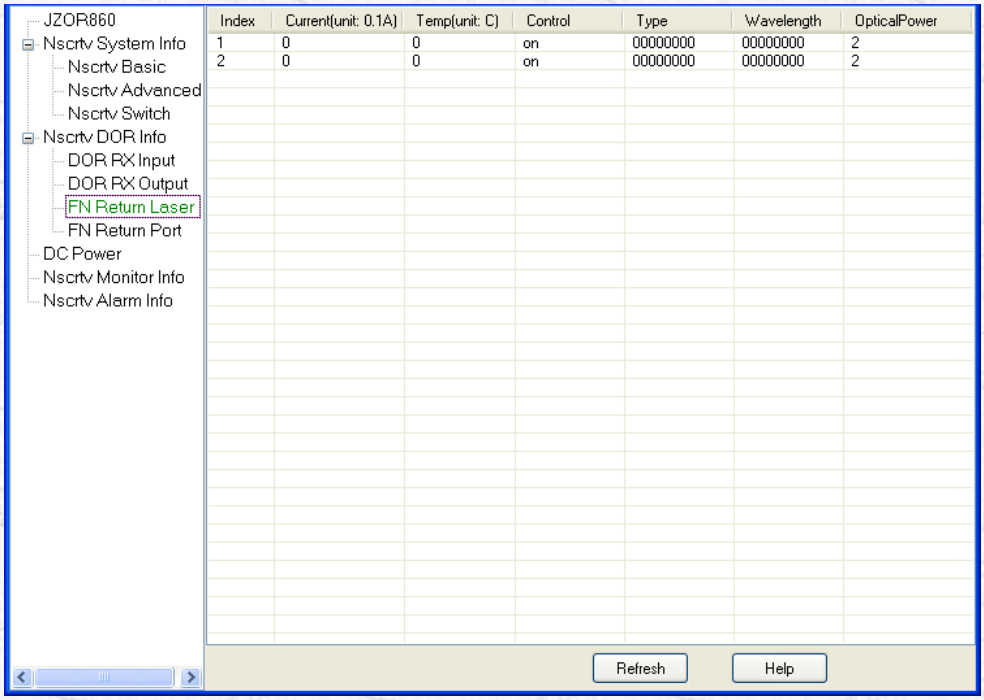


Figure41-6FN Retum Laser configuration interface

Current: The unit is 0.1A.

Temp: The unit is degrees C.

Control: It has on and off these two option.

Optical power: The unit is 0.1 Milliwatt.

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.

41.7FN Retum Port

Configuration interface as the shown figure:

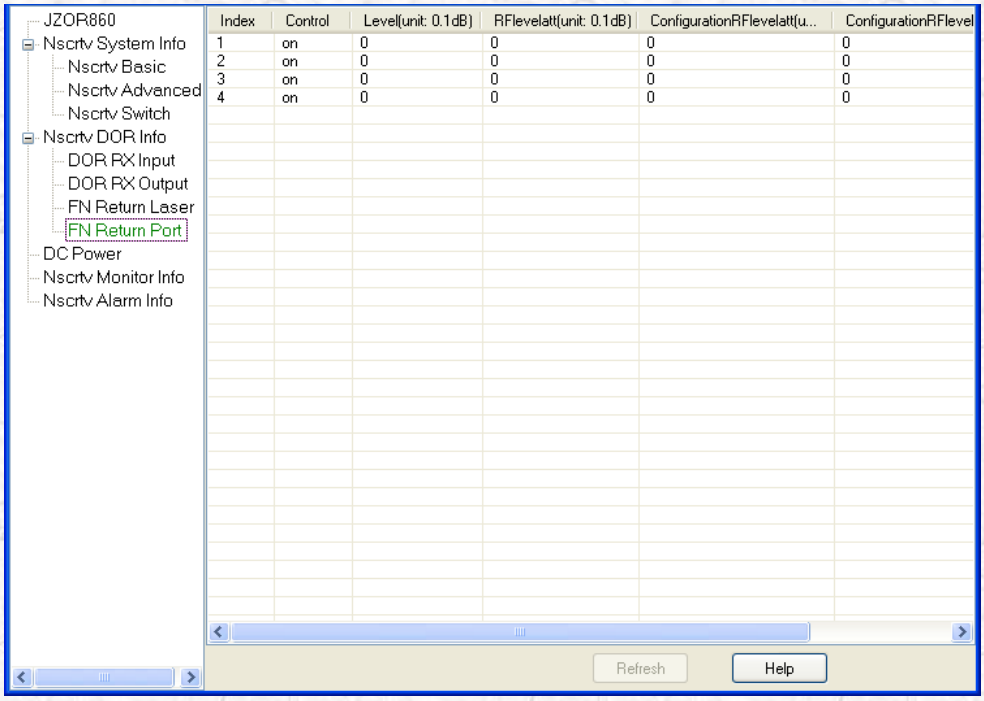


Figure41-7FN Retum Port configuration interface

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:

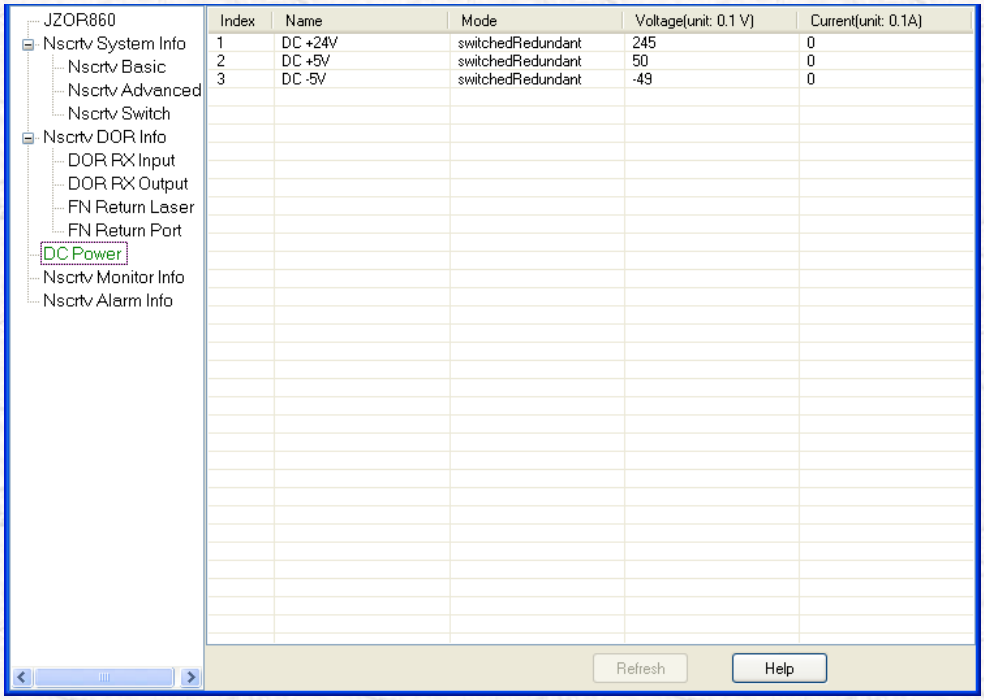


Figure41-8DC Power Configuration Interface

Mode: It has loadsharing,switchedRedundant and aloneSupply these three option.

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.

41.9Nscrtv 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 toread 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:

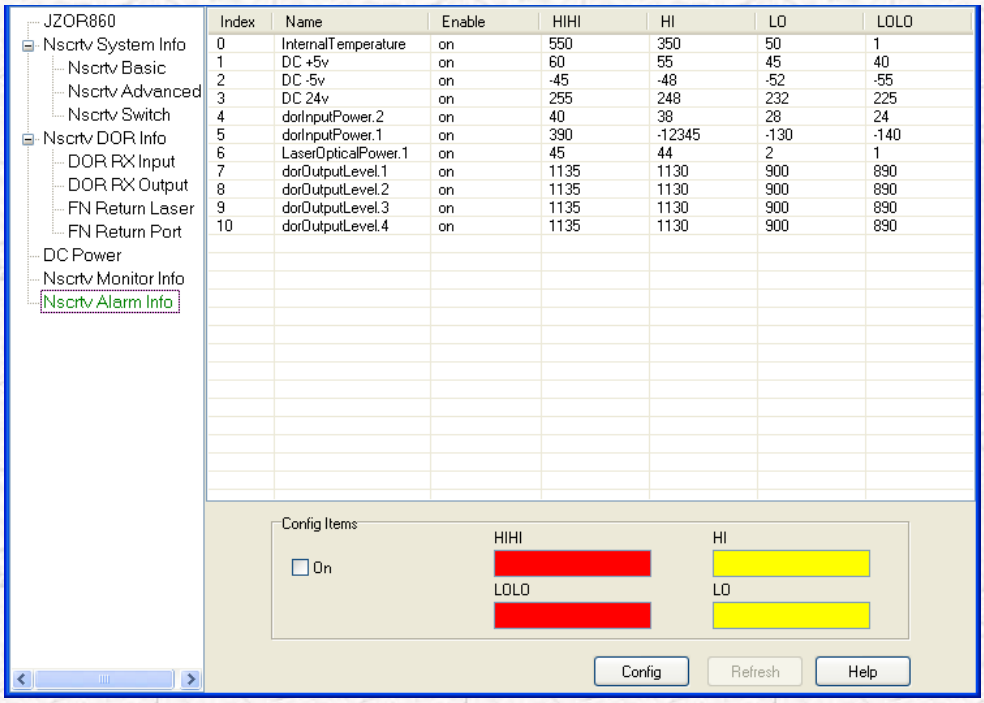


Figure41-10Nscrtv Alarm Info Configuration Interface

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 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.

41.11DBA Configuration

Configuration interface as shown:

erface as shown:

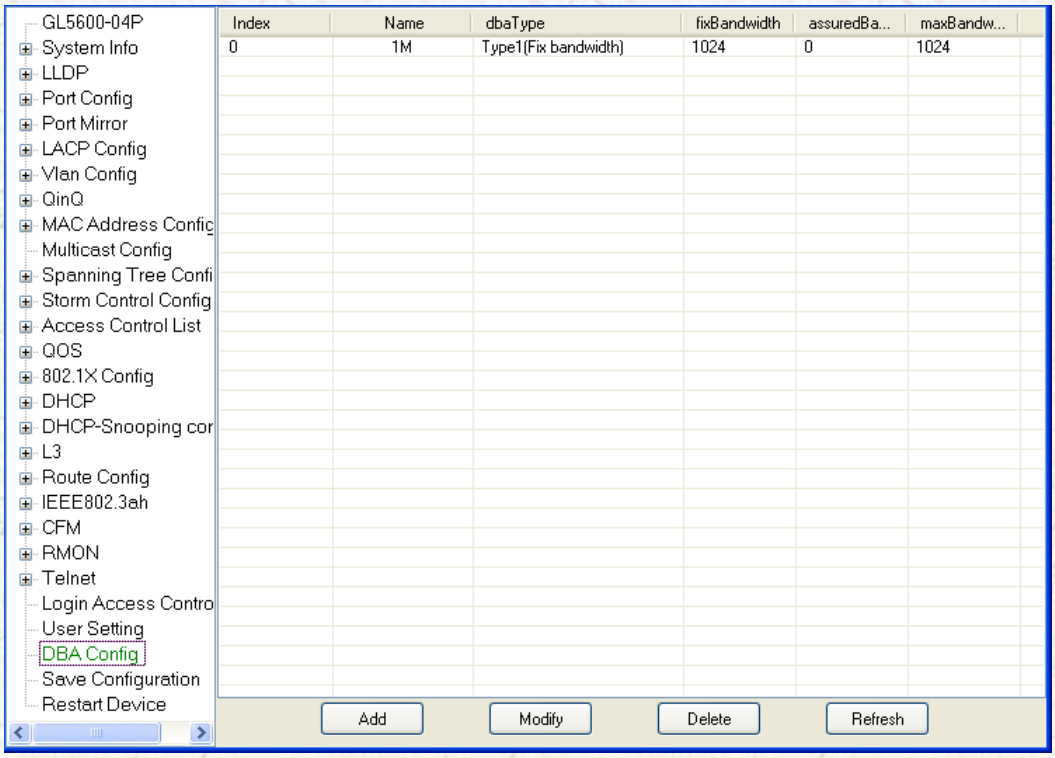


Figure41-11Nscrtv Alarm Info Configuration Interface

Click 'Add' button ,it will pop up a DBA to Add interface.

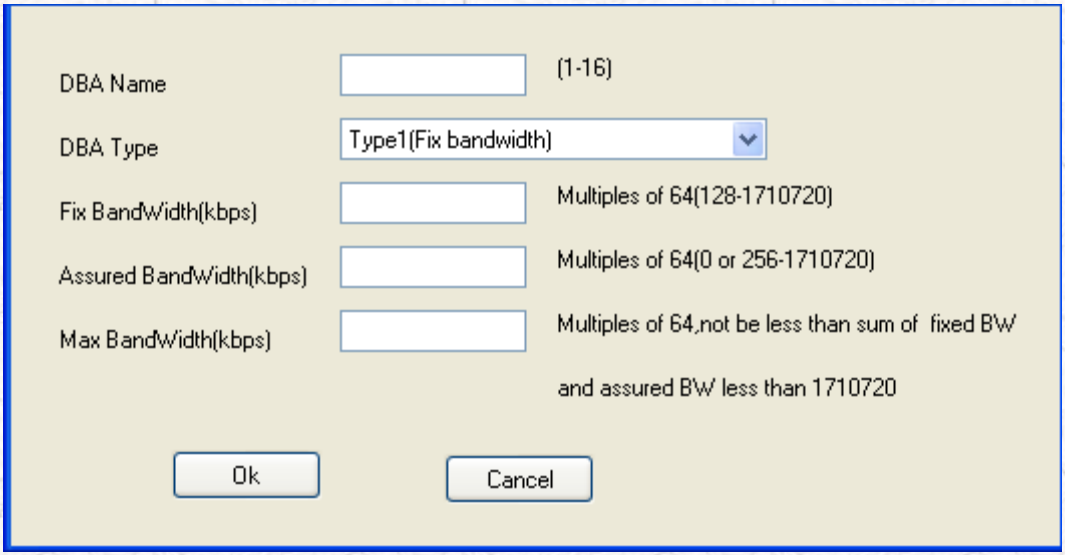


Figure41-12 DBA templates Configuration Interface

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

42.1OLT Version

The interface displays **OLT Version,Hardware Version** and **OLT MAC** of the selected board ,As shown:

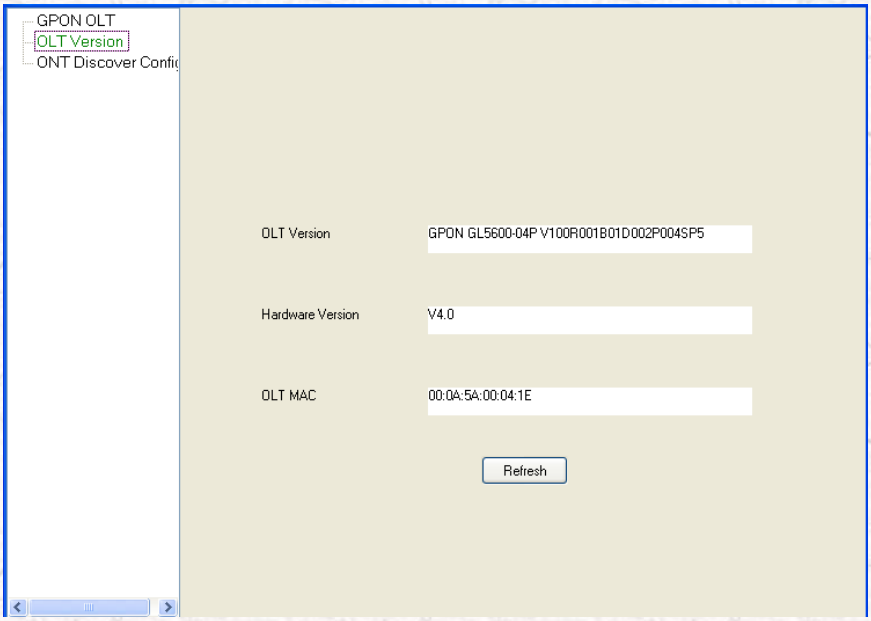


Figure42-1 OLT Version Interface

42.2ONT Discover Configuration

The configuration is used to config the parameters of the discover and Auth on the Pon.as shown below:

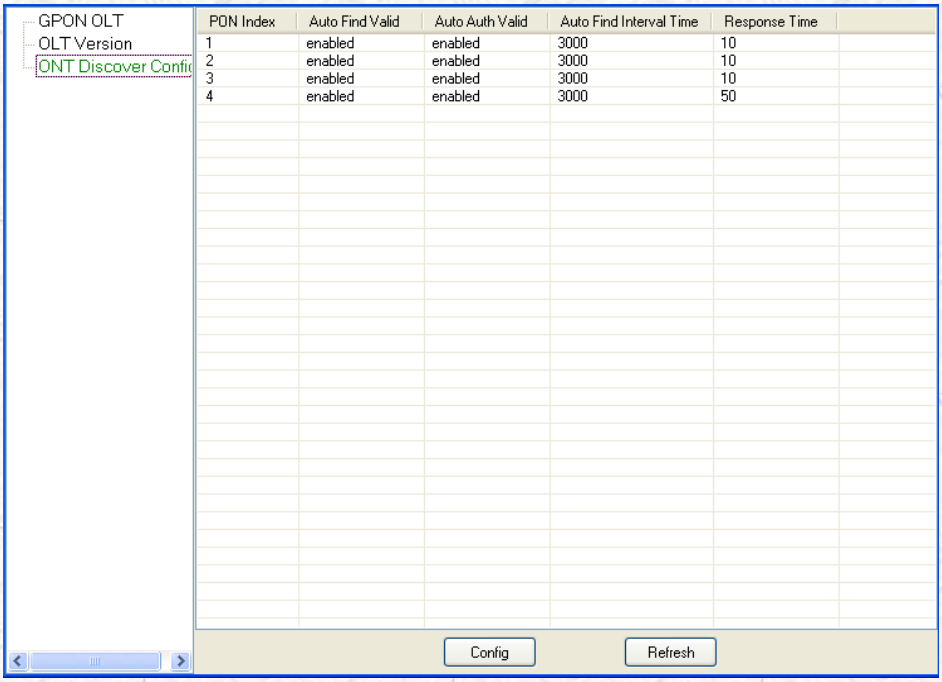


Figure42-2 OLT Discover Configuration Interface

Select a record and click '**Config**' button to pop up the configuration window, as shown below:

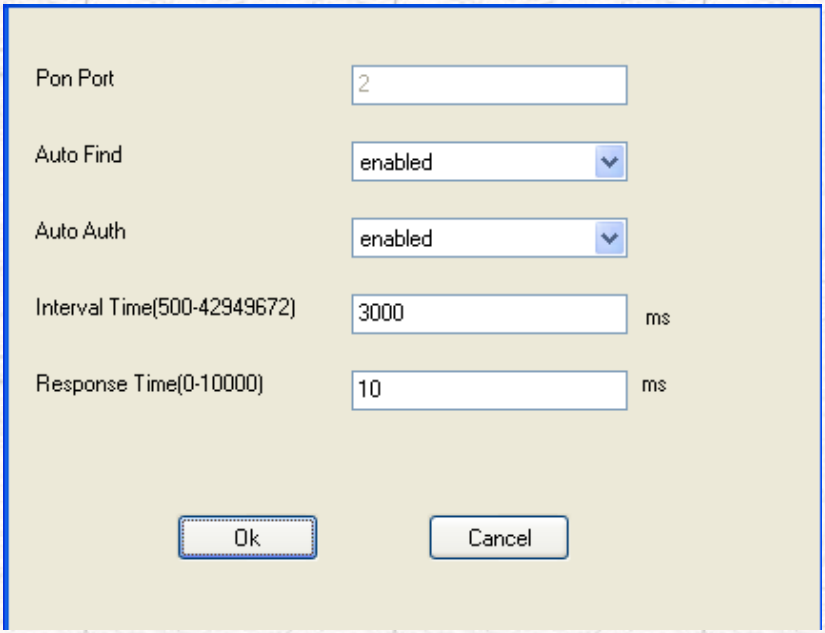


Figure42-3ONT Discover Setting Interface

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

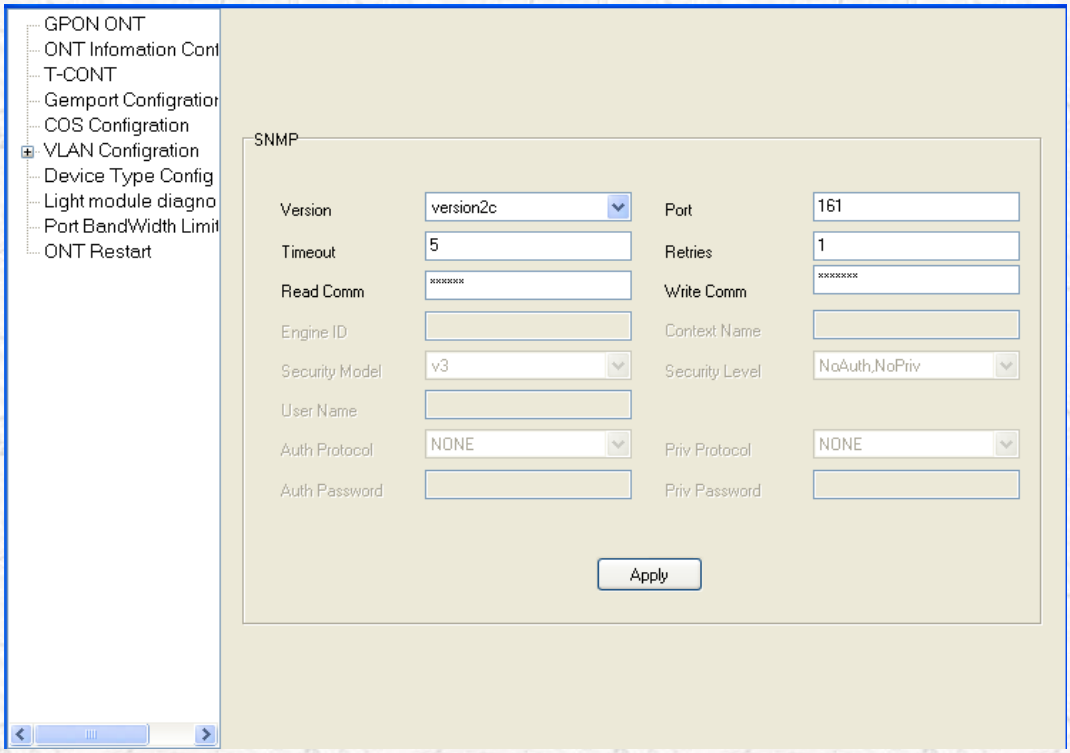


Figure43-1ONT Configuration Interface

43.1ONT Information Configuration

ONT Information Configuration mainly for some of the parameters of the ONT for viewing and configuration, as shown:

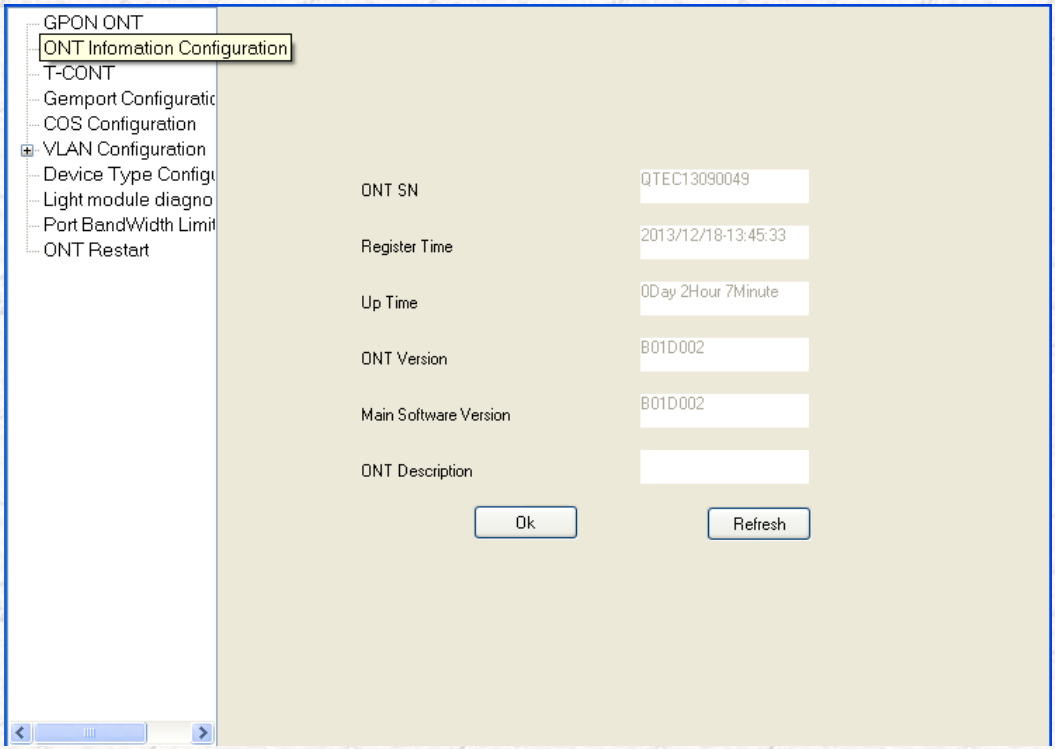


Figure43-2ONT Information Configuration

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.

43.2T-CONT

In the T-CONT Configuration,you can bind the T-CONT to the Template,as shown below:

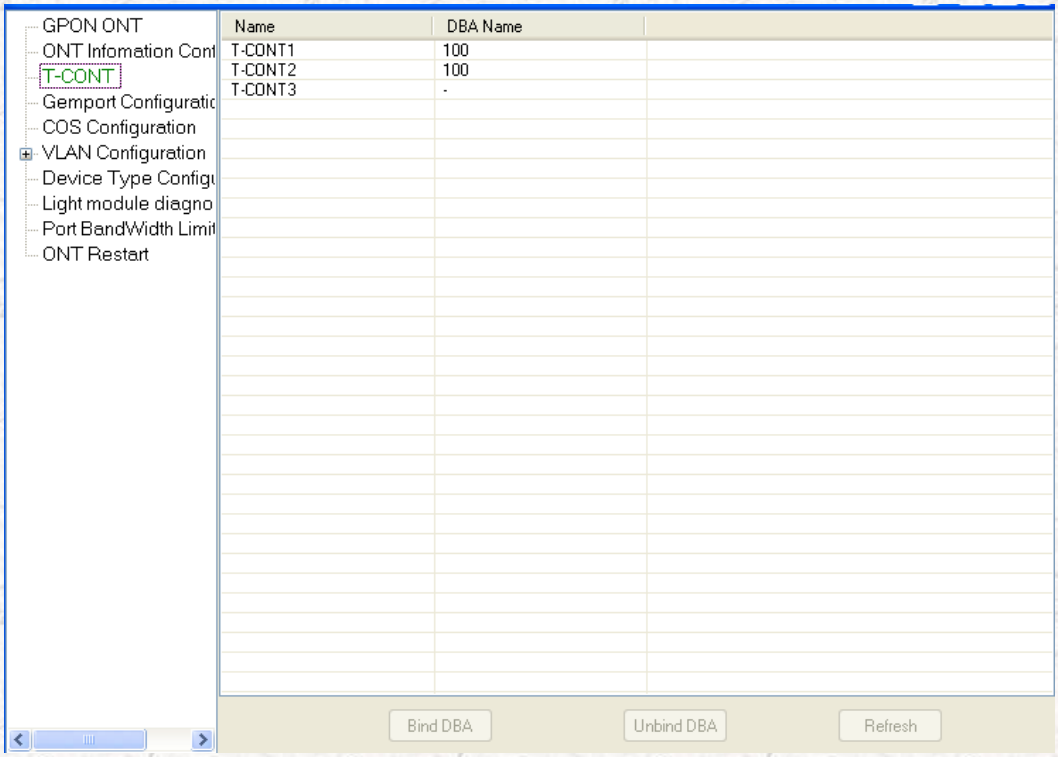


Figure43-3 T-CONT Interface

Select one T-CONT,click the '**Bind DBA**' button,the form for binding DBA displays,as shown below:

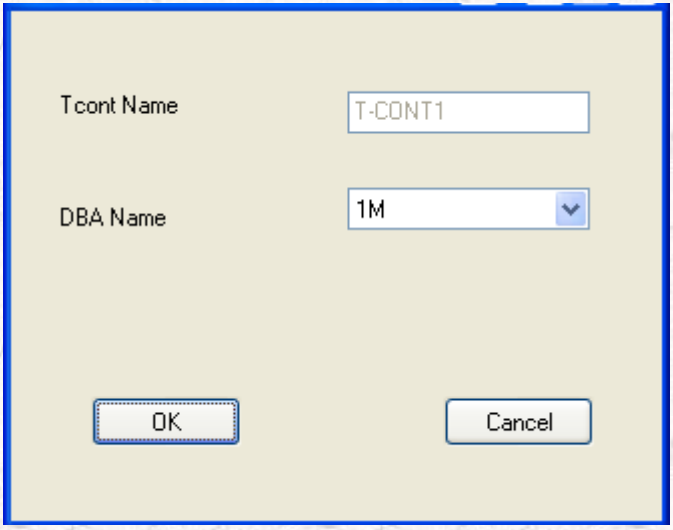


Figure43-4 T-CONT Bind DBA Form

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.

43.3Gemport Configuration

It is used to be creating Gemport,as shown below:

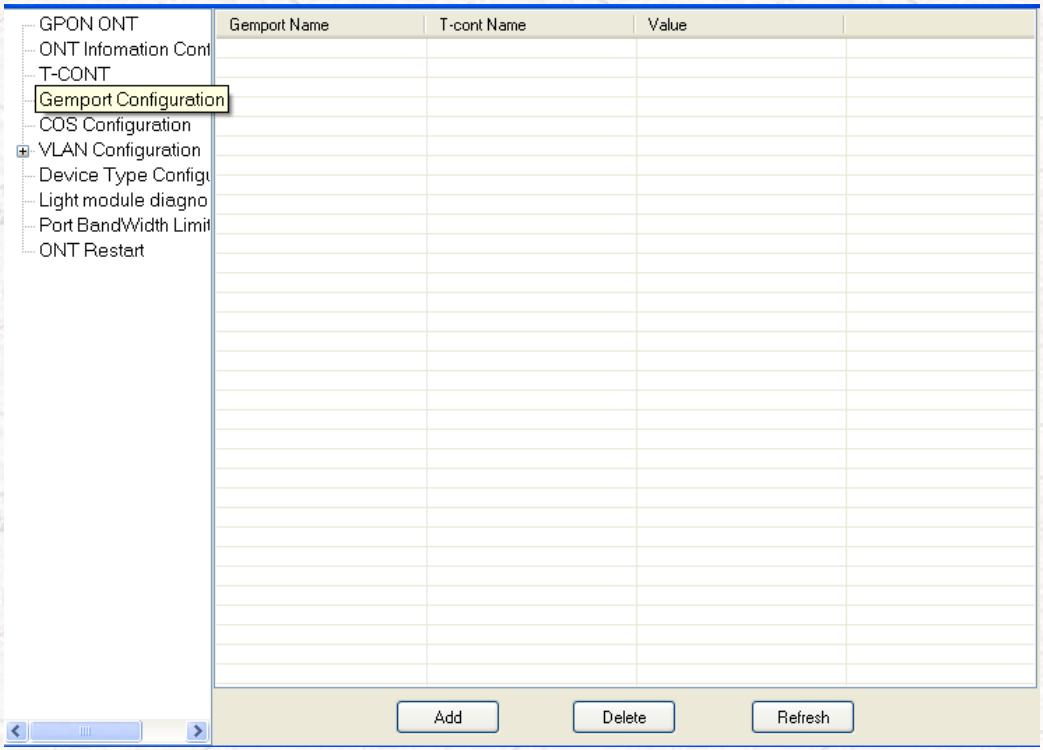


Figure43-5 Gemport Configuration Interface

Click the '**Add**' button, the Gemport Config Form will be display,it is used to creating Gemport,as shown below:

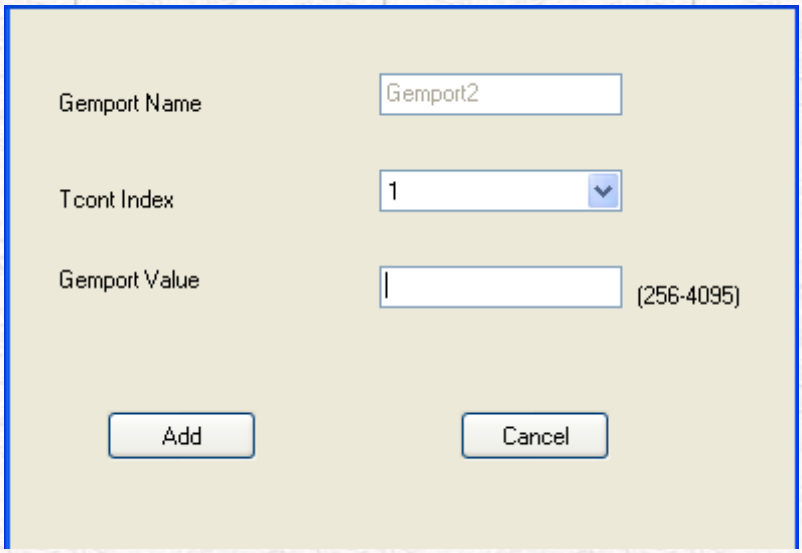


Figure43-6 Gemport Config Form

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.

43.4COS Configuration

The inferface as shown below:

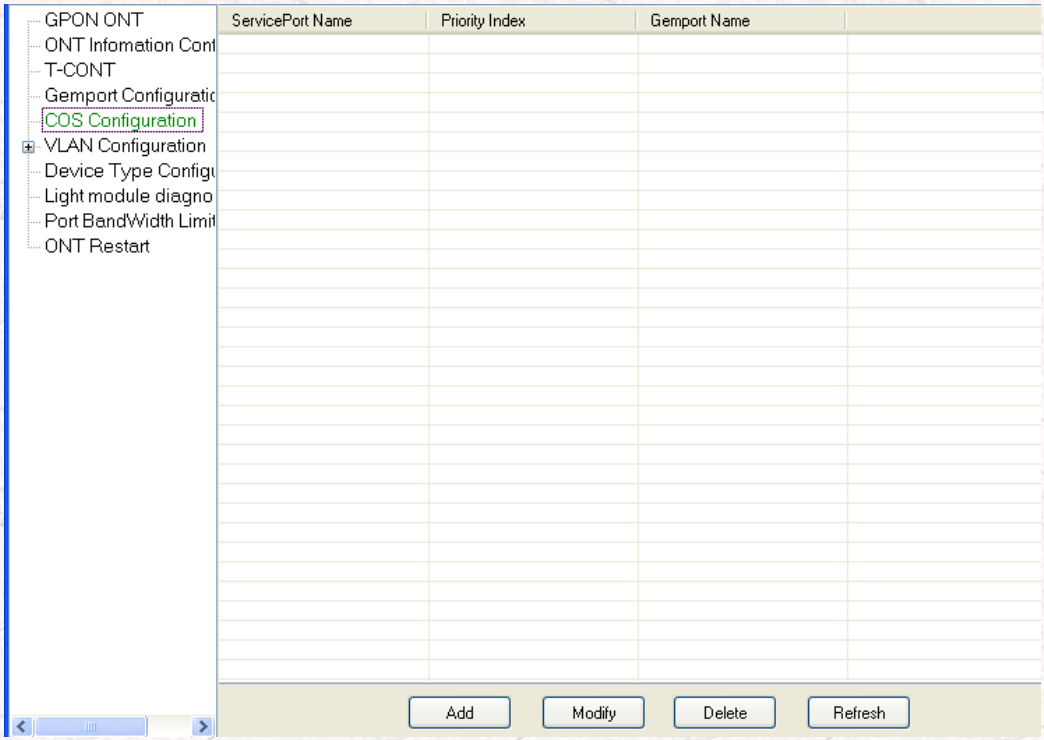


Figure43-7COS Configuration Interface

Click the '**Add**' button,the interface as shown below:

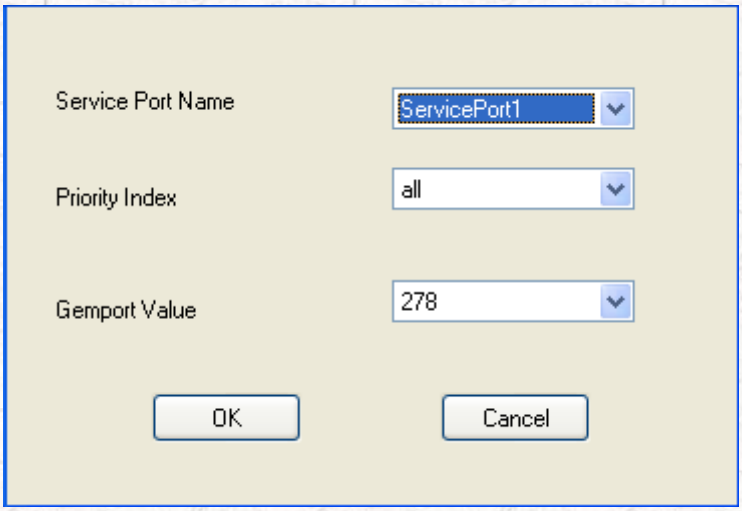


Figure43-8Primary Config Form

n the form,select the **ServicePort,**and select the **Primory 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.

43.5GPON VLAN Configuration

It mainly includes VLAN Creation and Port Mode.

43.5.1 VLAN Creation

Configuration interface as shown:

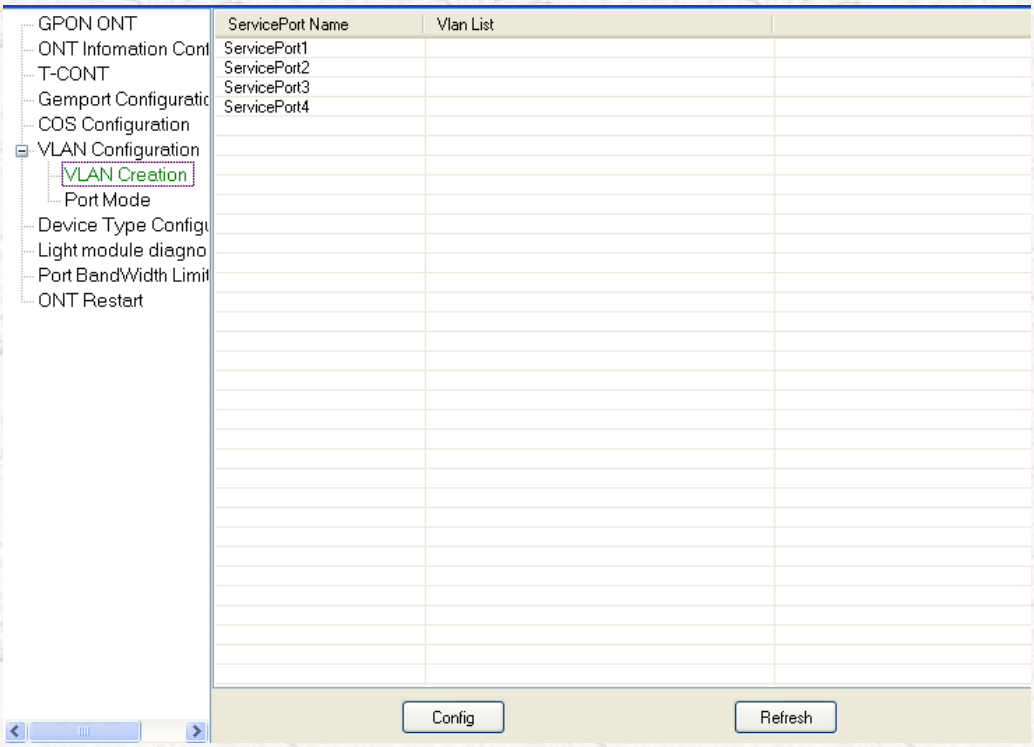


Figure43-9VLAN Creation Interface

Select ServicePort,click the '**Config**' button ,the interface display as shown below:

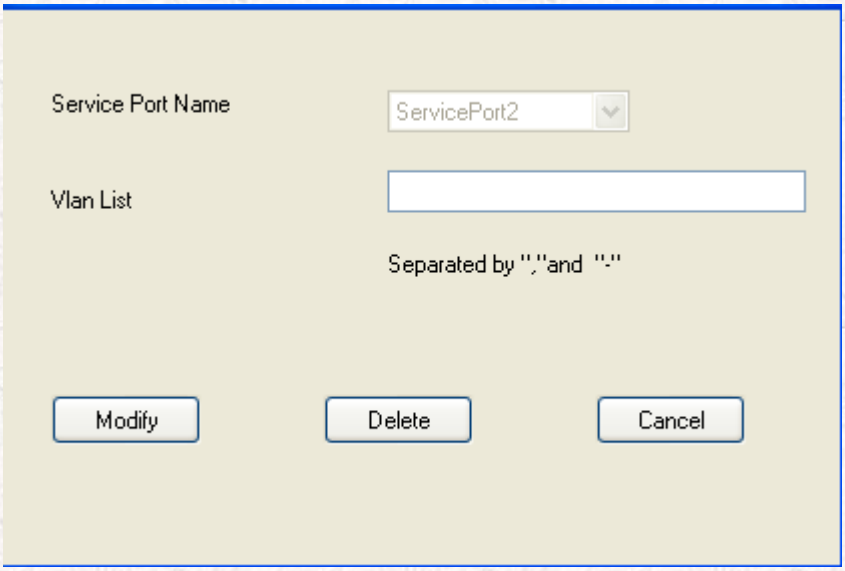


Figure43-10VLAN List Config Form

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:

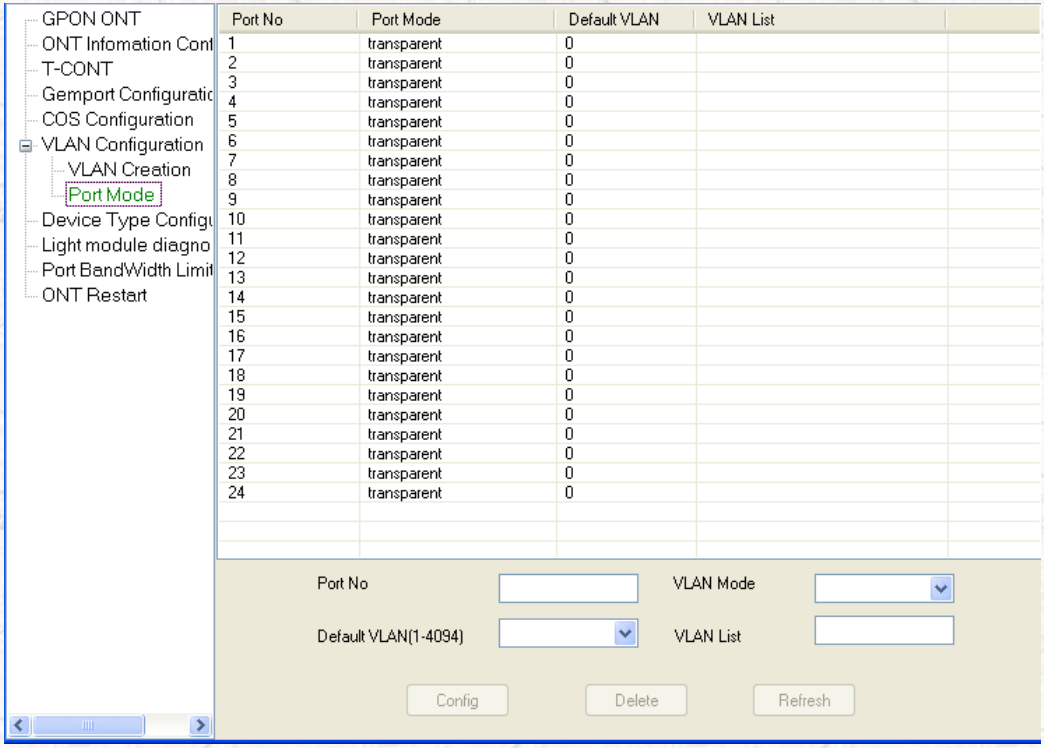


Figure43-11VLAN Port Mode Interface

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.

4, when you want to modify the port translation mode, click on the ‘Config’ pop-up window as shown:

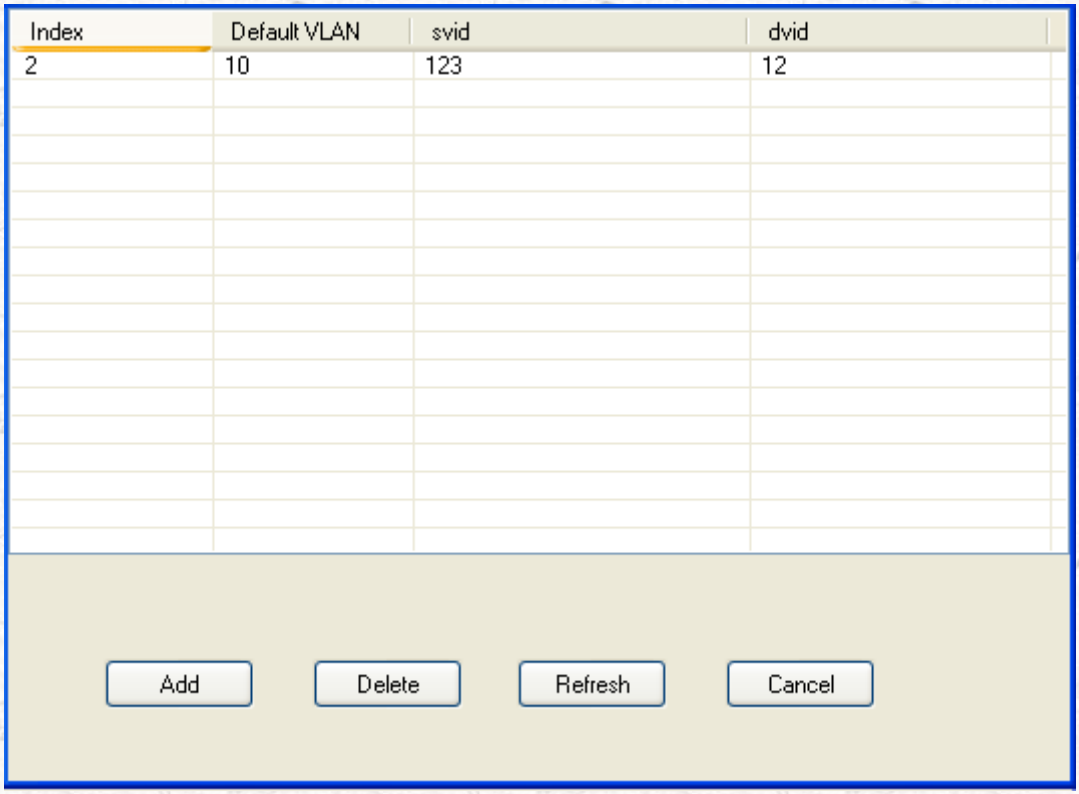


Figure43-12VLAN Translation Config Form

Click the ‘**Add**’ button to add a converter to increase the interface as shown:

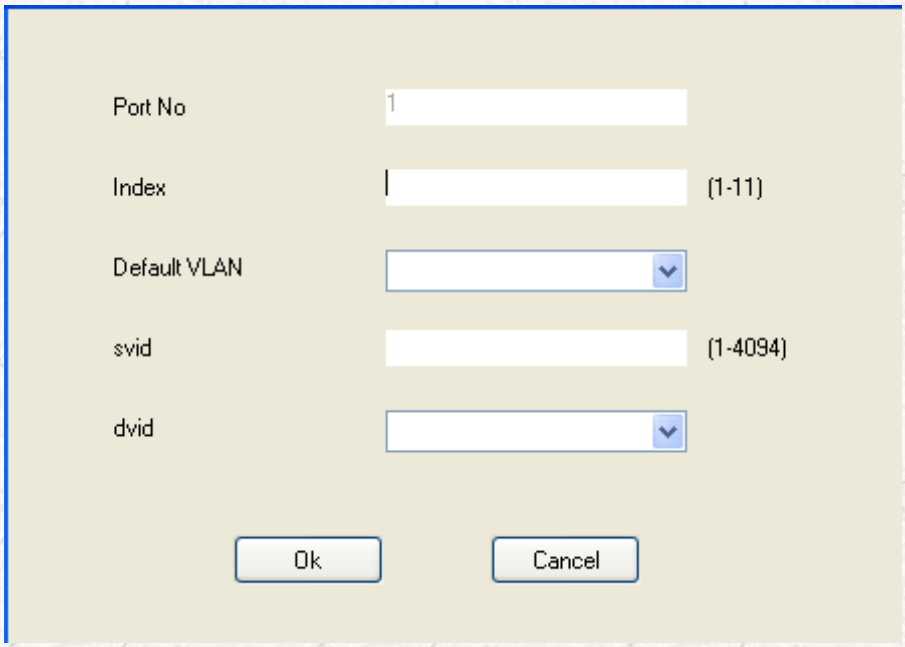


Figure43-13Translation Config Form

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.

43.6Device Type Configuration

Configuration interface as shown below:

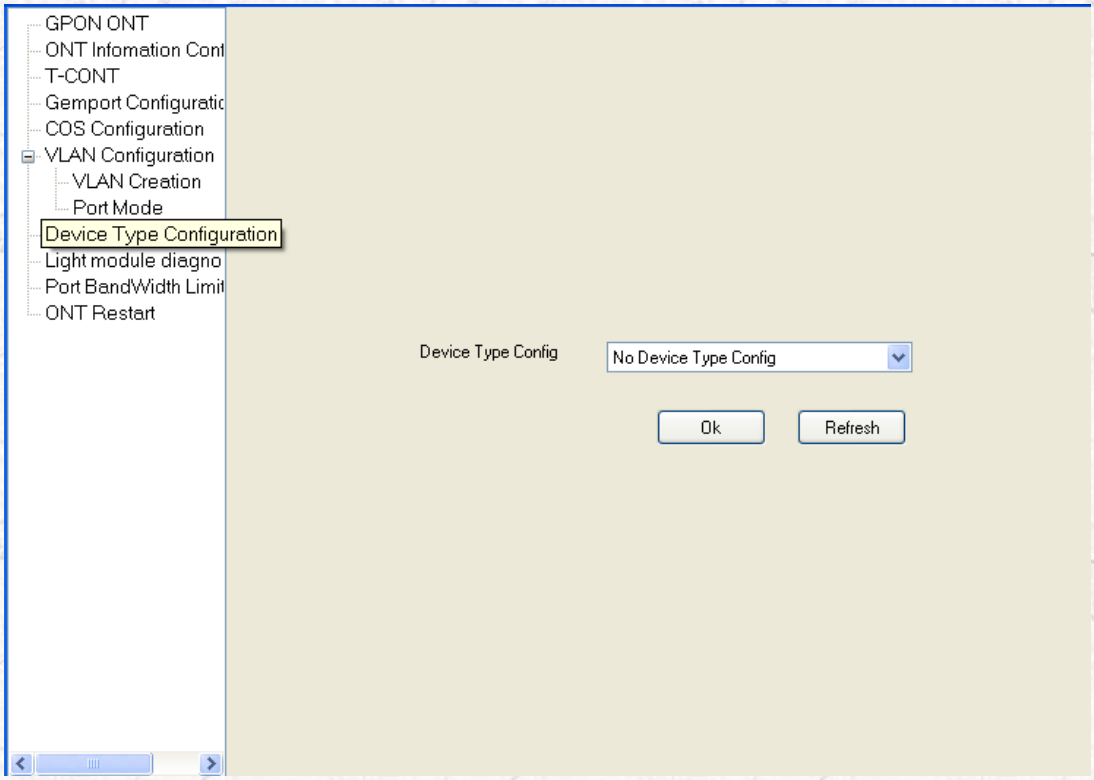


Figure43-14Device Type Configuration

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.

43.7Light module diagnosis value

Interface is shown below:

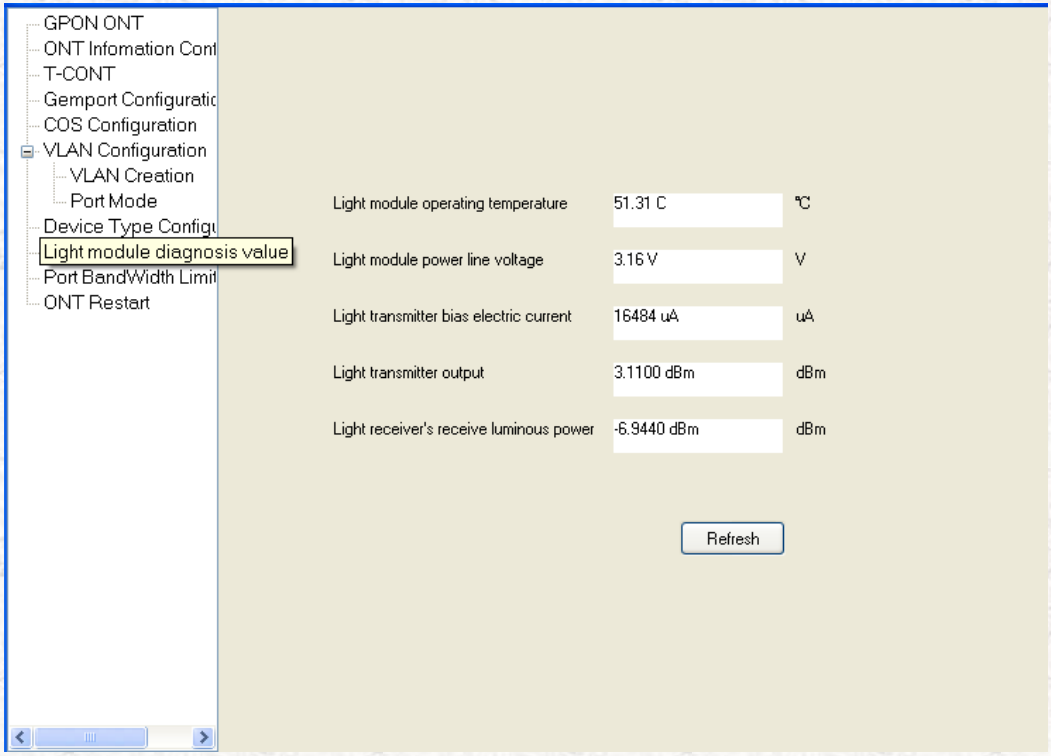


Figure43-15Light module diagnosis value Interface

It mainly show the **Light module operation temperature,Light module power line voltage,Light transmitter bias electnic 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.

43.8Port 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:

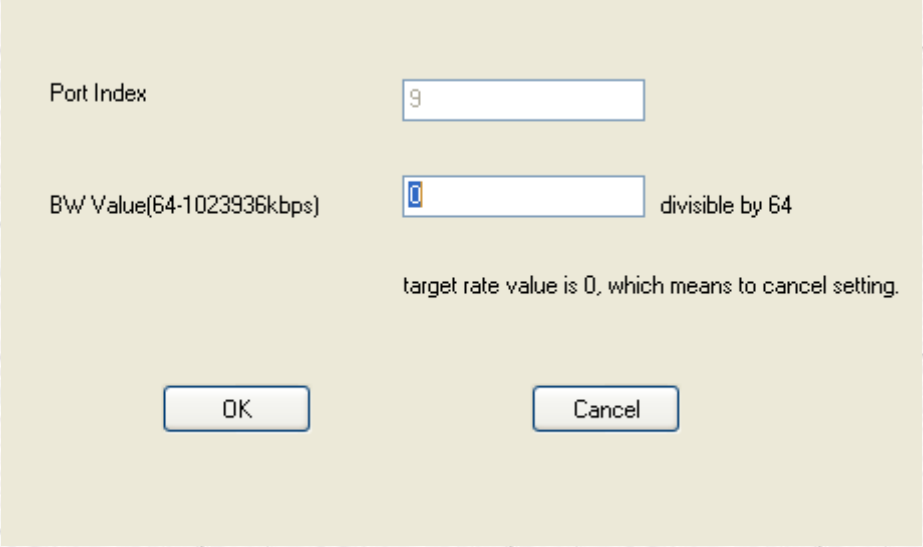


Figure43-17Bandwidth Limit Setting Form

After the speed limit of the input values, click on the '**OK**' button, the speed limit on the port.

43.9ONT Restart

Configuratio interface as shown:

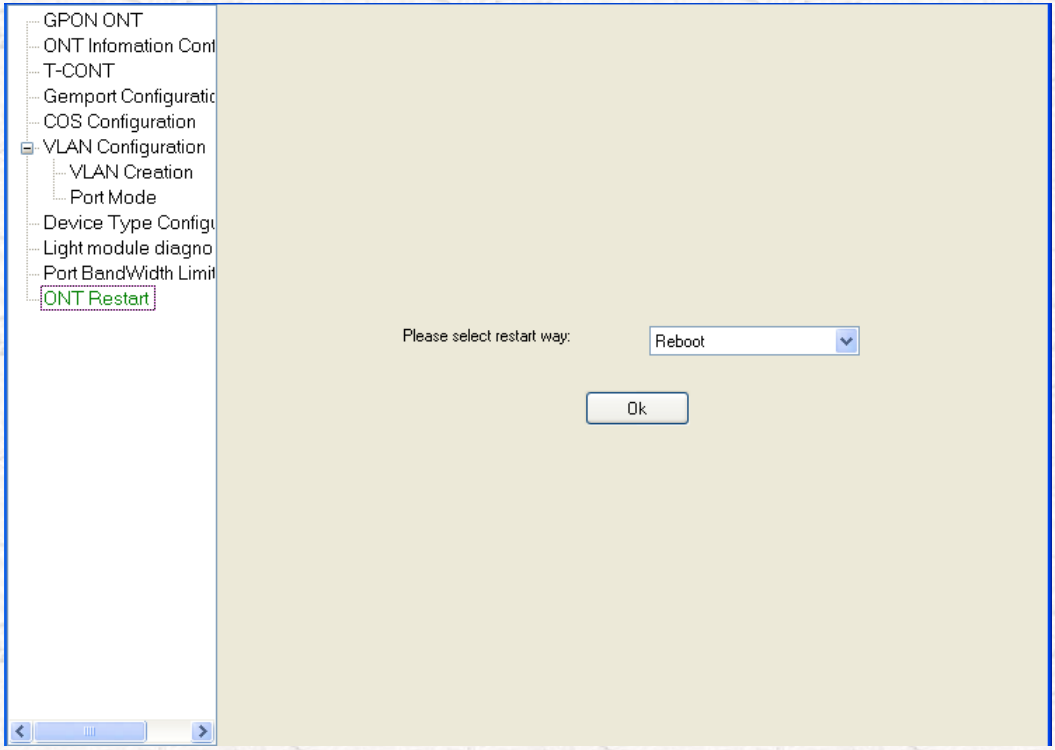


Figure43-18 ONT Restart Interface

Click the '**OK**' button, the system begins to configure the device, after the end of the configuration given configuration.

44 S2000 Configuration Management

44.1S2000 Main Interface Configuration

The main interface configuration as shown:

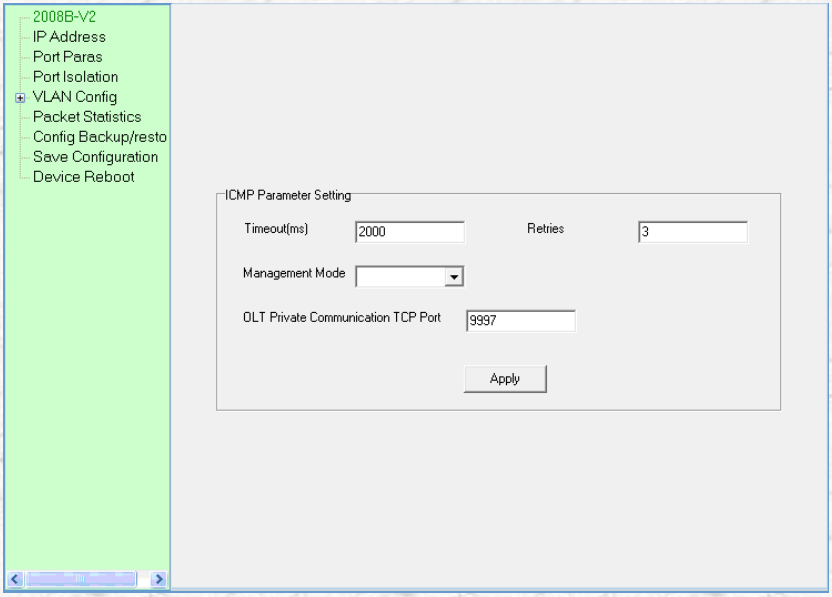


Figure44-1S2000B Main interface configuration

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:

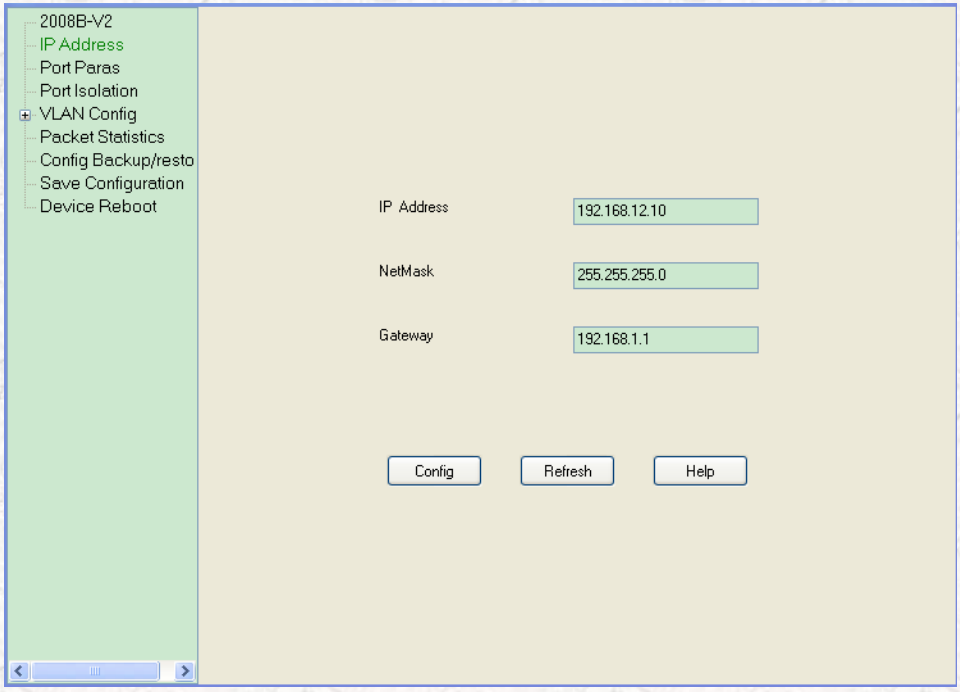


Figure44-2IP address interface configuration

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:

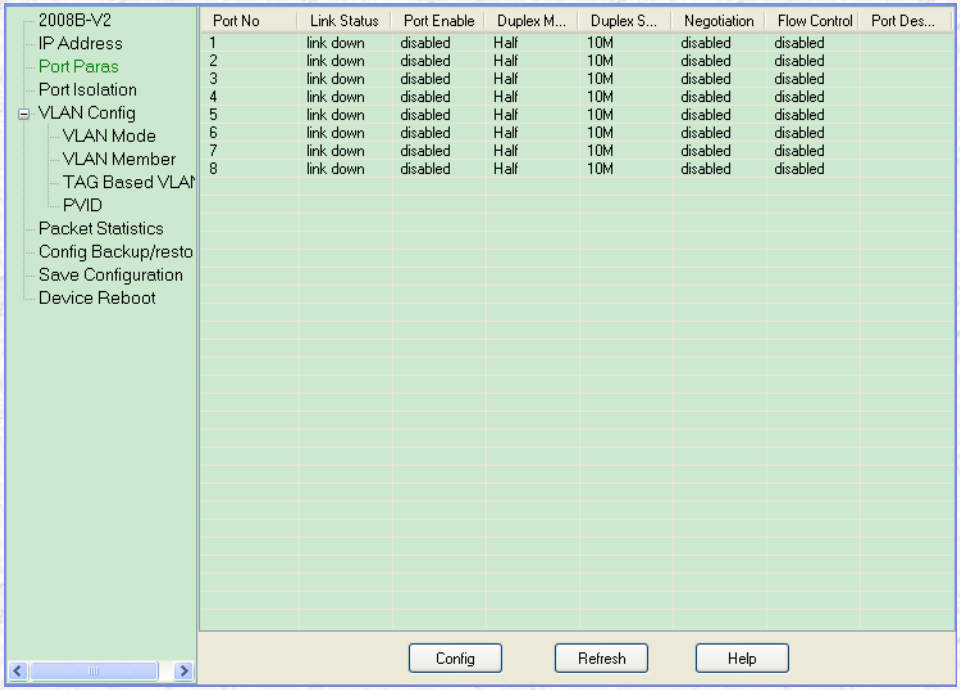


Figure44-3Port Paras interface

Select a line, click on the "**config**" button, the interface appears

as shown below:

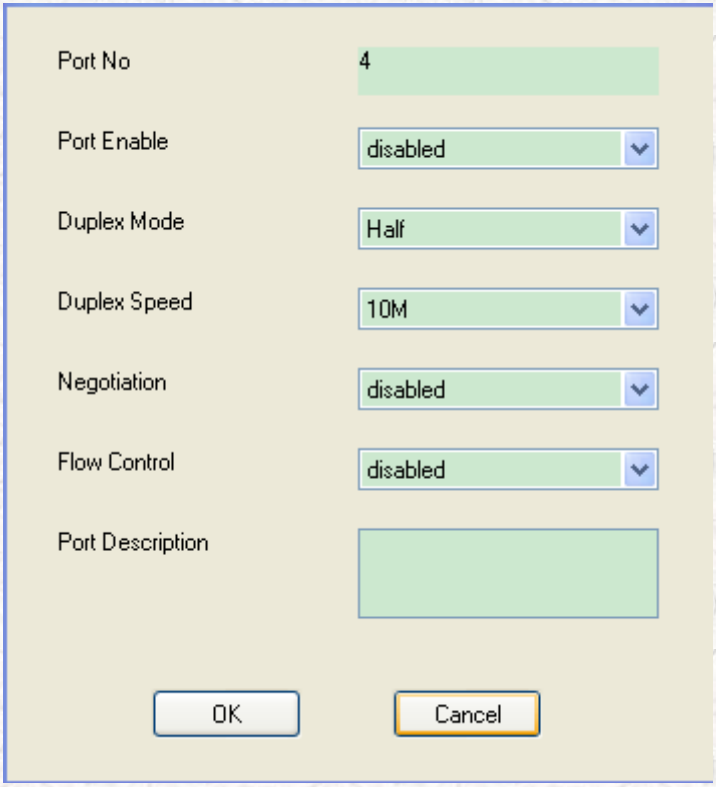


Figure44-4Configuration interface

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：

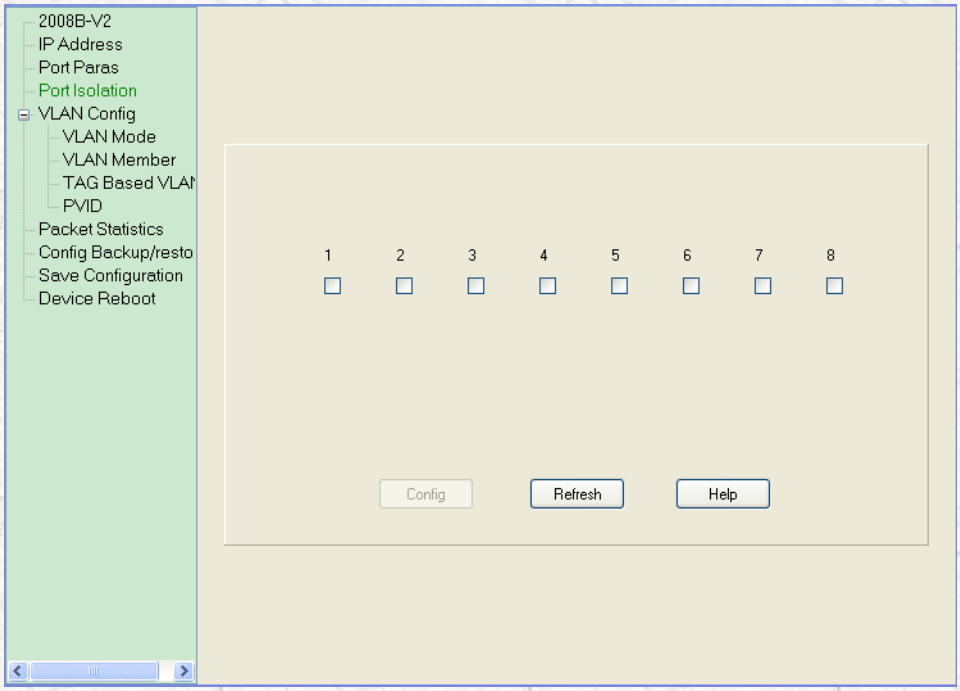


Figure44-5Port isolation configuration interfacre

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：

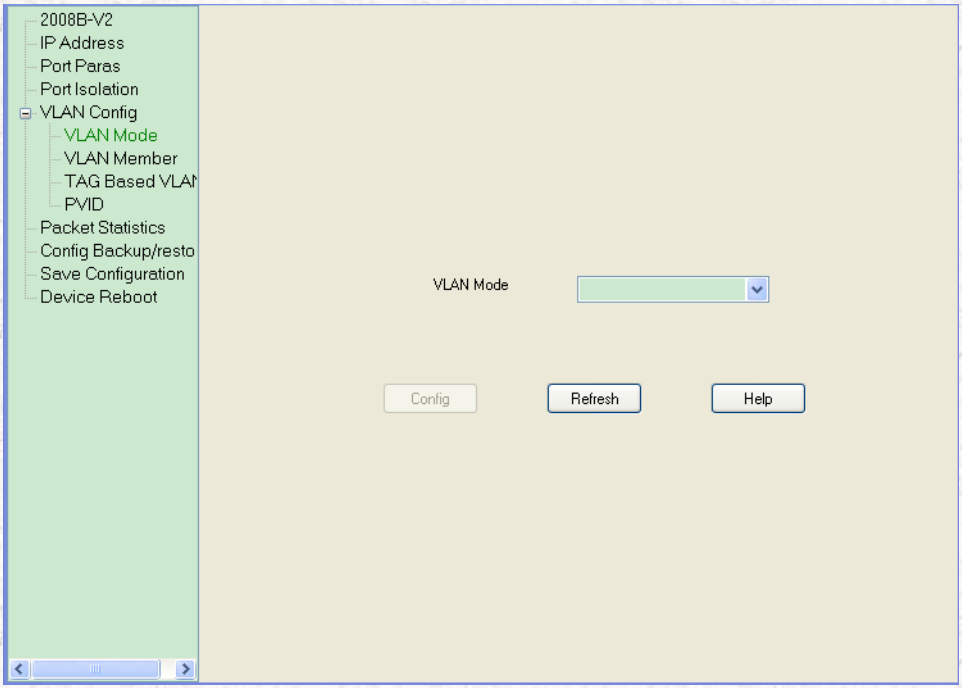


Figure44-6VLAN mode interface

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：

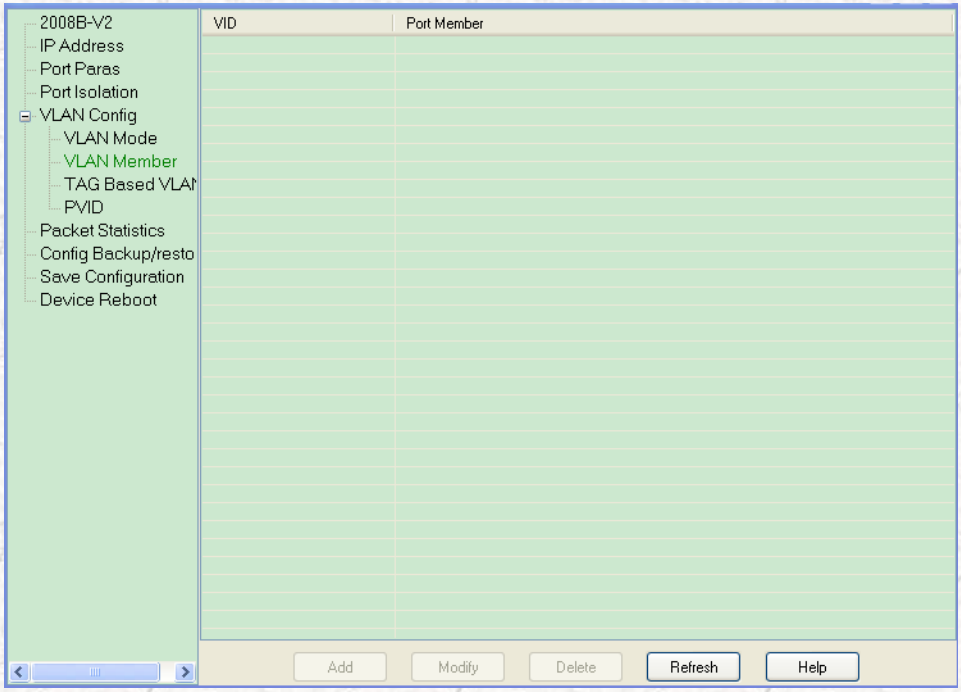


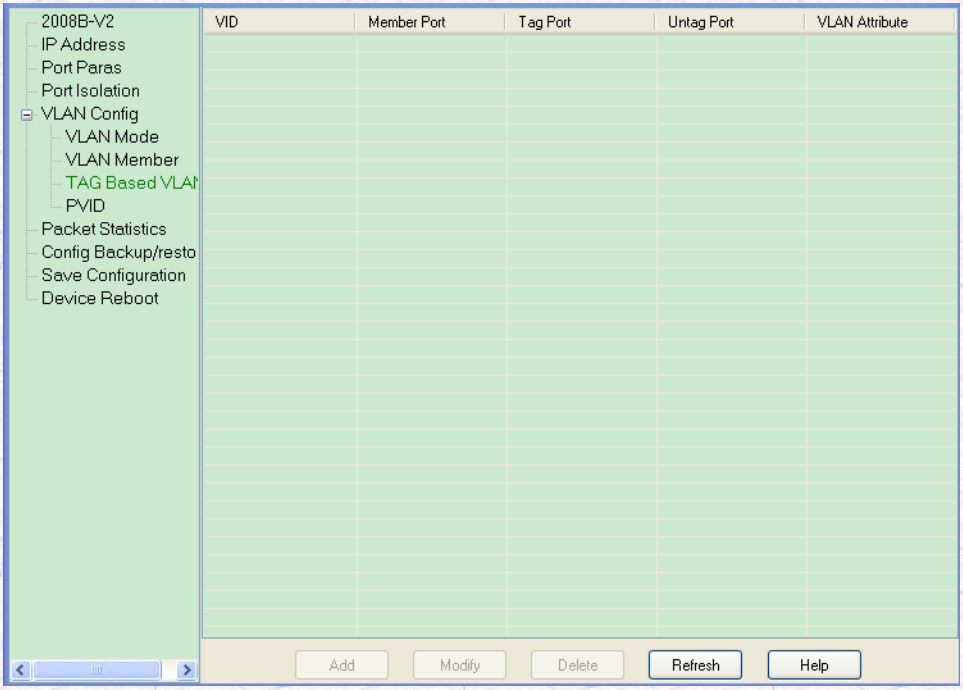
Figure44-7VLAN member configuration interface

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.

44.5.3 S2000 TAG Based VLAN



44.5.4 S2000 PVID

PVID configuration as shown：

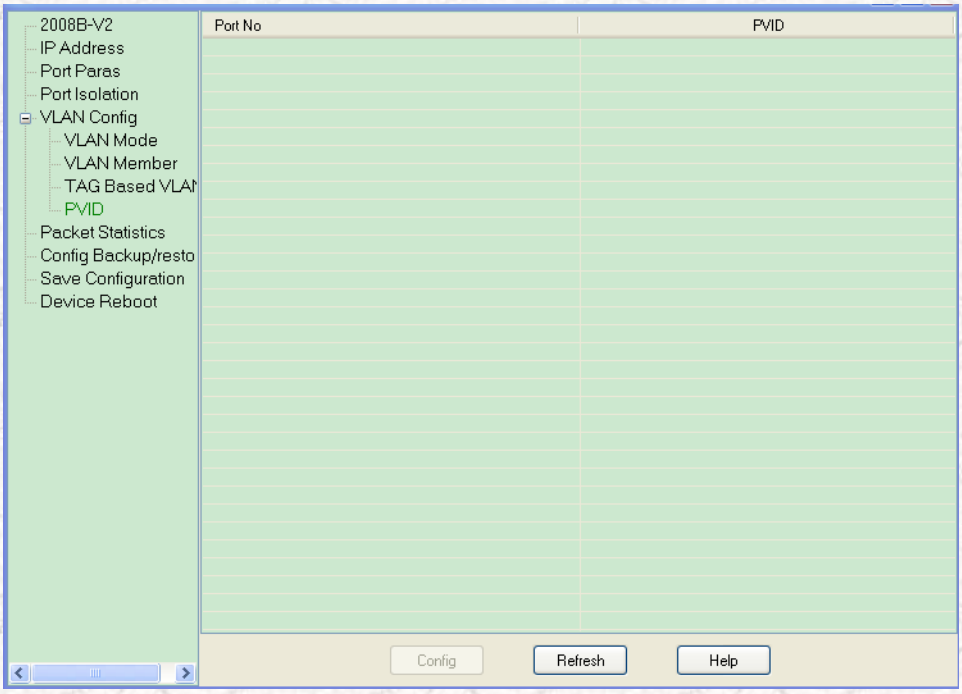


Figure44-8VLAN configuration interface

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:

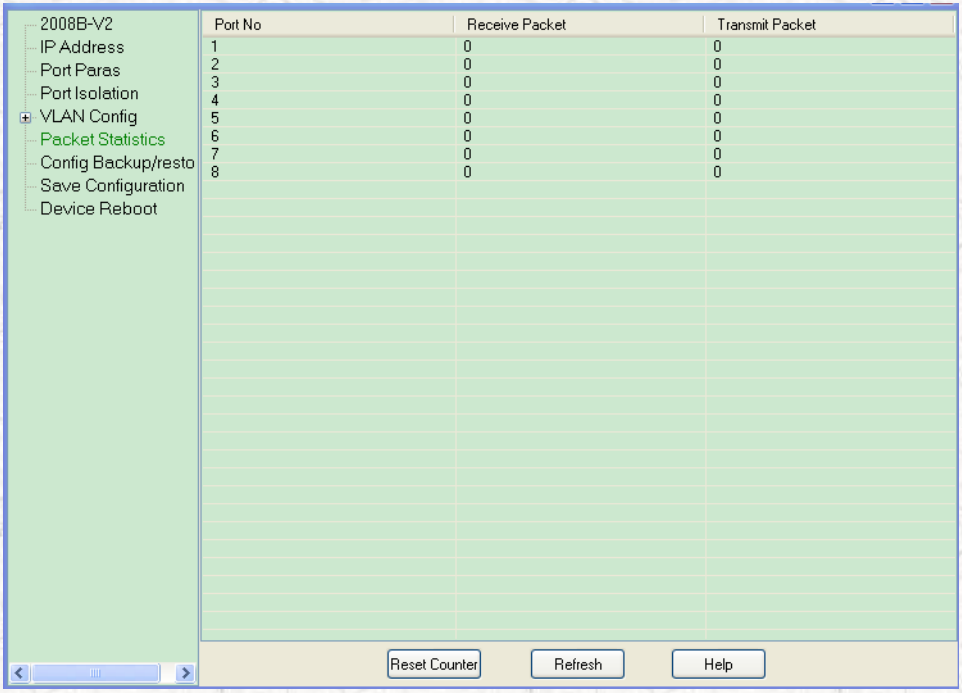


Figure44-9Packet statics configuration interface

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:

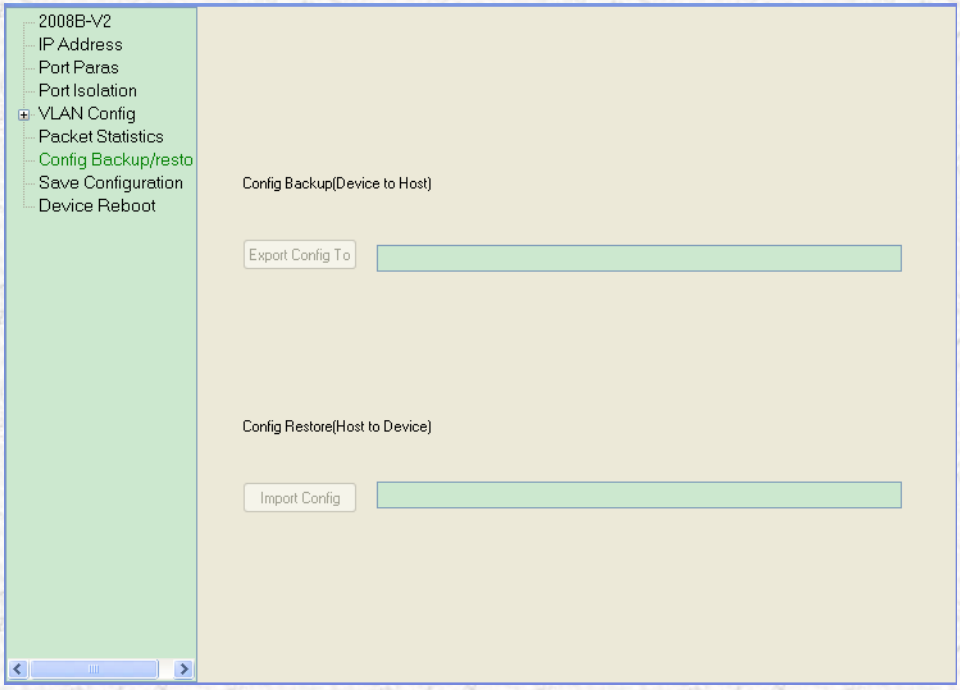


Figure44-10S2000B Configure backup / restore interface

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:

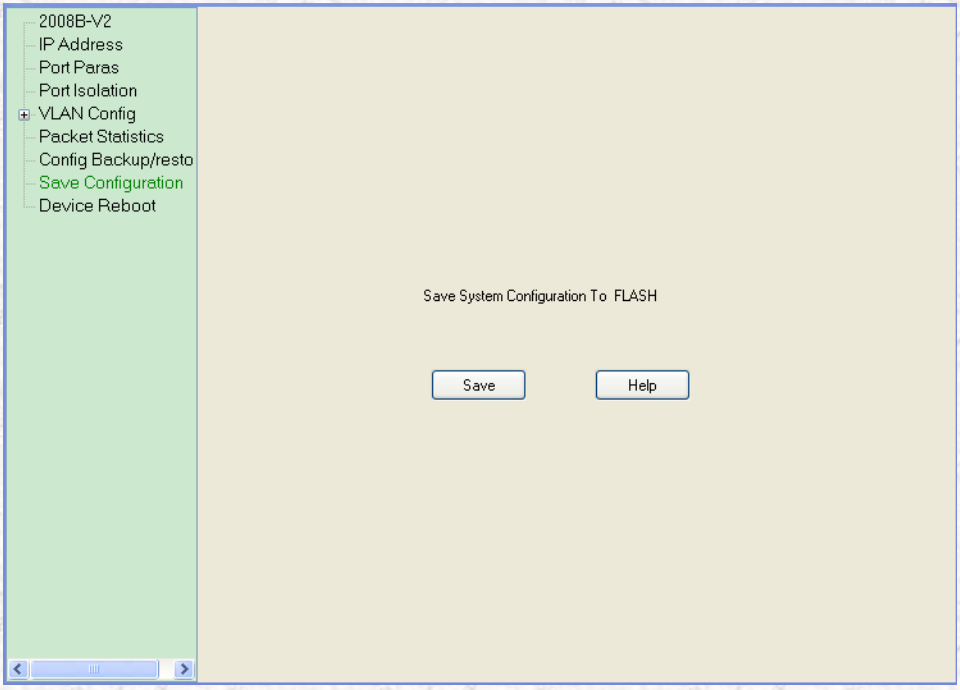


Figure44-11Save interface configuration

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:

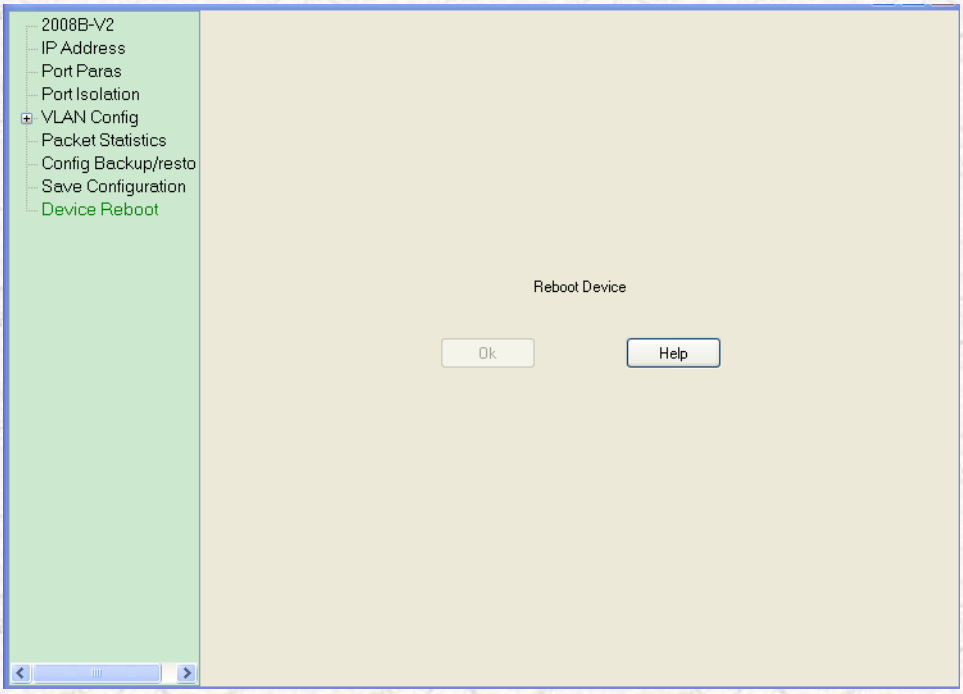


Figure44-12Restart interface configuration

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.