

**EPON OLT Products User Manual**

**(Without 10GE Uplink Port)**

**Old 4Port/8Port OLT**

**---Quick Configuration Guide**

**Version: V1.3**

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## **About This Manual**

This manual is applicable to our company old 4Port/8Port EPON OLT products quickly installation configuration guide, Is the user to quickly and easily manage EPON OLT equipment should read the information before guidelines.

### **The related documents for EPON OLT device are:**

《4Port/8Port EPON OLT User Manual-Device Installation Guide》

《4Port/8Port EPON OLT User Manual-CLI Operation Guide》

《4Port/8Port EPON OLT User Manual-EMS Software Part》

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# 1 Read Instruction

## Document Scope

| Reading Object   | Product  | Products Software Version |      |
|--|--|---------------------------|------|
| Our company Employees,<br>FTTX<br>Operation&Maintenance<br>Engineer,<br>Customer's Technical<br>Engineer | EPON OLT<br>(without 10GE uplink port old<br>4Port/8PortOLT) | V2.X.X                    |      |
| Compiling Department   | Technical Center Technical<br>Support Department             | Document<br>Version       | V1.3 |

## Revision History

| Date       | Version | Description   | Author                          |
|------------|---------|---|---------------------------------|
| 2016-02-28 | V1.1    | OLT version switch to V2.2.X, cli<br>command line have been<br>changed.,update config guide fully   | Technical Support<br>Department |
| 2017-05-04 | V1.2    | OLT version switch to V2.4.X, cli<br>command line have been<br>changed.,update config guide fully   | Technical Support<br>Department |
| 2019-03-29 | V1.3    | 1. Add how to access the OLT web<br>management<br>2. Add trunk, hybrid port mode<br>3. Add configure OLT QinQ service<br>4. Add OLT EMS and WEB<br>management type config guide | Technical Support<br>Department |

## Proper Noun

| Acronym | Full name                               | Instructions   |
|---------|---|--|
| EPON    | Ethernet Passive Optical Network        | Ethernet Passive Optical Network                           |
| OLT     | Optical Line Terminal                   | Optical Line Terminal                                      |
| ONU     | Optical Network Unit                    | Optical Network Unit                                       |
| OMCI    | ONU Management and Control<br>Interface | GPON OLT&ONU Management and<br>Control Interface(protocol) |
| OAM     | Operation Administration and            | EPON OLT&ONU Operation                                     |

|      |                              |   |
|------|------------------------------|---|
|      | Maintenance                  | Administration and Maintenance Protocol |
| DBA  | Dynamic Bandwidth Allocation | Dynamic Bandwidth Allocation            |
| VLAN | Virtual Local Area Network   | Virtual Local Area Network              |
| VoIP | Voice over IP                | Voice over IP                           |
| WLAN | Wireless Local Area Networks | Wireless Local Area Networks            |
| FTTH | Fiber To The Home            | Fiber To The Home                       |
| FTTB | Fiber To The Building        | Fiber To The Building                   |

## Note

- The command line described in the document is case sensitive in OLT.
- If we meet a command that cannot be inputed or is prompted for error, we can input “?” to see the latter command format.
- Input incomplete commands can be completed by pressing the “Tab” key.

## 2 OLT Login Manage

### 2.1 OLT Login Manage Explanation

Old 4port、8port EPON OLT support CLI,EMS and WEB management;CLI manage type divided into telnet remote manage and console local manage, please check #2.2 and #2.3 chapter to see concrete operations;please check EMS user manual to see EMS manage way;please check #4 to see WEB manage way.

### 2.2 OLT Login By Console

First, find console port on OLT front surface (which is a RJ45 port have been mark “CONSOLE”). if want to login OLT by Console port, we need do prepare as follows:

- Need RJ-45-to-DB-9 serial line
- Connect PC to OLT console port, find COM number in “computer management”
- Software for logging OLT by console port(Putty, SecureCRT)
- parameter for console login software

Baud Rate: 9600

Parity Check: None

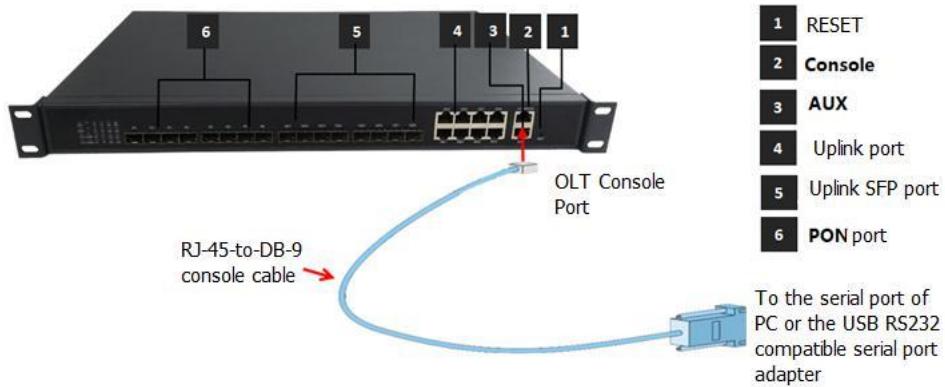
Data bit: 8

Stop bit: 1

Flow Control:None

Login OLT by console login software,then input **username:admin,password:admin**

### 【OLT Console Connection Diagram】



### 【OLT Console Connection Device】



RJ-45 to DB-9 Console Cable



USB to RS-232 compatible serial port adapter

| Port on Computer | Required Cable   | Port on OLT        |
|------------------|--|--------------------|
| Serial Port      | RJ-45 to DB-9 Console Cable  |                    |
| USB Type-A Port  | <ul style="list-style-type: none"><li>USB to RS-232 compatible serial port adapter ( Adapter may require a software driver )</li><li>RJ-45 to DB-9 Console Cable</li></ul> | RJ-45 Console Port |

## 2.3 OLT Login By Telnet

There are two way to telnet,one is outband management,another is inband management.:.

### #1: Outband management(connect OLT MGMT port)

Set PC ip as 192.168.1.X(except 192.168.1.100),PC connect to OLT MGMT port, login the OLT with OLT default manage IP (default IP : 192.168.1.100). then input username and password,default login username and password is:**admin/admin**  
Use command as follow can modify the outband management IP:

```
epon# system ipconfig outband 192.168.5.88 255.255.255.0
```

#### **#2: Inband management(connect OLT ge port)**

First we login olt via console port or mgmt port, and configure a management-vlan,add the ge port to the vlan(ge port vlan mode can be access or trunk,which depends on your network environment), then configure the inband-ip, pc connect to OLT ge port(ge1-ge8) and telnet to the OLT.

**(Example)The way to set inband mangement ip as follows:**

```
epon# vlan 50
epon# system ipconfig mgmt-vlan 50
epon# swport ge7
epon(GE-7)# vlan add 50
epon(GE-7)# pvid 50
epon(GE-7)# exit
epon# system ipconfig inband 192.168.6.100 255.255.255.0
```

## **3 OLT Upgrade Method**

### **Attention Before Upgrade:**

The new version(OLT V2.3.X) is different from the olt version( before OLT V2.3.X). There are two management IP in the new version, such as in-band management IP and out-of-band management IP. But There is only one management IP in the old version.

So we adjust something about the in-band and out-of-band management IP. As follows:

#### **1. Before the OLT is default ip address 192.168.1.100,after upgrade to V2.3.1 version:**

OLT uplink port manage ip address is:192.168.8.100

OLT AUX/MGMT port manage ip address is:192.168.1.100

#### **2. Before the OLT manage ip address have been change to 192.168.1.X not is 192.168.1.100 ,after upgrade to V2.3.1 version:**

OLT uplink port manage ip address is:192.168.1.X

OLT AUX/MGMT port manage ip address is:192.168.2.100

#### **3. Before the OLT manage ip address have been change to other not is 192.168.1.X ,after upgrade to V2.3.1 version:**

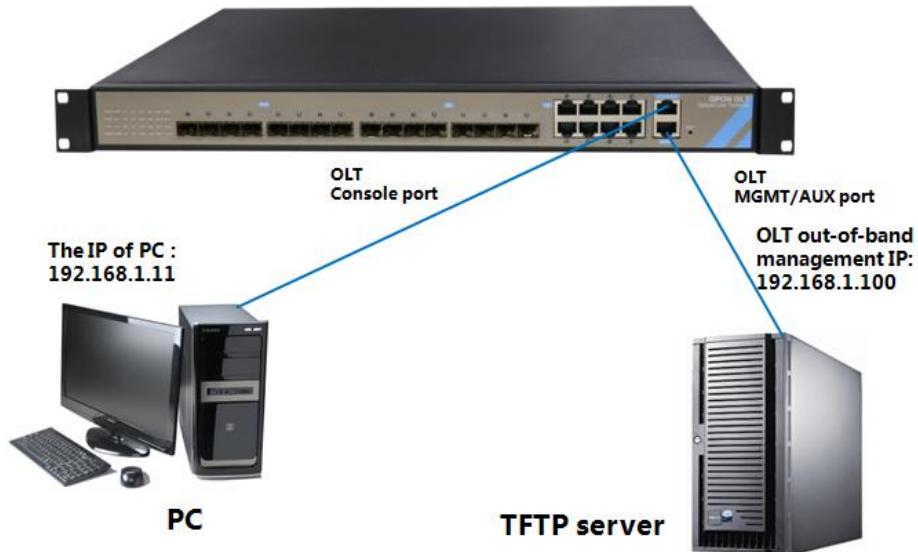
OLT uplink port manage ip address is:It is before you are changed ip address.

OLT AUX/MGMT port manage ip address is:192.168.1.100

## Upgrade Process Guidance:

### 1. Set up OLT update topology:

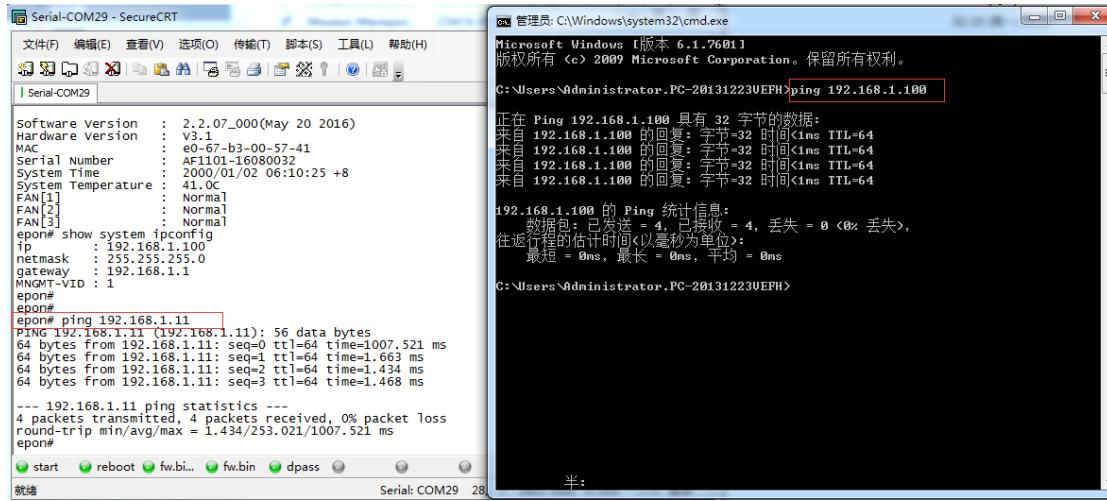
Use a PC as FTP server(run wftpd32.exe or Wftpd.exe in this pc),and connect to OLT mgmt port or ge port to transmit firmware.



 **Note:** This tutorial will take the PC as a server, and the IP of PC is 192.168.1.11, management IP of the OLT is 192.168.1.100.

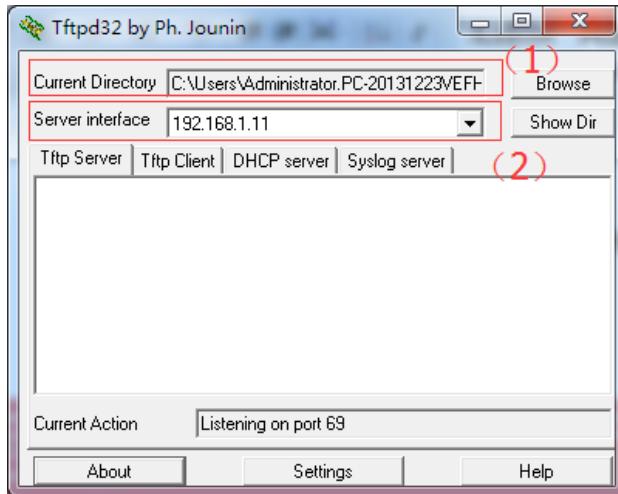
### 2. Test network connectivity

- a. Connect PC to OLT console port, used for updating OLT in boot mode.
- b. Connect pc to OLT MGMT port or ge port, configure PC ip and OLT ip (inband ip or outband ip) are in same segment.
- c. PC can ping OLT management IP, if pc can ping OLT management ip, means OLT can connect to FTP server.
- d. **Close PC firewall, prevent firewall intercept FTP software.**



### 3. TFTP server configuration

- (1)Open the TFTP software;
- (2)Specifies the path to the firmware to be upgraded;
- (3)Specifies the IP address of the server (ie PC);



### 4. OLT update command

OLT the common upgrade method please see below:

#### a. Input command as follows to update OLT

```
epon# system update firmware 8port_V2.4.05_180517_X000.img tftp-server 192.168.1.11
```

Transferring the Image file, please wait...

Upgrading begins, please wait and notice the rate of progress

Any operation such as reboot or switchover will cause failure and unpredictable result

The upgrading starts

The percentage of erasing flash is: 01%

The percentage of erasing flash is: 40%

The percentage of erasing flash is: 100%

The percentage of writing flash is: 01%

The percentage of writing flash is: 38%

The percentage of writing flash is: 100%

The upgrade is successful, you must reboot system to make file take effect

**b. After update OLT,we need reboot OLT(Note:only reboot OLT,OLT can use new version)**

**epon# system reboot**

Reboot the system now<y/n>?y

## 4 OLT WEB Access Management Installation Method

1.First, update the WEB firmware via the #3 OLT upgrade way,(firmware name include Web word ,such as 8port\_WEB\_V1.2.0\_X000\_180517\_1326.img)

**epon# system update web-server 8port\_WEB\_V1.2.0\_X000\_180517\_1326.img tftp-server 192.168.1.11**

Transferring the Web Server file, please wait...

Upgrading Web Server ...

Restarting Web Server ...

OK!

2.PC connect to OLT mgmt port or inband management port,make sure PC can ping OLT inband management ip or outband management ip

3.Before accessing OLT's web management from a PC, you need to enable OLT's SNMP and web access functionality by the OLT command line.The configuration command is as follows:

**epon# system web enable**

**epon# system web default-port**

**epon# system snmp community read-only public**

**epon# system snmp community read-write private**

4.After the OLT WEB firmware upgrade,can use below method check the OLT if have the web firmware version informaton,if see the information on the OLT,this mean the OLT have the web firmware version:

```

epon# show system infor

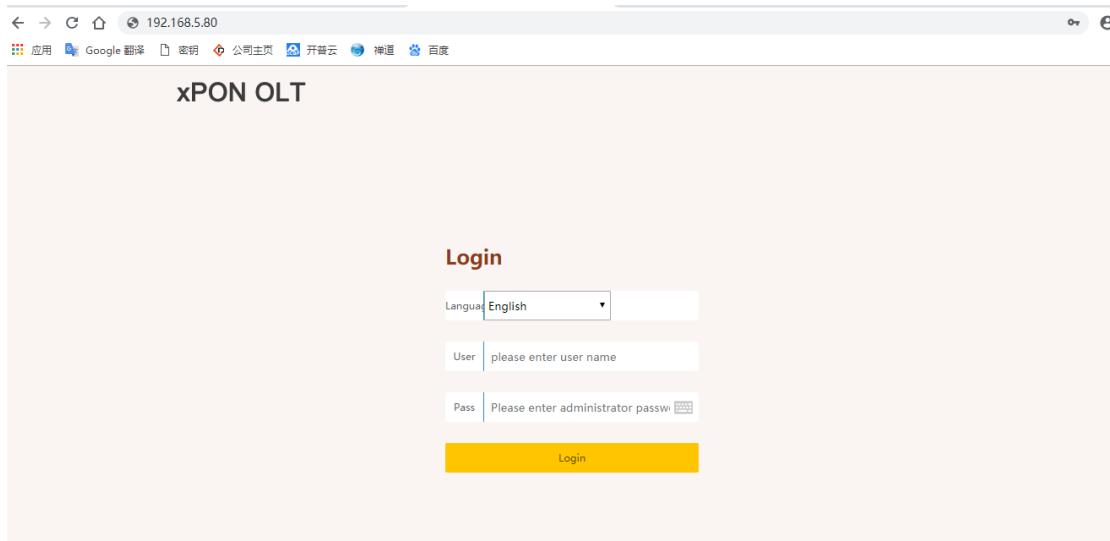
-----
System Description : 123
Software Version   : 2.4.05_000(May 17 2018)
Hardware Version  : 3.00
MAC                : e0-67-b3-00-57-41
Serial Number     : AF1101-16080032
System Time       : 2019/03/21 14:41:12 +08:00
Location          : shenzhen
Contact           : 109

Web Server
  Version        : V1.2.0
  BuildTime      : 18-05-17 13:26:25
  Administrator   : admin
  Password        : admin

-----
System Temperature : 48.5C
FAN[1]             : Normal
FAN[2]             : Normal
FAN[3]             : Normal
-----
```

epon#

5. Open PC browser input OLT management ip(recommend using Firefox web browser), then we can see web login interface, web login username and password is:**admin/admin**



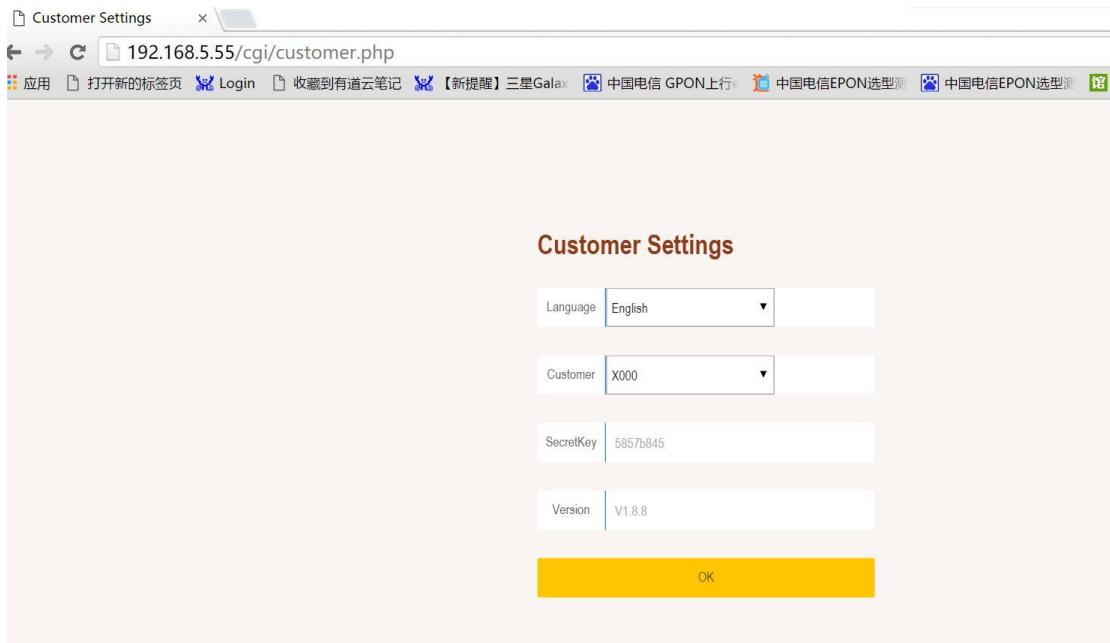
6. Customized web management information configure. PC access to OLT web via <http://X.X.X.X/cgi/customer.php>. And enter parameter. Click "OK". Restart the OLT web in browser then can view the customized informations.

**Language:** Support Chinese and English. The default is Chinese.

**Customer:** Customer ID. Provided by our company. The default is neutral.

**SecretKey :** Customer ID secretkey. Provided by our company. The default is neutral.

**Version :** Customized web management system version.



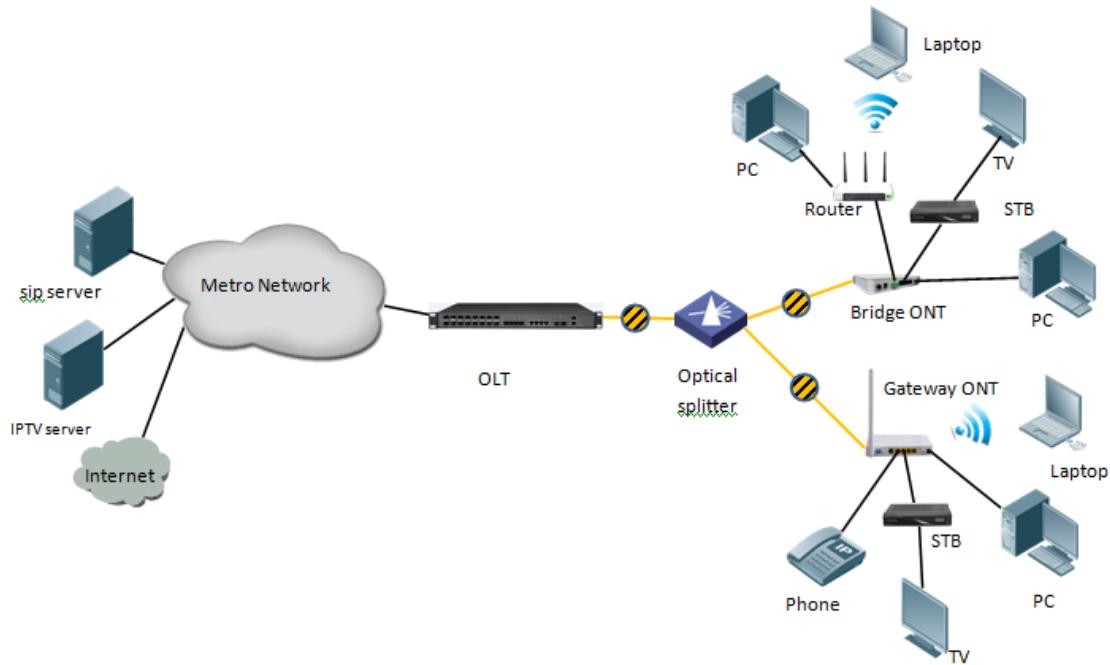
## 7. Other instructions

- a. Web management system's username and password is independent, default is admin/admin. This username and password can modify in web interface and would not affect other access mode.
- b. Web management system need to work in V2.4.02 OLT basic firmware. In old OLT basic version can't not support the web function. So if you need to use web function. Please upgrade OLT basic firmware to V2.4.02 or newer at first.

## 5 OLT Service Configuration ---CLI Command Method

This section mainly introduce 4Port/8Port OLT internet service, voice service and multicast service in FTTH environment. Mainly introduce the bridge ONU(SFU) and Home Gateway ONU (HGU), The following will introduce the service configuration way for OLT and ONU according to two types ONU.

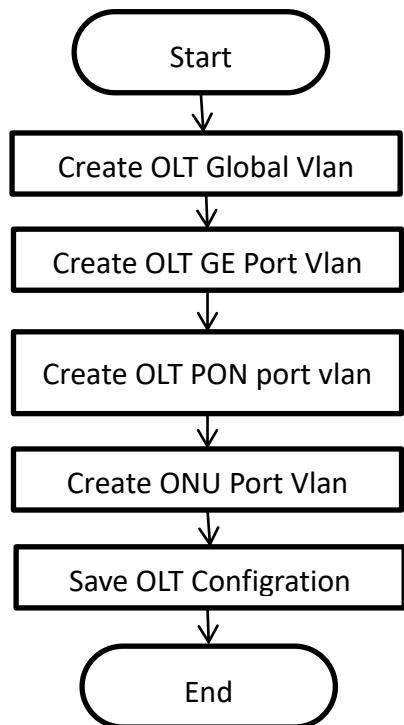
### 5.1 FTTH Service Topology



## 5.2 Data Plan

| Main Data Plan List            |  |
|--------------------------------|--|
| Configuration Item             | Data   |
| <b>VLAN Data</b>               | <b>VLAN 100:</b> Internet Service<br><b>VLAN 200:</b> IPTV Service<br><b>VLAN 300:</b> VOIP Service  |
| <b>OLT Port Setting</b>        | <b>Ge1:</b> VLAN 100 access mode<br><b>Ge2:</b> VLAN 200 access mode<br><b>Ge3:</b> VLAN 300 access mode<br><b>PON1:</b> VLAN 100, VLAN 200, VLAN 300 trunk mode |
| <b>ONU Register ID</b>         | <b>Bridge ONU ID:</b> 1<br><b>Gateway ONU ID:</b> 2  |
| <b>Bridge ONU Port config</b>  | <b>LAN 1:</b> VLAN 100<br><b>LAN 2:</b> VLAN 200<br><b>LAN3:</b> VLAN 300 ---connect to VOIP phone   |
| <b>Gateway ONU Port config</b> | <b>Internet WAN:</b> VLAN 100<br><b>IGMP WAN:</b> VLAN 200<br><b>VOICE WAN:</b> VLAN 300   |

## 5.3 Configuration Guide



## 5.4 Configure OLT Service

### 5.4.1 Enable switch based on vlan

```
epon#swmode vlan enable //If on the OLT need support the vlan,this function is must enable
```

### 5.4.2 Configure OLT Global Vlan

We can use **epon# show vlan all** to show the created vlan.

If the created vlan can't meet the need,we can according below method created new vlan on the OLT,According to the data plan, we create vlan100,vlan200,vlan300 firstly:

### 5.4.3 Configure OLT GE Port Service Vlan

We can config GE port vlan mode as access,hybrid and trunk,we can configure different mode according to our network plan, configure way of three mode as follows.

**Configure GE 1,2,3 port vlan mode is access(in this document,GE port connect to PC,so we configure ge port vlan mode as access):**



**Note:**

If the port has only one vlan untag mode and the same as the pvid, then the port is access mode. As follows:

```
epon# swport ge1 // Enter ge1 configuration view
epon(GE-1)# pvid 100 //Config PVID 100, give to ingress untag packet used
epon(GE-1)# vlan add 100 //Config vlan 100 untag,give to egress packet strip tag 100
```

```

epon(GE-1)# exit
epon# swport ge2          // Enter ge2 configuration view
epon(GE-2)# pvid 200       // Config PVID 200, give to ingress untag packet used
epon(GE-2)# vlan add 200    // Config vlan 200 untag,give to egress packet strip vlan tag 100
epon(GE-2)# exit
epon# swport ge3          // Enter ge3 configuration view
epon(GE-3)# pvid 300       // Config PVID 300, give to ingress untag packet used
epon(GE-3)# vlan add 300    // Config vlan 300 untag,give to egress packet strip vlan tag 100
epon(GE-3)# exit

```

**Configure GE 1,2,3 port vlan mode is trunk, default pvid is 1.(If the port is configured with multiple vlan and tag mode, the port is in trunk mode):**



**Note:**

If the port is configured with multiple vlan and tag mode, the port is in trunk mode. As follows:

```

epon# swport ge1          // Enter ge1 configuration view
epon(GE-1)# vlan add 100 tag //Take the port add to vlan 100,vlan 100 is tag mode
epon(GE-1)# exit
epon# swport ge2          // Enter ge1 configuration view
epon(GE-2)# vlan add 200 tag // Take the port add to vlan 200,vlan 200 is tag mode
epon(GE-2)# exit
epon# swport ge3          // Enter ge3 configuration view
epon(GE-3)# vlan add 300 tag // Take the port add to vlan 300,vlan 300 is tag mode
epon(GE-3)# exit

```

**Configure GE 1,2,3 port vlan mode is hybrid( If the port is configured with multiple vlan and some of which are tagged and the others are untag mode, the port is in hybrid mode):**



**Note:**

If the port is configured with multiple vlan and some of which are tagged and the others are untag mode, the port is in hybrid mode. As follows:

```

epon# swport ge1          // Enter ge1 configuration view
epon(GE-1)# pvid 100       //Config PVID 100, give to ingress untag packet used
epon(GE-1)# vlan add 100    //Config vlan 100 untag,give to egress packet strip vlan tag 100
epon(GE-1)# vlan add 110    //Config vlan 110 untag,give to egress packet strip vlan tag 110
epon(GE-1)# vlan add 120 tag // Take the port add to vlan 120,vlan 120 is tag mode
epon# swport ge2
epon(GE-2)# pvid 200
epon(GE-2)# vlan add 200
epon(GE-2)# vlan add 210
epon(GE-2)# vlan add 220 tag

```

```

epon# swport ge3
epon(GE-3)# pvid 300
epon(GE-3)# vlan add 300
epon(GE-3)# vlan add 310
epon(GE-3)# vlan add 320 tag

```



**NOTE:**

The OLT vlan every mode handle process as follows:

| Vlan mode   | Direction | Message have vlan tag or not | Handling method   |
|-------------|-----------|------------------------------|---|
| Access mode | In        | vlan tag                     | Discard   |
|             |           | untag                        | Add port configured vlan in access mode for message (main parameter is VID),and forward   |
|             | Out       | vlan tag                     | Forward message to the corresponding port according to VID and remove vlan tag;If the VLAN ID of the Tagged message is not same to the port VID, it is discard.   |
|             |           | untag                        | Discard   |
| Trunk mode  | In        | vlan tag                     | If the VLAN in the message is permit to pass port, it will be forwarded directly; If the VLAN in the message doesn't permit to pass port, it is discarded.  |
|             |           | untag                        | Add default vlan(native-vlan) for untagged message and forward.   |
|             | Out       | vlan tag                     | If the VLAN in the message is permit to pass port, it will be forwarded directly; If the VLAN ID of the message is the default (native-VLAN)VLAN, then the VLAN tag is discard and forward;If the VLAN in the message doesn't permit to pass port, it is discarded. |
|             |           | untag                        | Discard   |
| Hybrid mode | In        | vlan tag                     | If the VLAN in the message is permit to pass port, it will be forwarded directly; If the VLAN in the message doesn't permit to pass port, it is discarded.  |
|             |           | untag                        | Add default vlan(native-vlan) for untagged message and forward.   |

|  |     |          |   |
|--|-----|----------|---|
|  | Out | vlan tag | If the VLAN in the message is permit to pass port, according vlan tag or vlan untag of message to discard or no discard vlan tag, then forward message, If the VLAN ID of the message is the default (native-VLAN) VLAN, then the VLAN tag is discard and forward; If the VLAN in the message doesn't permit to pass port, it is discarded. |
|  |     | untag    | Discard   |

#### 5.4.4 Configure OLT PON Port Service Vlan

We can config PON port vlan mode as access, hybrid and trunk, according to our network plan configure different mode, if message from ONU is untag, we can config PON port vlan mode is access or hybrid untag mode; if message from ONU is tag, we can config PON port vlan mode is trunk or hybrid tag mode; config way as follows.

**Config PON1 port vlan mode is access:**

```
epon# swport ge9
epon(GE-9)# pvid 100
epon(GE-9)# vlan add 100
epon(GE-9)# exit
```

**Config PON1 port vlan mode is trunk: (PON port is trunk mode in this document) :**

```
epon# swport ge9
epon(GE-9)# vlan add 100,200,300 tag
epon(GE-9)# exit
```

**Config PON1 port vlan mode is hybrid:**

```
epon# swport ge9
epon(GE-9)# pvid 200
epon(GE-9)# vlan add 100 tag
epon(GE-9)# vlan add 200
epon(GE-9)# exit
```



**Note:**

In the 4 port OLT CLI , PON port 1 is GE5, and so on (PON1-PON4 is GE5-GE8) ;

In the 8 port OLT CLI , PON port 1 is GE9, and so on (PON1-PON8 is GE9-GE16) ;

#### 5.4.5 Configure OLT Multicast Service

According the data play the OLT multicast vlan is use vlan 200, the uplink port is ge2, config IGMP and multicast-vlan 200:

```
epon# igmp mode proxy // IGMP is proxy mode
```

```

epon# multicast-vlan 200          //Create and enter multicast vlan200 view
epon(multicast-vlan-200)# igmp router-port ge2    // Configure the multicast routing port as ge2
OLT(config-multicast-vlan-200)# igmp match group ip 224.1.1.1 to-ip 224.5.5.5
                                // Configure multicast vlan200 to match the multicast address segment 224.1.1.1-224.5.5.5
OLT(config-multicast-vlan-200)# exit          //Exit the multicast vlan 200 view
epon#btv           //Enter the btv view
epon(btv)# igmp user add user-index 1 pon 1 ont 1 vlan 200
                                // Add btv user binding specified ONU and vlan
epon(btv)#exit          //Exit the btv view
epon# multicast-vlan 200
epon(multicast-vlan-200)# igmp member user-index 1
                                // Add multicast users to multicast vlan200
OLT(config-multicast-vlan-200)# exit

```

## 5.5 Check ONU Register Status.

ONU is automatically registered by default on the OLT,use below command can check the ONU if registered and online success on the OLT :

```

epon# show olt 1 online-onu

-----
Port  ONU   MAC                Type      CTC  Dist(m) Software-Ver
-----
1     12    00-01-62-45-99-0b  ONU4GE1P1TV 3.0  6        V1.1.3
1     13    e0-fa-07-f5-03-fd  ONU1GERW    3.0  24       V2.1.4
-----
Total: 2 online.

```

## 5.6 Configure Bridge ONU(SFU) Service

SFU type ONU need enter OLT to config ONU one by one,config way as follows:

### 5.6.1 Configure Bridge Onu(SFU) Internet Service

**Premise condition of ONU to open internet service:**

- OLT connect to uplink device and open internet service
- OLT have created vlan for internet service
- OLT have configured GE port vlan
- OLT have configured PON port vlan
- ONU have registered

SFU ethernet port vlan mode have transparent,tag(access),trunk mode and so on,we can according to our network plan configure different mode.All onu vlan is configured by OLT,configure way as

follows:

**Configure ONU1 eth1 vlan mode is tag(access) (ONU eth port vlan mode is tag in this document):**

```
epon# olt 1                                //Enter the PON port
epon(olt-1)# onu 1                            //Enter the ONU
epon(olt-1/onu-1)# uni 1                   //Enter the uni of ONU
epon(olt-1/onu-1/uni-1)# ctc vlan-mode tag 0x8100 0 100    //Config ONU port vlan
epon(olt-1/onu-1/uni-1)#exit
```

**Configure ONU1 eth1 vlan mode is transparent:**

```
epon# olt 1
epon(olt-1)# onu 1
epon(olt-1/onu-1)# uni 1
epon(olt-1/onu-1/uni-1)# ctc vlan-mode ctc vlan-mode transparent
epon(olt-1/onu-1/uni-1)#exit
```

**Config ONU1 eth1 vlan mode is trunk:**

```
epon# olt 1
epon(olt-1)# onu 1
epon(olt-1/onu-1)# uni 1
epon(olt-1/onu-1/uni-1)# ctc vlan-mode trunk 0x8100 0 100 vlan-list 200,300
epon(olt-1/onu-1/uni-1)#exit
```



**Note:**

The port vlan mode of ONU is as follows:

## 【Transparent Mode】

| Direction  | Type        | Processing method   |
|------------|-------------|---|
| Upstream   | Untag frame | Untag frame does not make any change, forwarding  |
|            | Tag frame   | Tag frame does not make any changes (original VLAN TAG), forwarding   |
| Downstream | Untag frame | Untag frame does not make any change, forwarding.   |
|            | Tag frame   | Tag frame does not make any changes (original VLAN TAG), forwarding.  |
|            | Tag frame   | Tag frame VLAN ID belongs to the port "allowed by VLAN", forwarding; Tag frame VLAN ID belongs to the port "allowed by VLAN", forwarding; If the Tag frame VLAN does not belong to the port of the "permitted by VLAN," is discarded. |

**Command is as follow:**

```
epon(olt-1/onu-4/uni-1)# ctc vlan-mode transparent
```

## 【Tag Mode (access Mode)】

| Direction  | Type        | Processing method   |
|------------|-------------|---|
| Upstream   | Untag frame | Switch frames on port's default VLAN(VPID),forwarding.  |
|            | Tag frame   | Discard the frame   |
| Downstream | Untag frame | Discard the frame   |
|            | Tag frame   | If the Downstream Tag frame VLAN ID equal to the configuration of the VID, According to VID forwarded to the appropriate UNI port, and stripping the tag; If the downstream Tag frame VLAN ID is not equal to the configuration of the VID, then the frame is discarded |
|            | Tag frame   | Tag frame VLAN ID belongs to the port "allowed by VLAN", forwarding; Tag frame VLAN ID belongs to the port "allowed by VLAN", forwarding; If the Tag frame VLAN does not belong to the port of the "permitted by VLAN," is discarded.                                   |

Command is as follow:

```
epon(olt-7/onu-1/uni-1)# ctc vlan-mode tag <tpid> <cos> <vlan>
```

## 【Trunk Mode】

| Direction  | Type        | Processing method   |
|------------|-------------|---|
| Upstream   | Untag frame | Switch frames on port's default VLAN(VPID),forwarding.  |
|            | Tag frame   | Tag frame VLAN ID belongs to the port "allowed by VLAN", forwarding; Tag frame VLAN ID does not belong to the port of the "permitted by VLAN," is discarded   |
| Downstream | Untag frame | Discard the frame   |
|            | Tag frame   | Tag frame VLAN ID belongs to the port "allowed by VLAN", forwarding; Tag frame VLAN ID belongs to the port "allowed by VLAN", forwarding; If the Tag frame VLAN does not belong to the port of the "permitted by VLAN," is discarded. |

Command is as follow:

```
epon(olt-7/onu-1/uni-1)# ctc vlan-mode trunk <tpid> <cos> <default-vlan> vlan-list
```

## 【Translation Mode】

| Direction  | Type        | Processing method  |
|------------|-------------|--|
| Upstream   | Untag frame | Switch frames on port's default VLAN(VPID),forwarding.   |
|            | Tag frame   | Tag frame VLAN ID in the configuration of the VID conversion list, forwarding; Tag frame VLAN ID is not in the configuration of the VID conversion list, frame discarding. |
| Downstream | Untag frame | Discard the frame  |
|            | Tag frame   | Tag frame VLAN ID corresponds to the entry in the corresponding port of the VLAN Translation list (equal to  |

|  |           |  |
|--|-----------|--|
|  |           | the input VID configuration), According to the table to convert the VID to a corresponding VID (VID output), forwarding; If the VLAN ID in the corresponding port of the VLAN Translation list without a corresponding entry, discarding; If the TAG frame with VLAN ID as the "default VLAN", after the VLAN label forwarding is stripped down; |
|  | Tag frame | Tag frame VLAN ID belongs to the port "allowed by VLAN", forwarding; Tag frame VLAN ID belongs to the port "allowed by VLAN", forwarding; If the Tag frame VLAN does not belong to the port of the "permitted by VLAN," is discarded.  |

**Command is as follow :**

```
epon(olt-7/onu-1/uni-1)# ctc vlan-mode translation <tpid> <cos> <default-vlan> translate-list
```

## 【Aggregation Mode】

| Direction  | Type        | Processing method   |
|------------|-------------|---|
| Upstream   | Untag frame | Switch frames on port's default VLAN(VPID),forwarding.  |
|            | Tag frame   | If the VLAN ID of the packet is equal to one of the "aggregated VLANs" in the VLAN aggregation table, the VID of the packet is converted to the corresponding VLAN to be aggr. The source of the service flow is also recorded. MAC address value, and forward;<br><br>If the VLAN ID of the packet is not equal to any one of the "aggregated VLANs" in the VLAN aggregation table of the port, it is discarded.<br>Currently, only the ONU is required to convert the VID. The conversion of other fields (such as TPID, CFI, and Pri) is not required. The ONU treats the TPID and Pri fields in the VLANConfig Parameters field of the received VLAN VariableContainer, After the TPID set to the default value (TPID = 0x8100), Pri to maintain the original value |
| Downstream | Untag frame | Discard the frame   |
|            | Tag frame   | If the VLAN ID of the packet is equal to "VLAN to be aggr." In the VLAN aggregation table of the port, the VID is converted to the corresponding "aggregated VLAN" according to the MAC address value and forwarded.<br>If the VID of the original tag is the default VID, the tag is forwarded and forwarded. If the VLAN ID is not equal to "VLAN to be aggr." Or the default VLAN ID is not equal, the ONU is only required VID conversion, other fields (such as TPID, CFI and Pri) conversion is not required. The ONU treats the TPID and Pri fields in the VLANConfig Parameters parameter field in the received VLAN  |

|  |  |   |
|--|--|---|
|  |  | VariableContainer and sets the TPID of the converted VLAN tag to the default value (TPID = 0x8100). Pri remains the original value. |
|--|--|---|

**Command is as follow:**

```
epon(olt-7/onu-1/uni-1)# ctc vlan-mode aggregation <tpid> <cos> <default-vlan>
aggregation-list
```

## 5.6.2 Configure Bridge Onu(SFU) Multicast Service

**Premise Condition**

- OLT connect to uplink device and open service
- OLT have created vlan for multicast service
- OLT have configured GE port vlan
- OLT have configured PON port vlan
- ONU have registered

We need enter OLT to config ONU multicast service,configure way as follows:

**Configure ONU1 multicast vlan mode is snooping,ONU1 eth2 vlan is 200,and multicast vlan mode is untag:**

```
epon# olt 1
epon(olt-1)# onu 1
epon(olt-1/onu-1)# ctc igmp mode igmp-mld-snooping //Config ONU igmp mode to snooping
epon(olt-1/onu-1)# ctc igmp fast-leave enable
epon(olt-1/onu-1)# uni 2
epon(olt-1/onu-1/uni-2)# ctc igmp vlan add 200 //Config ONU multicast vlan to 200
epon(olt-1/onu-1/uni-2)# ctc igmp tag-handle strip-vlan-tag
//Config ONU multicast vlan handle mode to strip,used for IPTV box
```

## 5.7 Configure Gateway ONU (HGU) Service

Gateway ONU (HGU) can provide internet,VOIP,IPTV service for FTTH,support PPPOE/DHCP dial-up,NAT, IGMP.Because HGU have route function, ONU service need to be configured with the local web or tr069,include wan and vlan configuration,don't need configure vlan in olt,only make sure ONU can register to OLT.OLT don't support configure ONU route wan,specific configure as follows:

### 5.7.1 Configure Gateway ONU (HGU) Internet Service--RTK Solution ONU premise condition

- OLT connect to uplink device and open service
- OLT have created vlan for internet
- OLT have configured GE port vlan
- OLT have configured PON port vlan
- ONU have registered

## 1. Create route wan and bind LAN1 in onu web

Click Internet→Internet Config→ WAN Config

The screenshot shows the 'WAN Config' page of an ONU's web interface. The top navigation bar includes tabs for Status, Internet, Security, Application, and sub-tabs for Internet Config, Port Binding, DHCP Server, WLAN Config, Remote Mgmt, QoS, and WAN Config. The main form contains the following fields:

- WAN Connection name: Add WAN connection
- Mode: Route
- Connection Mode: IPv4/IPv6
- DHCP: (radio button selected) Obtain an IP address automatically
- Static: (radio button unselected) Use Static IP address
- PPPoE: (radio button unselected) PPP over Ethernet (PPPoE)
- NAT: (checkbox checked)
- Enable VLAN: (checkbox checked)
- Vlan ID: 100
- 802.1p: (dropdown menu showing (NULL))
- MTU: 1500
- Request DNS: (radio button selected) Enable
- (radio button unselected) Disable
- Primary DNS: (text input field)
- Secondary DNS: (text input field)
- Service Mode: INTERNET
- Bind port:
  - Port\_1: (checkbox checked)
  - Port\_2: (checkbox unselected)
  - Port\_3: (checkbox unselected)
  - Port\_4: (checkbox unselected)
  - wireless(SSID): (checkbox checked)

**NOTE:**

Mode select **Route**. Check **Enable VLAN** and Vlan ID input 100. Service Mode select **INTERNET**. Bind port check **Port\_1** and **wireless(SSID)**.

Internet service take DHCP mode as an example in this document. The service type please select suitable type according to the user's actual environment. ONT detail usage please refer to ONT user manual.

## 2. Check ONU internet wan status

Click Status→Internet Info

| Status   | Internet      | Security | Application | Management | Diagnosis     |
|--|---------------|----------|-------------|------------|---------------|
| Device Info   Internet Info   LAN & WLAN   TR-069 Status |               |          |             |            |               |
| <b>WAN Info</b>  |               |          |             |            |               |
| Interface  | VLAN ID       | Protocol | IGMP        | Status     | IP address    |
| 1_TR069_R_VID_46   | 46            | IFoE     | Enable      | down       |               |
| 2_INTERNET_R_VID_100                                     | 100           | IFoE     | Enable      | up         | 192.168.5.129 |
| <b>Network Information</b>                               |               |          |             |            |               |
| Default Gateway  | 192.168.5.254 |          |             |            |               |
| Subnet Mask  | 255.255.255.0 |          |             |            |               |
| Primary DNS  | 192.168.5.254 |          |             |            |               |
| Secondary DNS  |               |          |             |            |               |

## 5.7.2 Configure Gateway ONU (HGU) Multicast Service--RTK Solution ONU

### premise condition

- OLT connect to uplink device and open multicast service
- OLT have created vlan for multicast
- OLT have configured GE port multicast vlan
- OLT have configured PON port multicast vlan
- ONU have registered

#### 1. Create bridge wan and bind LAN2 in onu web

Click Internet→Internet Config→ WAN Config

| Status   | Internet   | Security | Application | Management | Diagnosis |  |  |  |  |  |
|--|------------|----------|-------------|------------|-----------|--|--|--|--|--|
| Internet Config   Port Binding   DHCP Server   WLAN Config   Remote Mgmt   QoS   Time Config   Routing   | WAN Config |          |             |            |           |  |  |  |  |  |
| WAN Connection name: Add WAN connection ▼<br>Mode : Bridge ▼<br>Connection Mode: Ipv4/Ipv6 ▼<br>Enable Vlan: <input checked="" type="checkbox"/><br>Vlan ID: 200<br>802.1p: (NULL)<br>Service Mode: Other ▼<br>Bind port:<br><input type="checkbox"/> Port_1 <input checked="" type="checkbox"/> Port_2<br><input type="checkbox"/> Port_3 <input type="checkbox"/> Port_4<br><input type="checkbox"/> wireless(SSID)  |            |          |             |            |           |  |  |  |  |  |
| <small>NOTE: Can not bind the same port to different WAN connection. If the same port has been binded to different WAN connection, the last configuration will flush your previous configurations on this port.</small><br><small>When the Bridge mode is set to Other, the PC on the port does not dynamically obtain the IP address through the gateway. When the service mode is Other, please be careful not to bind all LAN ports for such a situation!</small> |            |          |             |            |           |  |  |  |  |  |
| <input type="button" value="Apply"/> <input type="button" value="delete"/>   |            |          |             |            |           |  |  |  |  |  |



#### NOTE:

Mode select to **Bridge**. Check **Enable Vlan**,Vlan ID input **200**. Service Mode select **Other**.Bind port click **Port\_2**.

#### 2. Config IGMP mode in ONU web

Click Application→ IGMP Config→ IGMP Snooping. Enable IGMP Snooping.

| Interface            | Multicast VLAN | Modify |
|----------------------|----------------|--------|
| 1_TR069_R_VID_46     |                |        |
| 2_INTERNET_R_VID_100 |                |        |
| 3_Other_B_VID_200    | 200            |        |

### 3. Configure multicast vlan on ONU web

Click Application → Multicast Vlan → 3\_Other\_B\_VID\_200 → Modify. Input 200 behind VLAN multicast(blank said set).

| Interface            | Multicast VLAN | Modify |
|----------------------|----------------|--------|
| 1_TR069_R_VID_46     |                |        |
| 2_INTERNET_R_VID_100 |                |        |
| 3_Other_B_VID_200    | 200            |        |

### 4. Check ONU multicast wan status

Click Status → Internet Info

| Interface            | VLAN ID | Protocol | IGMP    | Status | IP address    |
|----------------------|---------|----------|---------|--------|---------------|
| 1_TR069_R_VID_46     | 46      | IPoE     | Enable  | down   |               |
| 2_INTERNET_R_VID_100 | 100     | IPoE     | Enable  | up     | 192.168.5.129 |
| 3_Other_B_VID_200    | 200     | br1483   | Disable | up     |               |

|                 |               |
|-----------------|---------------|
| Default Gateway | 192.168.5.254 |
| Subnet Mask     | 255.255.255.0 |
| Primary DNS     | 192.168.5.254 |
| Secondary DNS   |               |

----end

## 5.7.3 Configure Gateway ONU (HGU) Internet Service--ZTE Solution ONU

### premise condition

- OLT connect to uplink device and open internet service
- OLT have created vlan for internet
- OLT have configured GE port vlan
- OLT have configured PON port vlan
- ONU have registered

### 1. Create route wan and bind LAN1 in ont web

Click Network → WAN → WAN Connection. Type select to DHCP. Connection Name select to Create WAN Connection. Port Binding check LAN1 and SSID1. Service List select to INTERNET. VLAN Mode select to Used. VLAN ID enter 100. finally click Create.

1GE3FE2P1UW

| Status  |  | Network   |  | Security |  | App |  | Administration |  | Diagnosis |  | Help   |  |
|---|--|---|--|----------|--|-----|--|----------------|--|-----------|--|--|--|
| WAN   |  | IP Version: IPv4<br>Type: DHCP<br>Connection Name: Create WAN Connection<br>Port Binding: <input checked="" type="checkbox"/> LAN1 <input type="checkbox"/> LAN2 <input type="checkbox"/> LAN3 <input type="checkbox"/> LAN4<br><input checked="" type="checkbox"/> SSID1 <input type="checkbox"/> SSID2 <input type="checkbox"/> SSID3 <input type="checkbox"/> SSID4<br>Enable DHCP: <input checked="" type="checkbox"/><br>Enable NAT: <input checked="" type="checkbox"/><br>Service List: INTERNET<br>VLAN Mode: Used<br>VLAN ID: 100<br>802.1p: 0<br>Enable DSCP: <input type="checkbox"/><br>DSCP: <input type="text"/><br>MTU: 1492 |  |          |  |     |  |                |  |           |  | English <input type="button" value="▼"/><br><input type="button" value="Help"/><br><input type="button" value="Logout"/> |  |
| WAN Connection<br>4in6 Tunnel Connection<br>ARP Detect<br>DHCP Release First<br><br>Bonding configuration<br><br>LAN Configuration<br><br>PON information settings<br><br>Prefix Management<br><br>WLAN<br><br>Port Settings<br><br>TR-069<br><br>QoS |  |   |  |          |  |     |  |                |  |           |  |  |  |

 **NOTE:**

Type select to **DHCP**. Connection Name select to **Create WAN Connection**. Port Binding check **LAN1** and **SSID1**. Service List select to **INTERNET**. VLAN Mode select to **Used**. VLAN ID enter **100**. Enable DHCP and Enable NAT keep default checked status.

In this document, Internet service take DHCP mode as an example. please selected suitable service type according to the user's actual need. ONT detail use way please refer to ONT user manual.

## 2. Check ONT internet wan status

1GE3FE2P1UW

| Status  |                             | Network   |  | Security |  | App |  | Administration |  | Diagnosis |  | Help |      |                 |                      |     |         |    |                             |      |             |      |         |      |         |         |                   |         |             |                   |           |                      |          |  |  |
|---|-----------------------------|---|--|----------|--|-----|--|----------------|--|-----------|--|------|------|-----------------|----------------------|-----|---------|----|-----------------------------|------|-------------|------|---------|------|---------|---------|-------------------|---------|-------------|-------------------|-----------|----------------------|----------|--|--|
| Device Information  |                             | <table border="1"> <tr> <td>Type</td> <td>DHCP</td> </tr> <tr> <td>Connection Name</td> <td>3_INTERNET_R_VID_100</td> </tr> <tr> <td>NAT</td> <td>Enabled</td> </tr> <tr> <td>IP</td> <td>192.168.5.194/255.255.255.0</td> </tr> <tr> <td>DNS1</td> <td>192.168.5.1</td> </tr> <tr> <td>DNS2</td> <td>0.0.0.0</td> </tr> <tr> <td>DNS3</td> <td>0.0.0.0</td> </tr> <tr> <td>WAN MAC</td> <td>E0:67:B3:00:00:BC</td> </tr> <tr> <td>Gateway</td> <td>192.168.5.1</td> </tr> <tr> <td>Connection Status</td> <td>Connected</td> </tr> <tr> <td>Remaining Lease Time</td> <td>85544sec</td> </tr> </table> |  |          |  |     |  |                |  |           |  | Type | DHCP | Connection Name | 3_INTERNET_R_VID_100 | NAT | Enabled | IP | 192.168.5.194/255.255.255.0 | DNS1 | 192.168.5.1 | DNS2 | 0.0.0.0 | DNS3 | 0.0.0.0 | WAN MAC | E0:67:B3:00:00:BC | Gateway | 192.168.5.1 | Connection Status | Connected | Remaining Lease Time | 85544sec | English <input type="button" value="▼"/><br><input type="button" value="Help"/><br><input type="button" value="Logout"/> |  |
| Type  | DHCP                        |   |  |          |  |     |  |                |  |           |  |      |      |                 |                      |     |         |    |                             |      |             |      |         |      |         |         |                   |         |             |                   |           |                      |          |  |  |
| Connection Name   | 3_INTERNET_R_VID_100        |   |  |          |  |     |  |                |  |           |  |      |      |                 |                      |     |         |    |                             |      |             |      |         |      |         |         |                   |         |             |                   |           |                      |          |  |  |
| NAT   | Enabled                     |   |  |          |  |     |  |                |  |           |  |      |      |                 |                      |     |         |    |                             |      |             |      |         |      |         |         |                   |         |             |                   |           |                      |          |  |  |
| IP  | 192.168.5.194/255.255.255.0 |   |  |          |  |     |  |                |  |           |  |      |      |                 |                      |     |         |    |                             |      |             |      |         |      |         |         |                   |         |             |                   |           |                      |          |  |  |
| DNS1  | 192.168.5.1                 |   |  |          |  |     |  |                |  |           |  |      |      |                 |                      |     |         |    |                             |      |             |      |         |      |         |         |                   |         |             |                   |           |                      |          |  |  |
| DNS2  | 0.0.0.0                     |   |  |          |  |     |  |                |  |           |  |      |      |                 |                      |     |         |    |                             |      |             |      |         |      |         |         |                   |         |             |                   |           |                      |          |  |  |
| DNS3  | 0.0.0.0                     |   |  |          |  |     |  |                |  |           |  |      |      |                 |                      |     |         |    |                             |      |             |      |         |      |         |         |                   |         |             |                   |           |                      |          |  |  |
| WAN MAC   | E0:67:B3:00:00:BC           |   |  |          |  |     |  |                |  |           |  |      |      |                 |                      |     |         |    |                             |      |             |      |         |      |         |         |                   |         |             |                   |           |                      |          |  |  |
| Gateway   | 192.168.5.1                 |   |  |          |  |     |  |                |  |           |  |      |      |                 |                      |     |         |    |                             |      |             |      |         |      |         |         |                   |         |             |                   |           |                      |          |  |  |
| Connection Status   | Connected                   |   |  |          |  |     |  |                |  |           |  |      |      |                 |                      |     |         |    |                             |      |             |      |         |      |         |         |                   |         |             |                   |           |                      |          |  |  |
| Remaining Lease Time  | 85544sec                    |   |  |          |  |     |  |                |  |           |  |      |      |                 |                      |     |         |    |                             |      |             |      |         |      |         |         |                   |         |             |                   |           |                      |          |  |  |
| Network Interface<br>WAN Connection(IPv4)<br>WAN Connection(IPv6)<br>4in6 Tunnel Connection<br>PON Inform<br>PON Alarm<br><br>User Interface<br>VoIP Status<br>Remote Management Status |                             |   |  |          |  |     |  |                |  |           |  |      |      |                 |                      |     |         |    |                             |      |             |      |         |      |         |         |                   |         |             |                   |           |                      |          |  |  |

--end

## 5.7.4 Configure Gateway ONU (HGU) Multicast Service--ZTE Solution ONU

### premise condition

- OLT connect to uplink device and open multicast service
- OLT have created vlan for multicast
- OLT have configured GE port multicast vlan
- OLT have configured PON port multicast vlan
- ONU have registered

### 1. Create bridge wan in ont web

Click Network→WAN→WAN Connection. Type select to Bridge. Connection Name select to Create WAN Connection. Port Binding check LAN2. Service List select to OTHER. VLAN Mode select to Used. VLAN ID enter 200. Finally click Create.

The screenshot shows the ONT web interface with the following details:

- WAN Connection Settings:**
  - IP Version: IPv4
  - Type: Bridge
  - Connection Name: Create WAN Connection
  - Port Binding: LAN2 (checked)
  - Service List: OTHER
  - VLAN Mode: Used
  - VLAN ID: 200
  - 802.1p: 0
  - Enable DHCP: Unchecked
  - Enable DSCP: Unchecked
  - DSCP: 0
- Left Sidebar (WAN):**
  - WAN Connection (selected)
  - 4im6 Tunnel Connection
  - ARP Detect
  - DHCP Release First
  - Bonding configuration
  - LAN Configuration
  - PON information settings
  - Prefix Management
  - WLAN
  - Port Settings
  - TR-069
- Bottom Note:**

**NOTE:**  
Type select to **Bridge**. Connection Name select to **Create WAN Connection**. Port Binding check **LAN2**. Service List select to **OTHER**. VLAN Mode select to **Used**. VLAN ID enter **200**. Enable DHCP keep default unchecked status.

### 2. Check ONT Bridge wan status

Click Status→Network Interface→WAN Connection(IPv4).

1GE3FE2P1UW

Status
Network
Security
App
Administration
Diagnosis
Help

**Device Information**

|  |                                       |
|--|---------------------------------------|
| Network Interface                        |                                       |
| <a href="#">WAN Connection(IPv4)</a>     | Type: DHCP                            |
| <a href="#">WAN Connection(IPv6)</a>     | Connection Name: 3_INTERNET_R_VID_100 |
| <a href="#">4in6 Tunnel Connection</a>   | NAT: Enabled                          |
| <a href="#">PON Inform</a>               | IP: 192.168.5.194/255.255.255.0       |
| <a href="#">PON Alarm</a>                | DNS1: 192.168.5.1                     |
| <a href="#">User Interface</a>           | DNS2: 0.0.0.0                         |
| <a href="#">VoIP Status</a>              | DNS3: 0.0.0.0                         |
| <a href="#">Remote Management Status</a> | WAN MAC: E0:67:B3:00:00:BC            |
|  | Gateway: 192.168.5.1                  |
|  | Connection Status: Connected          |
|  | Remaining Lease Time: 85544sec        |

|                                    |
|------------------------------------|
| Type: Bridge Connection            |
| Connection Name: 2_Other_B_VID_200 |

English
Help
Logout

### 3. Configure multicast vlan on ONT web

Click App→Normal App→IPTV. Modify the Bridge WAN 2\_Other\_B\_VID\_200

1GE3FE2P1UW

Status
Network
Security
App
Administration
Diagnosis
Help

**Normal App**

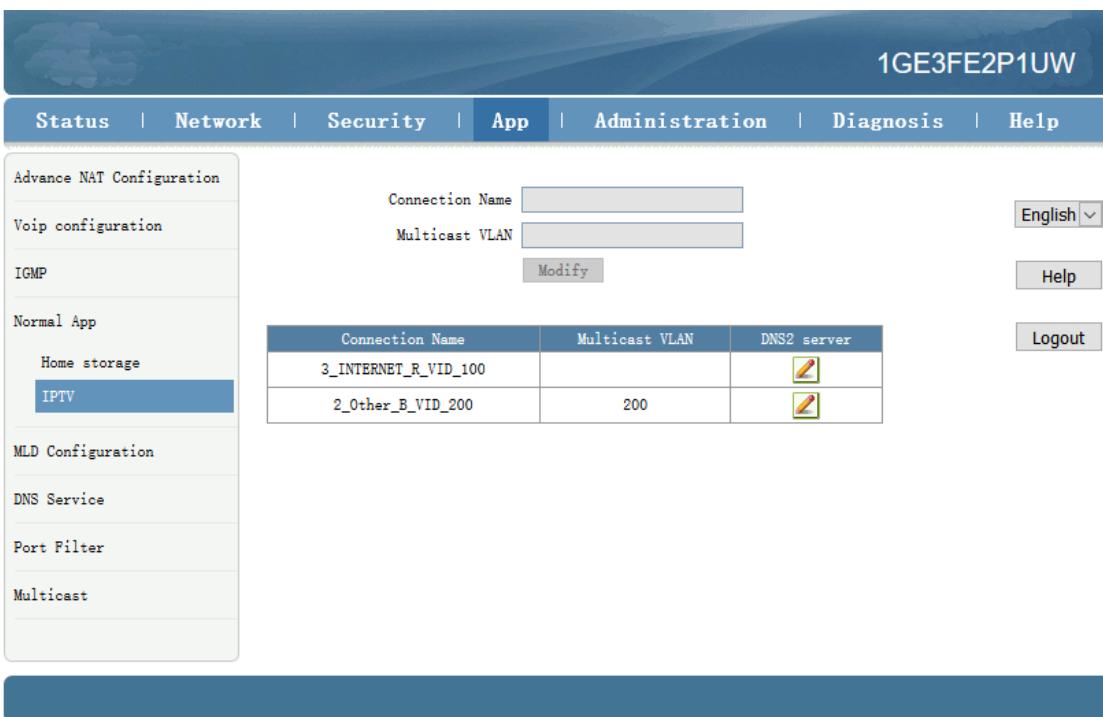
|                           |                      |
|---------------------------|----------------------|
| Advance NAT Configuration |                      |
| Voip configuration        |                      |
| IGMP                      |                      |
| Multicast VLAN            |                      |
| Modify                    |                      |
| Connection Name           | <input type="text"/> |
| Multicast VLAN            | <input type="text"/> |

| Connection Name      | Multicast VLAN | DNS2 server |
|----------------------|----------------|-------------|
| 3_INTERNET_R_VID_100 |                |             |
| 2_Other_B_VID_200    |                |             |

English
Help
Logout

Multicast VLAN enter 200. Then click Modify.



---end

## 5.7.5 Configure Gateway ONU (HGU) VOIP Service--ZTE Solution ONU premise condition

- OLT connect to uplink device and open multicast service
- OLT have created vlan for VOIP
- OLT have configured GE port VOIP vlan
- OLT have configured PON port VOIP vlan
- ONU have registered

### 1. Configure Voice in ONT web

Click Network→WAN→WAN Connection. Type Select to DHCP. Connection Name Select to Create WAN Connection. Service List select to VOICE. VLAN Mode select to Used. VLAN ID enter 300. Finally click Create.

1GE3FE2P1UW

|   |  |  |  |  |                        |  |                                     |  |  |  |  |   |  |                                     |   |  |                                       |  |   |                          |   |   |                   |   |  |  |                          |   |  |                   |   |  |
|---|--|--|--|--|------------------------|--|-------------------------------------|--|--|--|--|---|--|-------------------------------------|---|--|---------------------------------------|--|---|--------------------------|---|---|-------------------|---|--|--|--------------------------|---|--|-------------------|---|--|
| Status  | Network  | Security                               | App  | Administration                         | Diagnosis              | Help                                     |                                     |  |  |  |  |   |  |                                     |   |  |                                       |  |   |                          |   |   |                   |   |  |  |                          |   |  |                   |   |  |
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| WAN Connection  | <input type="button" value="IP Version IPv4"/>   | <input type="button" value="English"/> |  |  |                        |  |                                     |  |  |  |  |   |  |                                     |   |  |                                       |  |   |                          |   |   |                   |   |  |  |                          |   |  |                   |   |  |
| 4in6 Tunnel Connection  | <input type="button" value="Type DHCP"/>   | <input type="button" value="Help"/>    |  |  |                        |  |                                     |  |  |  |  |   |  |                                     |   |  |                                       |  |   |                          |   |   |                   |   |  |  |                          |   |  |                   |   |  |
| ARP Detect  | <input type="button" value="Connection Name Create WAN Connection"/>   | <input type="button" value="Logout"/>  |  |  |                        |  |                                     |  |  |  |  |   |  |                                     |   |  |                                       |  |   |                          |   |   |                   |   |  |  |                          |   |  |                   |   |  |
| DHCP Release First  | <input type="button" value="Service List VOICE"/>  |  |  |  |                        |  |                                     |  |  |  |  |   |  |                                     |   |  |                                       |  |   |                          |   |   |                   |   |  |  |                          |   |  |                   |   |  |
| Bonding configuration   | <input type="button" value="VLAN Mode Used"/>  |  |  |  |                        |  |                                     |  |  |  |  |   |  |                                     |   |  |                                       |  |   |                          |   |   |                   |   |  |  |                          |   |  |                   |   |  |
| LAN Configuration   | <input type="button" value="VLAN ID 300"/>   |  |  |  |                        |  |                                     |  |  |  |  |   |  |                                     |   |  |                                       |  |   |                          |   |   |                   |   |  |  |                          |   |  |                   |   |  |
| PON information settings  | <input type="button" value="802.1p 0"/>  |  |  |  |                        |  |                                     |  |  |  |  |   |  |                                     |   |  |                                       |  |   |                          |   |   |                   |   |  |  |                          |   |  |                   |   |  |
| Prefix Management   | <input type="button" value="MTU 1492"/>  |  |  |  |                        |  |                                     |  |  |  |  |   |  |                                     |   |  |                                       |  |   |                          |   |   |                   |   |  |  |                          |   |  |                   |   |  |

## 2. Configure ONT VOIP

Click App→Voip configuration→SIP. Enter Sip server ip address.

1GE3FE2P1UW

|   |   |  |  |  |  |  |  |   |  |  |  |  |   |  |   |  |   |  |  |   |  |   |   |   |   |  |   |  |  |  |   |                           |  |   |   |  |  |   |  |  |   |   |  |  |  |  |   |   |                           |  |  |  |                                |  |
|---|---|--|--|--|--|--|--|---|--|--|--|--|---|--|---|--|---|--|--|---|--|---|---|---|---|--|---|--|--|--|---|---------------------------|--|---|---|--|--|---|--|--|---|---|--|--|--|--|---|---|---------------------------|--|--|--|--------------------------------|--|
| Status  | Network   | Security   | App  | Administration   | Diagnosis  | Help   |  |   |  |  |  |  |   |  |   |  |   |  |  |   |  |   |   |   |   |  |   |  |  |  |   |                           |  |   |   |  |  |   |  |  |   |   |  |  |  |  |   |   |                           |  |  |  |                                |  |
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| Register Retry Interval 60 sec  |   |  |  |  |  |  |  |   |  |  |  |  |   |  |   |  |   |  |  |   |  |   |   |   |   |  |   |  |  |  |   |                           |  |   |   |  |  |   |  |  |   |   |  |  |  |  |   |   |                           |  |  |  |                                |  |

## 3. Configure ONT VOIP Account

Click App→Voip Configuration→account information. Enter Sip account information.

1GE3FE2P1UW

Status | Network | Security | App | Administration | Diagnosis | Help

**Advance NAT Configuration**

**Voip configuration**

SIP

**account information**

Call control

Additional Setting

Digital Map

VOIP QoS

Agreement cancellation

Media

Advanced

Call Display

SLIC Configuration

| Enable | Sip Account | Authentication user name | Modify |
|--------|-------------|--------------------------|--------|
| Yes    | 895         | 895                      |        |
| Yes    | 896         | 896                      |        |



#### NOTE:

**Sip Account, Password, Authentication user name** please modify according to the user's actual need.

#### 4. Check Sip account register status

Click Status→VoIP Status→Register Status.

Status | Network | Security | App | Administration | Diagnosis | Help

Device Information

Network Interface

User Interface

VoIP Status

**Register Status**

Sip Account

Remote Management Status

|                 |             |
|-----------------|-------------|
| Line Phone      | Line Phone1 |
| Register Status | Registered  |
| Line Phone      | Line Phone2 |
| Register Status | Registered  |



#### NOTE:

The **Register Status** is Registered mean sip account register successfully.

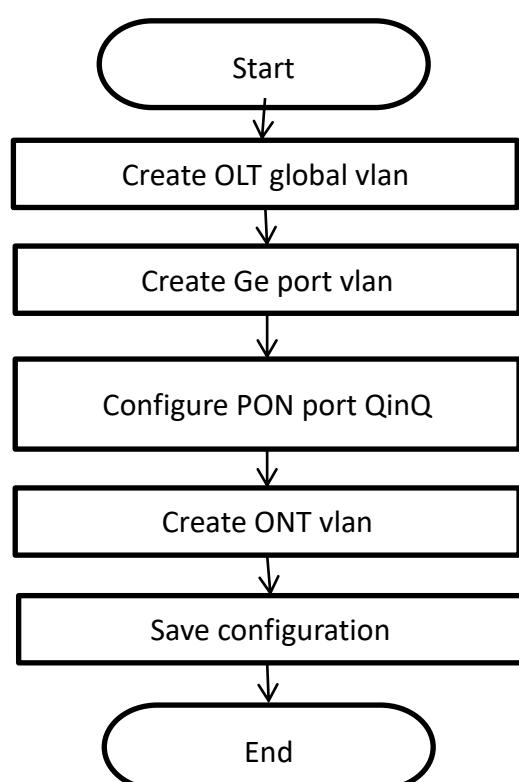
---end

## 6 Configure OLT QinQ Service

### 6.1 Data Plan

| Main Data Plan List       |  |
|---------------------------|--|
| Configure Item            | Data   |
| VLAN                      | <b>SVLAN 500</b> : QinQ service outer vlan<br><b>CVLAN 100-200</b> : QinQ service outer vlan |
| OLT Port Configure        | <b>Ge8</b> : VLAN 500 Hybrid mode<br><b>PON8</b> : VLAN 500 Hybrid mode                      |
| Bridge ONT Port Configure | <b>LAN 3</b> : VLAN 100  |

### 6.2 Configure Processes



### 6.3 Configure OLT

Create outer vlan:

Oprate **show vlan all** command can query the existing vlan,If the existing vlan does not meet the need, we can use **vlan** command to create outer vlan.

```
epon# vlan 500
```

```
epon(vlan-500)# exit
```

**Configure GE port QinQ outer vlan:**

```
epon# swport ge8
```

```
epon(GE-8)# vlan add 500 tag
```

```
epon(GE-8)# exit
```

**Configure PON port QinQ outer vlan and PON port QinQ:**

```
epon# swport ge16
```

```
epon(GE-16)# vlan add 500 tag
```

```
epon(GE-16)# exit
```

```
epon# olt 8
```

```
epon(olt-8)# qinq enable 500 raw-vlan-id-inbound 100-200 ge8
```

## 7 Common Command Description

| command                             | description   |
|-------------------------------------|---|
| show vlan all                       | View OLT vlan summary   |
| show system infor                   | View OLT information of version,MAC,sequence number,model                                     |
| show igmp group all                 | View the list of multicast groups that the OLT joins  |
| show running-config all             | View the running configuration of the OLT   |
| show startup-config all             | View the saved configuration of the OLT   |
| show system ipconfig                | View the in-band, out-of-band management IP address information of the OLT                    |
| show olt <oltId> onu <onuId> ctc sn | View the version information for the ONU  |
| show olt <oltId> online-onu         | View the online ONU on the PON port   |
| show olt <oltId> optical-online-onu | View all the online ONU information of optical power, voltage, current, temperature and so on |

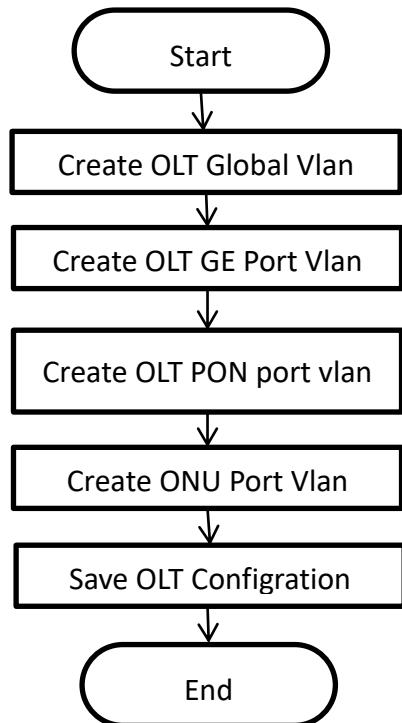
## 8 OLT Service Configuration ---EMS Method

This section mainly introduce 4Port/8Port OLT internet service and multicast service in FTTH environment.The following will introduce the service configuration way for OLT and ONU according to the bridge ONU(SFU).

### 8.1 Data Plan

| Main Data Plan List    |  |
|------------------------|--|
| Configuration Item     | Data   |
| VLAN Data              | <b>VLAN 110:</b> Internet Service<br><b>VLAN 120:</b> IPTV Service   |
| OLT Port Setting       | <b>Ge5:</b> VLAN 110 access mode<br><b>Ge6:</b> VLAN 120 access mode<br><b>PON8:</b> VLAN 110, VLAN 120 trunk mode |
| ONU Register ID        | <b>Bridge ONU ID: 1</b>  |
| Bridge ONU Port config | <b>LAN 1:</b> VLAN 110<br><b>LAN 2:</b> VLAN 120   |

## 8.2 Configuration Guide

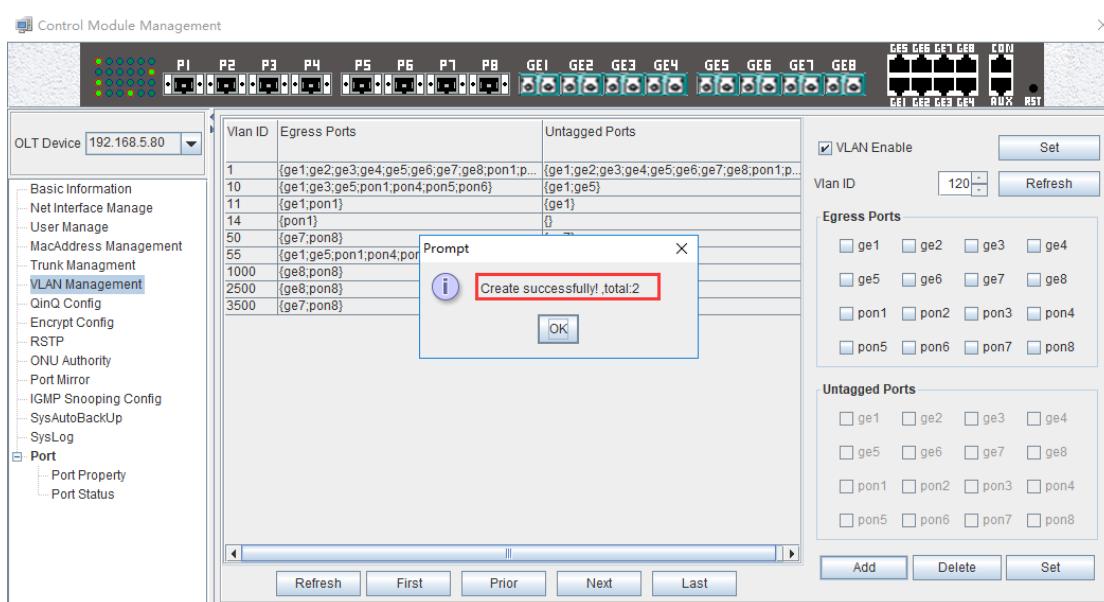
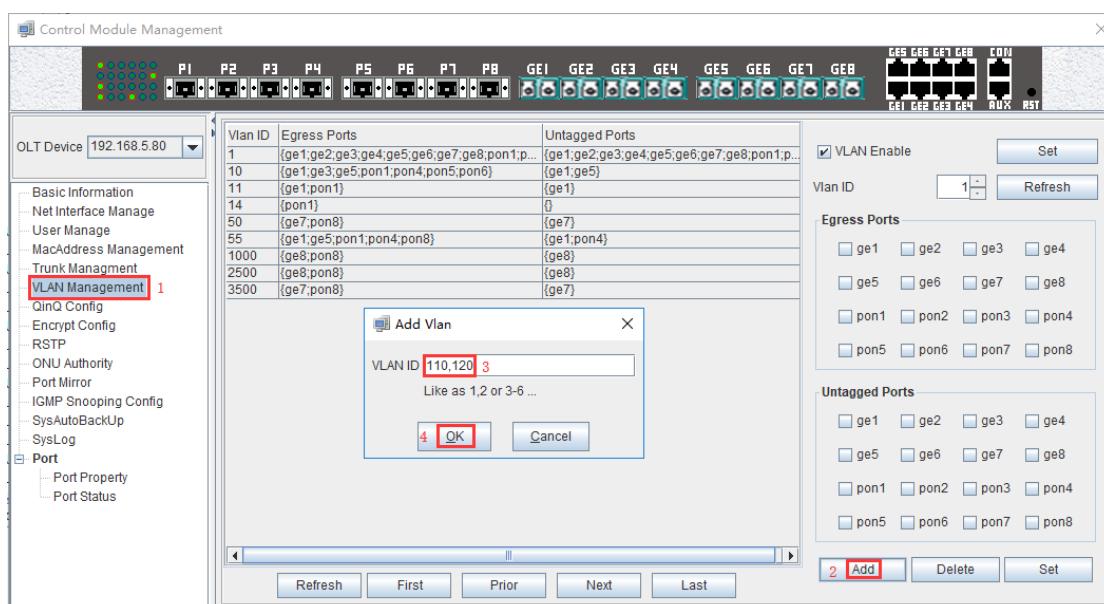
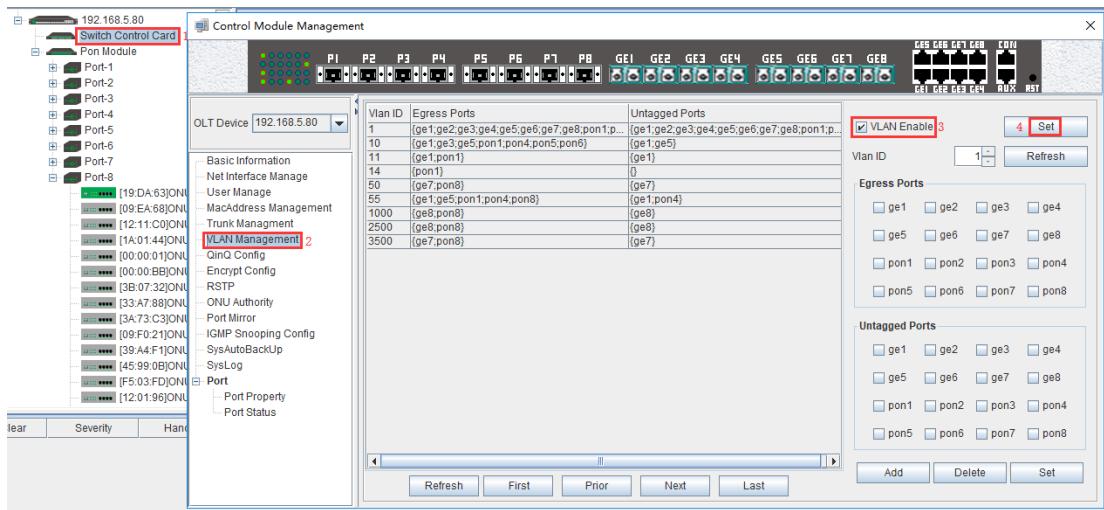


## 8.3 Configure OLT Service

### 8.3.1 Configure OLT Global Vlan

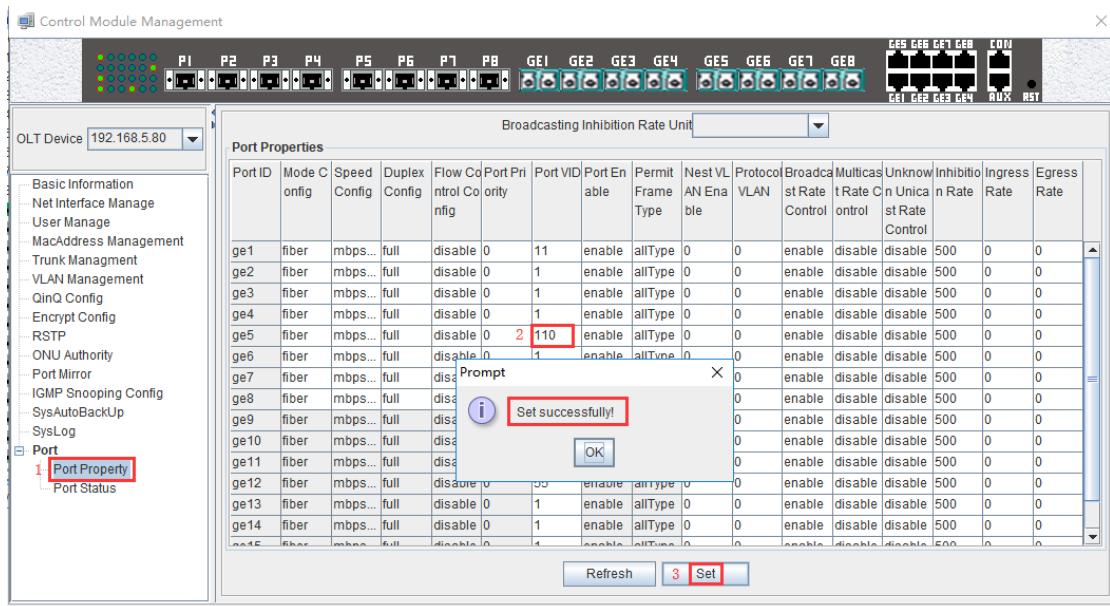
Click “**Switch Control Card --> VLAN Management**” to query the created Vlan.

If the created vlan cannot meet the requirements, vlan can be created by clicking the **Vlan Management**. According to the data planning, we create vlan110 and vlan120 firstly:

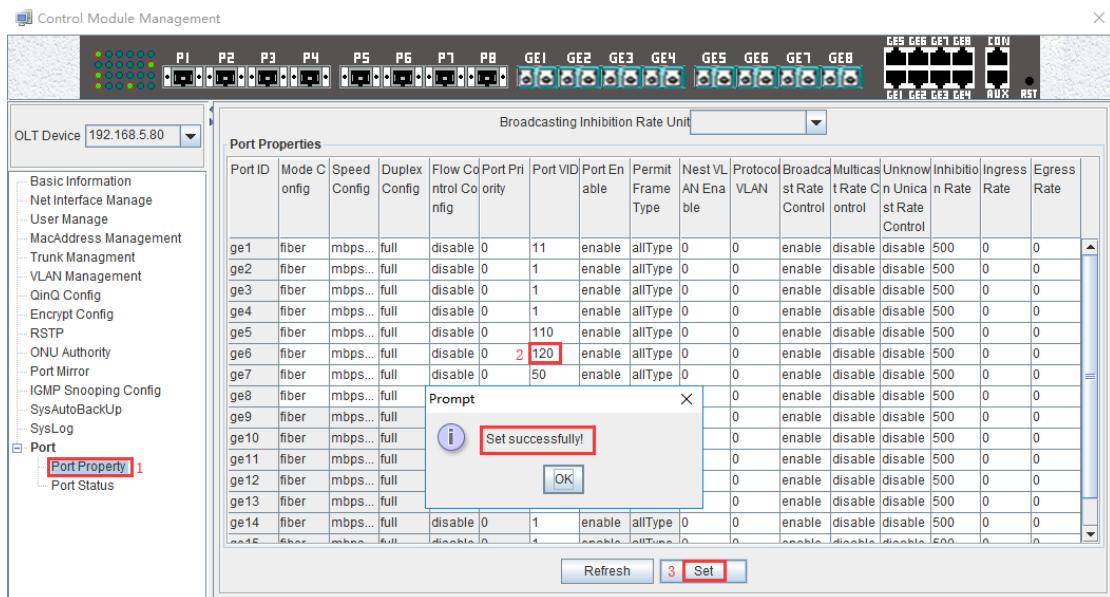


### 8.3.2 Configure OLT GE Port Service Vlan

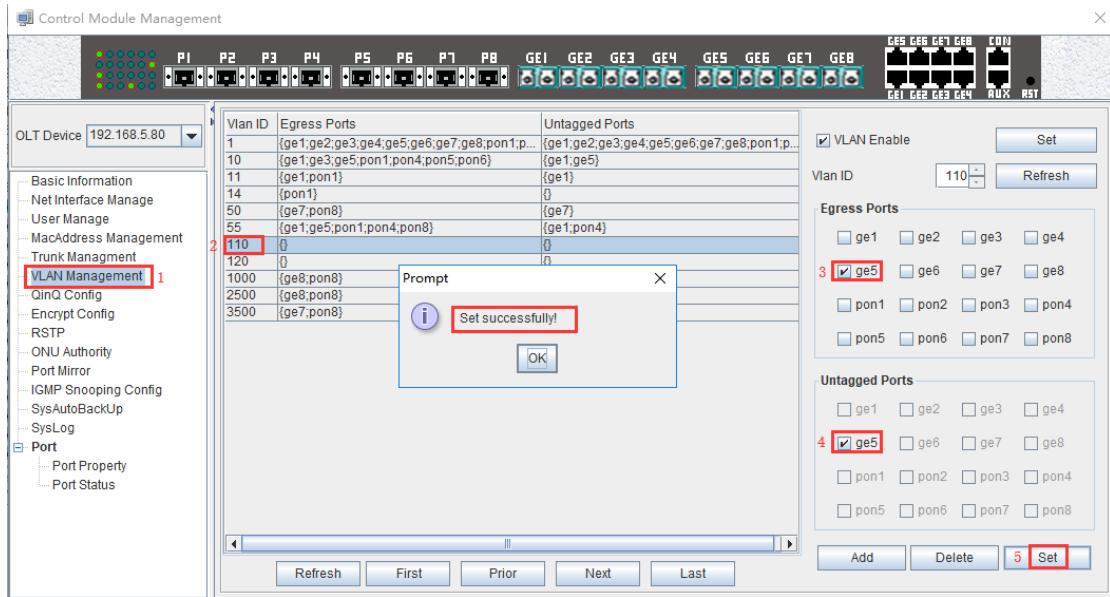
1. Click “Switch Control Card --> Port Property” , and then configure GE 5 port pvid is 110:



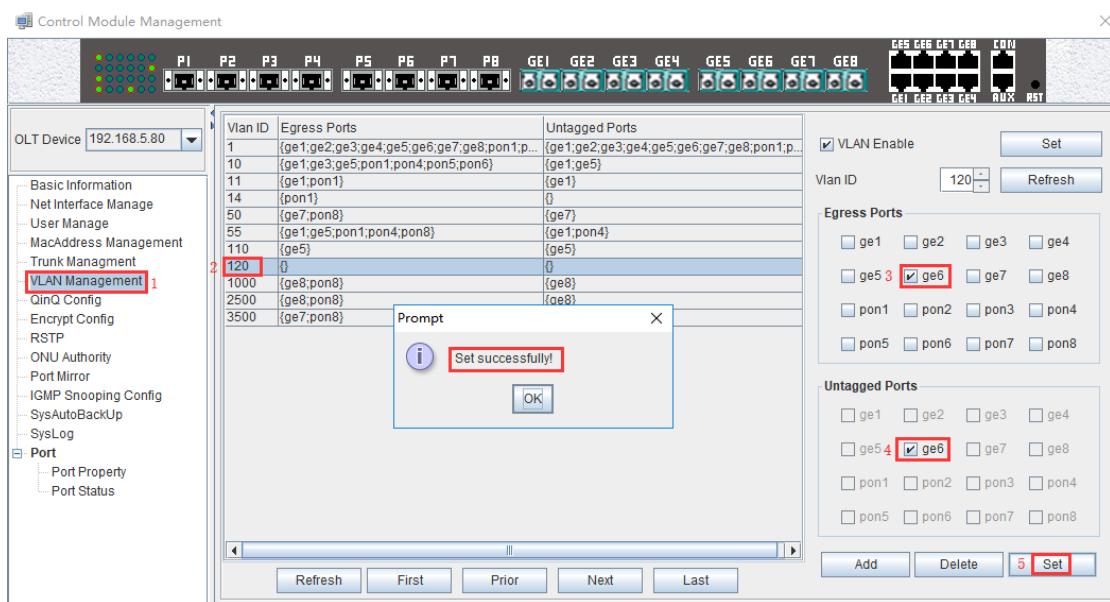
2. Click “Switch Control Card --> Port Property” , and then configure GE 6 port pvid is 120:



3. Click “Switch Control Card --> VLAN Management” , and then add the vlan 110 to GE 5 port as untag mode ,which is access :

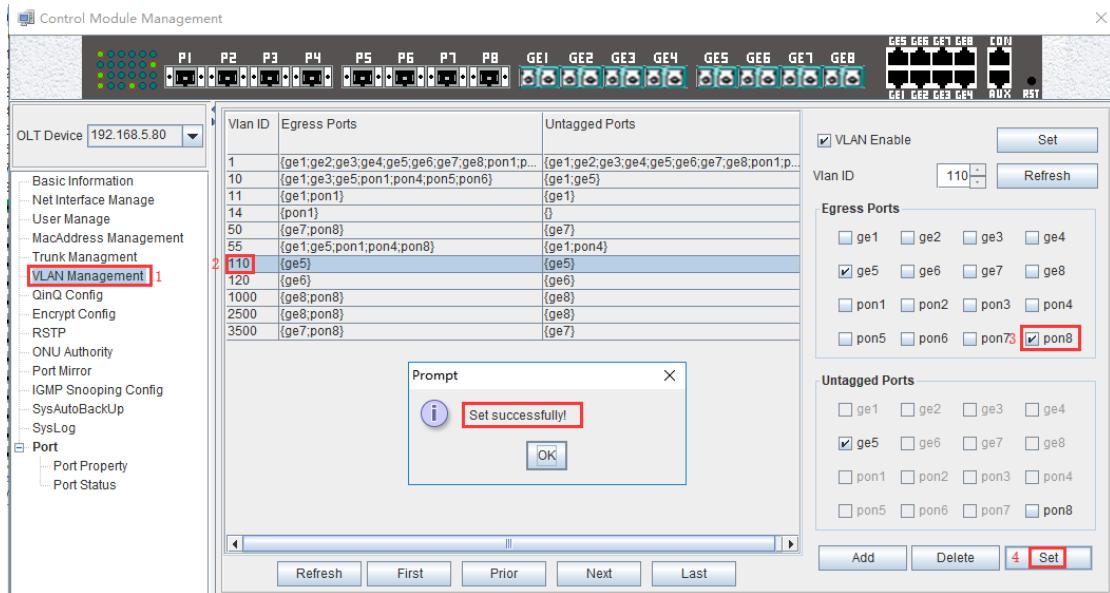


4. Click “Switch Control Card --> VLAN Management” , and then add the vlan 110 to GE 6 port as untag mode ,which is access :

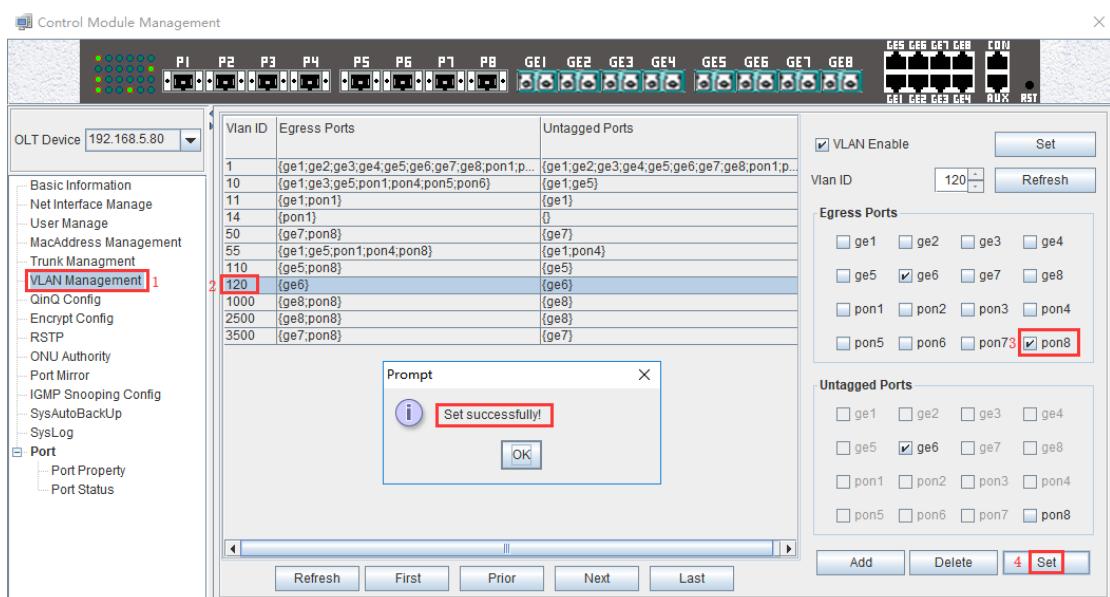


### 8.3.3 Configure OLT PON Port Service Vlan

1. Click “Switch Control Card --> VLAN Management” , and then add the vlan 110 to PON 8 port as tag mode ,which is trunk :



- Click “Switch Control Card --> VLAN Management” , and then add the vlan 120 to PON 8 port as tag mode ,which is trunk :



## 8.4 Configure Bridge ONU(SFU) Service

We need enter OLT to config ONU one by one,config way as follows:

### 8.4.1 Configure Bridge Onu(SFU) Internet Service

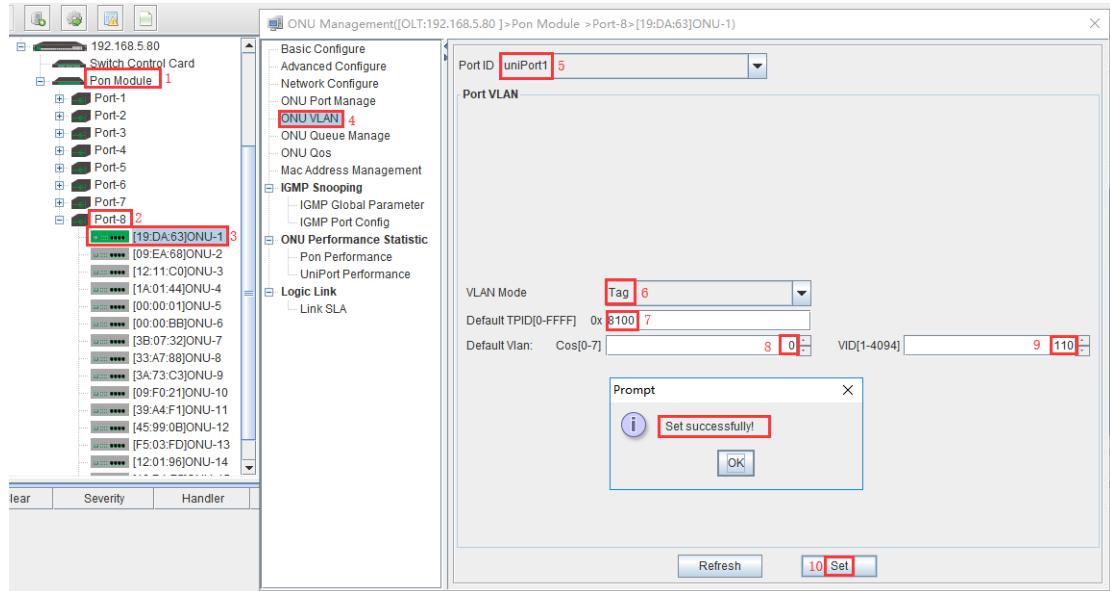
**Premise condition of ONU to open internet service:**

- OLT connect to uplink device and open internet service
- OLT have created vlan for internet service
- OLT have configured GE port vlan
- OLT have configured PON port vlan

- ONU have registered

SFU ethernet port vlan mode have transparent,tag(access),trunk mode and so on,we can according to our network plan configure different mode.all onu vlan is configured by OLT,configure way as follows:

1. Click “**Pon Module --> Port-8 --> ONU-1 --> ONU VLAN**” , and then configure ONU1 eth1 vlan mode is tag(access):



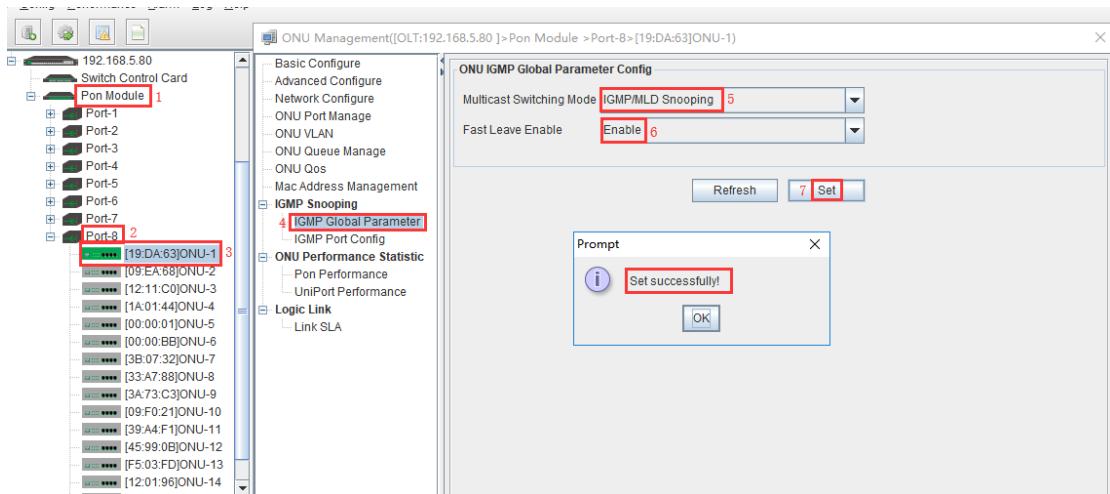
## 8.4.2 Configure Bridge Onu(SFU) Multicast Service

### Premise Condition

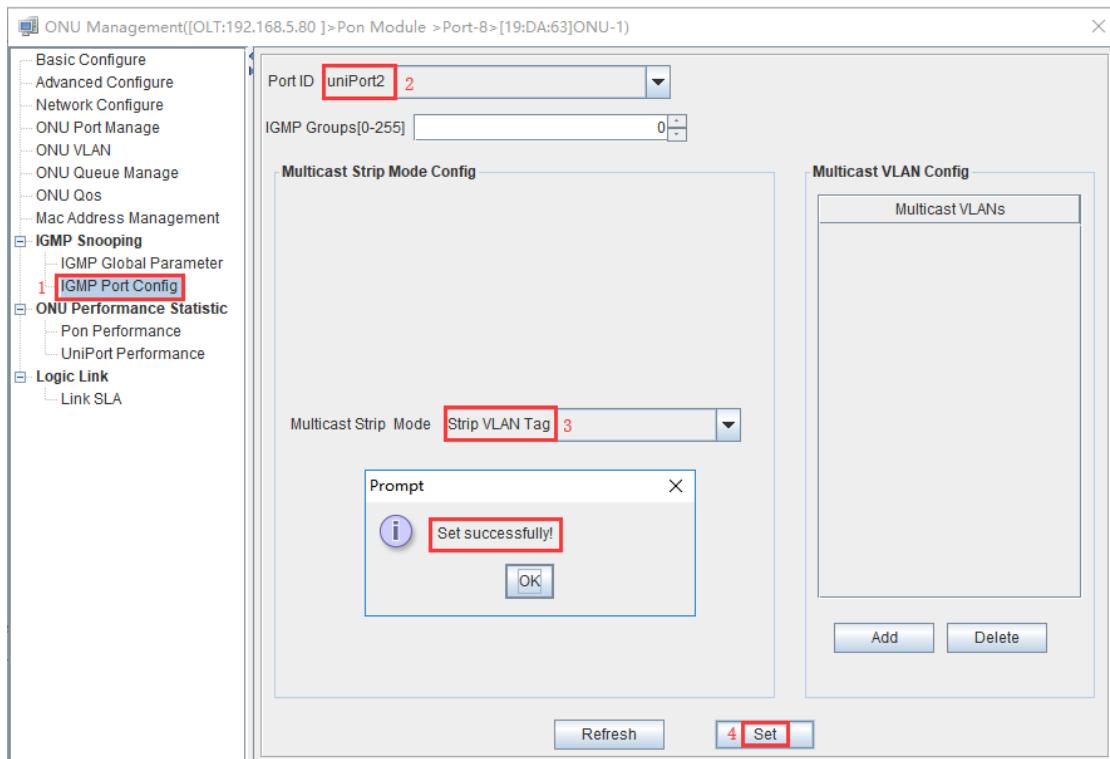
- OLT connect to uplink device and open service
- OLT have created vlan for multicast service
- OLT have configured GE port vlan
- OLT have configured PON port vlan
- ONU have registered

We need enter OLT to config ONU multicast service,configure way as follows:

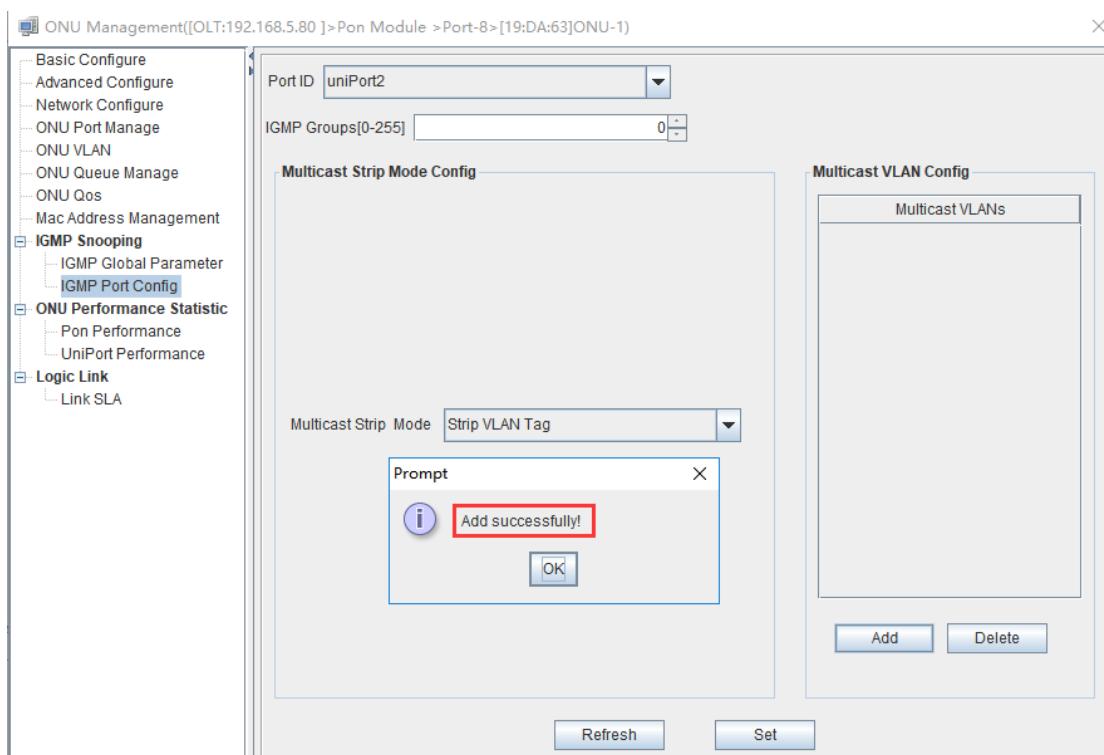
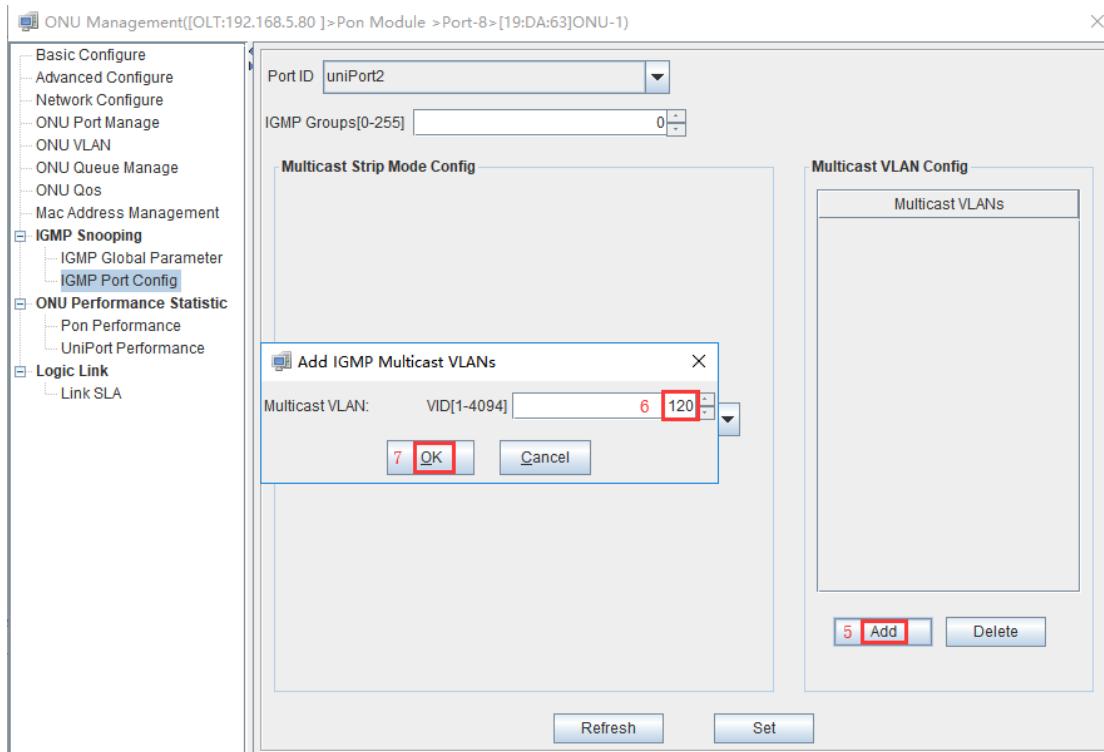
1. Click “**Pon Module --> Port-8 --> ONU-1 --> IGMP Global Parameter**” , and then config ONU1 multicast vlan mode is snooping and enable the fast leave:



2. Click “**Pon Module --> Port-8 --> ONU-1 --> IGMP Port Config**”, and then config ONU1 eth2 multicast mode is strip vlan tag:



3. Click “**Pon Module --> Port-8 --> ONU-1 --> IGMP Port Config**”, and then config ONU1 eth2 multicast vlan is 120:



## 9 Configure Service In OLT ---WEB Method

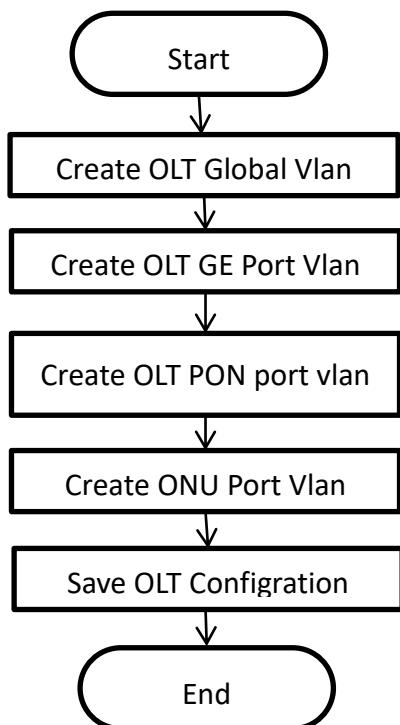
This section mainly introduce 4Port/8Port OLT internet service and multicast service in FTTH environment. The following will introduce the service configuration way for OLT and ONU

according to the bridge ONU(SFU).

## 9.1 Data Plan

| Main Data Plan List    |  |
|------------------------|--|
| Configuration Item     | Data   |
| VLAN Data              | <b>VLAN 110:</b> Internet Service<br><b>VLAN 120:</b> IPTV Service   |
| OLT Port Setting       | <b>Ge5:</b> VLAN 110 access mode<br><b>Ge6:</b> VLAN 120 access mode<br><b>PON8:</b> VLAN 110, VLAN 120 trunk mode |
| ONU Register ID        | <b>Bridge ONU ID:</b> 1  |
| Bridge ONU Port config | <b>LAN 1:</b> VLAN 110<br><b>LAN 2:</b> VLAN 120   |

## 9.2 Configuration Guide



## 9.3 Configure OLT Service

### 9.3.1 Configure OLT Global Vlan

Click the “Switching Board --> Vlan Manage” to enable the Vlan.

If the created vlan cannot meet the requirements, vlan can be created by clicking the “VLAN Manage”. According to the data planning, we create vlan110 and vlan120 firstly:

**xPON OLT**

Version: V1.2.0 Login-Mode: Administrator Language: English ▾ Exit

**Topology**

- test1
  - Main Board
  - **Switching Board** 1
  - PON Board
    - PON1 [ONU-1] [ONU-2] [ONU-3] [ONU-4] [ONU-5] [ONU-6] [ONU-7] [ONU-8]
    - PON2 [ONU-1] [ONU-2] [ONU-3] [ONU-4]
    - PON3 [ONU-1] [ONU-2] [ONU-3] [ONU-4]
    - PON4 [ONU-1] [ONU-2] [ONU-3] [ONU-4] [ONU-5] [ONU-6] [ONU-7] [ONU-8] [ONU-9]
    - PON5 [ONU-1] [ONU-2] [ONU-3] [ONU-4] [ONU-5] [ONU-6] [ONU-7] [ONU-8] [ONU-9] [ONU-10]
    - PON6 [ONU-1] [ONU-2] [ONU-3] [ONU-4] [ONU-5] [ONU-6] [ONU-7] [ONU-8] [ONU-9] [ONU-10] [ONU-11] [ONU-12] [ONU-13] [ONU-14] [ONU-15]
  - PON7
  - PON8

PATH:test1&gt;Switching Board&gt;VLAN Manage

- Switching Board
  - Switch-Config
  - Net Interface
  - Port Status
  - Port Property
  - Mac AddressList
  - Packet Suppress
  - Performance Statistics
  - **VLAN Manage** 2
  - TRUNK
  - RSTP
  - Port Mirror
  - IGMP Snooping

**VLAN Manage**VLANEnable: **enable** 3

| VALNID | Tagged Port              | Untagged Port  |
|--------|--------------------------|--|
| 1      |                          | ge1;ge2;ge3;ge4;ge5;ge6;ge7;ge8;pon1;pon2;pon3;pon4;pon5;pon6;pon7;pon8; |
| 10     | ge3;pon1;pon4;pon5;pon6; | ge1;ge5;   |
| 11     | pon1;                    | ge1;   |
| 14     | pon1;                    |  |
| 50     | pon8;                    | ge7;   |
| 55     | ge5;pon1;pon8;           | ge1;pon4;  |
| 1000   | pon8;                    | ge8;   |
| 2500   | pon8;                    | ge8;   |
| 3500   | pon8;                    | ge7;   |

refresh add 4 **set** First Next

**xPON OLT**

Version: V1.2.0 Login-Mode: Administrator Language: English ▾ Exit

**Topology**

- test1
  - Main Board
  - **Switching Board** 1
  - PON Board
    - PON1
    - PON2
    - PON3
    - PON4
    - PON5
    - PON6
    - PON7
    - PON8 [ONU-1] [ONU-2] [ONU-3] [ONU-4] [ONU-5] [ONU-6] [ONU-7] [ONU-8] [ONU-9] [ONU-10] [ONU-11] [ONU-12] [ONU-13] [ONU-14] [ONU-15]

PATH:test1&gt;Switching Board&gt;VLAN Manage

- Switching Board
  - Switch-Config
  - Net Interface
  - Port Status
  - Port Property
  - Mac AddressList
  - Packet Suppress
  - Performance Statistics
  - **VLAN Manage** 2
  - TRUNK
  - RSTP
  - Port Mirror
  - IGMP Snooping

**VLAN Manage**VLANEnable: **enable** 3

| VALNID | Tagged Port              | Untagged Port  |
|--------|--------------------------|--|
| 1      |                          | ge1;ge2;ge3;ge4;ge5;ge6;ge7;ge8;pon1;pon2;pon3;pon4;pon5;pon6;pon7;pon8; |
| 10     | ge3;pon1;pon4;pon5;pon6; | ge1;ge5;   |
| 11     | pon1;                    | ge1;   |
| 14     | pon1;                    |  |
| 50     | pon8;                    | ge7;   |
| 55     | ge5;pon1;pon8;           | ge1;pon4;  |
| 1000   | pon8;                    | ge8;   |
| 2500   | pon8;                    | ge8;   |
| 3500   | pon8;                    | ge7;   |

refresh 3 add set First Next

**xPON OLT**

Version: V1.2.0 Login-Mode: Administrator Language: English ▾ Exit

**Topology**

- test1
  - Main Board
  - **Switching Board**
  - PON Board
    - PON1 [ONU-1] [ONU-2] [ONU-3] [ONU-4] [ONU-5] [ONU-6] [ONU-7]
    - PON2 [ONU-1] [ONU-2] [ONU-3] [ONU-4]
    - PON3 [ONU-1] [ONU-2] [ONU-3] [ONU-4]
    - PON4 [ONU-1] [ONU-2]

PATH:test1&gt;Switching Board&gt;VLAN Manage

- Switching Board
  - Switch-Config
  - Net Interface
  - Port Status
  - Port Property
  - Mac AddressList
  - Packet Suppress
  - Performance Statistics
  - **VLAN Manage** 4
  - TRUNK
  - RSTP
  - Port Mirror
  - IGMP Snooping

**VLAN Manage**vlanIndex: **110** 4

| Egress port |      |      |      | untagged port |      |      |      |
|-------------|------|------|------|---------------|------|------|------|
| GE1         | GE2  | GE3  | GE4  | GE1           | GE2  | GE3  | GE4  |
| GE5         | GE6  | GE7  | GE8  | GE5           | GE6  | GE7  | GE8  |
| PON1        | PON2 | PON3 | PON4 | PON1          | PON2 | PON3 | PON4 |
| PON5        | PON6 | PON7 | PON8 | PON5          | PON6 | PON7 | PON8 |

5 **set** refresh return

**xPON OLT**

Version: V1.2.0 Login-Mode: Administrator Language: English ▾

| Topology  |  | PATH:test1>Switching Board>VLAN Manage   |           |             |               |           |            |    |                          |          |      |        |    |       |      |      |        |    |                |           |      |        |     |  |  |      |        |      |       |      |      |        |      |       |      |      |        |      |       |      |      |        |
|---|--|--|-----------|-------------|---------------|-----------|------------|----|--------------------------|----------|------|--------|----|-------|------|------|--------|----|----------------|-----------|------|--------|-----|--|--|------|--------|------|-------|------|------|--------|------|-------|------|------|--------|------|-------|------|------|--------|
| <ul style="list-style-type: none"> <li>- test1           <ul style="list-style-type: none"> <li>- Main Board</li> <li>- <b>Switching Board</b></li> </ul> </li> <li>- PON Board           <ul style="list-style-type: none"> <li>- PON1</li> <li>- PON2</li> <li>- PON3</li> <li>- PON4</li> <li>- PON5</li> <li>- PON6</li> <li>- PON7</li> <li>- PON8               <ul style="list-style-type: none"> <li>[ONU-1]</li> <li>[ONU-2]</li> <li>[ONU-3]</li> <li>[ONU-4]</li> <li>[ONU-5]</li> <li>[ONU-6]</li> <li>[ONU-7]</li> <li>[ONU-8]</li> <li>[ONU-9]</li> <li>[ONU-10]</li> <li>[ONU-11]</li> <li>[ONU-12]</li> <li>[ONU-13]</li> <li>[ONU-14]</li> <li>[ONU-15]</li> </ul> </li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>- Switching Board           <ul style="list-style-type: none"> <li>- Switch-Config</li> <li>- Net Interface</li> <li>- Port Status</li> <li>- Port Property</li> <li>- Mac AddressList</li> <li>- Packet Suppress</li> <li>- Performance Statistics</li> <li>- <b>VLAN Manage</b></li> <li>- TRUNK</li> <li>- RSTP</li> <li>- Port Mirror</li> <li>- IGMP Snooping</li> </ul> </li> </ul> | <h3>VLAN Manage</h3> <p>VLANEnable: enable ▾</p> <table border="1"> <thead> <tr> <th>VALNID</th> <th>Tagged Port</th> <th>Untagged Port</th> <th>vlan-edit</th> <th>vlan-clear</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>ge3;pon1;pon4;pon5;pon6;</td> <td>ge1;ge5;</td> <td>edit</td> <td>delete</td> </tr> <tr> <td>50</td> <td>pon8;</td> <td>ge7;</td> <td>edit</td> <td>delete</td> </tr> <tr> <td>55</td> <td>ge5;pon1;pon8;</td> <td>ge1;pon4;</td> <td>edit</td> <td>delete</td> </tr> <tr> <td>110</td> <td></td> <td></td> <td>edit</td> <td>delete</td> </tr> <tr> <td>1000</td> <td>pon8;</td> <td>ge8;</td> <td>edit</td> <td>delete</td> </tr> <tr> <td>2500</td> <td>pon8;</td> <td>ge8;</td> <td>edit</td> <td>delete</td> </tr> <tr> <td>3500</td> <td>pon8;</td> <td>ge7;</td> <td>edit</td> <td>delete</td> </tr> </tbody> </table> <p>refresh  set First Next</p> | VALNID    | Tagged Port | Untagged Port | vlan-edit | vlan-clear | 10 | ge3;pon1;pon4;pon5;pon6; | ge1;ge5; | edit | delete | 50 | pon8; | ge7; | edit | delete | 55 | ge5;pon1;pon8; | ge1;pon4; | edit | delete | 110 |  |  | edit | delete | 1000 | pon8; | ge8; | edit | delete | 2500 | pon8; | ge8; | edit | delete | 3500 | pon8; | ge7; | edit | delete |
| VALNID  | Tagged Port  | Untagged Port  | vlan-edit | vlan-clear  |               |           |            |    |                          |          |      |        |    |       |      |      |        |    |                |           |      |        |     |  |  |      |        |      |       |      |      |        |      |       |      |      |        |      |       |      |      |        |
| 10  | ge3;pon1;pon4;pon5;pon6;   | ge1;ge5;   | edit      | delete      |               |           |            |    |                          |          |      |        |    |       |      |      |        |    |                |           |      |        |     |  |  |      |        |      |       |      |      |        |      |       |      |      |        |      |       |      |      |        |
| 50  | pon8;  | ge7;   | edit      | delete      |               |           |            |    |                          |          |      |        |    |       |      |      |        |    |                |           |      |        |     |  |  |      |        |      |       |      |      |        |      |       |      |      |        |      |       |      |      |        |
| 55  | ge5;pon1;pon8;   | ge1;pon4;  | edit      | delete      |               |           |            |    |                          |          |      |        |    |       |      |      |        |    |                |           |      |        |     |  |  |      |        |      |       |      |      |        |      |       |      |      |        |      |       |      |      |        |
| 110   |  |  | edit      | delete      |               |           |            |    |                          |          |      |        |    |       |      |      |        |    |                |           |      |        |     |  |  |      |        |      |       |      |      |        |      |       |      |      |        |      |       |      |      |        |
| 1000  | pon8;  | ge8;   | edit      | delete      |               |           |            |    |                          |          |      |        |    |       |      |      |        |    |                |           |      |        |     |  |  |      |        |      |       |      |      |        |      |       |      |      |        |      |       |      |      |        |
| 2500  | pon8;  | ge8;   | edit      | delete      |               |           |            |    |                          |          |      |        |    |       |      |      |        |    |                |           |      |        |     |  |  |      |        |      |       |      |      |        |      |       |      |      |        |      |       |      |      |        |
| 3500  | pon8;  | ge7;   | edit      | delete      |               |           |            |    |                          |          |      |        |    |       |      |      |        |    |                |           |      |        |     |  |  |      |        |      |       |      |      |        |      |       |      |      |        |      |       |      |      |        |

**xPON OLT**

Version: V1.2.0 Login-Mode: Administrator Language: English ▾

| Topology  |  | PATH:test1>Switching Board>VLAN Manage   |                               |                               |                               |                               |                               |  |  |  |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |
|---|--|--|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--|--|--|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| <ul style="list-style-type: none"> <li>- test1           <ul style="list-style-type: none"> <li>- Main Board</li> <li>- <b>Switching Board</b></li> </ul> </li> <li>- PON Board           <ul style="list-style-type: none"> <li>- PON1</li> <li>- PON2</li> <li>- PON3</li> <li>- PON4</li> <li>- PON5</li> <li>- PON6</li> <li>- PON7</li> <li>- PON8               <ul style="list-style-type: none"> <li>[ONU-1]</li> <li>[ONU-2]</li> <li>[ONU-3]</li> <li>[ONU-4]</li> <li>[ONU-5]</li> <li>[ONU-6]</li> <li>[ONU-7]</li> <li>[ONU-8]</li> <li>[ONU-9]</li> </ul> </li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>- Switching Board           <ul style="list-style-type: none"> <li>- Switch-Config</li> <li>- Net Interface</li> <li>- Port Status</li> <li>- Port Property</li> <li>- Mac AddressList</li> <li>- Packet Suppress</li> <li>- Performance Statistics</li> <li>- <b>VLAN Manage</b></li> <li>- TRUNK</li> <li>- RSTP</li> <li>- Port Mirror</li> <li>- IGMP Snooping</li> </ul> </li> </ul> | <h3>VLAN Manage</h3> <p>vlanIndex: <b>120</b> </p> <table border="1"> <thead> <tr> <th colspan="4">Egress port</th> <th colspan="4">untagged port</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> GE1</td> <td><input type="checkbox"/> GE2</td> <td><input type="checkbox"/> GE3</td> <td><input type="checkbox"/> GE4</td> <td><input type="checkbox"/> GE1</td> <td><input type="checkbox"/> GE2</td> <td><input type="checkbox"/> GE3</td> <td><input type="checkbox"/> GE4</td> </tr> <tr> <td><input type="checkbox"/> GE5</td> <td><input type="checkbox"/> GE6</td> <td><input type="checkbox"/> GE7</td> <td><input type="checkbox"/> GE8</td> <td><input type="checkbox"/> GE5</td> <td><input type="checkbox"/> GE6</td> <td><input type="checkbox"/> GE7</td> <td><input type="checkbox"/> GE8</td> </tr> <tr> <td><input type="checkbox"/> PON1</td> <td><input type="checkbox"/> PON2</td> <td><input type="checkbox"/> PON3</td> <td><input type="checkbox"/> PON4</td> <td><input type="checkbox"/> PON1</td> <td><input type="checkbox"/> PON2</td> <td><input type="checkbox"/> PON3</td> <td><input type="checkbox"/> PON4</td> </tr> <tr> <td><input type="checkbox"/> PON5</td> <td><input type="checkbox"/> PON6</td> <td><input type="checkbox"/> PON7</td> <td><input type="checkbox"/> PON8</td> <td><input type="checkbox"/> PON5</td> <td><input type="checkbox"/> PON6</td> <td><input type="checkbox"/> PON7</td> <td><input type="checkbox"/> PON8</td> </tr> </tbody> </table> <p>3  refresh return</p> | Egress port                   |                               |                               |                               | untagged port                 |  |  |  | <input type="checkbox"/> GE1 | <input type="checkbox"/> GE2 | <input type="checkbox"/> GE3 | <input type="checkbox"/> GE4 | <input type="checkbox"/> GE1 | <input type="checkbox"/> GE2 | <input type="checkbox"/> GE3 | <input type="checkbox"/> GE4 | <input type="checkbox"/> GE5 | <input type="checkbox"/> GE6 | <input type="checkbox"/> GE7 | <input type="checkbox"/> GE8 | <input type="checkbox"/> GE5 | <input type="checkbox"/> GE6 | <input type="checkbox"/> GE7 | <input type="checkbox"/> GE8 | <input type="checkbox"/> PON1 | <input type="checkbox"/> PON2 | <input type="checkbox"/> PON3 | <input type="checkbox"/> PON4 | <input type="checkbox"/> PON1 | <input type="checkbox"/> PON2 | <input type="checkbox"/> PON3 | <input type="checkbox"/> PON4 | <input type="checkbox"/> PON5 | <input type="checkbox"/> PON6 | <input type="checkbox"/> PON7 | <input type="checkbox"/> PON8 | <input type="checkbox"/> PON5 | <input type="checkbox"/> PON6 | <input type="checkbox"/> PON7 | <input type="checkbox"/> PON8 |
| Egress port   |  |  |                               | untagged port                 |                               |                               |                               |  |  |  |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |
| <input type="checkbox"/> GE1  | <input type="checkbox"/> GE2   | <input type="checkbox"/> GE3   | <input type="checkbox"/> GE4  | <input type="checkbox"/> GE1  | <input type="checkbox"/> GE2  | <input type="checkbox"/> GE3  | <input type="checkbox"/> GE4  |  |  |  |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |
| <input type="checkbox"/> GE5  | <input type="checkbox"/> GE6   | <input type="checkbox"/> GE7   | <input type="checkbox"/> GE8  | <input type="checkbox"/> GE5  | <input type="checkbox"/> GE6  | <input type="checkbox"/> GE7  | <input type="checkbox"/> GE8  |  |  |  |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |
| <input type="checkbox"/> PON1   | <input type="checkbox"/> PON2  | <input type="checkbox"/> PON3  | <input type="checkbox"/> PON4 | <input type="checkbox"/> PON1 | <input type="checkbox"/> PON2 | <input type="checkbox"/> PON3 | <input type="checkbox"/> PON4 |  |  |  |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |
| <input type="checkbox"/> PON5   | <input type="checkbox"/> PON6  | <input type="checkbox"/> PON7  | <input type="checkbox"/> PON8 | <input type="checkbox"/> PON5 | <input type="checkbox"/> PON6 | <input type="checkbox"/> PON7 | <input type="checkbox"/> PON8 |  |  |  |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                              |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |

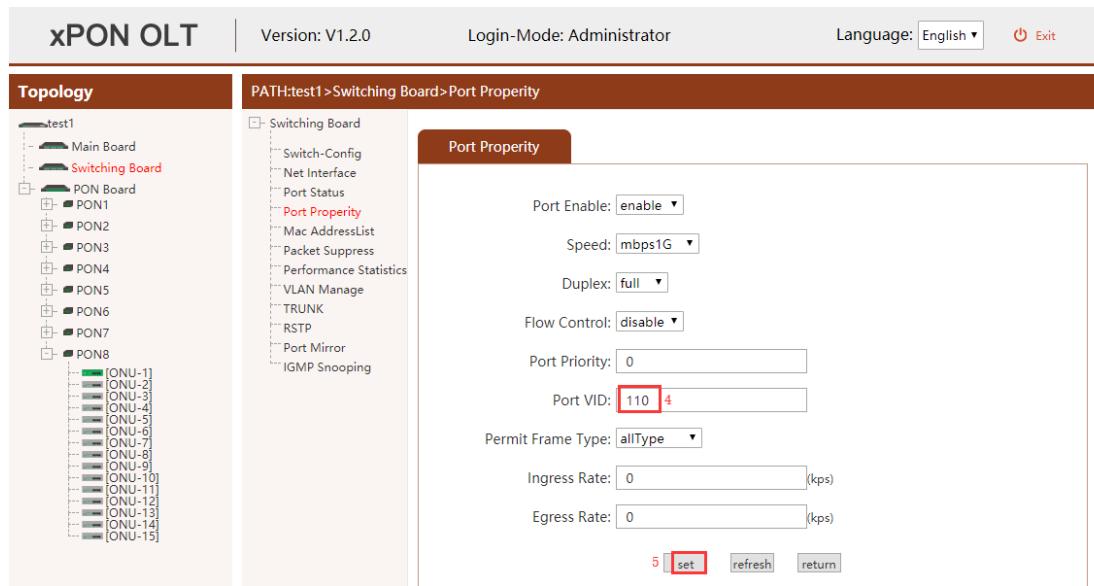
### 9.3.2 Configure OLT GE Port Service Vlan

1. Click “Switching Board --> Port Property” ,and then config GE 5 port pvid is 110 :

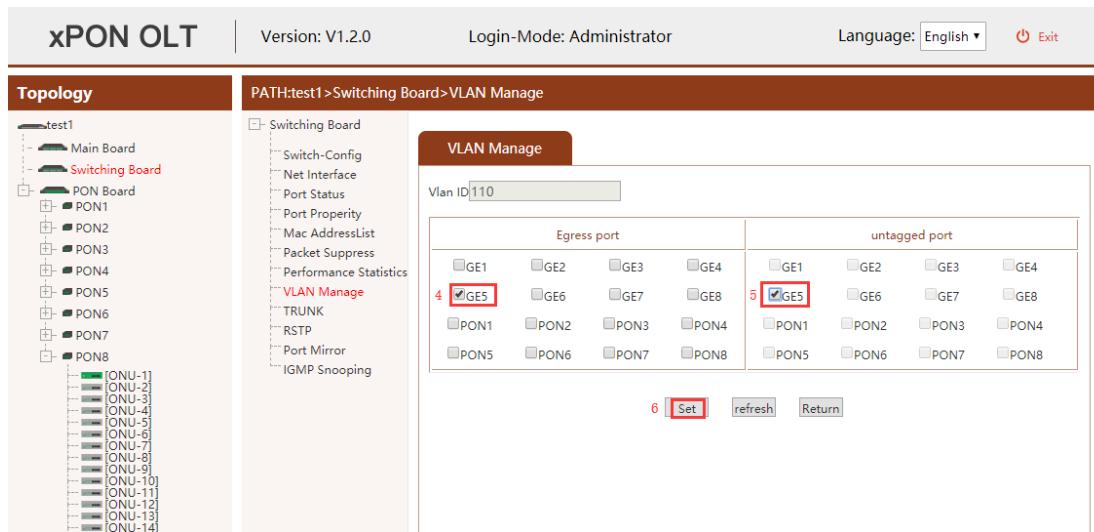
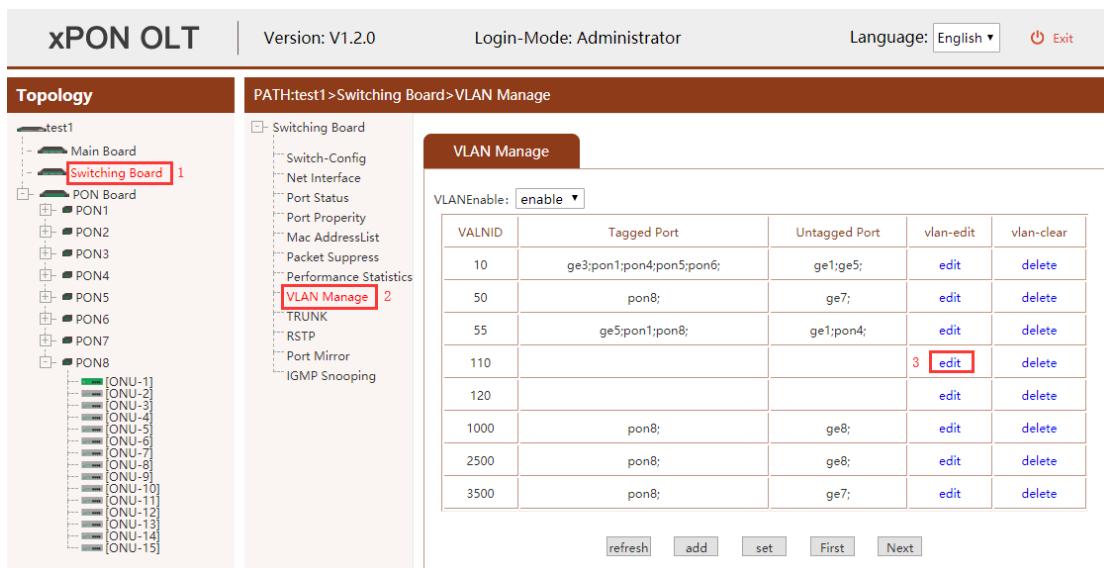
**xPON OLT**

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| Topology   |  | PATH:test1>Switching Board>Port Property  |         |             |      |            |             |             |            |             |             |            |           |   |      |      |         |   |    |        |         |   |   |      |   |      |      |         |   |   |        |         |   |   |      |   |      |      |         |   |   |        |         |   |   |      |   |      |      |         |   |   |        |         |   |   |      |   |      |      |         |   |   |        |         |   |   |   |   |      |      |         |   |   |        |         |   |   |      |   |     |      |         |   |    |        |         |   |   |      |   |      |      |         |   |      |        |         |   |   |      |
|--|--|---|---------|-------------|------|------------|-------------|-------------|------------|-------------|-------------|------------|-----------|---|------|------|---------|---|----|--------|---------|---|---|------|---|------|------|---------|---|---|--------|---------|---|---|------|---|------|------|---------|---|---|--------|---------|---|---|------|---|------|------|---------|---|---|--------|---------|---|---|------|---|------|------|---------|---|---|--------|---------|---|---|---|---|------|------|---------|---|---|--------|---------|---|---|------|---|-----|------|---------|---|----|--------|---------|---|---|------|---|------|------|---------|---|------|--------|---------|---|---|------|
| <ul style="list-style-type: none"> <li>- test1           <ul style="list-style-type: none"> <li>- Main Board</li> <li>- <b>Switching Board</b> </li> </ul> </li> <li>- PON Board           <ul style="list-style-type: none"> <li>- PON1</li> <li>- PON2</li> <li>- PON3</li> <li>- PON4</li> <li>- PON5</li> <li>- PON6</li> <li>- PON7</li> <li>- PON8               <ul style="list-style-type: none"> <li>[ONU-1]</li> <li>[ONU-2]</li> <li>[ONU-3]</li> <li>[ONU-4]</li> <li>[ONU-5]</li> <li>[ONU-6]</li> <li>[ONU-7]</li> <li>[ONU-8]</li> <li>[ONU-9]</li> <li>[ONU-10]</li> <li>[ONU-11]</li> <li>[ONU-12]</li> <li>[ONU-13]</li> </ul> </li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>- Switching Board           <ul style="list-style-type: none"> <li>- Switch-Config</li> <li>- Net Interface</li> <li>- Port Status</li> <li>- <b>Port Property</b></li> <li>- Mac AddressList</li> <li>- Packet Suppress</li> <li>- Performance Statistics</li> <li>- VLAN Manage</li> <li>- TRUNK</li> <li>- RSTP</li> <li>- Port Mirror</li> <li>- IGMP Snooping</li> </ul> </li> </ul> | <h3>Port Property</h3> <table border="1"> <thead> <tr> <th>portId</th> <th>speed(mbps)</th> <th>dup</th> <th>flowCtl</th> <th>pri</th> <th>PVID</th> <th>portEnable</th> <th>perFramtype</th> <th>ingressRate</th> <th>egressRate</th> <th>Operation</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1000</td> <td>full</td> <td>disable</td> <td>0</td> <td>11</td> <td>enable</td> <td>allType</td> <td>0</td> <td>0</td> <td>edit</td> </tr> <tr> <td>2</td> <td>1000</td> <td>full</td> <td>disable</td> <td>0</td> <td>1</td> <td>enable</td> <td>allType</td> <td>0</td> <td>0</td> <td>edit</td> </tr> <tr> <td>3</td> <td>1000</td> <td>full</td> <td>disable</td> <td>0</td> <td>1</td> <td>enable</td> <td>allType</td> <td>0</td> <td>0</td> <td>edit</td> </tr> <tr> <td>4</td> <td>1000</td> <td>full</td> <td>disable</td> <td>0</td> <td>1</td> <td>enable</td> <td>allType</td> <td>0</td> <td>0</td> <td>edit</td> </tr> <tr> <td>5</td> <td>1000</td> <td>full</td> <td>disable</td> <td>0</td> <td>1</td> <td>enable</td> <td>allType</td> <td>0</td> <td>0</td> <td>3 </td> </tr> <tr> <td>6</td> <td>1000</td> <td>full</td> <td>disable</td> <td>0</td> <td>1</td> <td>enable</td> <td>allType</td> <td>0</td> <td>0</td> <td>edit</td> </tr> <tr> <td>7</td> <td>100</td> <td>full</td> <td>disable</td> <td>0</td> <td>50</td> <td>enable</td> <td>allType</td> <td>0</td> <td>0</td> <td>edit</td> </tr> <tr> <td>8</td> <td>1000</td> <td>full</td> <td>disable</td> <td>0</td> <td>2500</td> <td>enable</td> <td>allType</td> <td>0</td> <td>0</td> <td>edit</td> </tr> </tbody> </table> <p>refresh</p> | portId  | speed(mbps) | dup  | flowCtl    | pri         | PVID        | portEnable | perFramtype | ingressRate | egressRate | Operation | 1 | 1000 | full | disable | 0 | 11 | enable | allType | 0 | 0 | edit | 2 | 1000 | full | disable | 0 | 1 | enable | allType | 0 | 0 | edit | 3 | 1000 | full | disable | 0 | 1 | enable | allType | 0 | 0 | edit | 4 | 1000 | full | disable | 0 | 1 | enable | allType | 0 | 0 | edit | 5 | 1000 | full | disable | 0 | 1 | enable | allType | 0 | 0 | 3 | 6 | 1000 | full | disable | 0 | 1 | enable | allType | 0 | 0 | edit | 7 | 100 | full | disable | 0 | 50 | enable | allType | 0 | 0 | edit | 8 | 1000 | full | disable | 0 | 2500 | enable | allType | 0 | 0 | edit |
| portId   | speed(mbps)  | dup   | flowCtl | pri         | PVID | portEnable | perFramtype | ingressRate | egressRate | Operation   |             |            |           |   |      |      |         |   |    |        |         |   |   |      |   |      |      |         |   |   |        |         |   |   |      |   |      |      |         |   |   |        |         |   |   |      |   |      |      |         |   |   |        |         |   |   |      |   |      |      |         |   |   |        |         |   |   |   |   |      |      |         |   |   |        |         |   |   |      |   |     |      |         |   |    |        |         |   |   |      |   |      |      |         |   |      |        |         |   |   |      |
| 1  | 1000   | full  | disable | 0           | 11   | enable     | allType     | 0           | 0          | edit        |             |            |           |   |      |      |         |   |    |        |         |   |   |      |   |      |      |         |   |   |        |         |   |   |      |   |      |      |         |   |   |        |         |   |   |      |   |      |      |         |   |   |        |         |   |   |      |   |      |      |         |   |   |        |         |   |   |   |   |      |      |         |   |   |        |         |   |   |      |   |     |      |         |   |    |        |         |   |   |      |   |      |      |         |   |      |        |         |   |   |      |
| 2  | 1000   | full  | disable | 0           | 1    | enable     | allType     | 0           | 0          | edit        |             |            |           |   |      |      |         |   |    |        |         |   |   |      |   |      |      |         |   |   |        |         |   |   |      |   |      |      |         |   |   |        |         |   |   |      |   |      |      |         |   |   |        |         |   |   |      |   |      |      |         |   |   |        |         |   |   |   |   |      |      |         |   |   |        |         |   |   |      |   |     |      |         |   |    |        |         |   |   |      |   |      |      |         |   |      |        |         |   |   |      |
| 3  | 1000   | full  | disable | 0           | 1    | enable     | allType     | 0           | 0          | edit        |             |            |           |   |      |      |         |   |    |        |         |   |   |      |   |      |      |         |   |   |        |         |   |   |      |   |      |      |         |   |   |        |         |   |   |      |   |      |      |         |   |   |        |         |   |   |      |   |      |      |         |   |   |        |         |   |   |   |   |      |      |         |   |   |        |         |   |   |      |   |     |      |         |   |    |        |         |   |   |      |   |      |      |         |   |      |        |         |   |   |      |
| 4  | 1000   | full  | disable | 0           | 1    | enable     | allType     | 0           | 0          | edit        |             |            |           |   |      |      |         |   |    |        |         |   |   |      |   |      |      |         |   |   |        |         |   |   |      |   |      |      |         |   |   |        |         |   |   |      |   |      |      |         |   |   |        |         |   |   |      |   |      |      |         |   |   |        |         |   |   |   |   |      |      |         |   |   |        |         |   |   |      |   |     |      |         |   |    |        |         |   |   |      |   |      |      |         |   |      |        |         |   |   |      |
| 5  | 1000   | full  | disable | 0           | 1    | enable     | allType     | 0           | 0          | 3           |             |            |           |   |      |      |         |   |    |        |         |   |   |      |   |      |      |         |   |   |        |         |   |   |      |   |      |      |         |   |   |        |         |   |   |      |   |      |      |         |   |   |        |         |   |   |      |   |      |      |         |   |   |        |         |   |   |   |   |      |      |         |   |   |        |         |   |   |      |   |     |      |         |   |    |        |         |   |   |      |   |      |      |         |   |      |        |         |   |   |      |
| 6  | 1000   | full  | disable | 0           | 1    | enable     | allType     | 0           | 0          | edit        |             |            |           |   |      |      |         |   |    |        |         |   |   |      |   |      |      |         |   |   |        |         |   |   |      |   |      |      |         |   |   |        |         |   |   |      |   |      |      |         |   |   |        |         |   |   |      |   |      |      |         |   |   |        |         |   |   |   |   |      |      |         |   |   |        |         |   |   |      |   |     |      |         |   |    |        |         |   |   |      |   |      |      |         |   |      |        |         |   |   |      |
| 7  | 100  | full  | disable | 0           | 50   | enable     | allType     | 0           | 0          | edit        |             |            |           |   |      |      |         |   |    |        |         |   |   |      |   |      |      |         |   |   |        |         |   |   |      |   |      |      |         |   |   |        |         |   |   |      |   |      |      |         |   |   |        |         |   |   |      |   |      |      |         |   |   |        |         |   |   |   |   |      |      |         |   |   |        |         |   |   |      |   |     |      |         |   |    |        |         |   |   |      |   |      |      |         |   |      |        |         |   |   |      |
| 8  | 1000   | full  | disable | 0           | 2500 | enable     | allType     | 0           | 0          | edit        |             |            |           |   |      |      |         |   |    |        |         |   |   |      |   |      |      |         |   |   |        |         |   |   |      |   |      |      |         |   |   |        |         |   |   |      |   |      |      |         |   |   |        |         |   |   |      |   |      |      |         |   |   |        |         |   |   |   |   |      |      |         |   |   |        |         |   |   |      |   |     |      |         |   |    |        |         |   |   |      |   |      |      |         |   |      |        |         |   |   |      |



2. Click “Switching Board --> VLAN Manage” ,and then add vlan 110 to GE 5 port untag :



3. Click “Switching Board --> Port Property” ,and then config GE 6 port pvid is 120 :

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| Topology  |             | PATH: test1 > Switching Board > Port Property  |         |     |      |            |              |             |            |           |  |  |        |             |     |         |     |      |            |              |             |            |           |   |      |      |         |   |    |        |         |   |   |  |   |      |      |         |   |   |        |         |   |   |  |   |      |      |         |   |   |        |         |   |   |  |   |      |      |         |   |   |        |         |   |   |  |   |      |      |         |   |     |        |         |   |   |  |   |      |      |         |   |   |        |         |   |   |   |   |     |      |         |   |    |        |         |   |   |  |   |      |      |         |   |      |        |         |   |   |  |
|---|-------------|--|---------|-----|------|------------|--------------|-------------|------------|-----------|--|--|--------|-------------|-----|---------|-----|------|------------|--------------|-------------|------------|-----------|---|------|------|---------|---|----|--------|---------|---|---|--|---|------|------|---------|---|---|--------|---------|---|---|--|---|------|------|---------|---|---|--------|---------|---|---|--|---|------|------|---------|---|---|--------|---------|---|---|--|---|------|------|---------|---|-----|--------|---------|---|---|--|---|------|------|---------|---|---|--------|---------|---|---|---|---|-----|------|---------|---|----|--------|---------|---|---|--|---|------|------|---------|---|------|--------|---------|---|---|--|
| <ul style="list-style-type: none"> <li>- Main Board</li> <li>- <b>Switching Board</b> 1</li> <li>- PON Board           <ul style="list-style-type: none"> <li>- PON1</li> <li>- PON2</li> <li>- PON3</li> <li>- PON4</li> <li>- PON5</li> <li>- PON6</li> <li>- PON7</li> <li>- PON8           <ul style="list-style-type: none"> <li>[ONU-1]</li> <li>[ONU-2]</li> <li>[ONU-3]</li> <li>[ONU-4]</li> <li>[ONU-5]</li> <li>[ONU-6]</li> <li>[ONU-7]</li> <li>[ONU-8]</li> <li>[ONU-9]</li> <li>[ONU-10]</li> <li>[ONU-11]</li> <li>[ONU-12]</li> <li>[ONU-13]</li> <li>[ONU-14]</li> <li>[ONU-15]</li> </ul> </li> </ul> </li> </ul> <th colspan="11"> <b>Port Property</b><br/> <table border="1"> <thead> <tr> <th>portId</th> <th>speed(mbps)</th> <th>dup</th> <th>flowCtl</th> <th>pri</th> <th>PVID</th> <th>portEnable</th> <th>perFrametype</th> <th>ingressRate</th> <th>egressRate</th> <th>Operation</th> </tr> </thead> <tbody> <tr><td>1</td><td>1000</td><td>full</td><td>disable</td><td>0</td><td>11</td><td>enable</td><td>allType</td><td>0</td><td>0</td><td></td></tr> <tr><td>2</td><td>1000</td><td>full</td><td>disable</td><td>0</td><td>1</td><td>enable</td><td>allType</td><td>0</td><td>0</td><td></td></tr> <tr><td>3</td><td>1000</td><td>full</td><td>disable</td><td>0</td><td>1</td><td>enable</td><td>allType</td><td>0</td><td>0</td><td></td></tr> <tr><td>4</td><td>1000</td><td>full</td><td>disable</td><td>0</td><td>1</td><td>enable</td><td>allType</td><td>0</td><td>0</td><td></td></tr> <tr><td>5</td><td>1000</td><td>full</td><td>disable</td><td>0</td><td>110</td><td>enable</td><td>allType</td><td>0</td><td>0</td><td></td></tr> <tr><td>6</td><td>1000</td><td>full</td><td>disable</td><td>0</td><td>1</td><td>enable</td><td>allType</td><td>0</td><td>0</td><td>3 </td></tr> <tr><td>7</td><td>100</td><td>full</td><td>disable</td><td>0</td><td>50</td><td>enable</td><td>allType</td><td>0</td><td>0</td><td></td></tr> <tr><td>8</td><td>1000</td><td>full</td><td>disable</td><td>0</td><td>2500</td><td>enable</td><td>allType</td><td>0</td><td>0</td><td></td></tr> </tbody> </table> </th> |             | <b>Port Property</b><br><table border="1"> <thead> <tr> <th>portId</th> <th>speed(mbps)</th> <th>dup</th> <th>flowCtl</th> <th>pri</th> <th>PVID</th> <th>portEnable</th> <th>perFrametype</th> <th>ingressRate</th> <th>egressRate</th> <th>Operation</th> </tr> </thead> <tbody> <tr><td>1</td><td>1000</td><td>full</td><td>disable</td><td>0</td><td>11</td><td>enable</td><td>allType</td><td>0</td><td>0</td><td></td></tr> <tr><td>2</td><td>1000</td><td>full</td><td>disable</td><td>0</td><td>1</td><td>enable</td><td>allType</td><td>0</td><td>0</td><td></td></tr> <tr><td>3</td><td>1000</td><td>full</td><td>disable</td><td>0</td><td>1</td><td>enable</td><td>allType</td><td>0</td><td>0</td><td></td></tr> <tr><td>4</td><td>1000</td><td>full</td><td>disable</td><td>0</td><td>1</td><td>enable</td><td>allType</td><td>0</td><td>0</td><td></td></tr> <tr><td>5</td><td>1000</td><td>full</td><td>disable</td><td>0</td><td>110</td><td>enable</td><td>allType</td><td>0</td><td>0</td><td></td></tr> <tr><td>6</td><td>1000</td><td>full</td><td>disable</td><td>0</td><td>1</td><td>enable</td><td>allType</td><td>0</td><td>0</td><td>3 </td></tr> <tr><td>7</td><td>100</td><td>full</td><td>disable</td><td>0</td><td>50</td><td>enable</td><td>allType</td><td>0</td><td>0</td><td></td></tr> <tr><td>8</td><td>1000</td><td>full</td><td>disable</td><td>0</td><td>2500</td><td>enable</td><td>allType</td><td>0</td><td>0</td><td></td></tr> </tbody> </table> |         |     |      |            |              |             |            |           |  |  | portId | speed(mbps) | dup | flowCtl | pri | PVID | portEnable | perFrametype | ingressRate | egressRate | Operation | 1 | 1000 | full | disable | 0 | 11 | enable | allType | 0 | 0 |  | 2 | 1000 | full | disable | 0 | 1 | enable | allType | 0 | 0 |  | 3 | 1000 | full | disable | 0 | 1 | enable | allType | 0 | 0 |  | 4 | 1000 | full | disable | 0 | 1 | enable | allType | 0 | 0 |  | 5 | 1000 | full | disable | 0 | 110 | enable | allType | 0 | 0 |  | 6 | 1000 | full | disable | 0 | 1 | enable | allType | 0 | 0 | 3 | 7 | 100 | full | disable | 0 | 50 | enable | allType | 0 | 0 |  | 8 | 1000 | full | disable | 0 | 2500 | enable | allType | 0 | 0 |  |
| portId  | speed(mbps) | dup  | flowCtl | pri | PVID | portEnable | perFrametype | ingressRate | egressRate | Operation |  |  |        |             |     |         |     |      |            |              |             |            |           |   |      |      |         |   |    |        |         |   |   |  |   |      |      |         |   |   |        |         |   |   |  |   |      |      |         |   |   |        |         |   |   |  |   |      |      |         |   |   |        |         |   |   |  |   |      |      |         |   |     |        |         |   |   |  |   |      |      |         |   |   |        |         |   |   |   |   |     |      |         |   |    |        |         |   |   |  |   |      |      |         |   |      |        |         |   |   |  |
| 1   | 1000        | full   | disable | 0   | 11   | enable     | allType      | 0           | 0          |           |  |  |        |             |     |         |     |      |            |              |             |            |           |   |      |      |         |   |    |        |         |   |   |  |   |      |      |         |   |   |        |         |   |   |  |   |      |      |         |   |   |        |         |   |   |  |   |      |      |         |   |   |        |         |   |   |  |   |      |      |         |   |     |        |         |   |   |  |   |      |      |         |   |   |        |         |   |   |   |   |     |      |         |   |    |        |         |   |   |  |   |      |      |         |   |      |        |         |   |   |  |
| 2   | 1000        | full   | disable | 0   | 1    | enable     | allType      | 0           | 0          |           |  |  |        |             |     |         |     |      |            |              |             |            |           |   |      |      |         |   |    |        |         |   |   |  |   |      |      |         |   |   |        |         |   |   |  |   |      |      |         |   |   |        |         |   |   |  |   |      |      |         |   |   |        |         |   |   |  |   |      |      |         |   |     |        |         |   |   |  |   |      |      |         |   |   |        |         |   |   |   |   |     |      |         |   |    |        |         |   |   |  |   |      |      |         |   |      |        |         |   |   |  |
| 3   | 1000        | full   | disable | 0   | 1    | enable     | allType      | 0           | 0          |           |  |  |        |             |     |         |     |      |            |              |             |            |           |   |      |      |         |   |    |        |         |   |   |  |   |      |      |         |   |   |        |         |   |   |  |   |      |      |         |   |   |        |         |   |   |  |   |      |      |         |   |   |        |         |   |   |  |   |      |      |         |   |     |        |         |   |   |  |   |      |      |         |   |   |        |         |   |   |   |   |     |      |         |   |    |        |         |   |   |  |   |      |      |         |   |      |        |         |   |   |  |
| 4   | 1000        | full   | disable | 0   | 1    | enable     | allType      | 0           | 0          |           |  |  |        |             |     |         |     |      |            |              |             |            |           |   |      |      |         |   |    |        |         |   |   |  |   |      |      |         |   |   |        |         |   |   |  |   |      |      |         |   |   |        |         |   |   |  |   |      |      |         |   |   |        |         |   |   |  |   |      |      |         |   |     |        |         |   |   |  |   |      |      |         |   |   |        |         |   |   |   |   |     |      |         |   |    |        |         |   |   |  |   |      |      |         |   |      |        |         |   |   |  |
| 5   | 1000        | full   | disable | 0   | 110  | enable     | allType      | 0           | 0          |           |  |  |        |             |     |         |     |      |            |              |             |            |           |   |      |      |         |   |    |        |         |   |   |  |   |      |      |         |   |   |        |         |   |   |  |   |      |      |         |   |   |        |         |   |   |  |   |      |      |         |   |   |        |         |   |   |  |   |      |      |         |   |     |        |         |   |   |  |   |      |      |         |   |   |        |         |   |   |   |   |     |      |         |   |    |        |         |   |   |  |   |      |      |         |   |      |        |         |   |   |  |
| 6   | 1000        | full   | disable | 0   | 1    | enable     | allType      | 0           | 0          | 3         |  |  |        |             |     |         |     |      |            |              |             |            |           |   |      |      |         |   |    |        |         |   |   |  |   |      |      |         |   |   |        |         |   |   |  |   |      |      |         |   |   |        |         |   |   |  |   |      |      |         |   |   |        |         |   |   |  |   |      |      |         |   |     |        |         |   |   |  |   |      |      |         |   |   |        |         |   |   |   |   |     |      |         |   |    |        |         |   |   |  |   |      |      |         |   |      |        |         |   |   |  |
| 7   | 100         | full   | disable | 0   | 50   | enable     | allType      | 0           | 0          |           |  |  |        |             |     |         |     |      |            |              |             |            |           |   |      |      |         |   |    |        |         |   |   |  |   |      |      |         |   |   |        |         |   |   |  |   |      |      |         |   |   |        |         |   |   |  |   |      |      |         |   |   |        |         |   |   |  |   |      |      |         |   |     |        |         |   |   |  |   |      |      |         |   |   |        |         |   |   |   |   |     |      |         |   |    |        |         |   |   |  |   |      |      |         |   |      |        |         |   |   |  |
| 8   | 1000        | full   | disable | 0   | 2500 | enable     | allType      | 0           | 0          |           |  |  |        |             |     |         |     |      |            |              |             |            |           |   |      |      |         |   |    |        |         |   |   |  |   |      |      |         |   |   |        |         |   |   |  |   |      |      |         |   |   |        |         |   |   |  |   |      |      |         |   |   |        |         |   |   |  |   |      |      |         |   |     |        |         |   |   |  |   |      |      |         |   |   |        |         |   |   |   |   |     |      |         |   |    |        |         |   |   |  |   |      |      |         |   |      |        |         |   |   |  |
|   |             | <input type="button" value="refresh"/>   |         |     |      |            |              |             |            |           |  |  |        |             |     |         |     |      |            |              |             |            |           |   |      |      |         |   |    |        |         |   |   |  |   |      |      |         |   |   |        |         |   |   |  |   |      |      |         |   |   |        |         |   |   |  |   |      |      |         |   |   |        |         |   |   |  |   |      |      |         |   |     |        |         |   |   |  |   |      |      |         |   |   |        |         |   |   |   |   |     |      |         |   |    |        |         |   |   |  |   |      |      |         |   |      |        |         |   |   |  |

**xPON OLT**

Version: V1.2.0 Login-Mode: Administrator Language: English ▾ Exit

| Topology  |  | PATH: test1 > Switching Board > Port Property  |  |  |  |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|--|--|--|--|--|
| <ul style="list-style-type: none"> <li>- Main Board</li> <li>- <b>Switching Board</b></li> <li>- PON Board           <ul style="list-style-type: none"> <li>- PON1</li> <li>- PON2</li> <li>- PON3</li> <li>- PON4</li> <li>- PON5</li> <li>- PON6</li> <li>- PON7</li> <li>- PON8           <ul style="list-style-type: none"> <li>[ONU-1]</li> <li>[ONU-2]</li> <li>[ONU-3]</li> <li>[ONU-4]</li> <li>[ONU-5]</li> <li>[ONU-6]</li> <li>[ONU-7]</li> <li>[ONU-8]</li> <li>[ONU-9]</li> <li>[ONU-10]</li> <li>[ONU-11]</li> <li>[ONU-12]</li> <li>[ONU-13]</li> <li>[ONU-14]</li> <li>[ONU-15]</li> </ul> </li> </ul> </li> </ul> <th colspan="11"> <b>Port Property</b><br/> <div style="border: 1px solid #ccc; padding: 10px;"> <p>Port Enable: <b>enable</b></p> <p>Speed: <b>mbps1G</b></p> <p>Duplex: <b>full</b></p> <p>Flow Control: <b>disable</b></p> <p>Port Priority: <b>0</b></p> <p>Port VID: <b>120</b> </p> <p>Permit Frame Type: <b>allType</b></p> <p>Ingress Rate: <b>0</b> (kps)</p> <p>Egress Rate: <b>0</b> (kps)</p> <p style="text-align: right;"><b>5</b> </p> </div> </th> |  | <b>Port Property</b><br><div style="border: 1px solid #ccc; padding: 10px;"> <p>Port Enable: <b>enable</b></p> <p>Speed: <b>mbps1G</b></p> <p>Duplex: <b>full</b></p> <p>Flow Control: <b>disable</b></p> <p>Port Priority: <b>0</b></p> <p>Port VID: <b>120</b> </p> <p>Permit Frame Type: <b>allType</b></p> <p>Ingress Rate: <b>0</b> (kps)</p> <p>Egress Rate: <b>0</b> (kps)</p> <p style="text-align: right;"><b>5</b> </p> </div> |  |  |  |  |  |  |  |  |  |  |
|   |  |  |  |  |  |  |  |  |  |  |  |  |

4. Click “Switching Board --> VLAN Manage” ,and then add vlan 120 to GE 6 port untag :

**xPON OLT**

Version: V1.2.0 Login-Mode: Administrator Language: English ▾ Exit

| Topology  |                          | PATH: test1 > Switching Board > VLAN Manage  |           |            |  |  |  |  |  |  |  |  |        |             |               |           |            |    |                          |          |  |  |    |       |      |  |  |    |                |           |  |  |     |  |      |  |  |     |  |  |   |  |      |       |      |  |  |      |       |      |  |  |      |       |      |  |  |
|---|--------------------------|--|-----------|------------|--|--|--|--|--|--|--|--|--------|-------------|---------------|-----------|------------|----|--------------------------|----------|--|--|----|-------|------|--|--|----|----------------|-----------|--|--|-----|--|------|--|--|-----|--|--|---|--|------|-------|------|--|--|------|-------|------|--|--|------|-------|------|--|--|
| <ul style="list-style-type: none"> <li>- Main Board</li> <li>- <b>Switching Board</b> 1</li> <li>- PON Board           <ul style="list-style-type: none"> <li>- PON1</li> <li>- PON2</li> <li>- PON3</li> <li>- PON4</li> <li>- PON5</li> <li>- PON6</li> <li>- PON7</li> <li>- PON8           <ul style="list-style-type: none"> <li>[ONU-1]</li> <li>[ONU-2]</li> <li>[ONU-3]</li> <li>[ONU-4]</li> <li>[ONU-5]</li> <li>[ONU-6]</li> <li>[ONU-7]</li> <li>[ONU-8]</li> <li>[ONU-9]</li> <li>[ONU-10]</li> <li>[ONU-11]</li> <li>[ONU-12]</li> <li>[ONU-13]</li> <li>[ONU-14]</li> <li>[ONU-15]</li> </ul> </li> </ul> </li> </ul> <th colspan="11"> <b>VLAN Manage</b><br/> <table border="1"> <thead> <tr> <th>VALNID</th> <th>Tagged Port</th> <th>Untagged Port</th> <th>vlan-edit</th> <th>vlan-clear</th> </tr> </thead> <tbody> <tr><td>10</td><td>ge3;pon1;pon4;pon5;pon6;</td><td>ge1;ge5;</td><td></td><td></td></tr> <tr><td>50</td><td>pon8;</td><td>ge7;</td><td></td><td></td></tr> <tr><td>55</td><td>ge5;pon1;pon8;</td><td>ge1;pon4;</td><td></td><td></td></tr> <tr><td>110</td><td></td><td>ge5;</td><td></td><td></td></tr> <tr><td>120</td><td></td><td></td><td>3 </td><td></td></tr> <tr><td>1000</td><td>pon8;</td><td>ge8;</td><td></td><td></td></tr> <tr><td>2500</td><td>pon8;</td><td>ge8;</td><td></td><td></td></tr> <tr><td>3500</td><td>pon8;</td><td>ge7;</td><td></td><td></td></tr> </tbody> </table> </th> |                          | <b>VLAN Manage</b><br><table border="1"> <thead> <tr> <th>VALNID</th> <th>Tagged Port</th> <th>Untagged Port</th> <th>vlan-edit</th> <th>vlan-clear</th> </tr> </thead> <tbody> <tr><td>10</td><td>ge3;pon1;pon4;pon5;pon6;</td><td>ge1;ge5;</td><td></td><td></td></tr> <tr><td>50</td><td>pon8;</td><td>ge7;</td><td></td><td></td></tr> <tr><td>55</td><td>ge5;pon1;pon8;</td><td>ge1;pon4;</td><td></td><td></td></tr> <tr><td>110</td><td></td><td>ge5;</td><td></td><td></td></tr> <tr><td>120</td><td></td><td></td><td>3 </td><td></td></tr> <tr><td>1000</td><td>pon8;</td><td>ge8;</td><td></td><td></td></tr> <tr><td>2500</td><td>pon8;</td><td>ge8;</td><td></td><td></td></tr> <tr><td>3500</td><td>pon8;</td><td>ge7;</td><td></td><td></td></tr> </tbody> </table> |           |            |  |  |  |  |  |  |  |  | VALNID | Tagged Port | Untagged Port | vlan-edit | vlan-clear | 10 | ge3;pon1;pon4;pon5;pon6; | ge1;ge5; |  |  | 50 | pon8; | ge7; |  |  | 55 | ge5;pon1;pon8; | ge1;pon4; |  |  | 110 |  | ge5; |  |  | 120 |  |  | 3 |  | 1000 | pon8; | ge8; |  |  | 2500 | pon8; | ge8; |  |  | 3500 | pon8; | ge7; |  |  |
| VALNID  | Tagged Port              | Untagged Port  | vlan-edit | vlan-clear |  |  |  |  |  |  |  |  |        |             |               |           |            |    |                          |          |  |  |    |       |      |  |  |    |                |           |  |  |     |  |      |  |  |     |  |  |   |  |      |       |      |  |  |      |       |      |  |  |      |       |      |  |  |
| 10  | ge3;pon1;pon4;pon5;pon6; | ge1;ge5;   |           |            |  |  |  |  |  |  |  |  |        |             |               |           |            |    |                          |          |  |  |    |       |      |  |  |    |                |           |  |  |     |  |      |  |  |     |  |  |   |  |      |       |      |  |  |      |       |      |  |  |      |       |      |  |  |
| 50  | pon8;                    | ge7;   |           |            |  |  |  |  |  |  |  |  |        |             |               |           |            |    |                          |          |  |  |    |       |      |  |  |    |                |           |  |  |     |  |      |  |  |     |  |  |   |  |      |       |      |  |  |      |       |      |  |  |      |       |      |  |  |
| 55  | ge5;pon1;pon8;           | ge1;pon4;  |           |            |  |  |  |  |  |  |  |  |        |             |               |           |            |    |                          |          |  |  |    |       |      |  |  |    |                |           |  |  |     |  |      |  |  |     |  |  |   |  |      |       |      |  |  |      |       |      |  |  |      |       |      |  |  |
| 110   |                          | ge5;   |           |            |  |  |  |  |  |  |  |  |        |             |               |           |            |    |                          |          |  |  |    |       |      |  |  |    |                |           |  |  |     |  |      |  |  |     |  |  |   |  |      |       |      |  |  |      |       |      |  |  |      |       |      |  |  |
| 120   |                          |  | 3         |            |  |  |  |  |  |  |  |  |        |             |               |           |            |    |                          |          |  |  |    |       |      |  |  |    |                |           |  |  |     |  |      |  |  |     |  |  |   |  |      |       |      |  |  |      |       |      |  |  |      |       |      |  |  |
| 1000  | pon8;                    | ge8;   |           |            |  |  |  |  |  |  |  |  |        |             |               |           |            |    |                          |          |  |  |    |       |      |  |  |    |                |           |  |  |     |  |      |  |  |     |  |  |   |  |      |       |      |  |  |      |       |      |  |  |      |       |      |  |  |
| 2500  | pon8;                    | ge8;   |           |            |  |  |  |  |  |  |  |  |        |             |               |           |            |    |                          |          |  |  |    |       |      |  |  |    |                |           |  |  |     |  |      |  |  |     |  |  |   |  |      |       |      |  |  |      |       |      |  |  |      |       |      |  |  |
| 3500  | pon8;                    | ge7;   |           |            |  |  |  |  |  |  |  |  |        |             |               |           |            |    |                          |          |  |  |    |       |      |  |  |    |                |           |  |  |     |  |      |  |  |     |  |  |   |  |      |       |      |  |  |      |       |      |  |  |      |       |      |  |  |
|   |                          | <input type="button" value="refresh"/> <input type="button" value="add"/> <input type="button" value="set"/> <input type="button" value="First"/> <input type="button" value="Next"/>  |           |            |  |  |  |  |  |  |  |  |        |             |               |           |            |    |                          |          |  |  |    |       |      |  |  |    |                |           |  |  |     |  |      |  |  |     |  |  |   |  |      |       |      |  |  |      |       |      |  |  |      |       |      |  |  |

**xPON OLT** Version: V1.2.0 Login-Mode: Administrator Language: English ▾

| Topology  | PATH: test1 > Switching Board > VLAN Manage   |                               |                               |                               |   |                               |                               |  |  |                              |                              |                              |                              |                              |                              |                              |                              |                              |   |                              |                              |                              |   |                              |                              |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |
|---|---|-------------------------------|-------------------------------|-------------------------------|---|-------------------------------|-------------------------------|--|--|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|---|------------------------------|------------------------------|------------------------------|---|------------------------------|------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| <ul style="list-style-type: none"> <li>- test1           <ul style="list-style-type: none"> <li>- Main Board</li> <li>- <b>Switching Board</b></li> </ul> </li> <li>- PON Board           <ul style="list-style-type: none"> <li>- PON1</li> <li>- PON2</li> <li>- PON3</li> <li>- PON4</li> <li>- PON5</li> <li>- PON6</li> <li>- PON7</li> <li>- PON8               <ul style="list-style-type: none"> <li>[ONU-1]</li> <li>[ONU-2]</li> <li>[ONU-3]</li> <li>[ONU-4]</li> <li>[ONU-5]</li> <li>[ONU-6]</li> <li>[ONU-7]</li> <li>[ONU-8]</li> <li>[ONU-9]</li> <li>[ONU-10]</li> </ul> </li> </ul> </li> </ul> | <p>VLAN Manage</p> <p>Vlan ID: 120</p> <table border="1"> <thead> <tr> <th colspan="4">Egress port</th> <th colspan="4">untagged port</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> GE1</td> <td><input type="checkbox"/> GE2</td> <td><input type="checkbox"/> GE3</td> <td><input type="checkbox"/> GE4</td> <td><input type="checkbox"/> GE1</td> <td><input type="checkbox"/> GE2</td> <td><input type="checkbox"/> GE3</td> <td><input type="checkbox"/> GE4</td> </tr> <tr> <td><input type="checkbox"/> GE5</td> <td><input checked="" type="checkbox"/> GE6</td> <td><input type="checkbox"/> GE7</td> <td><input type="checkbox"/> GE8</td> <td><input type="checkbox"/> GE5</td> <td><input checked="" type="checkbox"/> GE6</td> <td><input type="checkbox"/> GE7</td> <td><input type="checkbox"/> GE8</td> </tr> <tr> <td><input type="checkbox"/> PON1</td> <td><input type="checkbox"/> PON2</td> <td><input type="checkbox"/> PON3</td> <td><input type="checkbox"/> PON4</td> <td><input type="checkbox"/> PON1</td> <td><input type="checkbox"/> PON2</td> <td><input type="checkbox"/> PON3</td> <td><input type="checkbox"/> PON4</td> </tr> <tr> <td><input type="checkbox"/> PON5</td> <td><input type="checkbox"/> PON6</td> <td><input type="checkbox"/> PON7</td> <td><input type="checkbox"/> PON8</td> <td><input type="checkbox"/> PON5</td> <td><input type="checkbox"/> PON6</td> <td><input type="checkbox"/> PON7</td> <td><input type="checkbox"/> PON8</td> </tr> </tbody> </table> <p>6   </p> | Egress port                   |                               |                               |   | untagged port                 |                               |  |  | <input type="checkbox"/> GE1 | <input type="checkbox"/> GE2 | <input type="checkbox"/> GE3 | <input type="checkbox"/> GE4 | <input type="checkbox"/> GE1 | <input type="checkbox"/> GE2 | <input type="checkbox"/> GE3 | <input type="checkbox"/> GE4 | <input type="checkbox"/> GE5 | <input checked="" type="checkbox"/> GE6 | <input type="checkbox"/> GE7 | <input type="checkbox"/> GE8 | <input type="checkbox"/> GE5 | <input checked="" type="checkbox"/> GE6 | <input type="checkbox"/> GE7 | <input type="checkbox"/> GE8 | <input type="checkbox"/> PON1 | <input type="checkbox"/> PON2 | <input type="checkbox"/> PON3 | <input type="checkbox"/> PON4 | <input type="checkbox"/> PON1 | <input type="checkbox"/> PON2 | <input type="checkbox"/> PON3 | <input type="checkbox"/> PON4 | <input type="checkbox"/> PON5 | <input type="checkbox"/> PON6 | <input type="checkbox"/> PON7 | <input type="checkbox"/> PON8 | <input type="checkbox"/> PON5 | <input type="checkbox"/> PON6 | <input type="checkbox"/> PON7 | <input type="checkbox"/> PON8 |
| Egress port   |   |                               |                               | untagged port                 |   |                               |                               |  |  |                              |                              |                              |                              |                              |                              |                              |                              |                              |   |                              |                              |                              |   |                              |                              |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |
| <input type="checkbox"/> GE1  | <input type="checkbox"/> GE2  | <input type="checkbox"/> GE3  | <input type="checkbox"/> GE4  | <input type="checkbox"/> GE1  | <input type="checkbox"/> GE2            | <input type="checkbox"/> GE3  | <input type="checkbox"/> GE4  |  |  |                              |                              |                              |                              |                              |                              |                              |                              |                              |   |                              |                              |                              |   |                              |                              |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |
| <input type="checkbox"/> GE5  | <input checked="" type="checkbox"/> GE6   | <input type="checkbox"/> GE7  | <input type="checkbox"/> GE8  | <input type="checkbox"/> GE5  | <input checked="" type="checkbox"/> GE6 | <input type="checkbox"/> GE7  | <input type="checkbox"/> GE8  |  |  |                              |                              |                              |                              |                              |                              |                              |                              |                              |   |                              |                              |                              |   |                              |                              |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |
| <input type="checkbox"/> PON1   | <input type="checkbox"/> PON2   | <input type="checkbox"/> PON3 | <input type="checkbox"/> PON4 | <input type="checkbox"/> PON1 | <input type="checkbox"/> PON2           | <input type="checkbox"/> PON3 | <input type="checkbox"/> PON4 |  |  |                              |                              |                              |                              |                              |                              |                              |                              |                              |   |                              |                              |                              |   |                              |                              |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |
| <input type="checkbox"/> PON5   | <input type="checkbox"/> PON6   | <input type="checkbox"/> PON7 | <input type="checkbox"/> PON8 | <input type="checkbox"/> PON5 | <input type="checkbox"/> PON6           | <input type="checkbox"/> PON7 | <input type="checkbox"/> PON8 |  |  |                              |                              |                              |                              |                              |                              |                              |                              |                              |   |                              |                              |                              |   |                              |                              |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |

### 9.3.3 Configure OLT PON Port Service Vlan

- Click “Switching Board --> VLAN Manage”, and then add vlan 110 to PON port 8 tag :

**xPON OLT** Version: V1.2.0 Login-Mode: Administrator Language: English ▾

| Topology  | PATH: test1 > Switching Board > VLAN Manage  |               |             |               |           |            |    |                          |          |  |  |    |       |      |  |  |    |                |           |  |  |     |  |      |   |  |     |  |      |  |  |      |       |      |  |  |      |       |      |  |  |      |       |      |  |  |
|---|--|---------------|-------------|---------------|-----------|------------|----|--------------------------|----------|--|--|----|-------|------|--|--|----|----------------|-----------|--|--|-----|--|------|---|--|-----|--|------|--|--|------|-------|------|--|--|------|-------|------|--|--|------|-------|------|--|--|
| <ul style="list-style-type: none"> <li>- test1           <ul style="list-style-type: none"> <li>- Main Board</li> <li>- <b>Switching Board</b> 1</li> </ul> </li> <li>- PON Board           <ul style="list-style-type: none"> <li>- PON1</li> <li>- PON2</li> <li>- PON3</li> <li>- PON4</li> <li>- PON5</li> <li>- PON6</li> <li>- PON7</li> <li>- PON8               <ul style="list-style-type: none"> <li>[ONU-1]</li> <li>[ONU-2]</li> <li>[ONU-3]</li> <li>[ONU-4]</li> <li>[ONU-5]</li> <li>[ONU-6]</li> <li>[ONU-7]</li> <li>[ONU-8]</li> <li>[ONU-9]</li> <li>[ONU-10]</li> <li>[ONU-11]</li> <li>[ONU-12]</li> <li>[ONU-13]</li> <li>[ONU-14]</li> <li>[ONU-15]</li> </ul> </li> </ul> </li> </ul> | <p>VLAN Manage</p> <p>VLANEnable: enable ▾</p> <table border="1"> <thead> <tr> <th>VALNID</th> <th>Tagged Port</th> <th>Untagged Port</th> <th>vlan-edit</th> <th>vlan-clear</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>ge3;pon1;pon4;pon5;pon6;</td> <td>ge1;ge5;</td> <td></td> <td></td> </tr> <tr> <td>50</td> <td>pon8;</td> <td>ge7;</td> <td></td> <td></td> </tr> <tr> <td>55</td> <td>ge5;pon1;pon8;</td> <td>ge1;pon4;</td> <td></td> <td></td> </tr> <tr> <td>110</td> <td></td> <td>ge5;</td> <td>3 </td> <td></td> </tr> <tr> <td>120</td> <td></td> <td>ge6;</td> <td></td> <td></td> </tr> <tr> <td>1000</td> <td>pon8;</td> <td>ge8;</td> <td></td> <td></td> </tr> <tr> <td>2500</td> <td>pon8;</td> <td>ge8;</td> <td></td> <td></td> </tr> <tr> <td>3500</td> <td>pon8;</td> <td>ge7;</td> <td></td> <td></td> </tr> </tbody> </table> <p> </p> | VALNID        | Tagged Port | Untagged Port | vlan-edit | vlan-clear | 10 | ge3;pon1;pon4;pon5;pon6; | ge1;ge5; |  |  | 50 | pon8; | ge7; |  |  | 55 | ge5;pon1;pon8; | ge1;pon4; |  |  | 110 |  | ge5; | 3 |  | 120 |  | ge6; |  |  | 1000 | pon8; | ge8; |  |  | 2500 | pon8; | ge8; |  |  | 3500 | pon8; | ge7; |  |  |
| VALNID  | Tagged Port  | Untagged Port | vlan-edit   | vlan-clear    |           |            |    |                          |          |  |  |    |       |      |  |  |    |                |           |  |  |     |  |      |   |  |     |  |      |  |  |      |       |      |  |  |      |       |      |  |  |      |       |      |  |  |
| 10  | ge3;pon1;pon4;pon5;pon6;   | ge1;ge5;      |             |               |           |            |    |                          |          |  |  |    |       |      |  |  |    |                |           |  |  |     |  |      |   |  |     |  |      |  |  |      |       |      |  |  |      |       |      |  |  |      |       |      |  |  |
| 50  | pon8;  | ge7;          |             |               |           |            |    |                          |          |  |  |    |       |      |  |  |    |                |           |  |  |     |  |      |   |  |     |  |      |  |  |      |       |      |  |  |      |       |      |  |  |      |       |      |  |  |
| 55  | ge5;pon1;pon8;   | ge1;pon4;     |             |               |           |            |    |                          |          |  |  |    |       |      |  |  |    |                |           |  |  |     |  |      |   |  |     |  |      |  |  |      |       |      |  |  |      |       |      |  |  |      |       |      |  |  |
| 110   |  | ge5;          | 3           |               |           |            |    |                          |          |  |  |    |       |      |  |  |    |                |           |  |  |     |  |      |   |  |     |  |      |  |  |      |       |      |  |  |      |       |      |  |  |      |       |      |  |  |
| 120   |  | ge6;          |             |               |           |            |    |                          |          |  |  |    |       |      |  |  |    |                |           |  |  |     |  |      |   |  |     |  |      |  |  |      |       |      |  |  |      |       |      |  |  |      |       |      |  |  |
| 1000  | pon8;  | ge8;          |             |               |           |            |    |                          |          |  |  |    |       |      |  |  |    |                |           |  |  |     |  |      |   |  |     |  |      |  |  |      |       |      |  |  |      |       |      |  |  |      |       |      |  |  |
| 2500  | pon8;  | ge8;          |             |               |           |            |    |                          |          |  |  |    |       |      |  |  |    |                |           |  |  |     |  |      |   |  |     |  |      |  |  |      |       |      |  |  |      |       |      |  |  |      |       |      |  |  |
| 3500  | pon8;  | ge7;          |             |               |           |            |    |                          |          |  |  |    |       |      |  |  |    |                |           |  |  |     |  |      |   |  |     |  |      |  |  |      |       |      |  |  |      |       |      |  |  |      |       |      |  |  |

**xPON OLT** Version: V1.2.0 Login-Mode: Administrator Language: English ▾

| Topology   | PATH: test1 > Switching Board > VLAN Manage  |                               |  |   |                               |                               |                               |  |  |                              |                              |                              |                              |                              |                              |                              |                              |   |                              |                              |                              |   |                              |                              |                              |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |  |                               |                               |                               |                               |
|--|--|-------------------------------|--|---|-------------------------------|-------------------------------|-------------------------------|--|--|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|---|------------------------------|------------------------------|------------------------------|---|------------------------------|------------------------------|------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| <ul style="list-style-type: none"> <li>- test1           <ul style="list-style-type: none"> <li>- Main Board</li> <li>- <b>Switching Board</b></li> </ul> </li> <li>- PON Board           <ul style="list-style-type: none"> <li>- PON1</li> <li>- PON2</li> <li>- PON3</li> <li>- PON4</li> <li>- PON5</li> <li>- PON6</li> <li>- PON7</li> <li>- PON8               <ul style="list-style-type: none"> <li>[ONU-1]</li> <li>[ONU-2]</li> <li>[ONU-3]</li> <li>[ONU-4]</li> <li>[ONU-5]</li> <li>[ONU-6]</li> <li>[ONU-7]</li> <li>[ONU-8]</li> </ul> </li> </ul> </li> </ul> | <p>VLAN Manage</p> <p>Vlan ID: 110</p> <table border="1"> <thead> <tr> <th colspan="4">Egress port</th> <th colspan="4">untagged port</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> GE1</td> <td><input type="checkbox"/> GE2</td> <td><input type="checkbox"/> GE3</td> <td><input type="checkbox"/> GE4</td> <td><input type="checkbox"/> GE1</td> <td><input type="checkbox"/> GE2</td> <td><input type="checkbox"/> GE3</td> <td><input type="checkbox"/> GE4</td> </tr> <tr> <td><input checked="" type="checkbox"/> GE5</td> <td><input type="checkbox"/> GE6</td> <td><input type="checkbox"/> GE7</td> <td><input type="checkbox"/> GE8</td> <td><input checked="" type="checkbox"/> GE5</td> <td><input type="checkbox"/> GE6</td> <td><input type="checkbox"/> GE7</td> <td><input type="checkbox"/> GE8</td> </tr> <tr> <td><input type="checkbox"/> PON1</td> <td><input type="checkbox"/> PON2</td> <td><input type="checkbox"/> PON3</td> <td><input type="checkbox"/> PON4</td> <td><input type="checkbox"/> PON1</td> <td><input type="checkbox"/> PON2</td> <td><input type="checkbox"/> PON3</td> <td><input type="checkbox"/> PON4</td> </tr> <tr> <td><input type="checkbox"/> PON5</td> <td><input type="checkbox"/> PON6</td> <td><input type="checkbox"/> PON7</td> <td><input checked="" type="checkbox"/> PON8</td> <td><input type="checkbox"/> PON5</td> <td><input type="checkbox"/> PON6</td> <td><input type="checkbox"/> PON7</td> <td><input type="checkbox"/> PON8</td> </tr> </tbody> </table> <p>5   </p> | Egress port                   |  |   |                               | untagged port                 |                               |  |  | <input type="checkbox"/> GE1 | <input type="checkbox"/> GE2 | <input type="checkbox"/> GE3 | <input type="checkbox"/> GE4 | <input type="checkbox"/> GE1 | <input type="checkbox"/> GE2 | <input type="checkbox"/> GE3 | <input type="checkbox"/> GE4 | <input checked="" type="checkbox"/> GE5 | <input type="checkbox"/> GE6 | <input type="checkbox"/> GE7 | <input type="checkbox"/> GE8 | <input checked="" type="checkbox"/> GE5 | <input type="checkbox"/> GE6 | <input type="checkbox"/> GE7 | <input type="checkbox"/> GE8 | <input type="checkbox"/> PON1 | <input type="checkbox"/> PON2 | <input type="checkbox"/> PON3 | <input type="checkbox"/> PON4 | <input type="checkbox"/> PON1 | <input type="checkbox"/> PON2 | <input type="checkbox"/> PON3 | <input type="checkbox"/> PON4 | <input type="checkbox"/> PON5 | <input type="checkbox"/> PON6 | <input type="checkbox"/> PON7 | <input checked="" type="checkbox"/> PON8 | <input type="checkbox"/> PON5 | <input type="checkbox"/> PON6 | <input type="checkbox"/> PON7 | <input type="checkbox"/> PON8 |
| Egress port  |  |                               |  | untagged port                           |                               |                               |                               |  |  |                              |                              |                              |                              |                              |                              |                              |                              |   |                              |                              |                              |   |                              |                              |                              |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |  |                               |                               |                               |                               |
| <input type="checkbox"/> GE1   | <input type="checkbox"/> GE2   | <input type="checkbox"/> GE3  | <input type="checkbox"/> GE4             | <input type="checkbox"/> GE1            | <input type="checkbox"/> GE2  | <input type="checkbox"/> GE3  | <input type="checkbox"/> GE4  |  |  |                              |                              |                              |                              |                              |                              |                              |                              |   |                              |                              |                              |   |                              |                              |                              |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |  |                               |                               |                               |                               |
| <input checked="" type="checkbox"/> GE5  | <input type="checkbox"/> GE6   | <input type="checkbox"/> GE7  | <input type="checkbox"/> GE8             | <input checked="" type="checkbox"/> GE5 | <input type="checkbox"/> GE6  | <input type="checkbox"/> GE7  | <input type="checkbox"/> GE8  |  |  |                              |                              |                              |                              |                              |                              |                              |                              |   |                              |                              |                              |   |                              |                              |                              |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |  |                               |                               |                               |                               |
| <input type="checkbox"/> PON1  | <input type="checkbox"/> PON2  | <input type="checkbox"/> PON3 | <input type="checkbox"/> PON4            | <input type="checkbox"/> PON1           | <input type="checkbox"/> PON2 | <input type="checkbox"/> PON3 | <input type="checkbox"/> PON4 |  |  |                              |                              |                              |                              |                              |                              |                              |                              |   |                              |                              |                              |   |                              |                              |                              |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |  |                               |                               |                               |                               |
| <input type="checkbox"/> PON5  | <input type="checkbox"/> PON6  | <input type="checkbox"/> PON7 | <input checked="" type="checkbox"/> PON8 | <input type="checkbox"/> PON5           | <input type="checkbox"/> PON6 | <input type="checkbox"/> PON7 | <input type="checkbox"/> PON8 |  |  |                              |                              |                              |                              |                              |                              |                              |                              |   |                              |                              |                              |   |                              |                              |                              |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |  |                               |                               |                               |                               |

- Click “Switching Board --> VLAN Manage”, and then add vlan 120 to PON port 8 tag :

**xPON OLT**

Version: V1.2.0      Login-Mode: Administrator      Language: English ▾      Exit

**Topology**

- test1
  - Main Board
  - **Switching Board** 1
  - PON Board
    - PON1
    - PON2
    - PON3
    - PON4
    - PON5
    - PON6
    - PON7
    - PON8
      - [+] ONU-1
      - [+] ONU-2
      - [+] ONU-3
      - [+] ONU-4
      - [+] ONU-5
      - [+] ONU-6
      - [+] ONU-7
      - [+] ONU-8
      - [+] ONU-9
      - [+] ONU-10
      - [+] ONU-11
      - [+] ONU-12
      - [+] ONU-13
      - [+] ONU-14
      - [+] ONU-15

PATH: test1 > Switching Board > VLAN Manage

**VLAN Manage**

VLANEnable: **enable** ▾

| VLANID | Tagged Port              | Untagged Port | vlan-edit     | vlan-clear    |
|--------|--------------------------|---------------|---------------|---------------|
| 10     | ge3:pon1;pon4;pon5;pon6; | ge1;ge5;      | <b>edit</b>   | <b>delete</b> |
| 50     | pon8;                    | ge7;          | <b>edit</b>   | <b>delete</b> |
| 55     | ge5:pon1;pon8;           | ge1:pon4;     | <b>edit</b>   | <b>delete</b> |
| 110    | pon8;                    | ge5;          | <b>edit</b>   | <b>delete</b> |
| 120    |                          | ge6;          | 3 <b>edit</b> | <b>delete</b> |
| 1000   | pon8;                    | ge8;          | <b>edit</b>   | <b>delete</b> |
| 2500   | pon8;                    | ge8;          | <b>edit</b>   | <b>delete</b> |
| 3500   | pon8;                    | ge7;          | <b>edit</b>   | <b>delete</b> |

**refresh** **add** **set** **First** **Next**

The screenshot shows the xPON OLT software interface. The top navigation bar includes 'xPON OLT' (highlighted in red), 'Version: V1.2.0', 'Login-Mode: Administrator', 'Language: English' (with a dropdown arrow), and 'Exit'. The left sidebar has a tree view under 'Topology' with sections for 'test1', 'Main Board', 'Switching Board' (highlighted in red), 'PON Board' (with PON1-PON8), and 'ONU' (with ONU-1 to ONU-11). The main content area shows the 'PATH:test1>Switching Board>VLAN Manage' path. A 'VLAN Manage' dialog box is open, containing a table with two columns: 'Egress port' and 'untagged port'. The 'Egress port' column lists GE1, GE2, GE3, GE4, GE5, GE6, GE7, GE8, PON1, PON2, PON3, PON4, PON5, PON6, PON7, and PON8. The 'untagged port' column lists GE1, GE2, GE3, GE4, GE5, GE6, GE7, GE8, PON1, PON2, PON3, PON4, PON5, PON6, PON7, and PON8. In the 'Egress port' section, PON7 and PON8 have checkboxes checked. In the 'untagged port' section, PON8 has a checked checkbox. A red box highlights the 'PON8' entry in the 'Egress port' section. At the bottom are buttons for 'Set' (highlighted in red), 'refresh', and 'Return'.

#### **9.4 Configure Bridge ONU(SFU) Service**

We need enter OLT to config ONU one by one,config way as follows:

#### **9.4.1 Configure Bridge Onu(SFU) Internet Service**

#### Premise condition of ONU to open internet service:

- OLT connect to uplink device and open internet service
  - OLT have created vlan for internet service
  - OLT have configured GE port vlan
  - OLT have configured PON port vlan
  - ONU have registered

SFU ethernet port vlan mode have transparent,tag(access),trunk mode and so on,we can according to our network plan configure different mode.all onu vlan is configured by OLT,configure way as follows:

1. Click “**PON Board --> PON8 --> ONU-1 --> VLAN Manage**”, Config ONU1 eth1 vlan

mode is tag(access):

**Topology**

- test1
  - Main Board
  - Switching Board
  - PON Board
    - PON1
    - PON2
    - PON3
    - PON4
    - PON5
    - PON6
    - PON7
    - PON8
      - [ONU-1] 3
      - [ONU-2]
      - [ONU-3]
      - [ONU-4]
      - [ONU-5]
      - [ONU-6]
      - [ONU-7]
      - [ONU-8]
      - [ONU-9]
      - [ONU-10]

**Topology**

- test1
  - Main Board
  - Switching Board
  - PON Board
    - PON1
    - PON2
    - PON3
    - PON4
    - PON5
    - PON6
    - PON7
    - PON8
      - [ONU-1]
      - [ONU-2]
      - [ONU-3]
      - [ONU-4]
      - [ONU-5]
      - [ONU-6]
      - [ONU-7]
      - [ONU-8]

## 9.4.2 Configure Bridge Onu(SFU) Multicast Service

### Premise Condition

- OLT connect to uplink device and open service
- OLT have created vlan for multicast service
- OLT have configured GE port vlan
- OLT have configured PON port vlan
- ONU have registered

We need enter OLT to config ONU multicast service,configure way as follows:

- Click “**PON Board--> PON8 --> ONU-1 --> IGMP Global**”, Configure ONU1 multicast vlan mode is snooping and enable the fast leave:

xPON OLT

Version: V1.2.0 Login-Mode: Administrator Language: English ▾

**Topology**

PATH: test1 > PON Board > PON8 > ONU1 > IGMP Global Parameter

**IGMP Global Parameter**

- Multicast Switching Mode: igmp/mld-snooping [5]
- Fast Leave Enable: enable [6]

2. Click “**PON Board--> PON8 --> ONU-1 --> IGMP Port Config**”, Configure ONU1 eth2 vlan is 120, and multicast vlan mode is untag:

xPON OLT

Version: V1.2.0 Login-Mode: Administrator Language: English ▾

**Topology**

PATH: test1 > PON Board > PON8 > ONU1 > IGMP Port Config

**IGMP Port Config**

| Port ID | IGMP Groups[0-255] | Multicast Strip Mode | Multicast Vlan | Operation |
|---------|--------------------|----------------------|----------------|-----------|
| 2       | 0                  | Not Strip Vlan Tag   |                | [6]       |

xPON OLT

Version: V1.2.0 Login-Mode: Administrator Language: English ▾

**Topology**

PATH: test1 > PON Board > PON8 > ONU1 > IGMP Port Config

**IGMP Port Config**

Port Id:2  
IGMP Groups[0-255]: 0  
Multicast Strip Mode: Strip Vlan Tag [7]

**Multicast Vlan Config:**

|                      |     |
|----------------------|-----|
| VID[1-4094]: 120 [8] | [9] |
| Multicast VLANs      |     |
| Operation            |     |

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## **Concluding Remarks**

Thanks for choosing our company products!