



EPON OLT Products User Manual

OP-EOLT 74404/OP-EOLT 74408E

---Quick Configuration Guide

Version: V1.0

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About This Manual

This manual is applicable to Optilink OP-EOLT 74404 EPON OLT products quickly installation configuration guide, Is the user to quickly and easily manage EPON OLT equipment should read the information before guidelines.

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1 Instruction

Document Scope

Reading Object	Product	Products Software Version	
OPTILINK Employees, FTTX Operation & Maintenance Engineer, OPTILINK Customer's Technical Engineer	EPON OLT (FDOP-EOLT 74404/74408E)	V3.3.3_240919	
Compiling Department	Optilink Product Management Center Technical Support Department	Document Version	V1.0

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
OAM	Operation Administration and Maintenance	EPON OLT&ONU Operation 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 written 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.
- FDOP-EOLT 74408E is Plug-in card OLT, has one fixed board and one optional board, so the command for entering PON mode is OLT(config)# interface epon 0/<SlotID>, SlotID is Slot Number, range is 1-2, for example, the command for entering slot 1 is OLT(config)# interface epon 0/1.
- OP-EOLT 74404 does not have a board card.

2 OLT Login Manage

2.1 OLT Login Manage Explanation

OP-EOLT 74404 support CLI, CMS and WEB management; CLI manage type divided into telnet remote manage and console local manage, Please continue to browse the following chapters.

2.2 OLT Login By Console

First, find console port on OLT front surface, which is a RJ45 port. If you want to login OLT by Console port, we need to 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

Databit: 8

Stopbit: 1

Flow Control: None

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

[OLT console connection diagram]

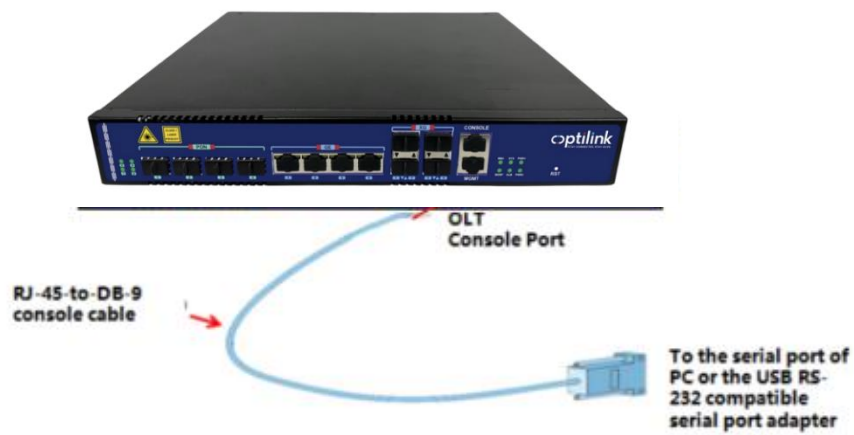


FIG. 1 Schematic of managing serial port connections

[OLT console connection device]



FIG.2

Port on Computer	Required Cable	Port on OLT
Serial Port	RJ-45 to DB-9 Console Cable	RJ-45 Console Port
USB Type-A Port	• USB to RS-232 compatible serial port adapter (Adapter may require a software driver) • RJ-45 to DB-9 Console Cable	

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 is root, password is admin.

Use command as follow can modify the outband management IP:

```
OLT> enable
OLT# config
OLT(config)# interface mgmt
OLT(config-interface-mgmt)# ip address 192.168.1.100 24
OLT(config-interface-mgmt)# exit
```

2. Inband management(connect OLT ge port)

First we login olt via console port or mgmt port, and add a vlanif for inband management, assigned an IP address to this vlan, add the ge port to the vlan, ge port vlan mode can be access or trunk, which depend on your network environment, then pc connect to OLT ge port (ge1-ge4) and telnet to the OLT.

The way to set inband mangement ip as follows:

```
OLT> enable
OLT# config
OLT(config)# vlan 100
OLT(config)# interface ge 0/0
OLT(interface-ge)# vlan access 2 100 ----configure ge 2 as inband management port
OLT(interface-ge-0/0)# exit
OLT(config)# interface vlanif 100
OLT(interface-vlanif-100)# ip address 192.168.2.100 255.255.255.0
OLT(interface-vlanif-100)# exit
```

3 OLT Upgrade Method

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 file

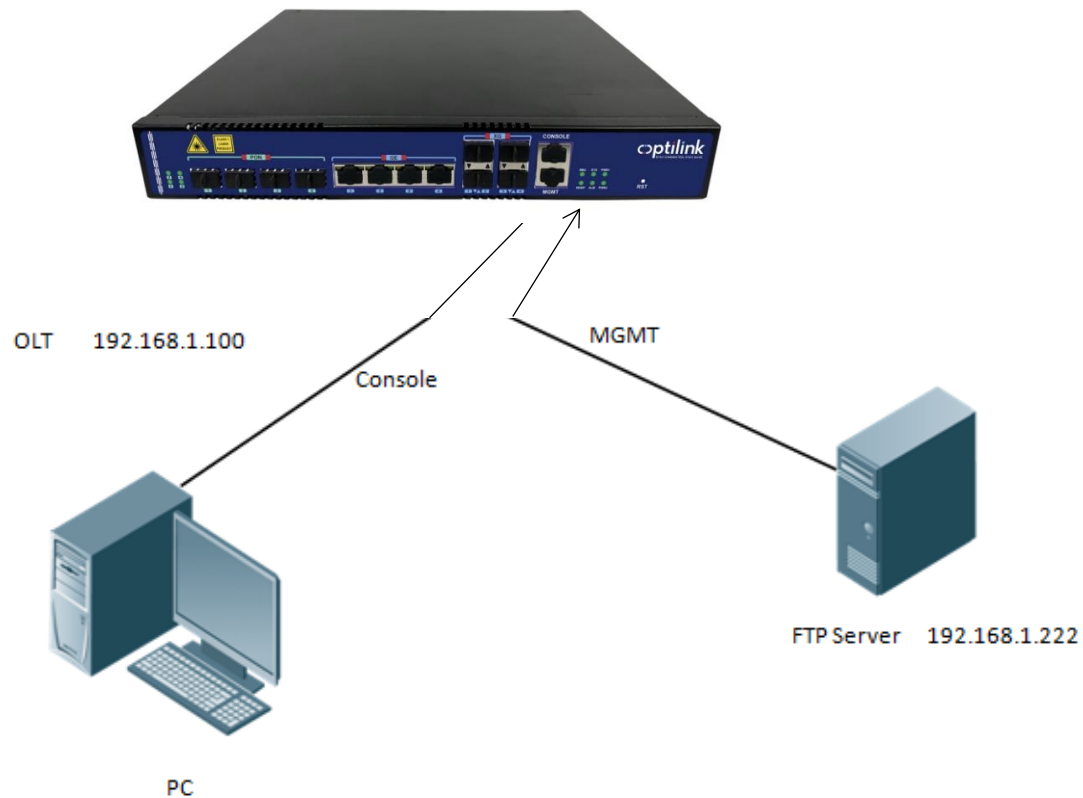


FIG.3 OLT update topology

2.Test network connectivity

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

3. FTP server configuration

- Open FTP software,configure FTP username and password,such as:admin/admin
- Set up a directory of OLT update files for the FTP server, such as the way for setting up the wftpd32. Exe software:
 - Security -> User/Rights Security Dialog -> User Name—input admin
 - Change Password—input admin

---Home Directory---set directory of OLT upgrade files

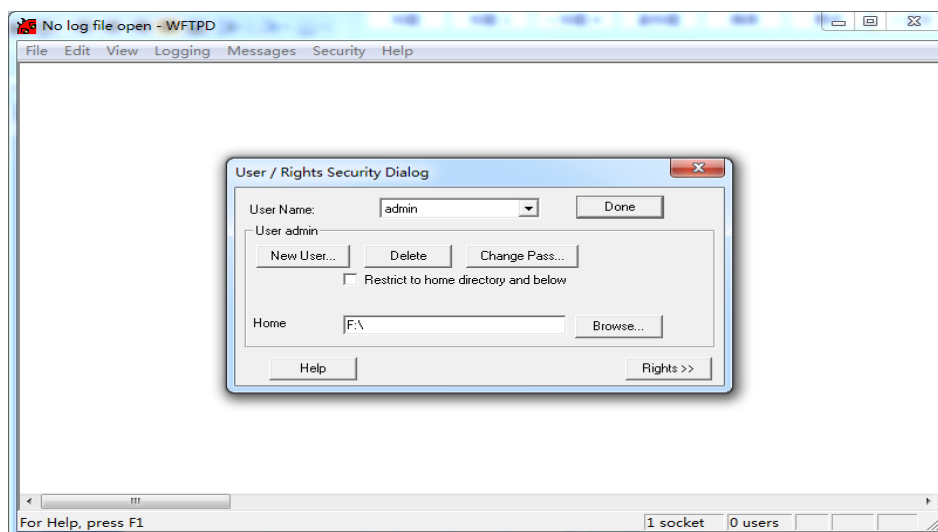


FIG.4

4.OLT update command

OP-EOLT 74404 OLT need update IW file;if the boot file is too old,we need update boot file in OLT boot mode,boot upgrade way will be provided separately.OLT the common upgrade method please see below:

a.Enter config view,input command as follows to update OLT IW file

```
OLT(config)# load packetfile tftp 192.168.1.16 FDOP-EOLT 74408E_Pack_IW_V3.3.3_240919_3603_X000
```

Broadcast message from root:

Upgrade is in process.

File [FDOP-EOLT 74408E_Pack_IW_V3.3.3_240919_3603_X000] download OK

File [FDOP-EOLT 74408E_Pack_IW_V3.3.3_240919_3603_X000] upgrade OK

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

```
OLT(config)# reboot
```

Please check whether data has saved, the unsaved data will lose if reboot system. Are you sure to reboot system? (y/n)[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 Web_V3.3.2_240919.img)

```
OLT(config)# load packetfile tftp 192.168.1.16 Web_V3.3.2_240919.img
```

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 functionality by the OLT command line. The configuration command is as follows:

```
OLT(config)# service snmp enable
OLT(config)# snmp-agent community read public
OLT(config)# snmp-agent community write private
```

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

```
FD1304E-B1(config)# show version
Software version V3.3.3
EPON OLT uptime is 0 weeks, 1 days, 4 hours, 20 minutes.
1005M bytes SDRAM
1022M bytes FLASH
BKP version information:
-----
Hardware version : V1.1
Firmware version : V3.3.3_240919
Web version : V3.3.2_240919
Device csm : X000
```

FIG.5

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

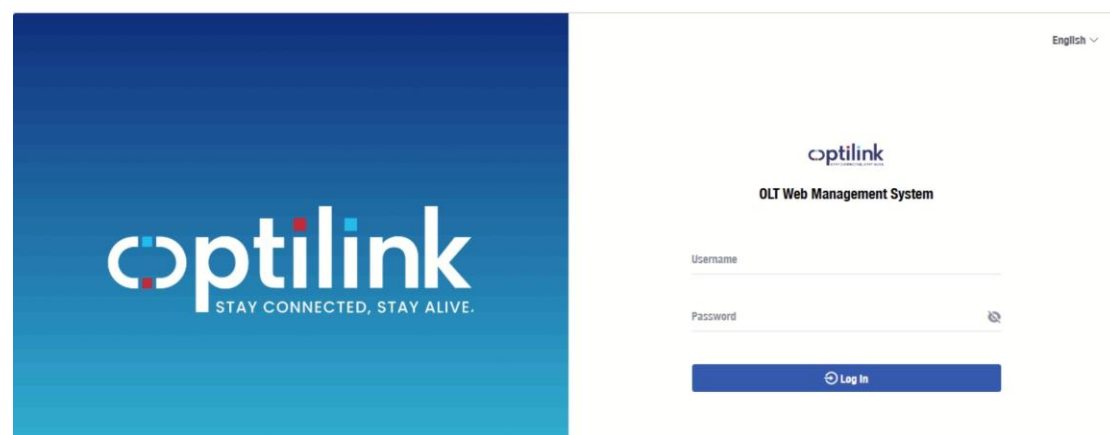


FIG.6 Login OLT web

5 Configure Service In OLT Discrete Mode (Non-Template) ---

CLI Command Method

This section mainly introduces OP-EOLT 74404 internet service and multicast service in discrete mode in FTTH environment. Mainly introduces 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

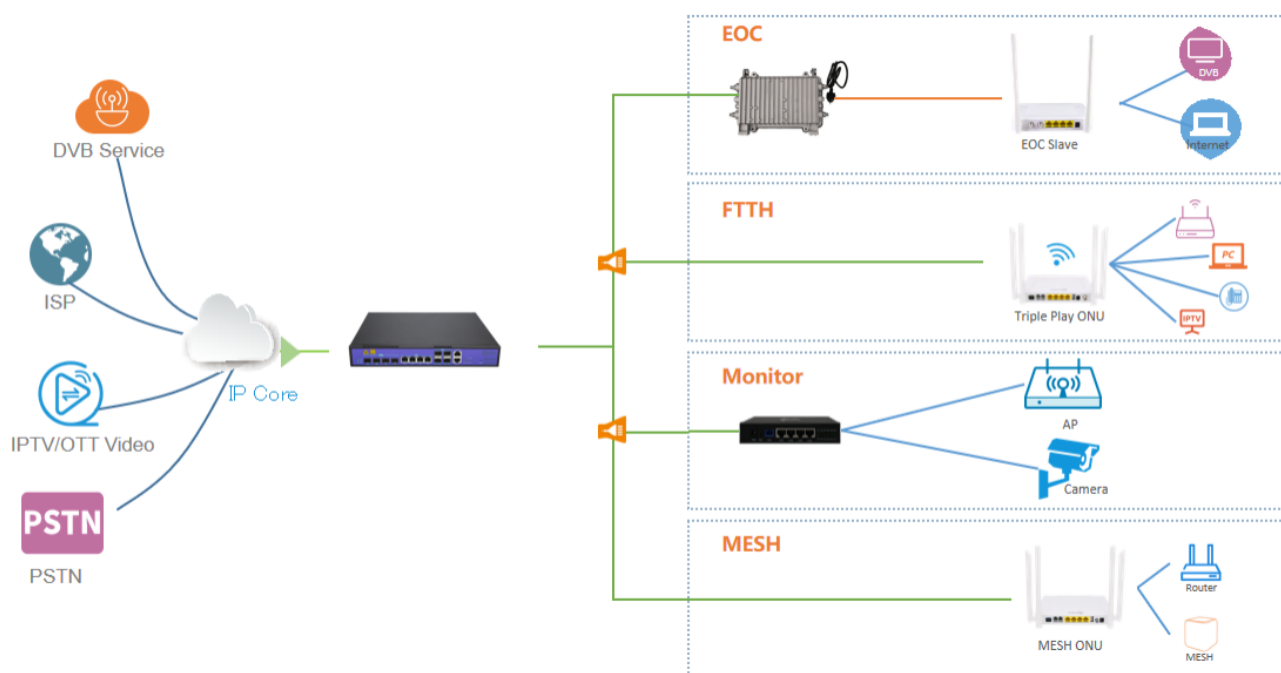


FIG.7 FTTH service networking diagram

5.2 Data Plan

Main Data Plan List	
Configuration Item	Data
VLAN Data	VLAN 100: Internet Service VLAN 200: IPTV Service
OLT Port Setting	Ge1: VLAN 100 access mode Ge1: VLAN 200 access mode PON1: VLAN 100, VLAN 200, trunk mode
ONU Register ID	Bridge ONU ID: 1 Gateway ONU ID: 1
Bridge ONU Port config	LAN 1: VLAN 100 LAN 2: VLAN 200
Gateway ONU Port config	Internet WAN: VLAN 100 IGMP WAN: VLAN 200

5.3 Config Guide

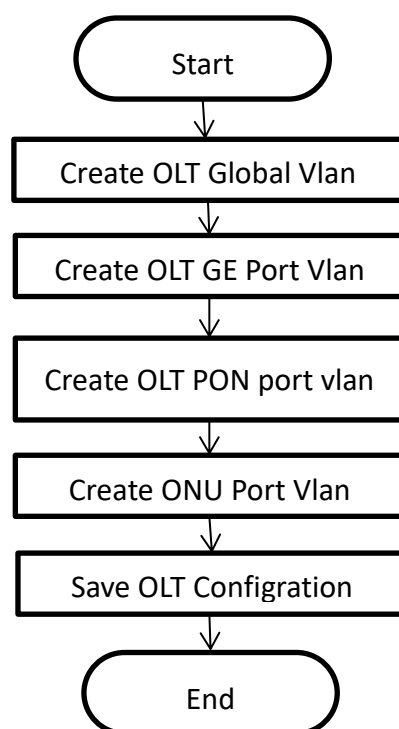


FIG.8 OLT discrete online service configuration process

5.4 Configure OLT Service

5.4.1 Configure OLT Global Vlan

In **config** mode, we can use **OLT(config)# show vlan all** to show the created vlan.

If the created vlan can't meet the need, we can use command **OLT(config)# vlan** vlan-list to create new vlan. According to the data plan, we create vlan100, vlan200, vlan300 firstly:

```
OLT(config)# vlan 100
OLT(config)# vlan 200
```

5.4.2 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 port vlan mode is access(in this document, GE port connect to PC, so we configure ge port vlan mode as access):

```
OLT(config)# interface ge 0/0
OLT(config-interface-ge-0/0)# vlan mode 1 access
OLT(config-interface-ge-0/0)# vlan access 1 100
OLT(config-interface-ge-0/0)# vlan access 1 200
\OLT(config-interface-ge-0/0)# exit
```

Configure GE 1 port vlan mode is trunk:

```
OLT(config)# interface ge 0/0
OLT(config-interface-ge-0/0)# vlan mode 1 trunk
OLT(config-interface-ge-0/0)# vlan trunk 1 100
OLT(config-interface-ge-0/0)# vlan trunk 1 200
OLT(config-interface-ge-0/0)# exit
```

Configure GE 1 □ vlan mode is hybrid:

```
OLT(config)# interface ge 0/0
OLT(config-interface-ge-0/0)# vlan mode 1 hybrid
OLT(config-interface-ge-0/0)# vlan hybrid 1 tagged 100
OLT(config-interface-ge-0/0)# vlan hybrid 1 tagged 200
OLT(config-interface-ge-0/0)# exit
```



NOTE:

The OLT vlan 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
--	--	-------	---------

5.4.3 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 configure PON port vlan mode is access or hybrid untag mode; if message from ONU is tag, we can configure PON port vlan mode is trunk or hybrid tag mode; configure way as follows.

Config PON1 port vlan mode is access:

```
OLT(config)# interface epon 0/1
OLT(config-interface-epon-0/1)# vlan mode 1 access
OLT(config-interface-epon-0/1)# vlan access 1 100
OLT(config-interface-epon-0/1)# exit
```

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

```
OLT(config)# interface epon 0/1
OLT(config-interface-epon-0/1)# vlan mode 1 trunk
OLT(config-interface-epon-0/1)# vlan trunk 1 100,200
OLT(config-interface-epon-0/1)# exit
```

Config PON1 port vlan mode is hybrid:

```
OLT(config)# interface epon 0/1
OLT(config-interface-epon-0/1)# vlan mode 1 hybrid
OLT(config-interface-epon-0/1)# vlan hybrid 1 tagged 100,200
OLT(config-interface-epon-0/1)# exit
```

5.4.4 Configure OLT Multicast Service

Configure IGMP and multicast-vlan 200

```
OLT(config)# igmp mode snooping
OLT(config)# multicast-vlan 200
OLT(config-multicast-vlan-200)# igmp program add program-index 1 ip 224.3.3.3
OLT(config-multicast-vlan-200)# igmp router-port ge 0/0/1
```



NOTE:

igmp program add program-index command is used to create multicast program table. Only the program table in the multicast vlan, the user can watch the program. Create multicast program table can use **igmp program add program-index <1-2000> batch-ip** command to batch add program or use **igmp program add program-index <1-2000> ip** command to add program single.

5.5 Check ONU Register Status.

In OLT discrete mode,ONU is automatically registered,after ONU is automatically registered,use command **show ont info** to query ONU online status.make sure ONU “Control flag” is “Active”, “Run State” is “Online”, “Config state” is “Success” and “Match state” is “Match”

```
OLT(config-interface-epon-0/1)# show ont info 1 all
```

F/S	P	ONT MAC ID	Control flag	Run state	Config state	Match state	Desc
0/0	1	1	E0:67:B3:09:F0:21	active	online	success	match
0/0	1	2	E0:67:B3:12:05:3E	active	online	success	match

```
Total: 2, online 2
```

5.6 Configure Bridge ONU(SFU) Service

In OLT discrete mode,we 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):

```
OLT(config)# interface epon 0/1
```

```
OLT(config-interface-epon-0/1)# ont port native-vlan 1 1 eth 1 vlan 100
```

```
OLT(config-interface-epon-0/0)# exit
```

Configure ONU1 eth1 vlan mode is transparent:

```
OLT(config)# interface epon 0/1
```

```
OLT(config-interface-epon-0/0)# ont port vlan 1 1 eth 1 transparent
```

```
OLT(config-interface-epon-0/0)# exit
```

Config ONU1 eth1 vlan mode is trunk:

```
OLT(config)# interface epon 0/1
```

```
OLT(config-interface-epon-0/1)# ont port vlan 1 1 eth 1 100
```

```
OLT(config-interface-epon-0/1)# exit
```

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

In OLT discrete mode, 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:

```
OLT(config)# interface epon 0/1
OLT(config-interface-epon-0/1)#ont multicast-mode 1 1 igmp-snooping
OLT(config-interface-epon-0/1)#ont port attribute 1 1 eth 2 multicast-tagstrip untag
OLT(config-interface-epon-0/1)# ont port multicast-vlan 1 2 eth 2 200
OLT(config-interface-epon-0/1)# exit
```

----End

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 onu port vlan in olt, only make sure ONU can register to OLT.

5.7.1 Configure Gateway ONU (HGU) Internet Service

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

```
Create a route wan
OLT(config)# interface epon 0/1
OLT(config-interface-epon-0/1)#ont wan 1 1 1 vlan 100 ipv4 dhcp
OLT(config-interface-epon-0/1)#ont wan 1 1 1 option mtu 1500 service-type internet
OLT(config-interface-epon-0/1)# exit
```

5.7.2 Configure Gateway ONU (HGU) Multicast Service

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 a bridge wan

```
OLT(config)# interface epon 0/1
OLT(config-interface-epon-0/1)#ont wan 1 1 1 vlan 200 bridge
OLT(config-interface-epon-0/1)# exit
```

2. Config IGMP mode in ONU web

```
OLT(config)# interface epon 0/1
OLT(config-interface-epon-0/1)#ont multicast-mode 1 1 igmp-snooping
OLT(config-interface-epon-0/1)# exit
```

3. Configure multicast vlan on ONU web

```
OLT(config)# interface epon 0/1
OLT(config-interface-epon-0/1)#ont wan 1 1 1 option service-type other multicast 200 binding eth
2
OLT(config-interface-epon-0/1)#exit
```

6 Common Command Description

Command	Description
interface epon 0/1	Enter OLT PON board
interface ge 0/0	Enter OLT uplink(ge) board (In default, box OLT all is 0/0)
show vlan all	View all vlan in OLT
show port vlan <Port ID>	View OLT uplink(ge) and PON port vlan(The premise is we need enter the board card mode.)
show port state <Port ID>	View OLT uplink port and PON port status (The premise is we need enter the board card mode.)
show version	View OLT software version
show device	View OLT mode and other information
show interface mgmt	View OLT outband Manage IP
show current-config	View OLT running configuration
show saved-config	View OLT have saved configuration
show ont info 0/1 <Port ID> all	View ONU register status in PON port
show ont autofind <Port ID> all	View autofind but unregistered ONU in PON port(The premise is we need to enter the PON board mode)
show ont optical-info <Port ID> <ONT ID>	View ONU optical information
show ont port state <Port ID> <ONT ID> eth <ONT Port ID>	View ONU port status(The premise is we need to enter the PON board mode)

7 Configure Service In OLT Discrete Mode---WEB Method

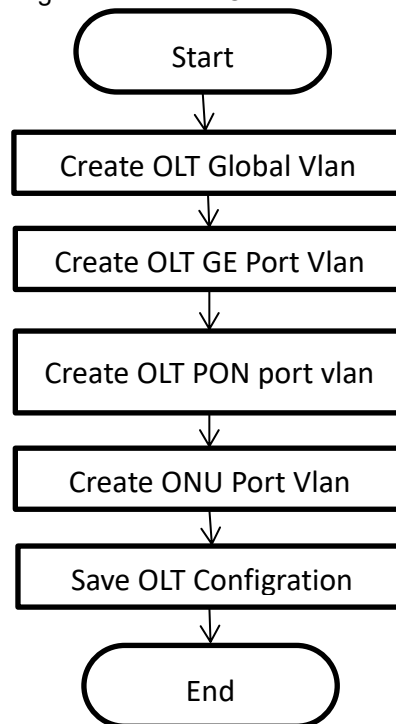
This section mainly introduces New 4Port OLT internet service and multicast service in discrete mode in FTTH environment. The following will introduce the service configuration way for OLT and ONU according to the bridge ONU(SFU).

7.1 Data Plan

Main Data Plan List	
Configuration Item	Data
VLAN Data	VLAN 100: Internet Service VLAN 200: IPTV Service
OLT Port Setting	Ge1: VLAN 100 access mode Ge1: VLAN 200 access mode PON1: VLAN 100, VLAN 200 trunk mode
ONU Register ID	Bridge ONU ID: 1
Bridge ONU Port config	LAN 1: VLAN 100 LAN 2: VLAN 200

7.2 Configuration Guide

FIG.9 Configure Service In OLT Discrete Mode-web



7.3 Configure OLT Service

7.3.1 Configure OLT Global Vlan

Access path: Configuration ----> VLAN---->VLAN Planning----> Click the "Add VLAN" button

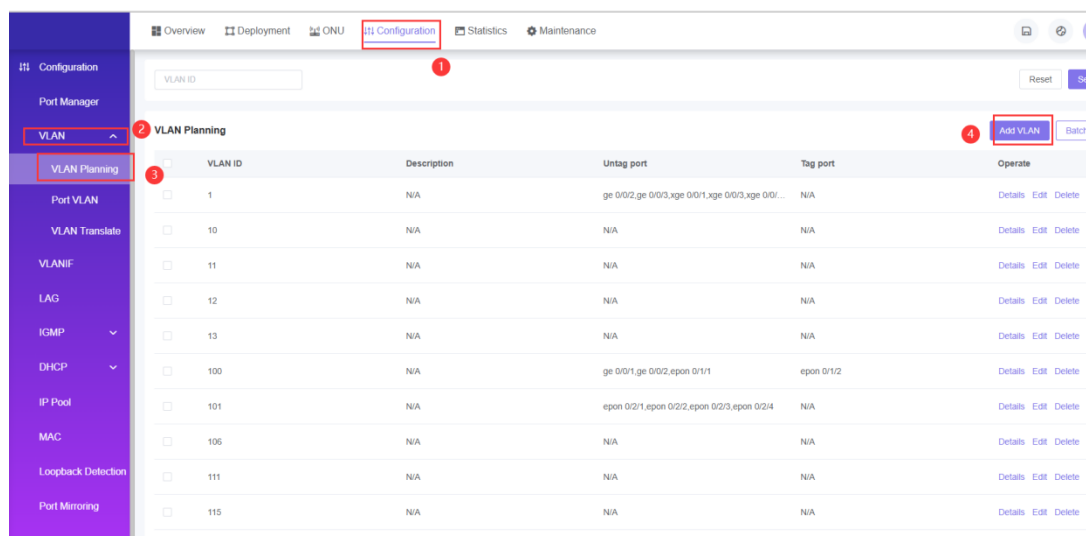
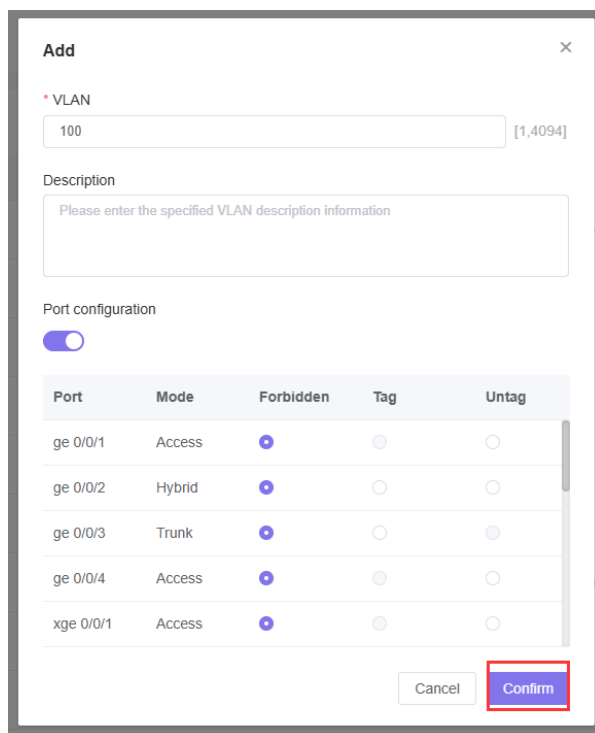


FIG.10 Create VLAN-1

Then page brings up a pop-up window to set uplink.2



Add [X]

* VLAN
100 [1,4094]

Description
Please enter the specified VLAN description information

Port configuration
☒

Port	Mode	Forbidden	Tag	Untag
ge 0/0/1	Access	☒	☐	☐
ge 0/0/2	Hybrid	☒	☐	☐
ge 0/0/3	Trunk	☒	☐	☐
ge 0/0/4	Access	☒	☐	☐
xge 0/0/1	Access	☒	☐	☐

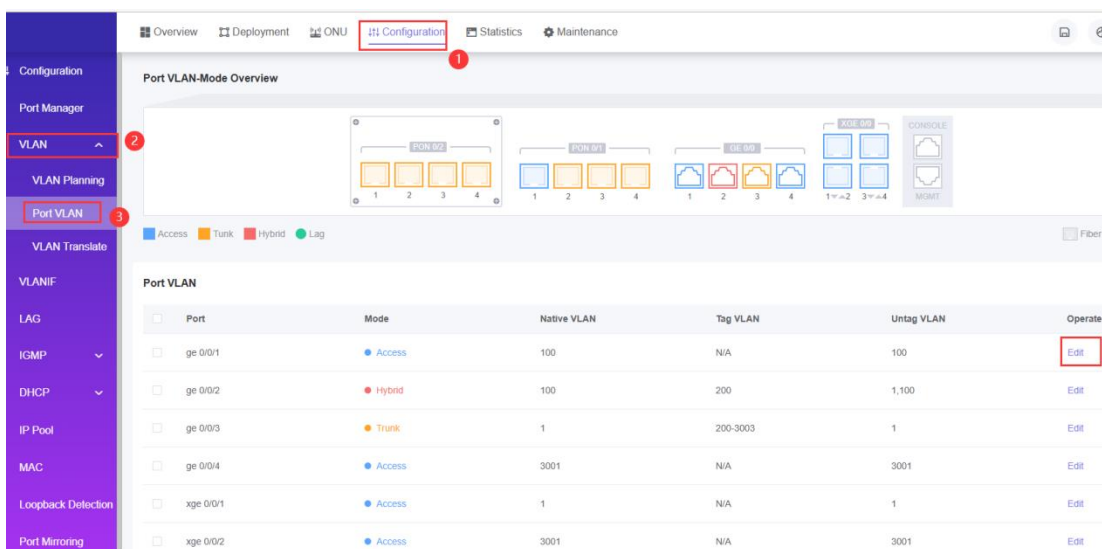
Cancel Confirm

FIG.11 Create VLAN-2

Once you're done creating your VLAN, click the "Confirm" button to close the pop-up window.

7.3.2 Set GE port

Access path: Configuration ----> VLAN---->Port VLAN----> Click the "Edit" button



Configuration Overview Deployment ONU **Configuration** Statistics Maintenance

Port VLAN-Mode Overview

Access Tunk Hybrid Lag Fiber

Port VLAN

Port	Mode	Native VLAN	Tag VLAN	Untag VLAN	Operate
☐ ge 0/0/1	Access	100	N/A	100	Edit
☐ ge 0/0/2	Hybrid	100	200	1,100	Edit
☐ ge 0/0/3	Trunk	1	200-3003	1	Edit
☐ ge 0/0/4	Access	3001	N/A	3001	Edit
☐ xge 0/0/1	Access	1	N/A	1	Edit
☐ xge 0/0/2	Access	3001	N/A	3001	Edit

FIG.12 set ge port-1

Then page brings up a pop-up window to set uplink.3

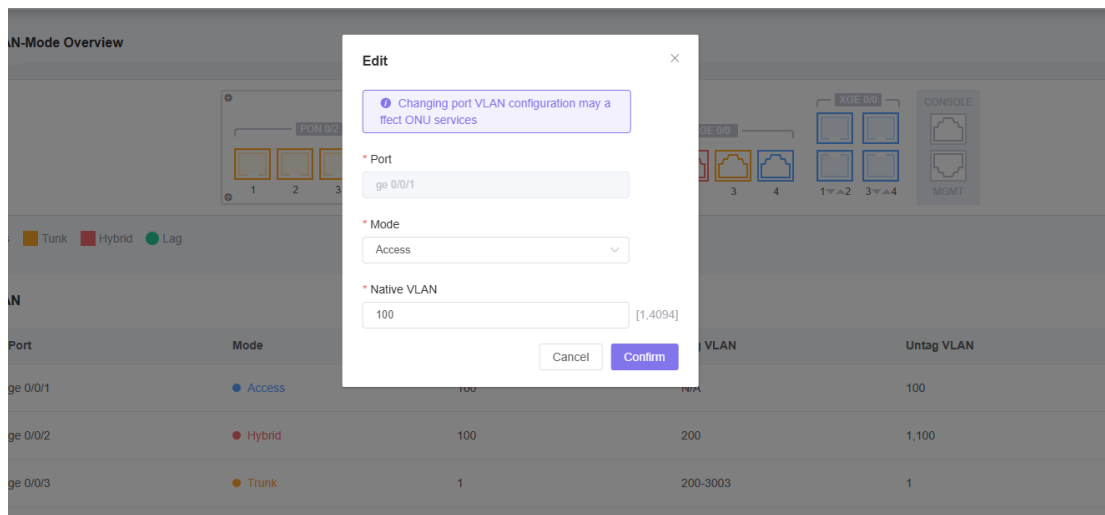


FIG.13 set ge port-2

1. Set the GE port mode ,chooes access mode(Configure according to your environment).

2. Set the Vlan you want to config ,here use vlan 100.

Once you're done creating your VLAN, click the "Confirm" button to close the pop-up window.

7.3.3 Configure OLT PON Port Service Vlan

Access path: Configuration ----> VLAN---->Port VLAN----> Click the "Edit" button

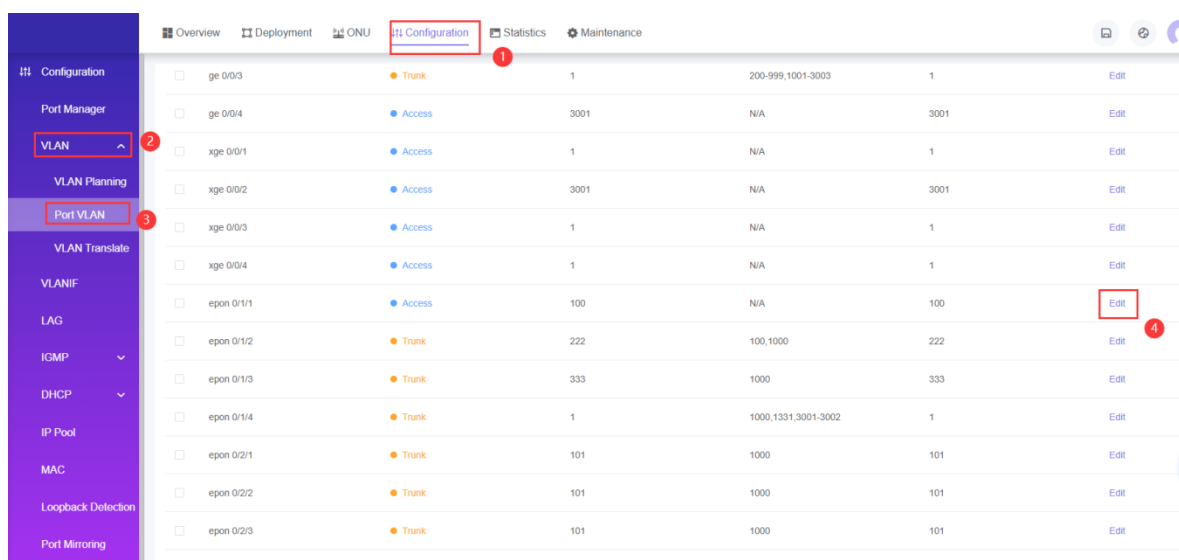
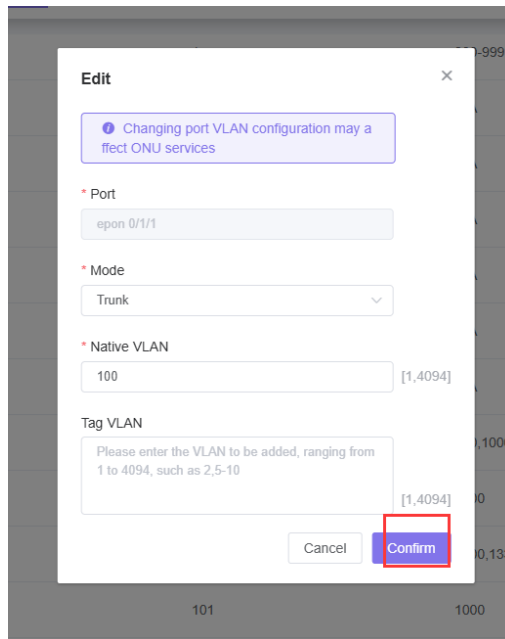


FIG.14 config PON pon port-1

Then page brings up a pop-up window to set uplink.4



Edit

Changing port VLAN configuration may affect ONU services

* Port
epon 0/1/1

* Mode
Trunk

* Native VLAN
100 [1,4094]

Tag VLAN
Please enter the VLAN to be added, ranging from 1 to 4094, such as 2,5-10 [1,4094]

Cancel Confirm

FIG.15 config PON pon port-2

1. Set the PON port mode ,chooes trunk mode(Configure according to your environment).

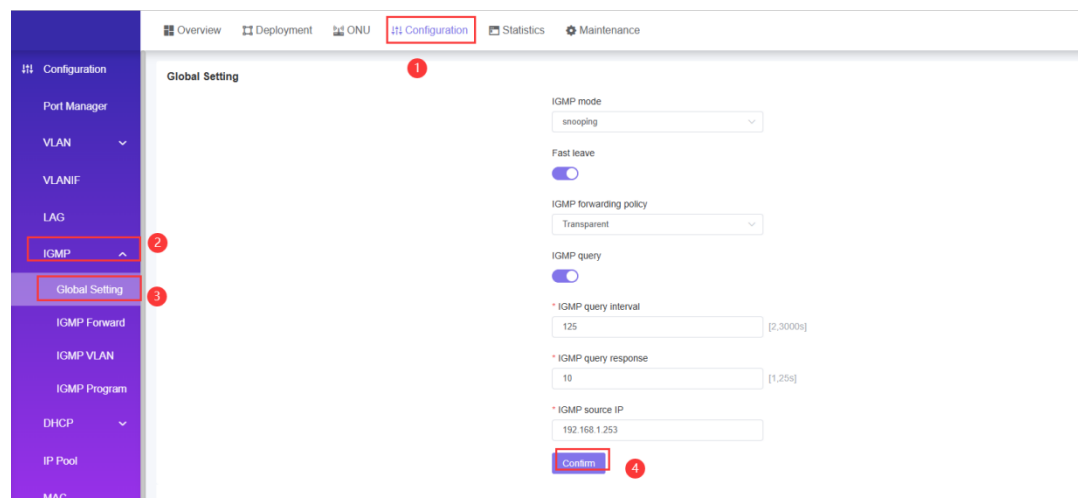
2. Set the Vlan you want to config ,here use vlan 100.

Once you're done creating your VLAN, click the "Confirm" button to close the pop-up window.

7.3.4 Configure OLT Multicast Service

IGMP global configuration:

Access path: Configuration ----> IGMP---->Global Setting



Overview Deployment ONU Configuration Statistics Maintenance

Configuration

Port Manager

VLAN

VLANIF

LAG

IGMP

Global Setting

IGMP Forward

IGMP VLAN

IGMP Program

DHCP

IP Pool

MAC

Global Setting

IGMP mode
snooping

Fast leave
On

IGMP forwarding policy
Transparent

IGMP query
On

* IGMP query interval
125 [2,3000s]

* IGMP query response
10 [1,25s]

* IGMP source IP
192.168.1.253

Confirm

FIG.16 IGMP global configuration

- 1.IGMP mode is selected as Snooping
- 2.Tap the button under Fast leave to open Fast leave
- 3.The forwarding strategy for IGMP is chosen to be Transparent
- 4.Click the button under IGMP Query to open IGMP Query
- 5.Enter the IGMP source IP which is the multicast source IP(the ip of the server that is broadcasting the show)

Multicast VLAN configuration:

Access path:Configuration ---->IGMP----> IGMP VLAN----> Click "Add" button, the page pops up multicast VLAN add popup window, the page pops up multicast VLAN add popup window

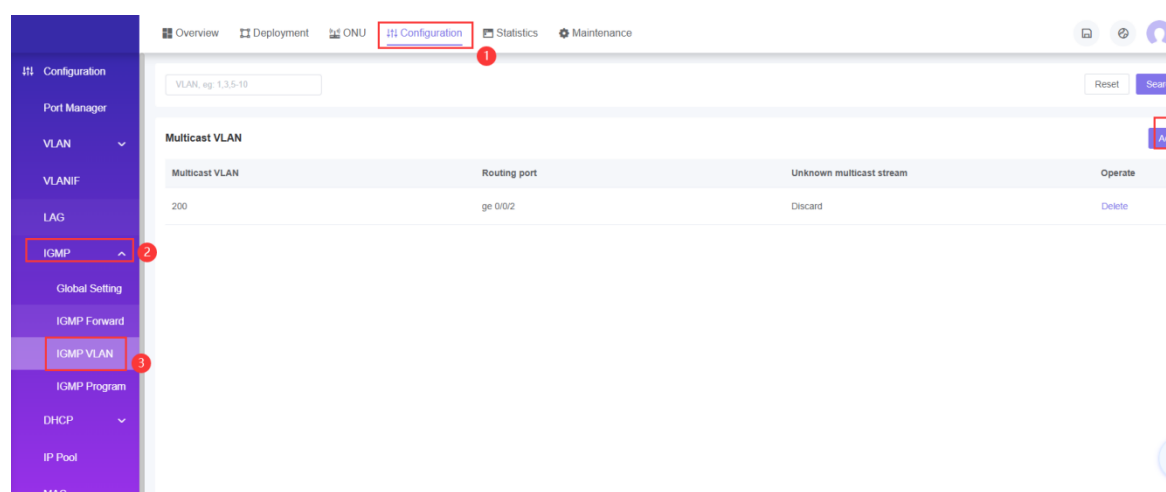


FIG.17 Multicast VLAN configuration-1

Add

* Multicast VLAN

200

[1,4094]

Unknown multicast stream

Transparent

* Routing port

☒ ge 0/0/1

☐ ge 0/0/2

☐ ge 0/0/3

☐ ge 0/0/4

☐ xge 0/0/1

☐ xge 0/0/2

☐ xge 0/0/3

☐ xge 0/0/4

☐ lag1

Cancel

Confirm

FIG. 18 Multicast VLAN configuration-2

Multicast VLAN program added :

Access path:Configuration ---->IGMP----> IGMP Program ----> Click "Add" button, the page will pop up multicast VLAN program add popup window

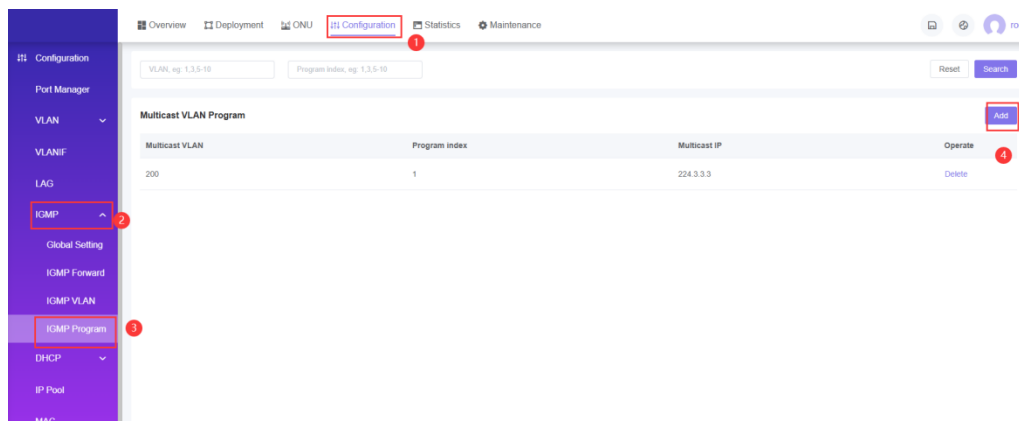


FIG.19 Multicast VLAN program configuration-1

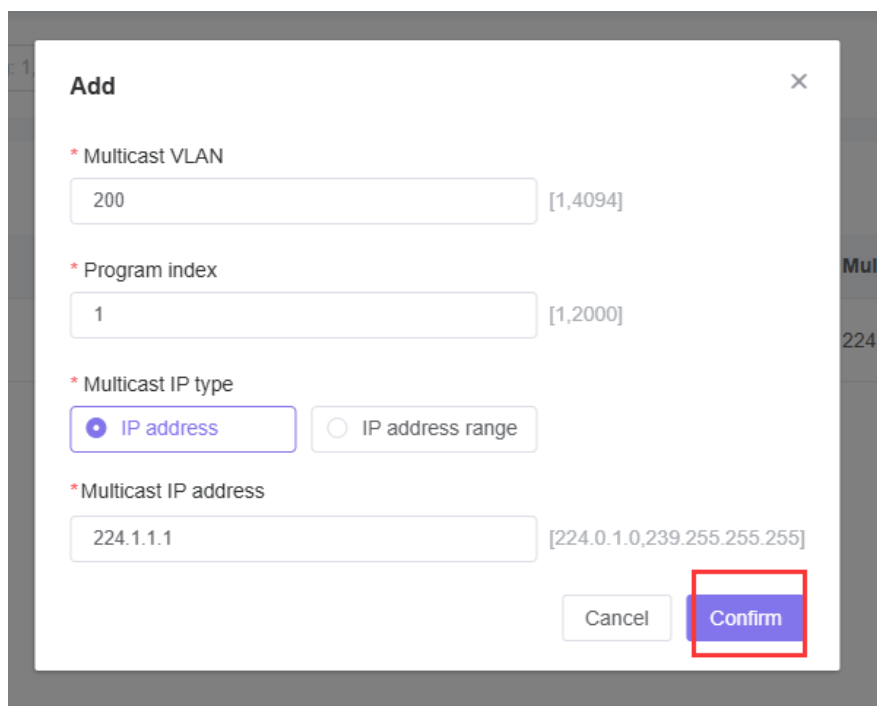


FIG.20 Multicast VLAN program configuration-2

Multicast forwarding

Access path:Configuration ---->IGMP----> IGMP Forwarding ----> Click "Add" button, fill in the multicast IP address,VLAN, and member port in turn in the pop-up window, click "Confirm" button after completion, the pop-up window closes.

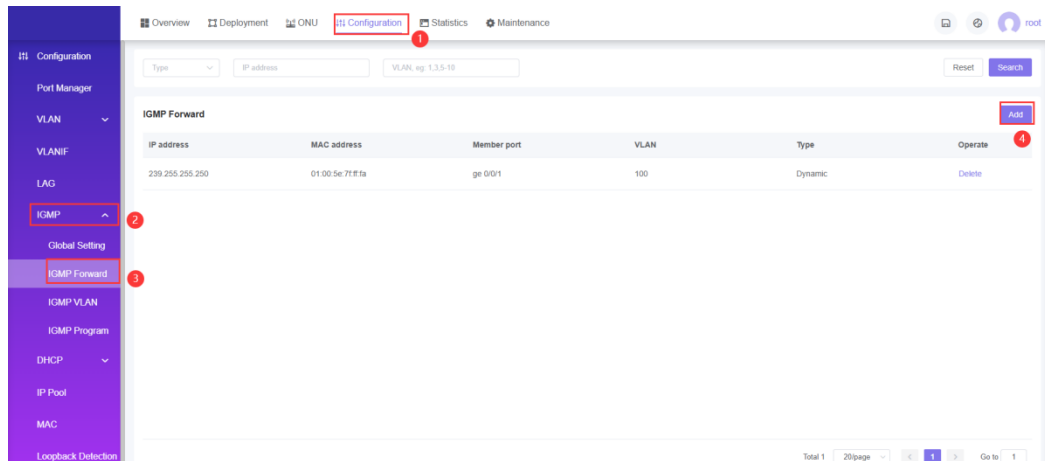


FIG. 21 Configuration of multicast forwarding-1

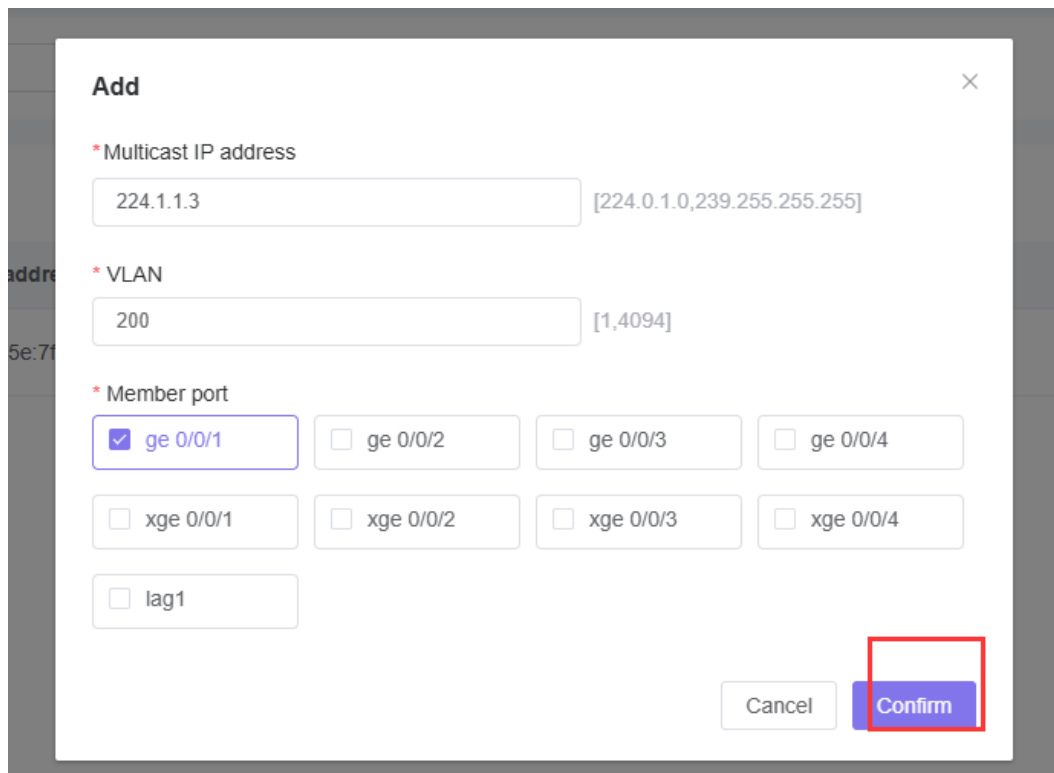


FIG. 22 Configuration of multicast forwarding-2

7.4 Configure Bridge ONU(SFU) Service

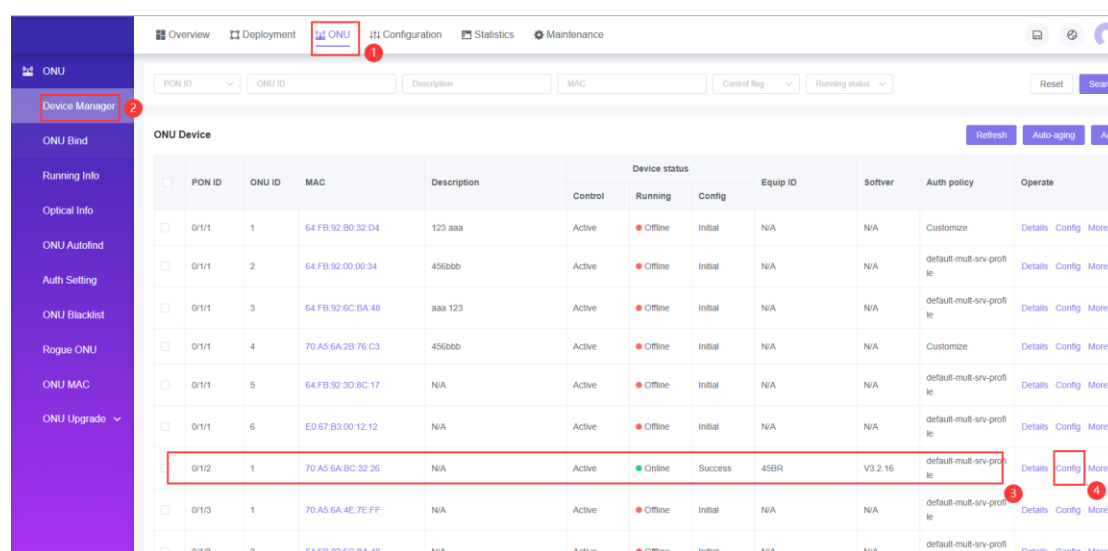
7.4.1 Configure Bridge Onu(SFU) Internet Service

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:

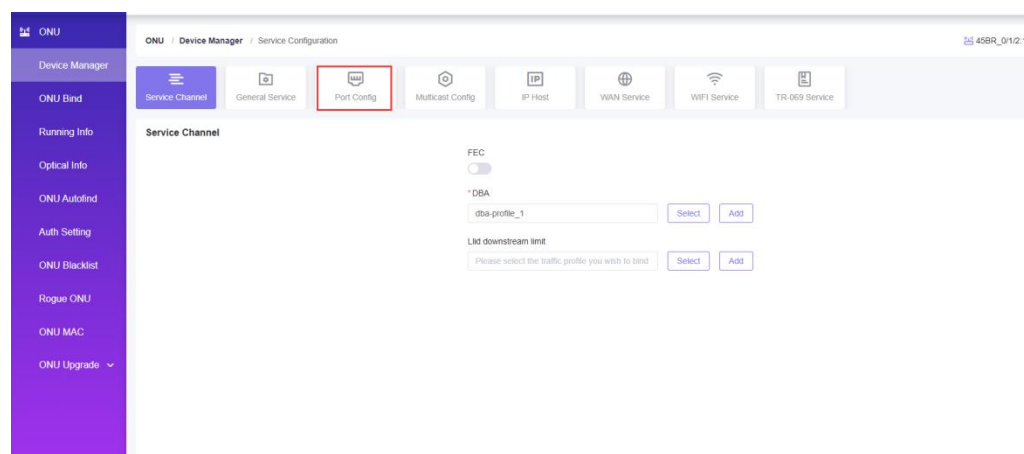
Access path:ONU---->Device Manager----> Click "Config" button(pls select the ONU you config)



PON ID	ONU ID	MAC	Description	Device status			Equip ID	Softver	Auth policy	Operate
				Control	Running	Config				
0/1/1	1	64 FB 92 B0 32 D4	123 aaa	Active	Offline	Initial	N/A	N/A	Customize	Details Config More
0/1/1	2	64 FB 92 00 00 34	456bbb	Active	Offline	Initial	N/A	N/A	default-mult-srv-profile	Details Config More
0/1/1	3	64 FB 92 6C BA 48	aaa 123	Active	Offline	Initial	N/A	N/A	default-mult-srv-profile	Details Config More
0/1/1	4	70 A5 6A 2B 76 C3	456bbb	Active	Offline	Initial	N/A	N/A	Customize	Details Config More
0/1/1	5	64 FB 92 3D 9C 17	N/A	Active	Offline	Initial	N/A	N/A	default-mult-srv-profile	Details Config More
0/1/1	6	E0 67 B3 00 12 12	N/A	Active	Offline	Initial	N/A	N/A	default-mult-srv-profile	Details Config More
0/1/2	1	70 A5 6A 8C 32 26	N/A	Active	Online	Success	45BR	V3.2.16	default-mult-srv-profile	Details Config More
0/1/3	1	70 A5 6A 4E 7E FF	N/A	Active	Offline	Initial	N/A	N/A	default-mult-srv-profile	Details Config More
0/1/3	2	64 FB 92 6C BA 48	N/A	Active	Offline	Initial	N/A	N/A	default-mult-srv-profile	Details Config More

FIG. 22 Config ONU port vlan-1

The page will pop up a window,then click the"Port Config"button,the page will redirect



ONU / Device Manager / Service Configuration

Service Channel

FEC

*DBA

dba-profile_1

Lld downstream limit

Please select the traffic profile you wish to bind

FIG. 23 Config ONU port vlan-2

First, select the ONU port you need, and then click the “Edit” button as shown in the diagram. A pop-up window will appear on the page

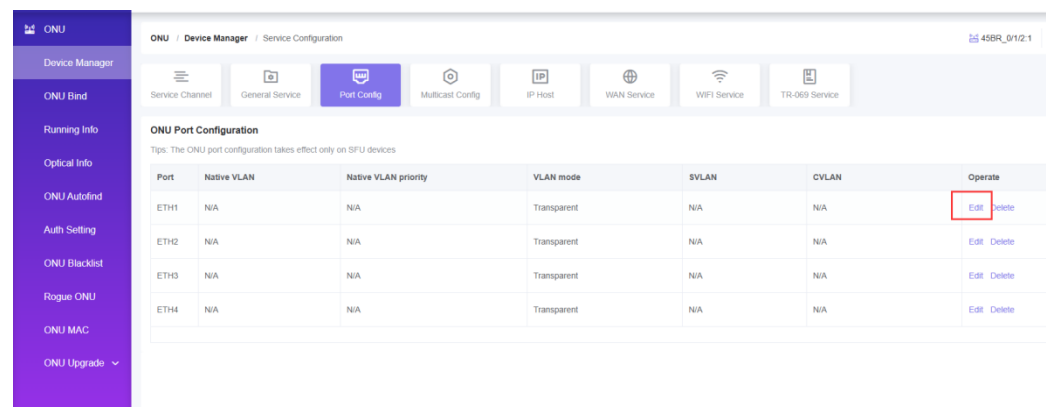


FIG. 24 Config ONU port vlan-3

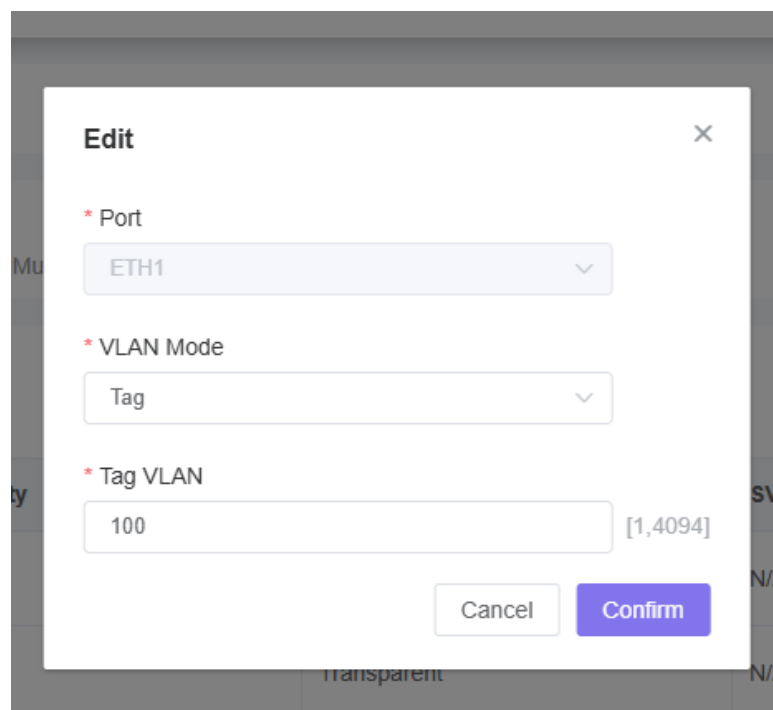


FIG. 25 Config ONU port vlan-4

7.4.2 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

In OLT discrete mode,we need enter OLT to config ONU multicast service,configure way as follows:

Access path:ONU---->Device Manager----> Click "Config" button(pls select the ONU you config),

Overview

Deployment

ONU

Configuration

Statistics

Maintenance

ONU

Device Manager

ONU Bind

Running Info

Optical Info

ONU Autofind

Auth Setting

ONU Blacklist

Rogue ONU

ONU MAC

ONU Upgrade

PON ID

ONU ID

Description

MAC

Control flag

Running status

Reset

Search

ONU Device

Refresh

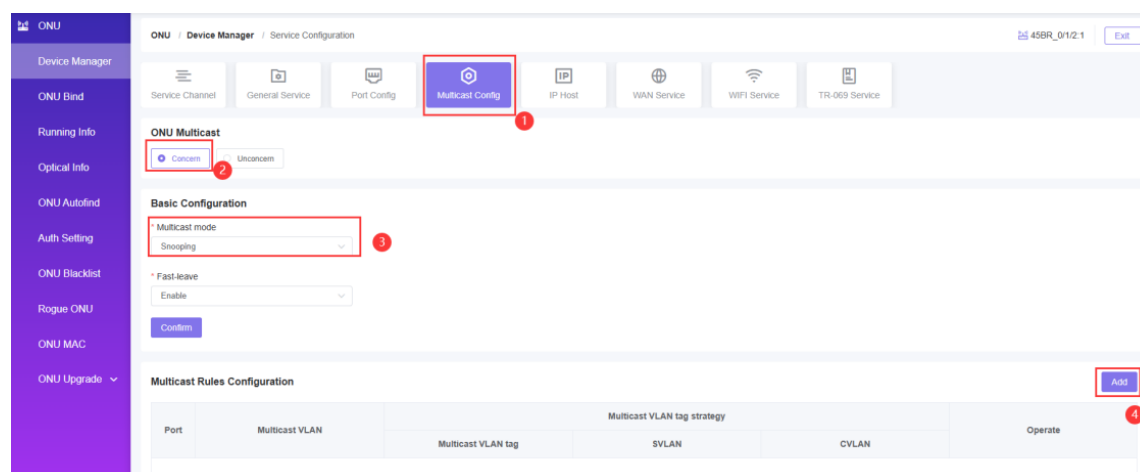
Auto-aggr

...

	PON ID	ONU ID	MAC	Description	Device status			Equip ID	Softver	Auth policy	Operate
					Control	Running	Config				
☐	0/1/1	1	64 FB 92 80 32 D4	123 aaa	Active	Offline	Initial	N/A	N/A	Customize	Details Config More
☐	0/1/1	2	64 FB 92 00 00 34	456bbb	Active	Offline	Initial	N/A	N/A	default-mult-srv-profile	Details Config More
☐	0/1/1	3	64 FB 92 6C BA 48	aaa 123	Active	Offline	Initial	N/A	N/A	default-mult-srv-profile	Details Config More
☐	0/1/1	4	70 A5 6A 2B 76 C3	456bbb	Active	Offline	Initial	N/A	N/A	Customize	Details Config More
☐	0/1/1	5	64 FB 92 3D 9C 17	N/A	Active	Offline	Initial	N/A	N/A	default-mult-srv-profile	Details Config More
☐	0/1/1	6	E0 67 B3 00 12 12	N/A	Active	Offline	Initial	N/A	N/A	default-mult-srv-profile	Details Config More
☐	0/1/2	1	70 A5 6A 8C 32 26	N/A	Active	Online	Success	45BR	V3.2.16	default-mult-srv-profile	Details Config More
☐	0/1/3	1	70 A5 6A 4E 7E FF	N/A	Active	Offline	Initial	N/A	N/A	default-mult-srv-profile	Details Config More
☐	0/1/3	2	64 FB 92 6C BA 48	N/A	Active	Offline	Initial	N/A	N/A	default-mult-srv-profile	Details Config More

FIG. 26 Config ONU Multicast Service-1

The page will pop up a window,then click the"Multicast Config"button,



ONU

Device Manager

ONU Bind

Running Info

Optical Info

ONU Autofind

Auth Setting

ONU Blacklist

Rogue ONU

ONU MAC

ONU Upgrade

Service Channel

General Service

Port Config

Multicast Config

IP Host

WAN Service

WiFi Service

TR-069 Service

ONU Multicast

Concern

Unconcern

Basic Configuration

Multicast mode

Snooping

Fast-leave

Enable

Confirm

Multicast Rules Configuration

Port

Multicast VLAN

Multicast VLAN tag strategy

Multicast VLAN tag

SVLAN

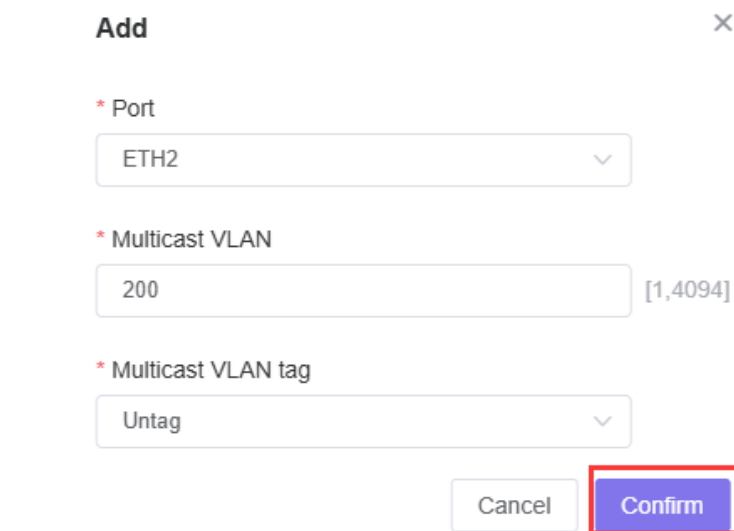
CVLAN

Operate

Add

FIG. 27 Config ONU Multicast Service-2

- 1.ONU Multicast choose“Concern”button.
 - 2.Multicast mode choose “Snooping”mode.
 - 3.Fast-leave choose“Enable”.
- After completion, click the “Confirm” button below.
- 4.Then click”Add”button,the following page will pop up



Add ✕

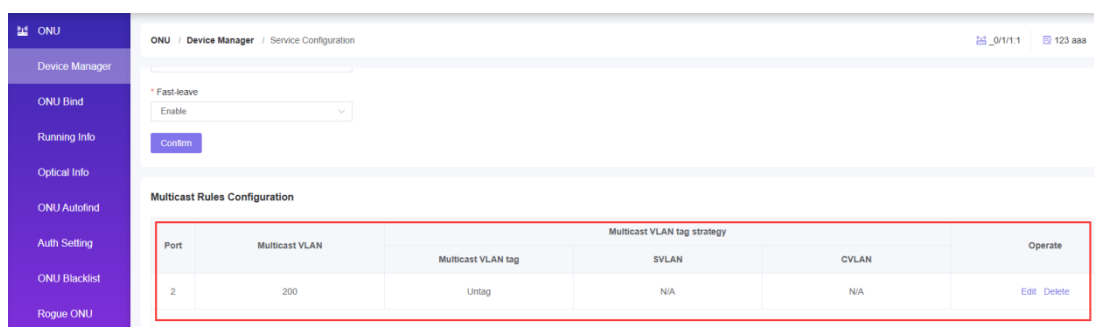
* Port

* Multicast VLAN
 [1,4094]

* Multicast VLAN tag

FIG. 28 Config ONU Multicast Service-3

After completing the configuration, you can view the Multicast Rules that you have configured.



ONU / Device Manager / Service Configuration					
* Fast-leave Enable					
Confirm					
Multicast Rules Configuration					
Port	Multicast VLAN	Multicast VLAN tag strategy			Operate
		Multicast VLAN tag	SVLAN	CVLAN	
2	200	Untag	N/A	N/A	Edit Delete

FIG. 29 Config ONU Multicast Service-4