



AX1700 XGSPON OLT

**Web GUI
Management
Manual**

Revision B

ACT AX1700 XGSPON OLT Web GUI Management Manual

ACT Document Number: ACT A1700 XGSPON OLT Web GUI Management Manual

Quick Reference Guide Revision B

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Revision History

Revision	Date	Reason for Change
A	05/28/2025	Initial release
B	07/10/2025	Update format

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1 Introduction

This chapter contains the following topics:

- Software Overview
- Functional Features

1.1 Software Overview

AX1700 1RU XGSPON OLT Web GUI Management System is a comprehensive Web management system, covering planning, configuration, deployment and O&M(operation and maintenance), providing intuitive visualization interfaces to gain efficient management. The software adopts B/S architecture and supports multiple users at the same time.

1.2 Functional Features

The main functional features of the OLT Web Management System are listed below:

- Visual Management and Configuration: Through the intuitive interface and visual guidance, users can easily manage and configure OLT devices to improve efficiency;
- Plug-and-Play Configuration of ONU devices: The system can quickly identify newly accessed ONU devices and automatically issue deployment policies, reducing the workload of manual config;
- Support User Rights Assignment: The system provides a flexible user permission management mechanism, allowing administrators to allocate permissions to different users as needed to ensure information security and effective management control;
- Support Multi-User Access with B/S Architecture: The system adopts B/S architecture, enabling users to access the system through common Web browsers without installing additional client software, and support multi-user access at the same time;
- Real-Time Performance Monitoring and Port Traffic Statistics Support: The system is capable of real-time performance data collection from ONUs attached to the OLT , along with port traffic statistics functionality. This assists users in monitoring and analyzing the operational status of the devices, facilitating prompt issue identification and resolution.

2 Login and Logout

This chapter contains the following topics:

- Login to Web Management System
- Logout of Web Management System

2.1 Logging in and out of the Web Management System

Precondition

OLT Web Management System adopts B/S architecture, before logging in, please ensure that there is a stable network connection between the current PC and the OLT device, and that the OLT device is functioning properly.

Default Information

OLT Web provides 4 initial users by default as follows:

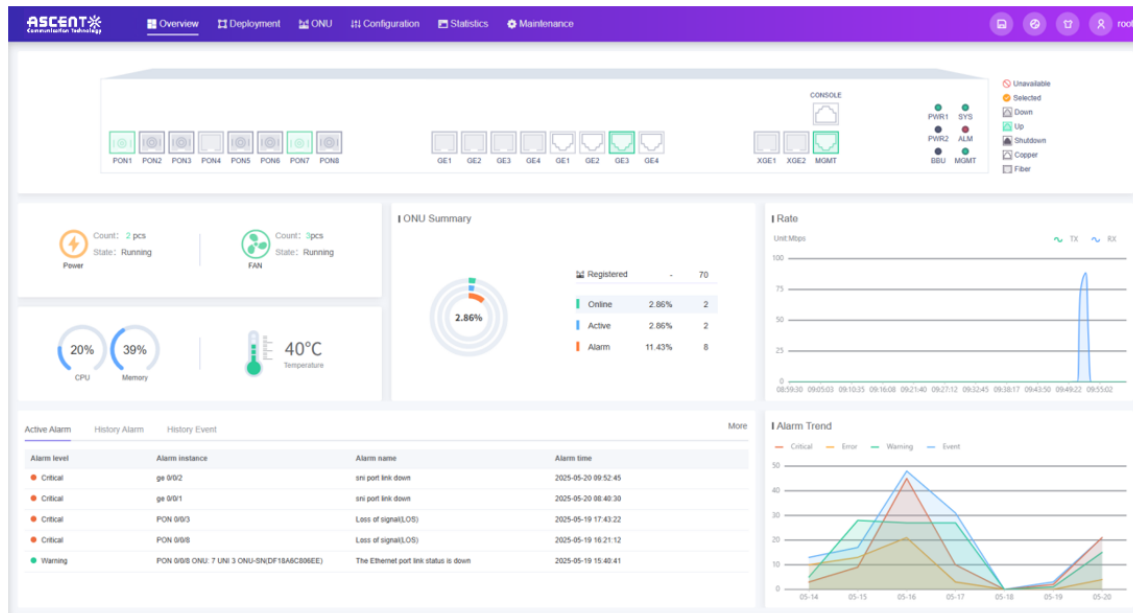
Username	Role	Password	Descriptions
root	Root	admin	The user possesses full operational permissions for all managed objects within the OLT Web Management System
admin	Admin	admin	The user possesses full operational permissions within the OLT Web Management System except for deletion of users.
operator	Operator	admin	The user has access and operational permissions for common functions within the OLT Web Management System.
guest	Guest	guest	The user has only access permissions.

Note:

The IP address of the out-of-band network manager for the AX1700 series is 192.168.1.100. After logging in to the network element through the serial port, you can view the out-of-band network manager's IP address using the OLT(config)# show interface mgmt command.

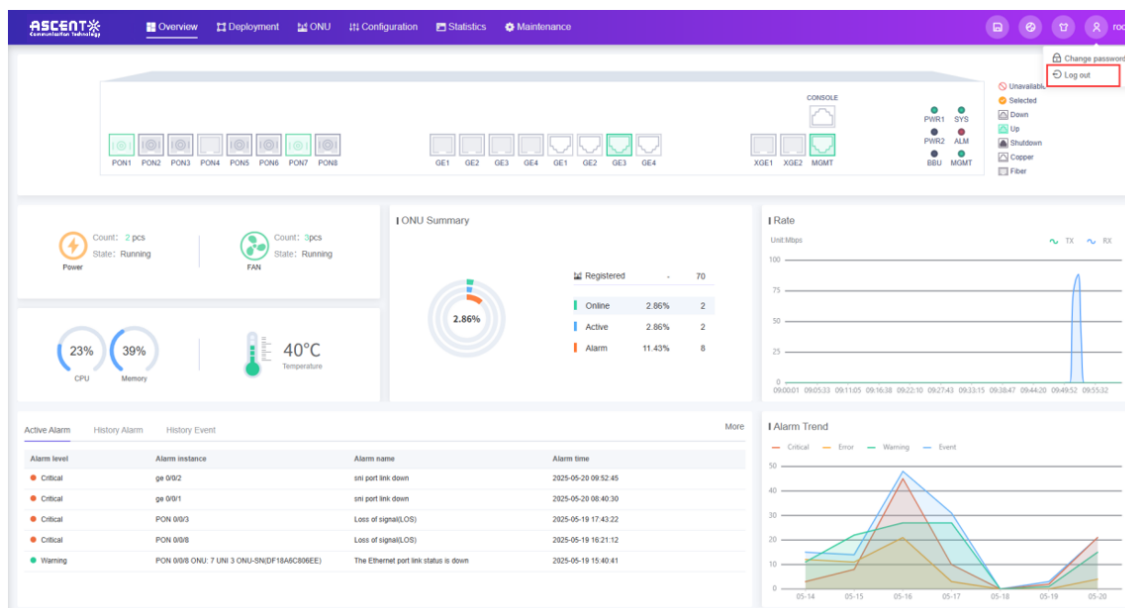
Login to OLT Web Management System

- Enter the out-of-band management IP address (192.168.1.100 by default) or in-band management IP of the OLT device in your browser's address bar to access the login page,
- Enter your username and password on the login page and click the "**Login**" button,
- Upon successful login, the system will redirect you to the main page of the OLT Web Management System, and a typical initial page is shown in below figure.



Logout of OLT Web Management System

- Hover or click on the "Profile" icon in the upper-right corner of the OLT Web Management System;
- Click the "Log out" option in the dropdown menu;



- Confirm by selecting the "Confirm" in the prompt dialog.

3 OLT Web Management System Overview

This chapter contains the following topic:

- OLT Web Management Interface Components

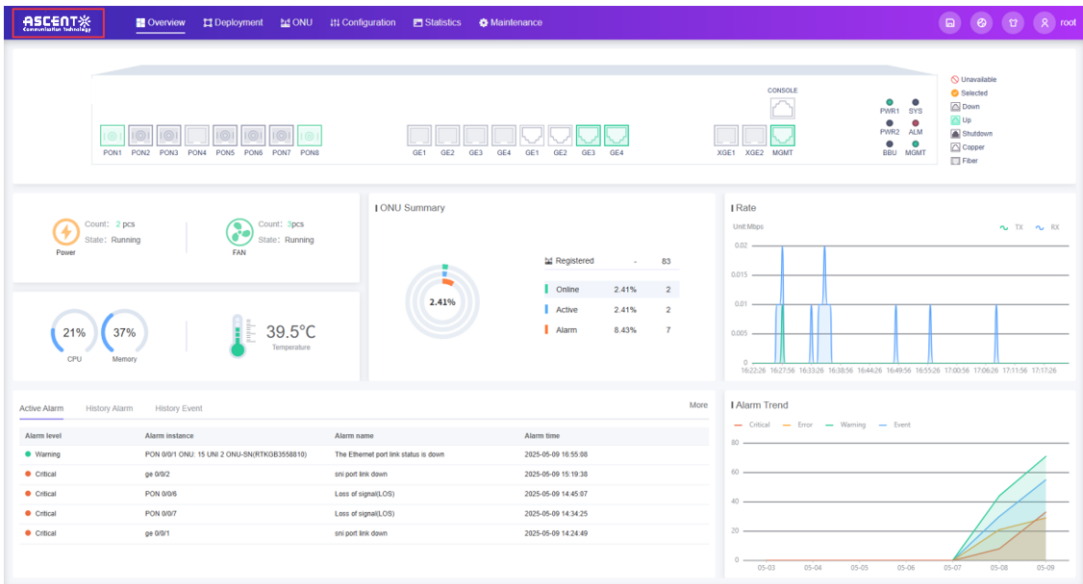
3.1 OLT Web Management Interface Components

The OLT Web Management System interface consists of the following main sections:

- Corporate Identity Zone
- Main menu area
- General function area
- Sub-menu area
- Content area

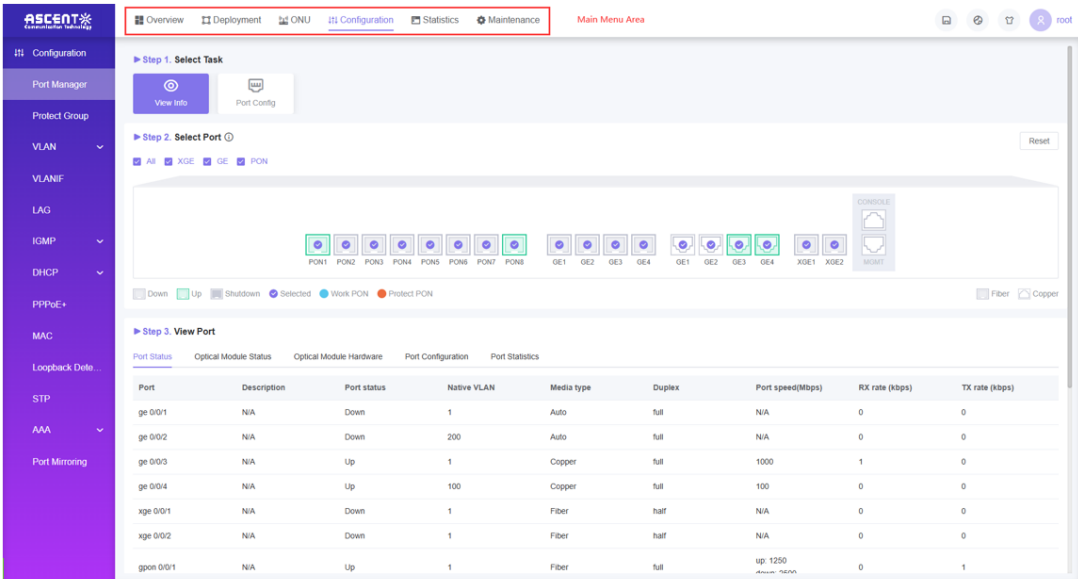
3.1.1. Corporate Identity Zone

Display the Logo information of the company, highlighting the enterprise brand.



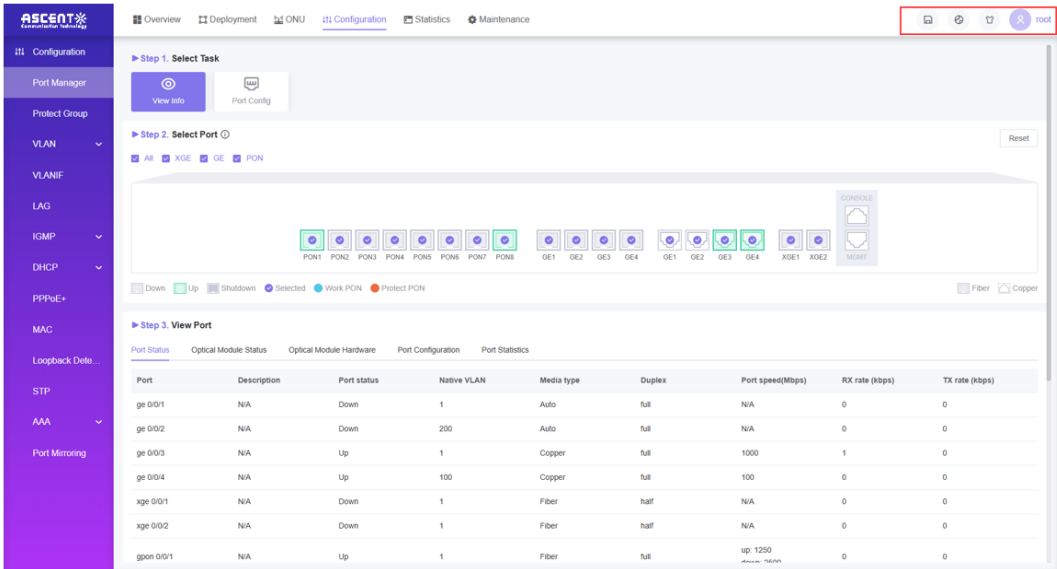
3.1.2. Main Menu Area

Main entry areas to various functions within the OLT Web management system.



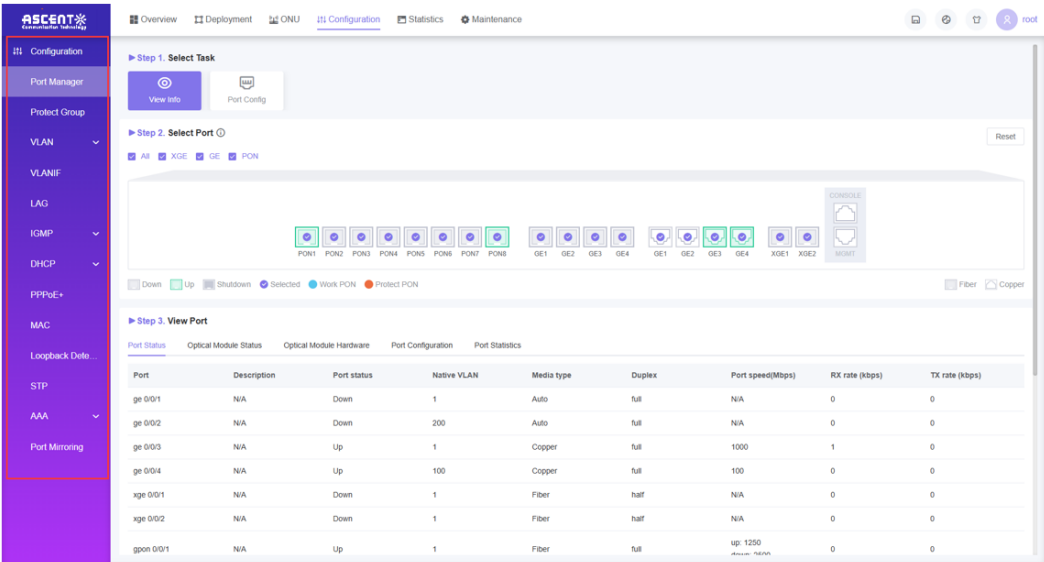
3.1.3. General Function Area

Displays the common functions and information, such as: configuration saving, language switching, color, user name, password changing, logout, etc., to improve user experience and convenient operation.



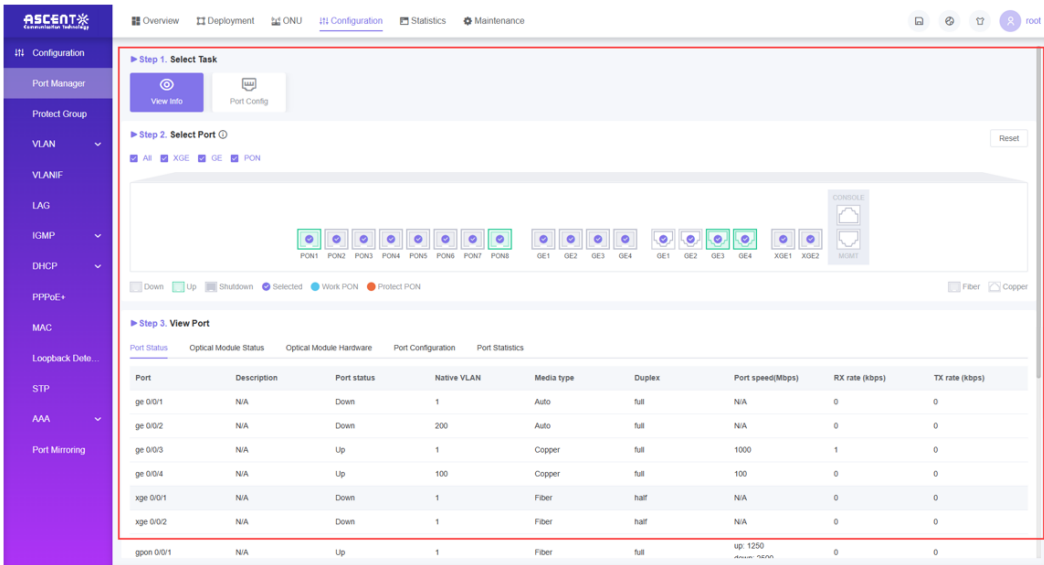
3.1.4. Sub-Menu Area

Sub-menus under the main menu, assisting users in selecting required functions and operations in a more detailed manner.



3.1.5. Content Area

Used to display the specific content of the page, presenting the various information and operational interface required by the user.



4 OLT Overview

This chapter contains the following topic:

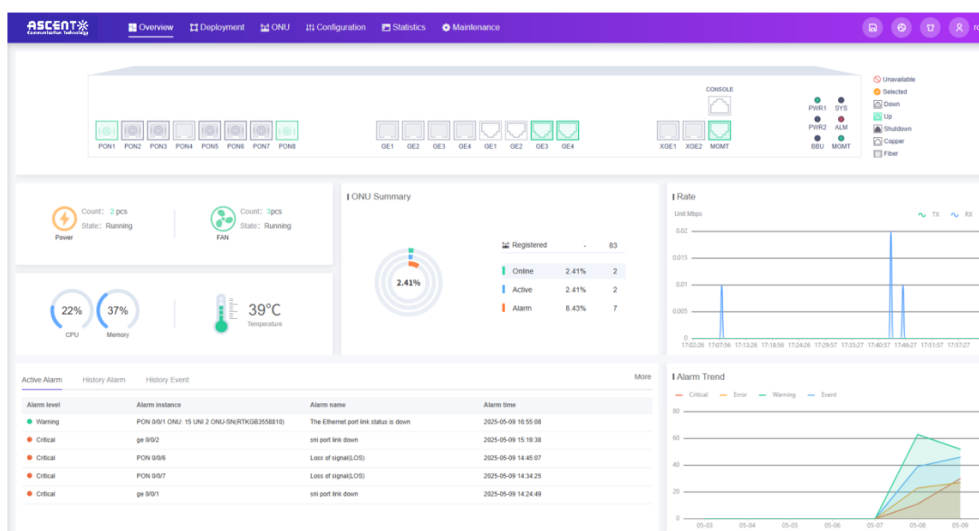
- Overview Interface

4.1 Overview Interface

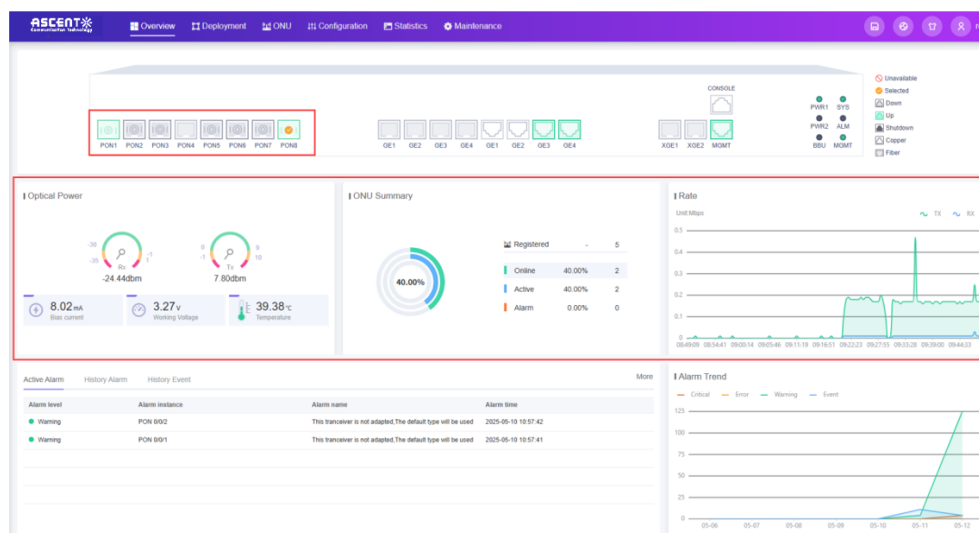
The OLT Web management system offers a comprehensive and flexible centralized monitoring method to monitor the operational status of OLT devices and their associated devices. It provides users with an intuitive display of device health and quality, facilitating efficient operations and maintenance.

- Users routinely monitor the operational status of the current OLT device, port status, and view any alarm messages and trends through the [Overview] page.
- Monitor the operational status and performance of critical resources

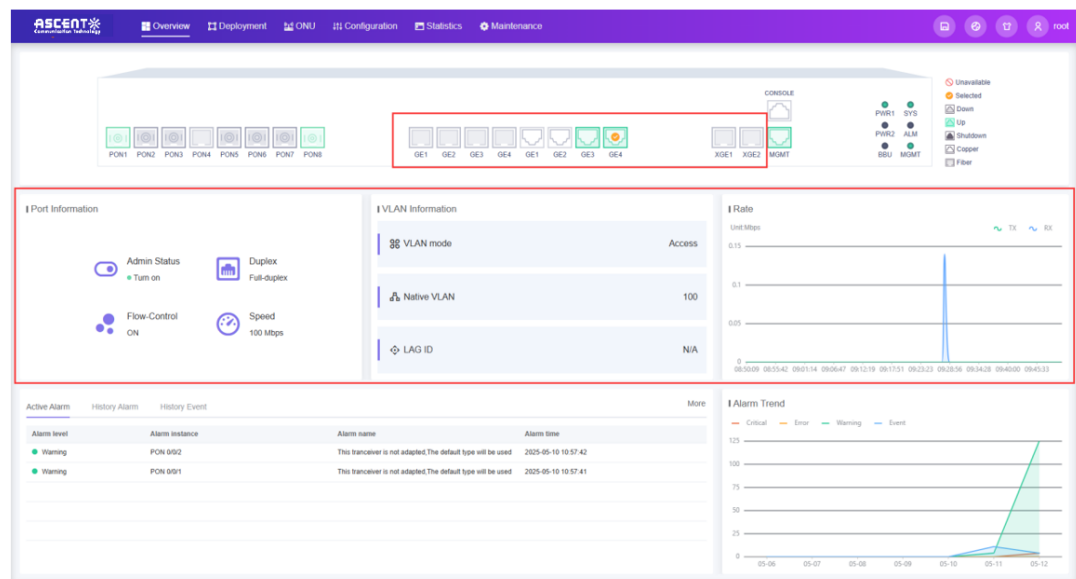
Device Information Overview



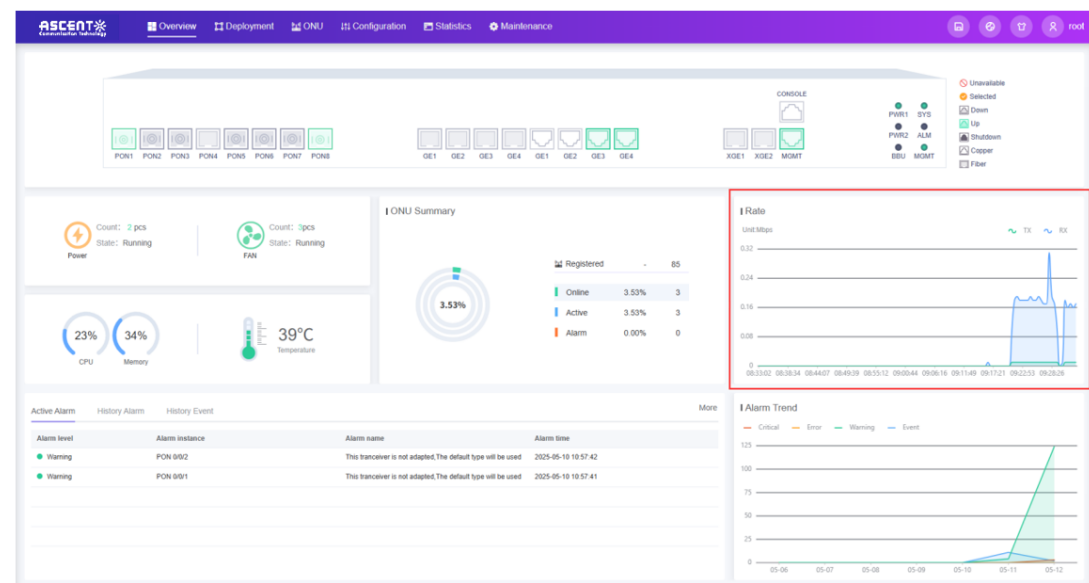
PON Ports Overview



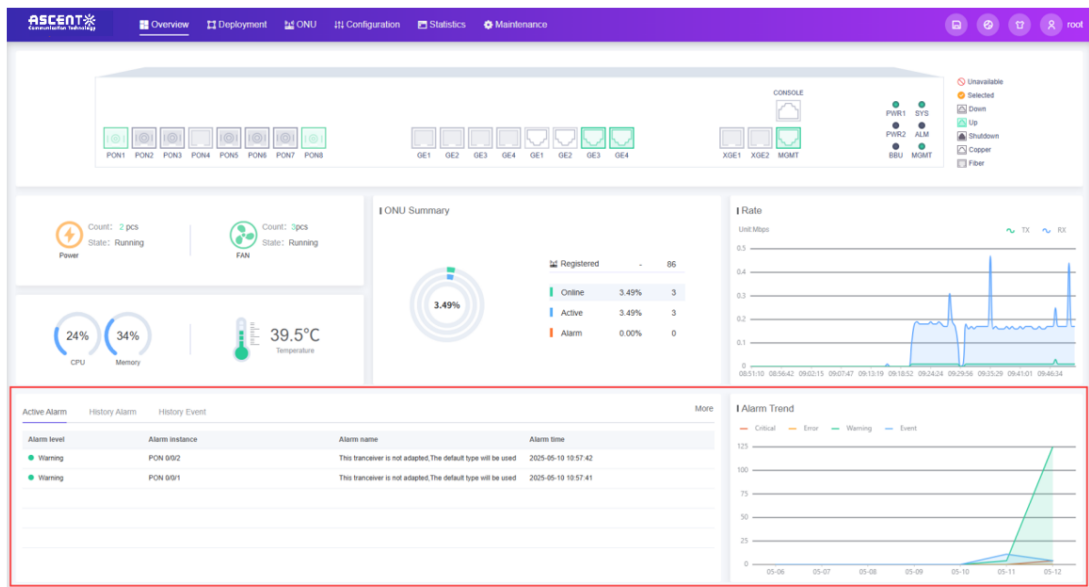
Uplink Ports Overview



Bandwidth Monitor Overview



Alarm and Event Overview



5 ONU Deployment

This chapter contains the following topics:

- Auth Policy
- Apply Policy
- Profile

The OLT Web Management System offers the capability to plan services for PON network ONU terminal devices after the OLT device has been deployed. Once the PON terminal ONU devices are powered on, they can automatically receive business configurations according to the pre-set deployment strategy, enabling device activation.

5.1 Auth Policy

In the deployment of XGS-PON/GPON OLT networks, a significant number of ONU devices need to be deployed, which can be labor-intensive and costly to configure and test. The [Deployment] page of the OLT Web Management System facilitates simplified deployment. It only requires pre-creating the ONU Auth Policy and applying it to the OLT's PON ports. Upon the ONU online for the first time, the OLT device can automatically detect the online ONU and match it with the existing policy. Once successfully matched, the OLT device will automatically create and execute ONU deployment tasks, achieving a Plug-and-Play deployment for ONU devices. This significantly enhances deployment efficiency and reduces network construction costs.

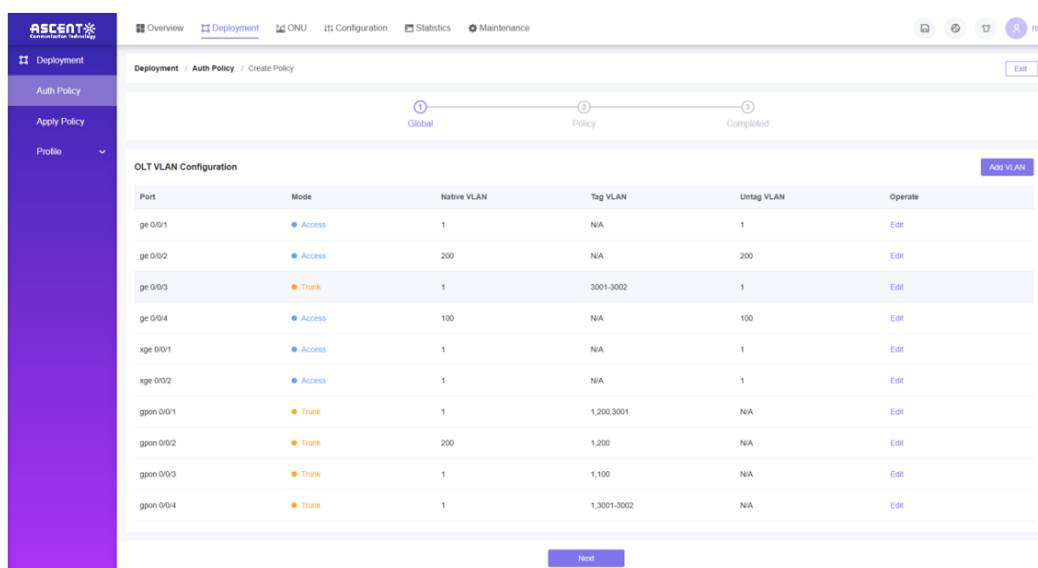
Policy List

- Access path: **Deployment** ---->**Auth Policy**.

Creating Policy

- Path: **Deployment** ---->**Auth Policy** ---->Click the "**Create Policy**" button to enter the guidelines.
- Creating process:

Step 1: [REQUIRED] Global Configuration - Use this operation to create global configurations for the OLT, primarily including configuring VLANs and uplink ports for the OLT.



Step 2: [REQUIRED] Policy Configuration - Be used to bind Line profile, Service profile, TR-069 profile, WAN profile for auth policy.

(1) For **GPON OLT**, the Type option is **gpon** only.

The screenshot shows the 'Create Policy' interface in the ASCENT Web GUI. The left sidebar has a purple background with the 'ASCENT' logo and navigation links: Overview, Deployment, ONU, Configuration, Statistics, and Maintenance. The 'Deployment' section is expanded, showing 'Auth Policy', 'Apply Policy', and 'Profile'. The main area displays the 'Create Policy' form with a progress bar at the top indicating three steps: 1. Global, 2. Policy, and 3. Completed. The 'Policy' step is currently active. The form includes the following fields:

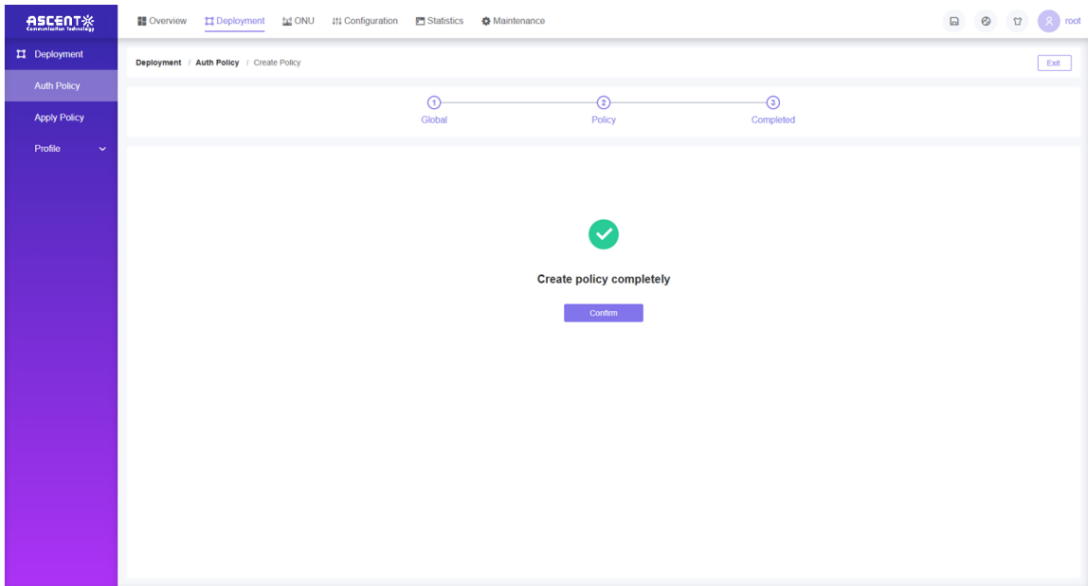
- Type:** A dropdown menu with 'gpon' selected.
- Policy name:** A text input field containing 'multi-srv-profile_5'.
- Line Profile:** A dropdown menu with 'Please select' and a 'Manage' button.
- Service Profile:** A dropdown menu with 'Please select' and a 'Manage' button.
- TR-069 profile:** A dropdown menu with 'Please select' and a 'Manage' button.
- WAN Profile:** A dropdown menu with 'Please select' and a 'Manage' button.

 At the bottom of the form is a 'Next' button.

(2) For **XGS-PON OLT**, the Type option could be **gpon**, **xg-pon**, **xgs-pon**.

This screenshot shows the same 'Create Policy' interface as the previous one, but for XGS-PON OLT. The 'Type' dropdown menu is open, revealing three options: 'gpon', 'xg-pon', and 'xgs-pon'. The 'xg-pon' and 'xgs-pon' options are highlighted with a red box. The other fields and the progress bar remain the same as in the previous screenshot.

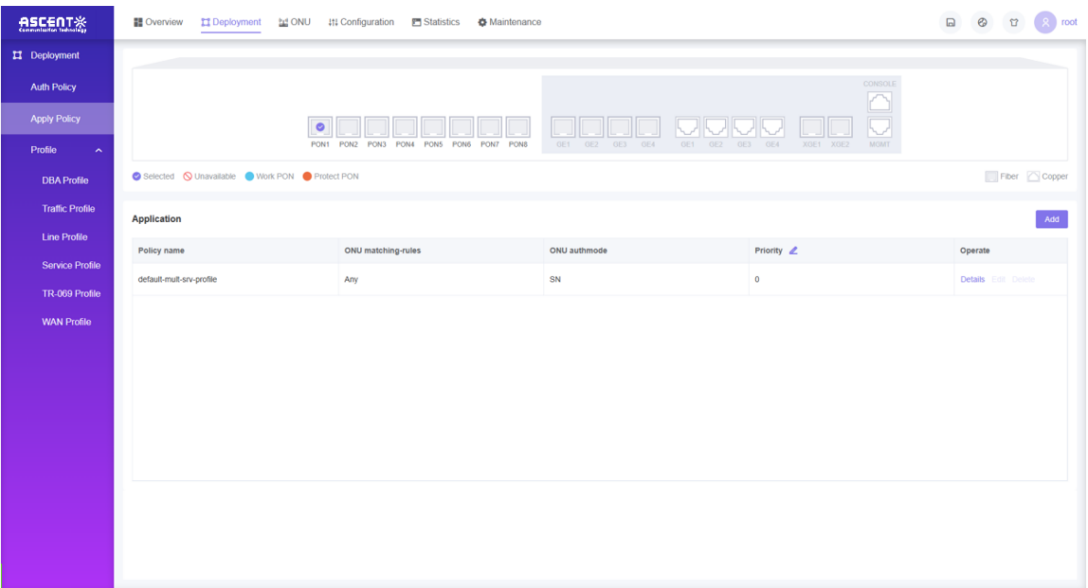
Step 3: [REQUIRED] Completed - The guided process of deploying the policy concludes at these steps, and the system guides the user into the process of applying the policy.



5.2 Apply Policy

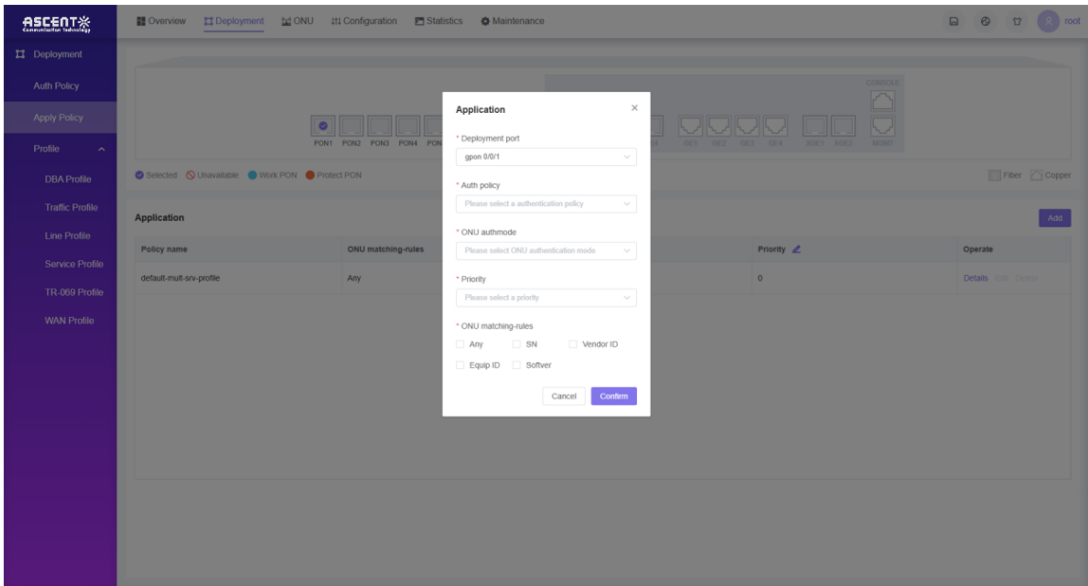
Apply Policy

- Access path: **Deployment** ---->**Apply Policy**.



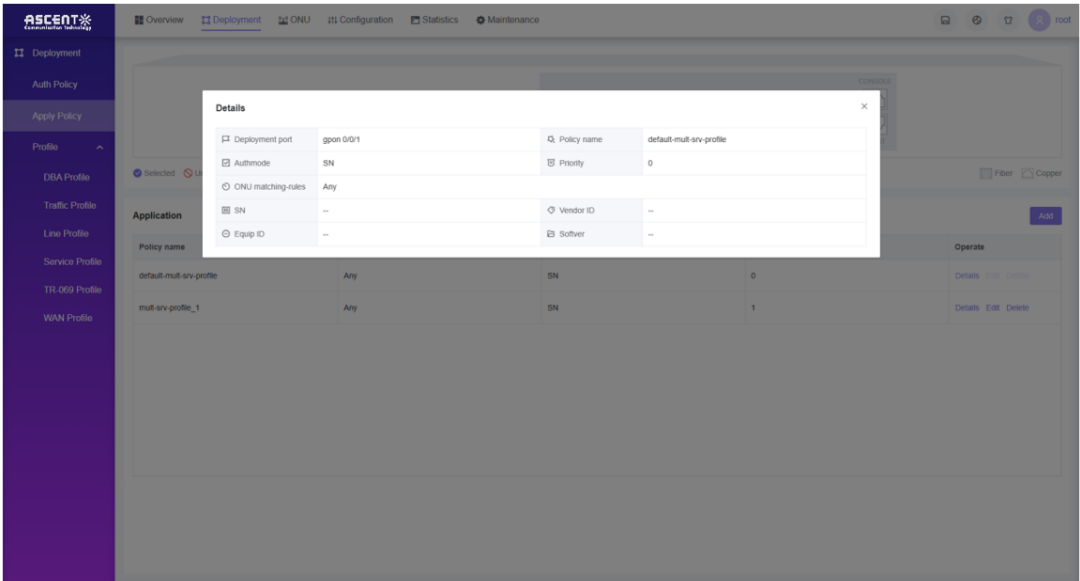
Adding Policy Application Rules

- Purpose: Used to apply the configured ONU deployment policy in the OLT Web Management System to the PON port of the OLT.
- Operation path: **Deployment** ---->**Apply Policy** ---->Select the "PON" port that needs to be configured ---->Click the "Add", and a pop-up window for policy application configuration will appear on the page.



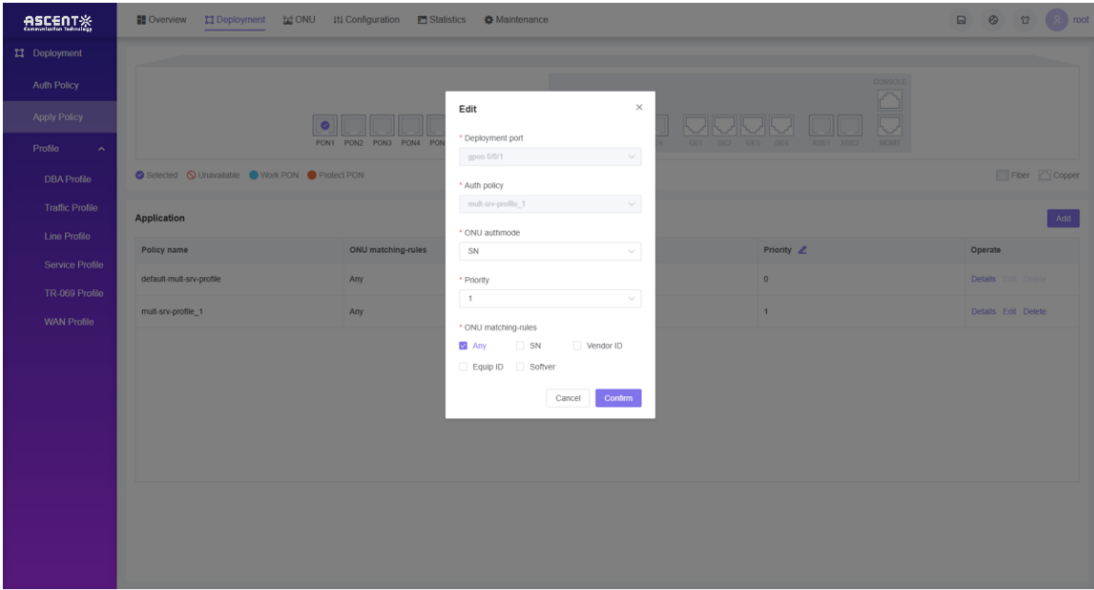
Details of Policy Application Rules

- Operation path: **Deployment** ---->**Apply Policy** ---->Select the "**PON**" ports that need to be configured ---->Select the policy application rules that need to be viewed ---->Click the "**Detail**", and a pop-up window will appear with the details of the policy application.



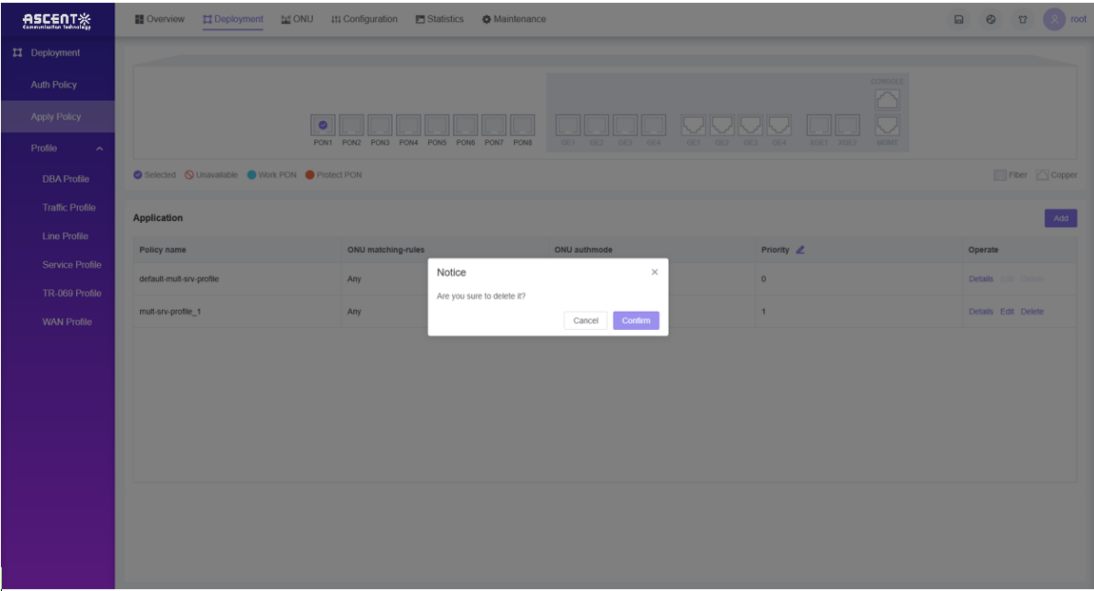
Rules Edit

- Operation path: **Deployment** ---->**Apply Policy** ---->Select the "**PON**" ports that need to be configured ---->Select the policy application rules that need to be edited ---->Click the "**Edit**", and a pop-up window will appear on the page for editing the policy application.



Delete Policy Application Rules

- Operation path: **Deployment** ---->**Apply Policy** ---->Select the "PON" ports that need to be configured ---->Select the policy application rules that need to be deleted ---->Click the "Delete", and the page will pop up the delete prompt.



5.3 Profile

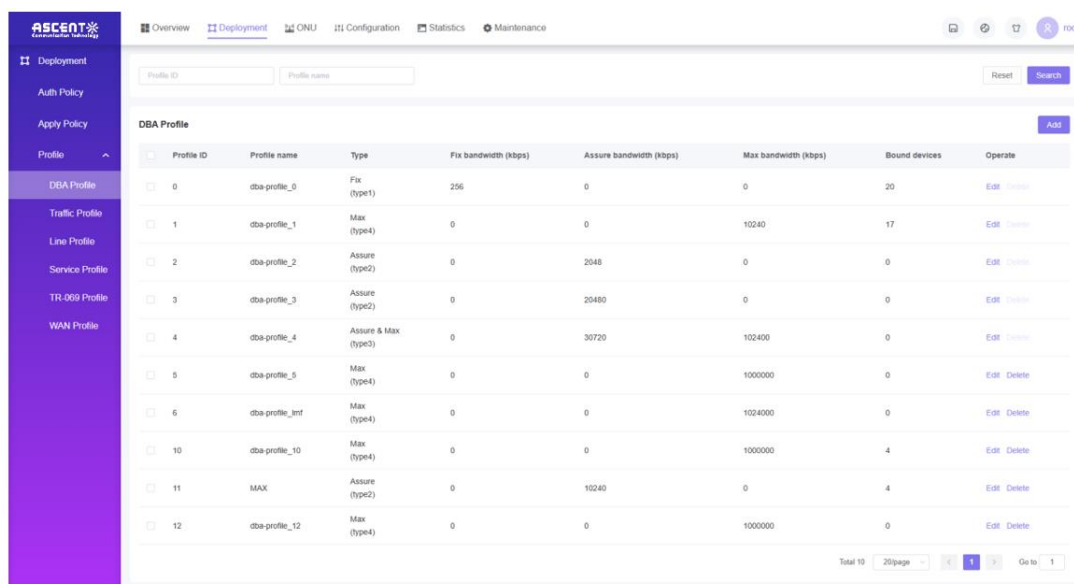
The profile configuration function integrates relevant configuration information, and users only need to select a pre-set profile to bind ONU, which improves the efficiency of management configuration. The profile function provides 6 types of profile configurations, including DBA Profile, Traffic Profile, Line Profile, Service Profile, TR-069 Profile, WAN Profile.

5.3.1. DBA Profile

In XGS-PON/GPON networks, uplink dynamic bandwidth allocation (DBA) technology is the key to achieving efficient utilization of network resources. DBA technology can dynamically adjust the upstream bandwidth allocation of ONUs based on their bandwidth requirements and network conditions, ensuring that network resources are fully utilized. The DBA Profile is used to set a predetermined bandwidth for the ONU..

DBA Profile List

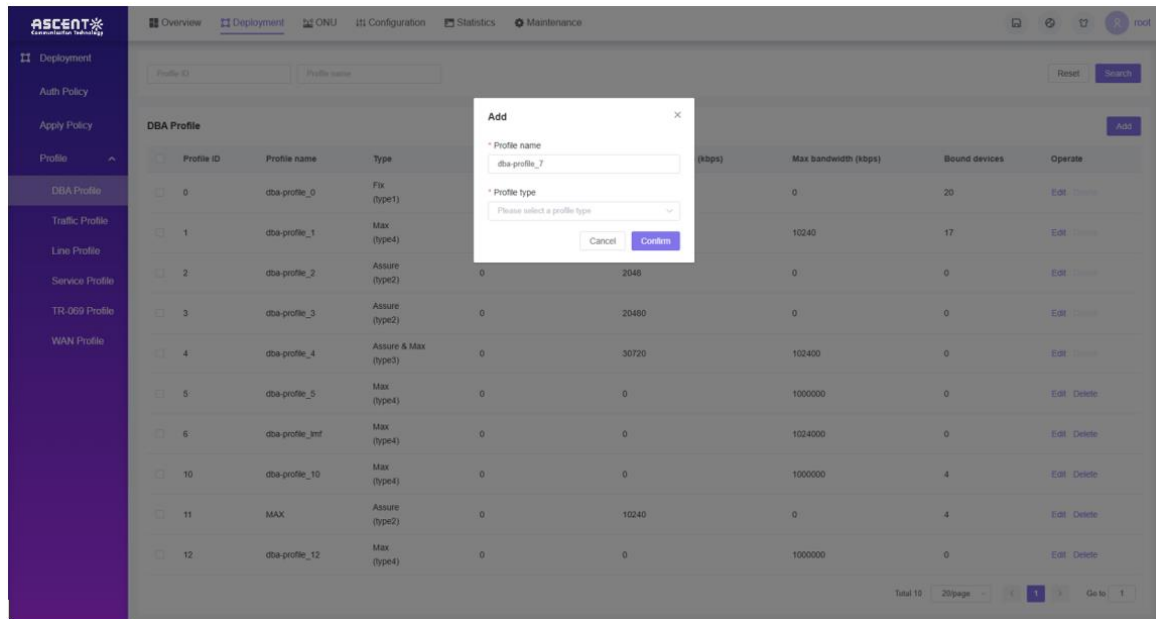
- Access path: **Deployment** ---->**Profile** ----> **DBA Profile**.



Profile ID	Profile name	Type	Fix bandwidth (kbps)	Assure bandwidth (kbps)	Max bandwidth (kbps)	Bound devices	Operate
0	dba-profile_0	Fix (type1)	256	0	0	20	Edit Delete
1	dba-profile_1	Max (type4)	0	0	10240	17	Edit Delete
2	dba-profile_2	Assure (type2)	0	2048	0	0	Edit Delete
3	dba-profile_3	Assure (type2)	0	20480	0	0	Edit Delete
4	dba-profile_4	Assure & Max (type3)	0	30720	102400	0	Edit Delete
5	dba-profile_5	Max (type4)	0	0	1000000	0	Edit Delete
6	dba-profile_inf	Max (type4)	0	0	1024000	0	Edit Delete
10	dba-profile_10	Max (type4)	0	0	1000000	4	Edit Delete
11	MAX	Assure (type2)	0	10240	0	4	Edit Delete
12	dba-profile_12	Max (type4)	0	0	1000000	0	Edit Delete

Add DBA Profile

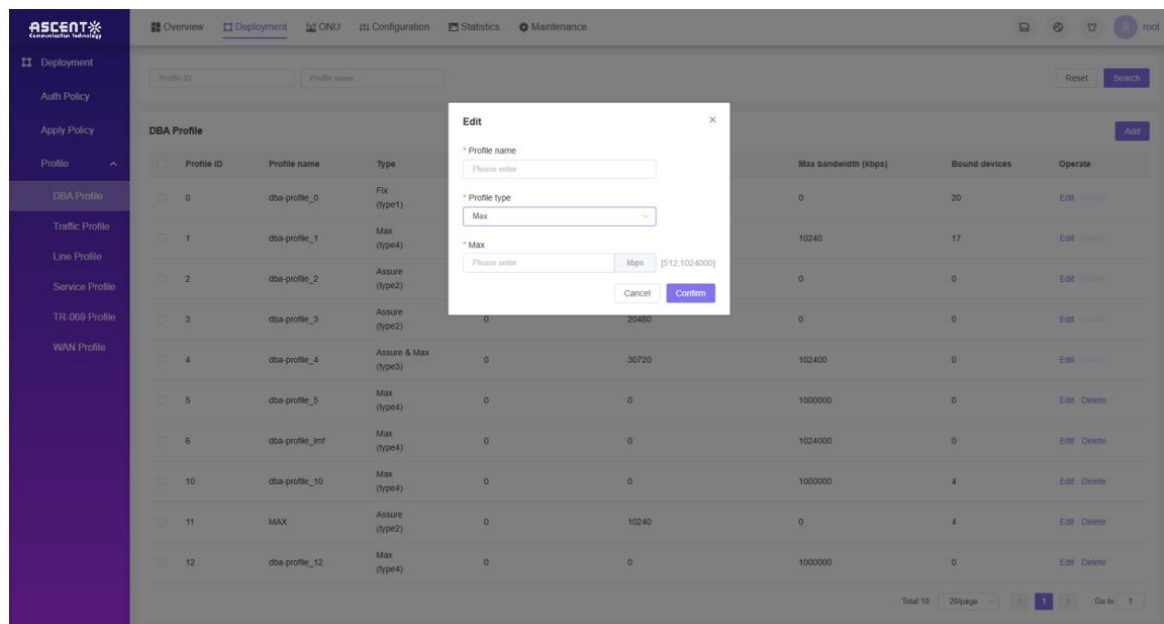
- Path: **Deployment** ---->**Profile** ----> **DBA Profile** ---->Click the "Add" button and a pop-up windows will appear.



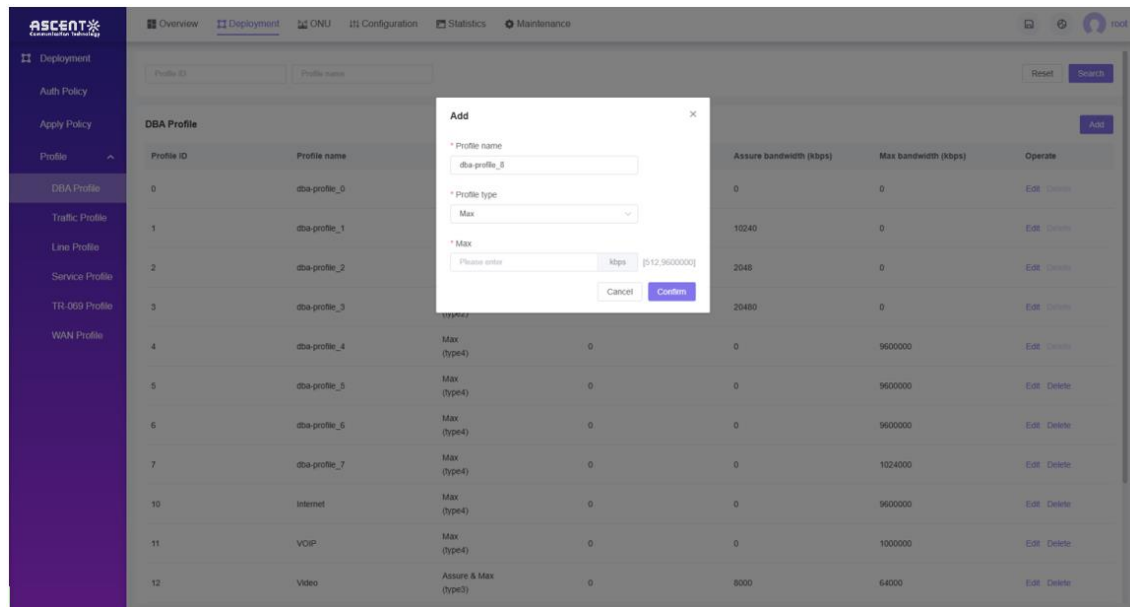
Edit DBA Profile

- Access path: **Deployment** ----> **Profile** ----> **DBA Profile**---->Select the DBA profile needed to be edited ---->Click the "**Edit**", and the DBA profile editing pop-up window will appear.

(1) For **GPON DBA profile**, the max bandwidth is 1024000 kbps.

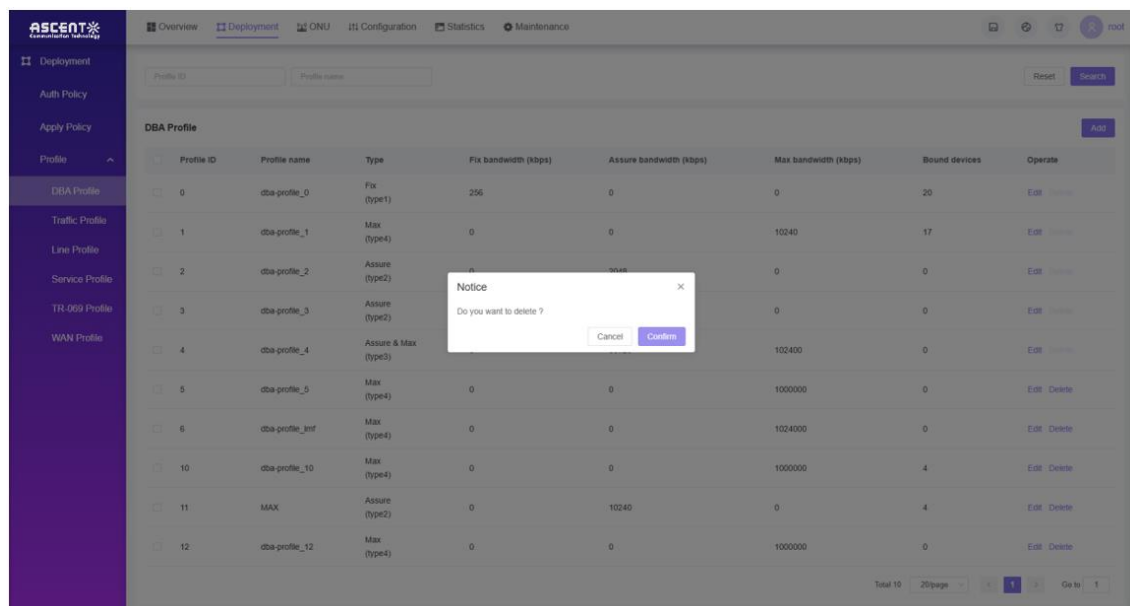


(2) For **XGS-PON DBA profile**, the max bandwidth is 9600000 kbps.



Delete DBA Profile

- Access path: **Deployment** ---->**Profile** ---->**DBA Profile**---->Click the "**Delete**" that the DBA profile needed to be deleted, and a pop-up windows will appear.



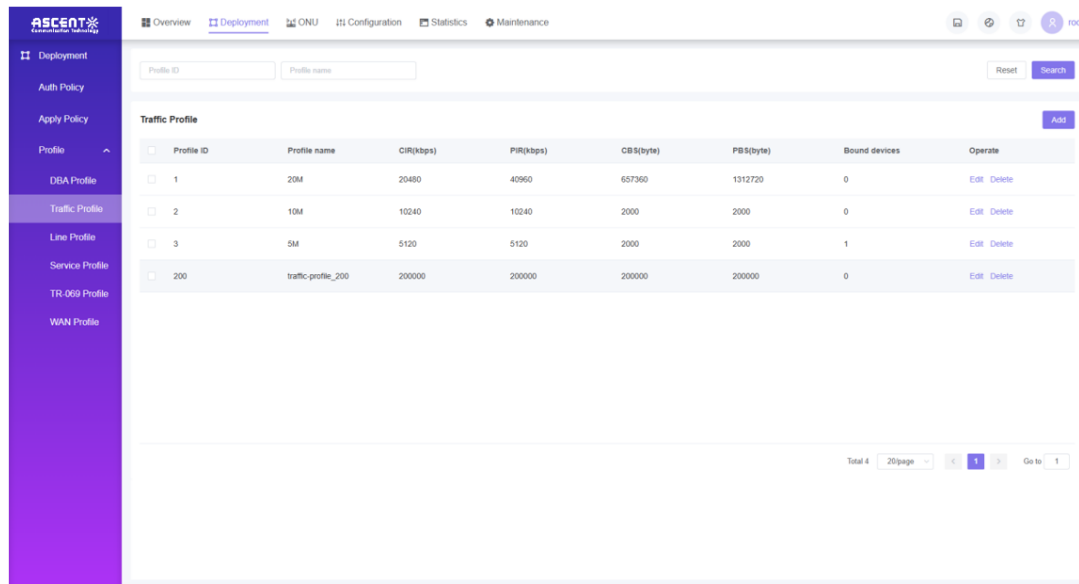
- Click the "**Confirm**" to delete it.

5.3.2. Traffic Profile

The Traffic Profile is used to set a predetermined speed rate to limit device.

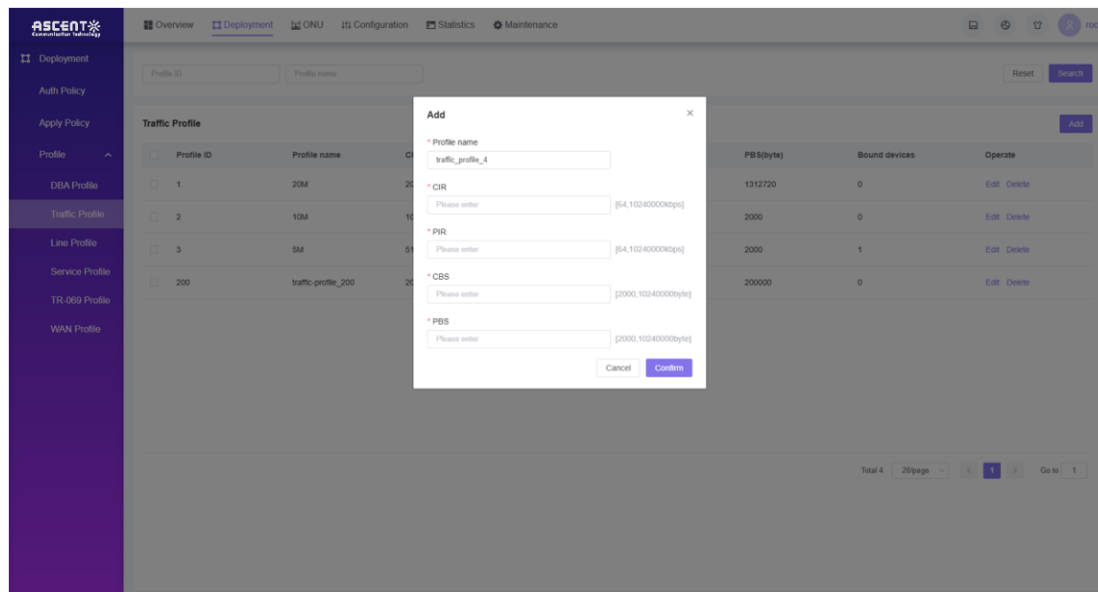
Traffic Profile List

- Access path: **Deployment** ---->**Profile** ----> **Traffic Profile**.



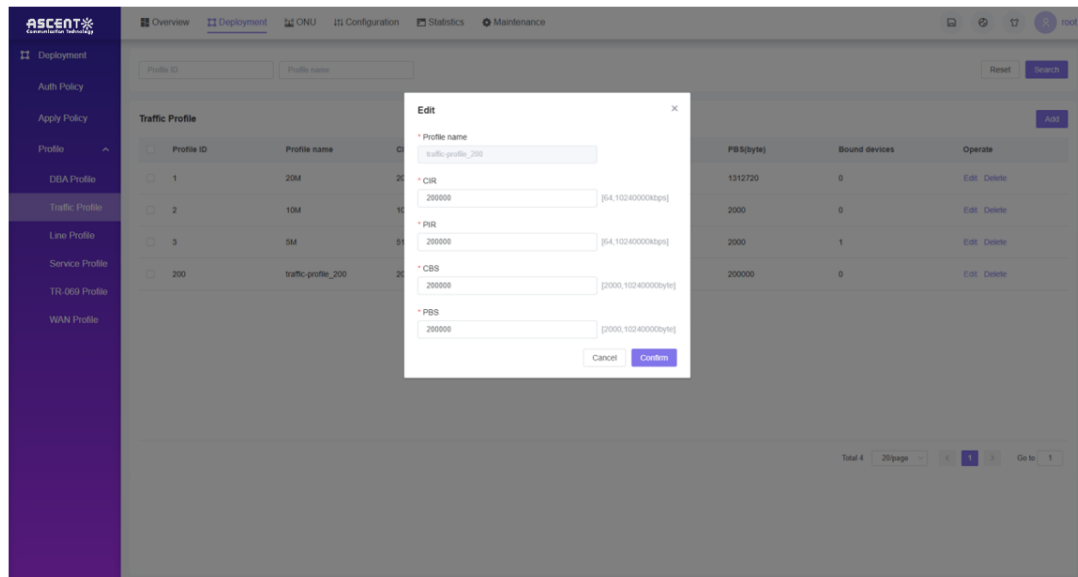
Add Traffic Profile

- Path: **Deployment** ----> **Profile** ----> **Traffic Profile** ----> Click the "Add" button and a pop-up windows will appear.



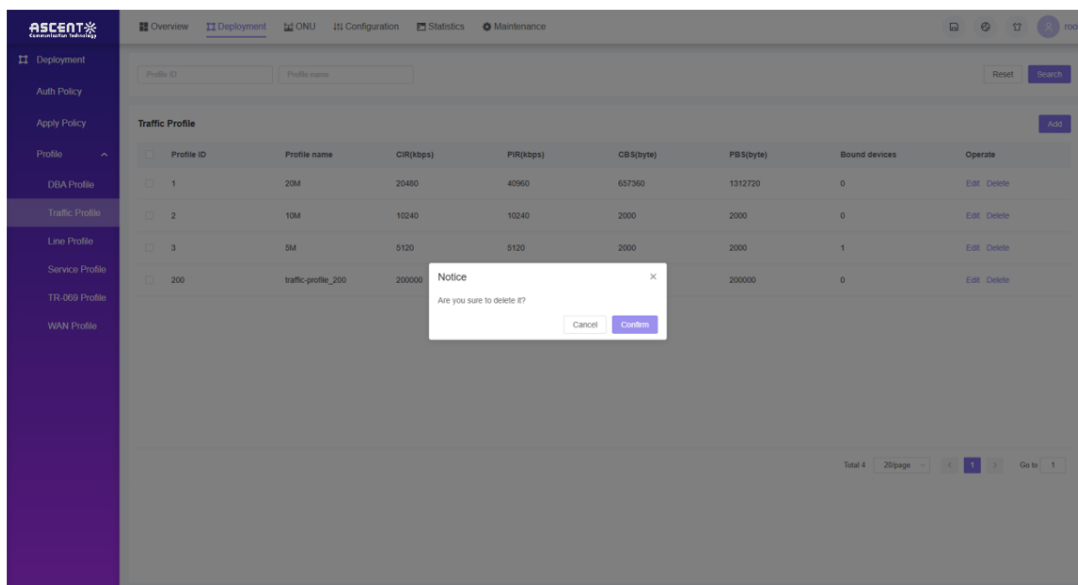
Edit Traffic Profile

- Access path: **Deployment** ----> **Profile** ----> **Traffic Profile** ----> Select the Traffic profile needed to be edited ----> Click the "Edit", and the Traffic profile editing pop-up window will appear.



Delete Traffic Profile

- Access path: **Deployment** ---->**Profile** ---->**Traffic Profile**---->Click the "Delete" that the Traffic profile needed to be deleted, and a pop-up windows will appear.



- Click the "Confirm" to delete it.

5.3.3. Line Profile

The Line Profile is used to set Global Setting, Tcont, Gemport, Mapping, Service Port.

Line Profile List

- Access path: **Deployment** ---->**Profile** ----> **Line Profile**.

The screenshot shows the ASCENT Web GUI with the 'Deployment' menu selected. The 'Line Profile' table is displayed with the following data:

Profile ID	Profile name	Type	Bound devices	Operate
0	line-profile_0	gpon	6	Details Edit Delete
1	line-profile_1	gpon	31	Details Edit Delete
2	TEST-VLAN400	gpon	0	Details Edit Delete
4	line-profile_SME	gpon	0	Details Edit Delete
5	line-profile_5	gpon	2	Details Edit Delete
7	line-profile_3001	gpon	7	Details Edit Delete
9	line-profile_9	gpon	0	Details Edit Delete
10	NOVLANONONU	gpon	0	Details Edit Delete
11	line-profile_11	gpon	2	Details Edit Delete
15	ont-router	gpon	0	Details Edit Delete
17	line-profile_17	gpon	3	Details Edit Delete
18	line-profile_18	gpon	1	Details Edit Delete
19	line-profile_Mega	gpon	0	Details Edit Delete

Add Line Profile

- Path: **Deployment** ----> **Profile** ----> **Line Profile** ----> Click the "Add" button and enter new line profile edit page.
- (1) For **GPON OLT**, type of the line profile is gpon only.

The screenshot shows the 'New Profile' form in the ASCENT Web GUI. The form is titled 'Deployment / Profile / Line Profile / New Profile'. It contains the following sections:

- Global Settings:**
 - Type: gpon (dropdown)
 - Profile name: line-profile_3 (text input)
 - Mapping-mode: VLAN (dropdown)
- Tcont:**
 - Tcont1: (toggle switch)
 - DBA: dba-profile_1 (text input) with [Select](#) and [Add](#) buttons.
- Gemport:**
 - Gemport1: (toggle switch)

At the bottom, there are [Cancel](#) and [Confirm](#) buttons.

- (2) For **XGS-PON OLT**, the type of line profile could be **gpon**, **xg-pon**, **xgs-pon**.

The screenshot shows the 'New Profile' configuration page in the ASCENT Web GUI. The left sidebar contains a menu with 'Deployment' selected, and sub-items like 'Auth Policy', 'Apply Policy', 'Profile', 'DBA Profile', 'Traffic Profile', 'Line Profile', 'Service Profile', 'TR-069 Profile', and 'WAN Profile'. The main content area is titled 'Deployment / Profile / Line Profile / New Profile'. It includes a 'Global Setting' section with a 'Type' dropdown set to 'xgpon'. Below this is a 'Tcont' section with a 'Tcont1' field and a 'DBA' dropdown set to 'dba-profile_1'. There is also a 'Gemport' section with a 'Gemport1' field and a 'Gemport car' dropdown. At the bottom, there are 'Cancel' and 'Confirm' buttons.

Details of Line Profile

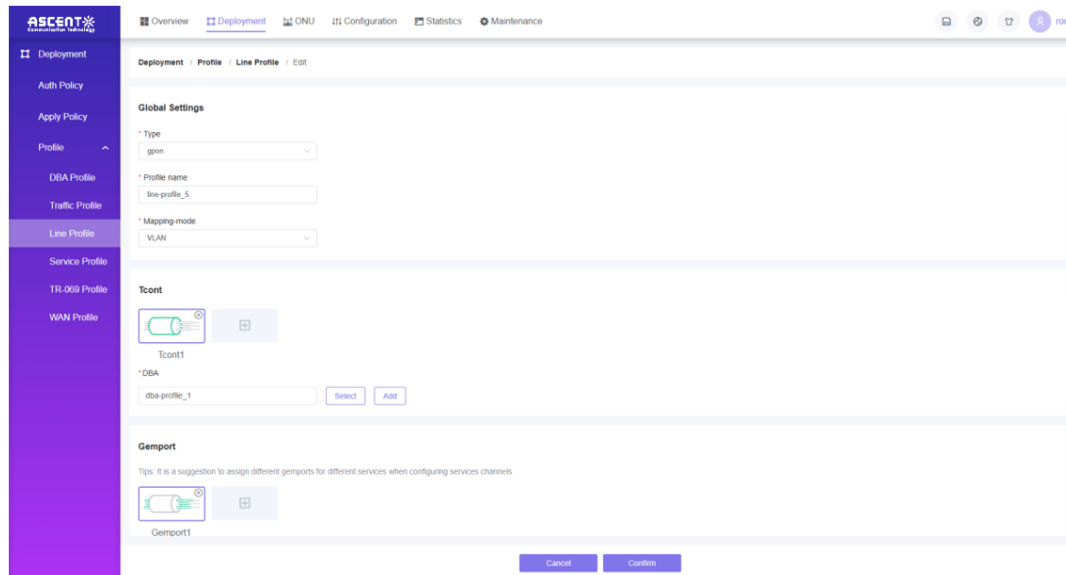
- Access path: **Deployment** ---->**Profile** ---->**Line Profile**---->Click the "**Details**" that the Line profile needed to be checked, and enter profile details page.

The screenshot shows the 'Profile Details' page in the ASCENT Web GUI. The left sidebar is the same as the previous screenshot. The main content area is titled 'Deployment / Profile / Line Profile / Profile Details'. It includes a 'Basic Information' section with fields for 'Type' (set to 'gpon'), 'Profile ID' (set to '5'), and 'Profile name' (set to 'line-profile_5'). Below this is a 'Service Channel' table.

Tcont ID	DBA Profile	Gemport ID	Mapping ID	User VLAN	Operate
1	dba-profile_1	1	1	3006	Details

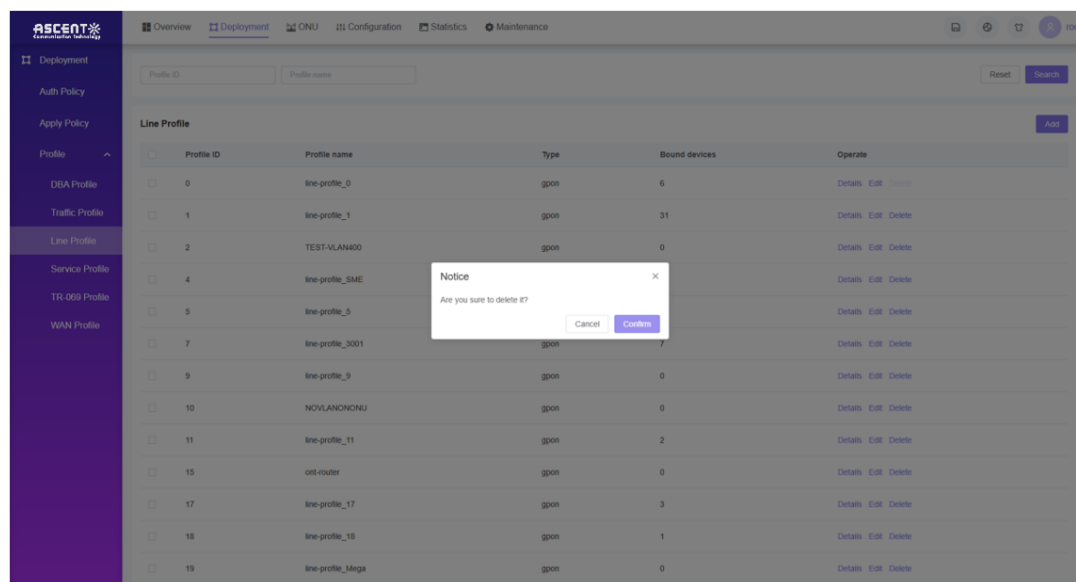
Edit Line Profile

- Access path: **Deployment** ---->**Profile** ---->**Line Profile**---->Click the "**Edit**" that the Line profile needed to be edited, and enter the profile edit page.



Delete Line Profile

- Access path: **Deployment** ---->**Profile** ---->**Line Profile**---->Click the "**Delete**" that the Line profile needed to be deleted, and a pop-up windows will appear.



- Click the "**Confirm**" to delete it.

5.3.4. Service Profile

The Service Profile is mainly used to set ONU Capability, IP Host, ONU Port Configuration, Multicast Configuration.

Service Profile List

- Access path: **Deployment** ---->**Profile** ----> **Service Profile**.

The screenshot shows the 'Service Profile' section of the ASCENT Web GUI. The left sidebar contains a menu with 'Deployment' selected. The main area displays a table of service profiles with columns for Profile ID, Profile name, Bound devices, and Operate. The table lists 18 profiles, with 'srv-profile_8' highlighted.

Profile ID	Profile name	Bound devices	Operate
0	srv-profile_0	9	Details Edit Delete
1	srv-profile_1	34	Details Edit Delete
2	srv-profile_BME	0	Details Edit Delete
3	srv-profile_TEST_SFU	0	Details Edit Delete
4	zhangwenqiang	0	Details Edit Delete
5	srv-profile_5	2	Details Edit Delete
7	srv-profile_7	1	Details Edit Delete
8	srv-profile_8	0	Details Edit Delete
9	srv-profile_9	1	Details Edit Delete
10	NOVLANONONU	0	Details Edit Delete
11	srv-profile_11	2	Details Edit Delete
15	ont-router	0	Details Edit Delete
17	srv-profile_17	3	Details Edit Delete

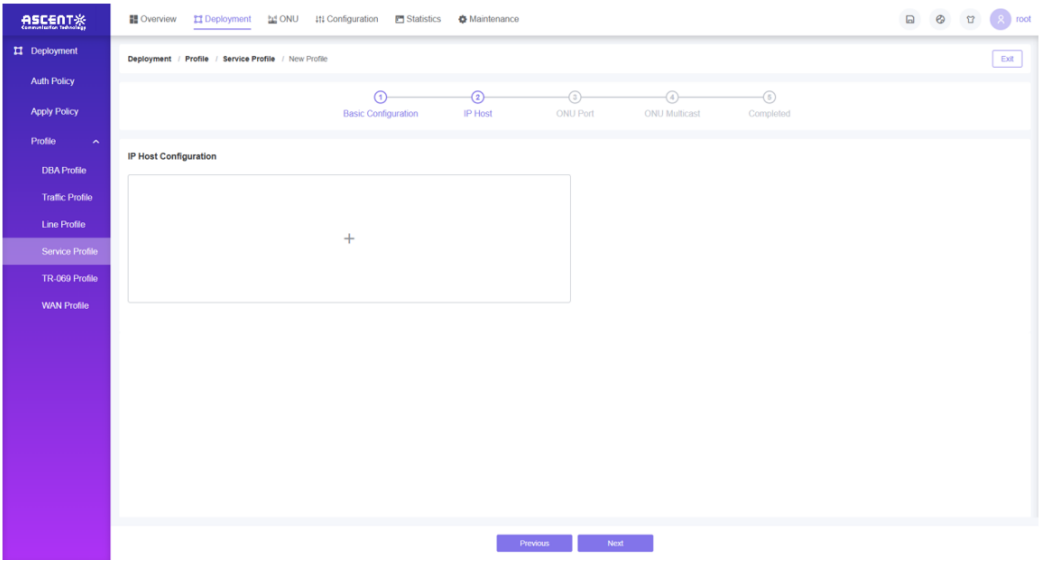
Add Service Profile

- Path: **Deployment** ----> **Profile** ----> **Service Profile** ----> Click the "Add" button and enter new service profile edit page.
- Adding process:

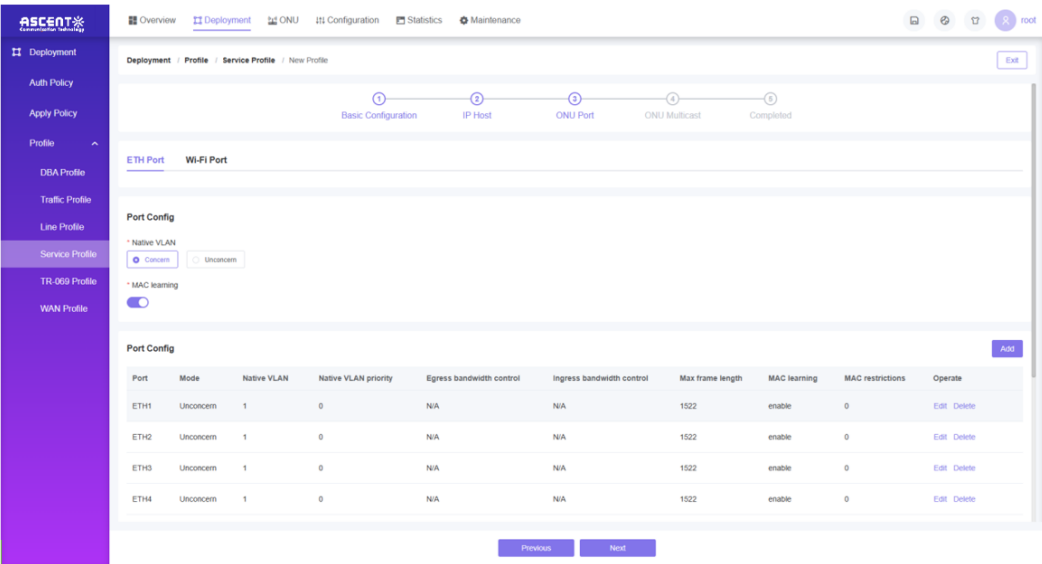
Step 1: [REQUIRED] Basic Configuration - set Basic Information and ONU Capatibility Planning.

The screenshot shows the 'Basic Configuration' step of the 'New Profile' process. The interface includes a progress bar with five steps: Basic Configuration, IP Host, ONU Port, ONU Multicast, and Completed. The 'Basic Information' section contains fields for 'Profile name' (set to 'srv-profile_8') and 'Loopback detection' (set to 'Off'). The 'ONU Capability Planning' section contains dropdown menus for 'ETH', 'Wi-Fi Port', 'POTS', 'CATV', and 'IP Host', all set to 'Adaptive'. A 'Next' button is at the bottom.

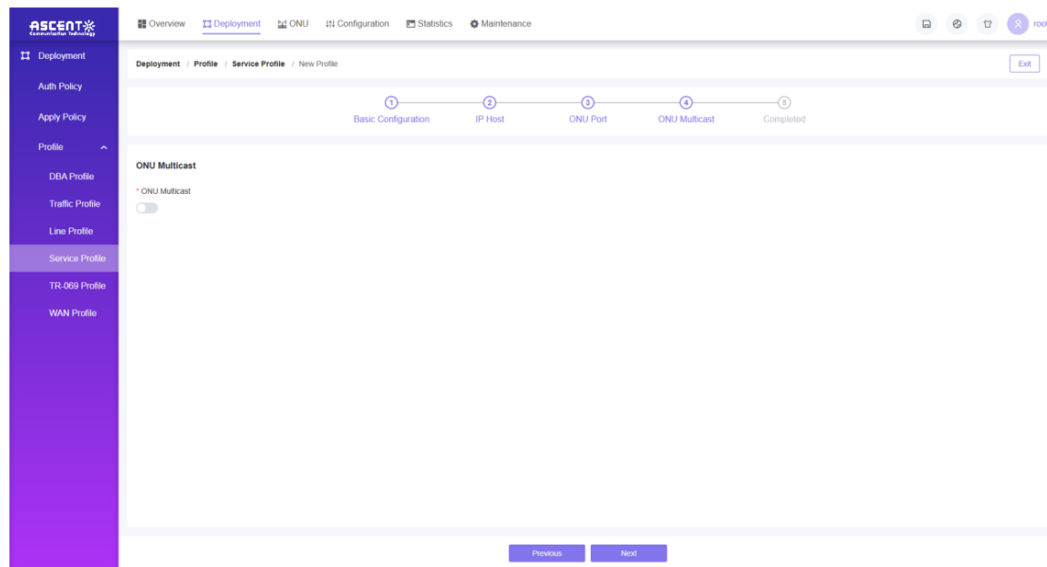
Step 2: [REQUIRED] IP Host Configuration - set IP Host for ONU remote management.



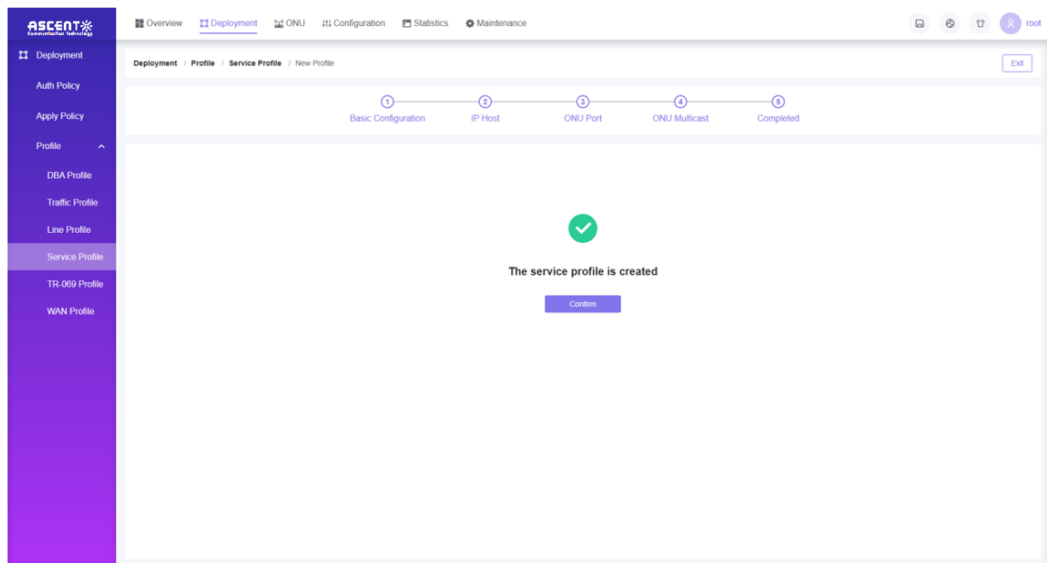
Step 3: [REQUIRED] ONU Port Configuration - set ONU Ethernet Port and Wi-Fi Port attribution, such as Native VLAN, Native VLAN priority, Bandwidth, etc.



Step 4: [REQUIRED] ONU Multicast Configuration - set ONU Multicast config, such as Multicast mode, Fast-leave, Multicast Rules Configuration.



Step 5: [REQUIRED] Completed - Click **"Confirm"** to complete the setting.



Details of Service Profile

- Access path: **Deployment** ---->**Profile** ---->**Service Profile**---->Click the **"Details"** that the Service profile needed to be checked, and enter the profile details page.

The screenshot shows the 'Edit Service Profile' page in the ASCENT Web GUI. The left sidebar contains a menu with 'Deployment' selected, and 'Service Profile' is highlighted under the 'Profile' section. The main content area has a breadcrumb trail: 'Deployment / Profile / Service Profile / Profile Details'. The 'Edit' button is in the top right corner. The page is divided into several sections:

- Basic Information:** Profile ID: 5, Profile name: srv-profile_5.
- Global Settings:** Loopback detection: Turn off.
- ONU Capability:**
 - ETH: 0, POTS: 0
 - CATV: 0, IP Host: Adaptive
- IP Host:** A table with columns: Name, Mode, VLAN, Priority, IP address, Subnet mask, Gateway, Primary DNS, Secondary DNS. It shows 'No Data'.
- ONU Port Configuration:**
 - Native VLAN: Concern
 - MAC learning: enable

Edit Service Profile

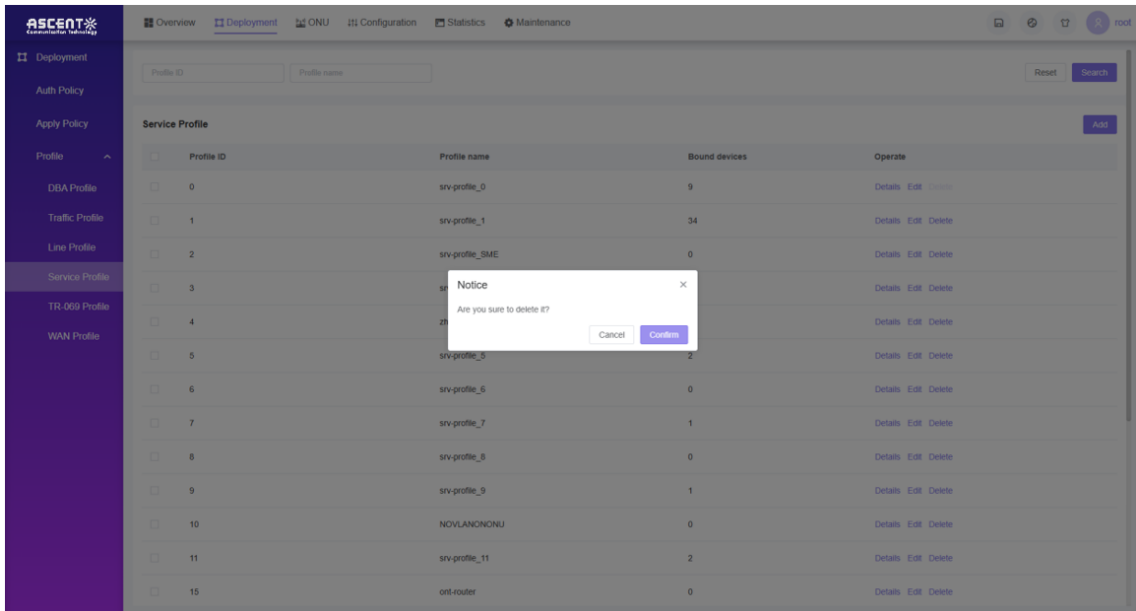
- Access path: **Deployment** ---->**Profile** ---->**Service Profile**---->Click the "Edit" that the Service profile needed to be edited, and enter the profile edit page.

The screenshot shows the 'Edit Service Profile' page in the ASCENT Web GUI, with a progress bar at the top indicating the steps: 1. Basic Configuration, 2. IP Host, 3. ONU Port, 4. ONU Multicast, and 5. Completed. The 'Edit' button is in the top right corner. The page is divided into several sections:

- Basic Information:** Profile name: srv-profile_5, Loopback detection: Turn off.
- ONU Capability Planning:**
 - ETH: 0
 - Wi-Fi Port: Adaptive
 - POTS: 0
 - CATV: 0
 - IP Host: Adaptive

Delete Service Profile

- Access path: **Deployment** ---->**Profile** ---->**Service Profile**---->Click the "Delete" that the Service profile needed to be deleted, and a pop-up windows will appear.



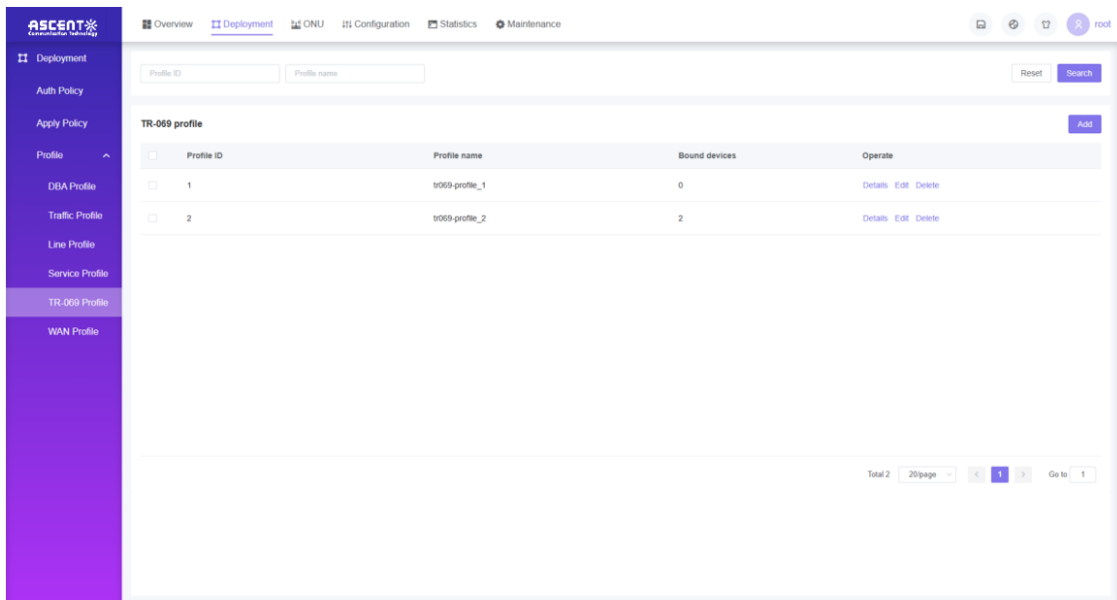
- Click the "Confirm" to delete it.

5.3.5. TR-069 Profile

The TR-069 Profile is used to set a TR-069 parameters and ACS Server Configuration.

TR-069 Profile List

- Access path: **Deployment ---->Profile ----> TR-069 Profile.**



Add TR-069 Profile

- Path: **Deployment ---->Profile ----> TR-069 Profile ---->Click the "Add" button** and a pop-up windows will appear.

The screenshot shows the ASCENT Web GUI interface. The left sidebar contains a menu with options: Deployment, Auth Policy, Apply Policy, Profile (expanded), DBA Profile, Traffic Profile, Line Profile, Service Profile, TR-069 Profile (selected), and WAN Profile. The main content area is titled 'Deployment / Profile / TR-069 Profile / New Profile'. It includes a 'Global' section with a 'Profile name' field set to 's069-profile_3'. Below this is the 'TR-069 Service Configuration' section, which has a 'TR-069 Configuration' dropdown set to 'Concern', an 'IP Host' dropdown set to 'Unbind', and an 'Enable TR-069' toggle switch. The 'ACS Server Configuration' section includes fields for 'ACS server' (placeholder: 'Please enter ACS server IP or domain name'), 'Username' (placeholder: 'Please enter'), 'Password' (placeholder: 'Please enter'), and a 'Service inform' checkbox.

Details of TR-069 Profile

- Access path: **Deployment** ---->**Profile** ---->**TR-069 Profile**---->Click the "**Details**" that the TR-069 profile needed to be checked, and enter the profile details page.

The screenshot shows the ASCENT Web GUI interface. The left sidebar is the same as the previous screenshot. The main content area is titled 'Deployment / Profile / TR-069 Profile / Profile Details'. It includes a 'Basic Information' section with a table showing 'Profile ID' (2), 'Profile name' (s069-profile_2), 'TR-069 Configuration' (Concern), and 'IP Host' (Unbind). Below this is the 'ACS Server Configuration' section with a table showing 'ACS server' (http://192.168.20.56:9909/vtacs), 'Username' (acs), 'Password' (masked), 'Service inform' (Enable), and 'Service inform interval' (30s). There are 'Delete' and 'Edit' buttons in the top right corner.

Edit TR-069 Profile

- Access path: **Deployment** ---->**Profile** ---->**TR-069 Profile**---->Select the TR-069 profile needed to be edited --->Click the "**Edit**", and enter the TR-069 profile edit page.

The screenshot shows the ASCENT Web GUI interface. On the left is a navigation menu with options like Deployment, Auth Policy, Apply Policy, Profile, DBA Profile, Traffic Profile, Line Profile, Service Profile, TR-069 Profile (selected), and WAN Profile. The main content area is titled 'Deployment / Profile / TR-069 Profile / Edit'. It contains three main sections: 'Global' with a 'Profile name' field set to 'tr069-profile_2'; 'TR-069 Service Configuration' with a 'TR-069 Configuration' dropdown set to 'Calcam', an 'IP Host' dropdown set to 'Unbind', and an 'Enable TR-069' toggle switch; and 'ACS Server Configuration' with fields for 'ACS server' (http://192.168.20.56:9909/v1/acs), 'Username' (acs), and 'Password' (masked). At the bottom are 'Cancel' and 'Confirm' buttons.

Delete TR-069 Profile

- Access path: **Deployment** ---->**Profile** ---->**TR-069 Profile**---->Click the "**Delete**" that the TR-069 profile needed to be deleted, and a pop-up windows will appear.

The screenshot shows the ASCENT Web GUI interface. The left navigation menu is the same as the previous screenshot. The main content area is titled 'Deployment / Profile / TR-069 profile'. It displays a table with the following data:

Profile ID	Profile name	Bound devices	Operate
1	tr069-profile_1	0	Details Edit Delete
2	tr069-profile_2	2	Details Edit Delete

A 'Notice' dialog box is overlaid on the table, asking 'Are you sure to delete it?' with 'Cancel' and 'Confirm' buttons. At the bottom right of the table area, it says 'Total 2' and '20/page'.

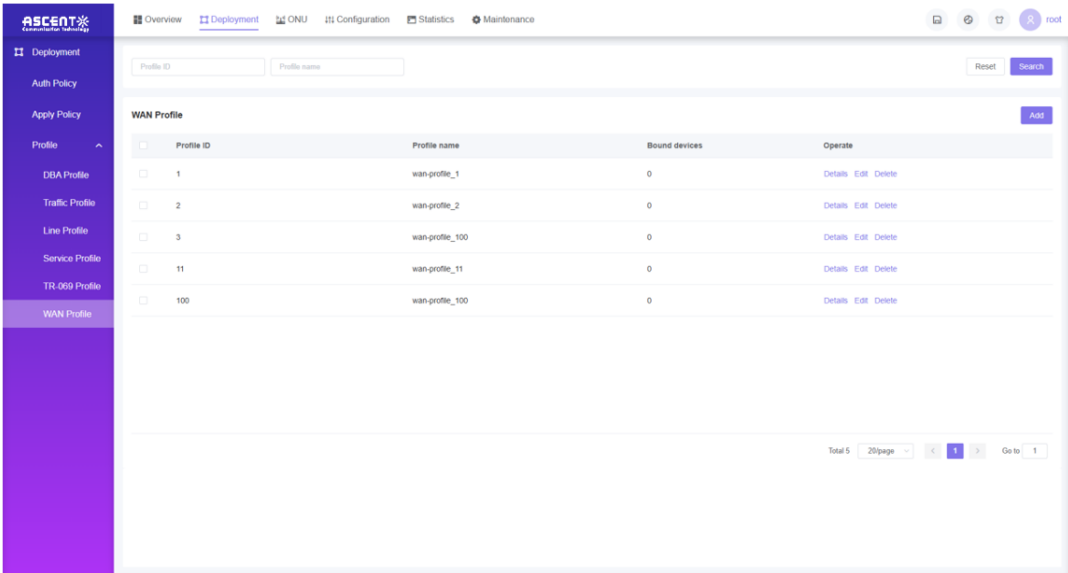
- Click the "**Confirm**" to delete it.

5.3.6. WAN Profile

The WAN Profile is mainly used to set ONU WAN config, such as VLAN, Mode, Service Type, IP Protocol, IGMP/MLD proxy, MTU, IP Mode, Port Binding.

WAN Profile List

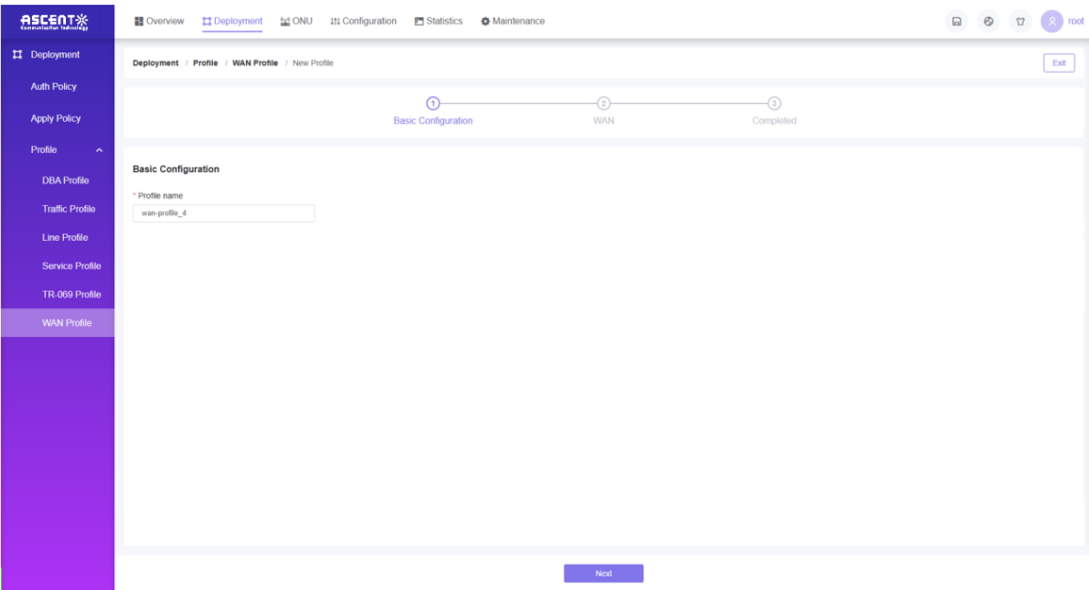
- Access path: **Deployment** ---->**Profile** ----> **WAN Profile**.



Add WAN Profile

- Path: **Deployment** ---->**Profile** ----> **WAN Profile** ---->Click the "Add" button and enter new WAN profile edit page.
- Adding process:

Step 1: [REQUIRED] Basic Configuration - set Profile name.



Step 2: [REQUIRED] WAN Configuration ---->Add - set WAN connection config.

Deployment / Profile / WAN Profile / New Profile

Basic Configuration

VLAN ☐

Mode

Service type

IP protocol

IGMP/MLD proxy ☐

MTU [576,2000]

IPv4 Configuration

Mode ☐ ☒

Port Binding

☐ LAN1 ☐ LAN2 ☐ LAN3 ☐ LAN4

☐ LAN5 ☐ LAN6 ☐ LAN7 ☐ LAN8

☐ SSID1(2.4G) ☐ SSID2 ☐ SSID3 ☐ SSID4

☐ SSID5(5G) ☐ SSID6 ☐ SSID7 ☐ SSID8

WAN Configuration

Name	Mode	VLAN	Multicast VLAN	IP protocol	IP address
No Data					

Previous Next

Cancel Confirm

Step 3: [REQUIRED] Confirm - Click “Confirm” to complete the setting.

Deployment / Profile / WAN Profile / New Profile

Basic Configuration WAN Completed

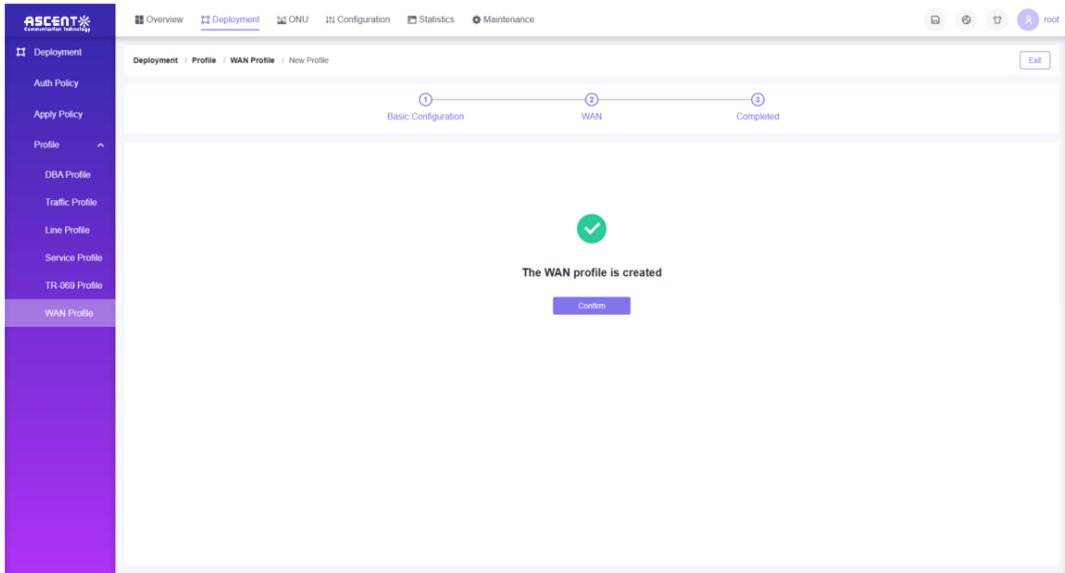
WAN Configuration

Name	Mode	VLAN	Multicast VLAN	IP protocol	IP address	Gateway	DNS	Operate
1_INTERNET	IPv4	N/A	N/A	IPv4	N/A	N/A	N/A N/A	Edit Delete

Previous Next

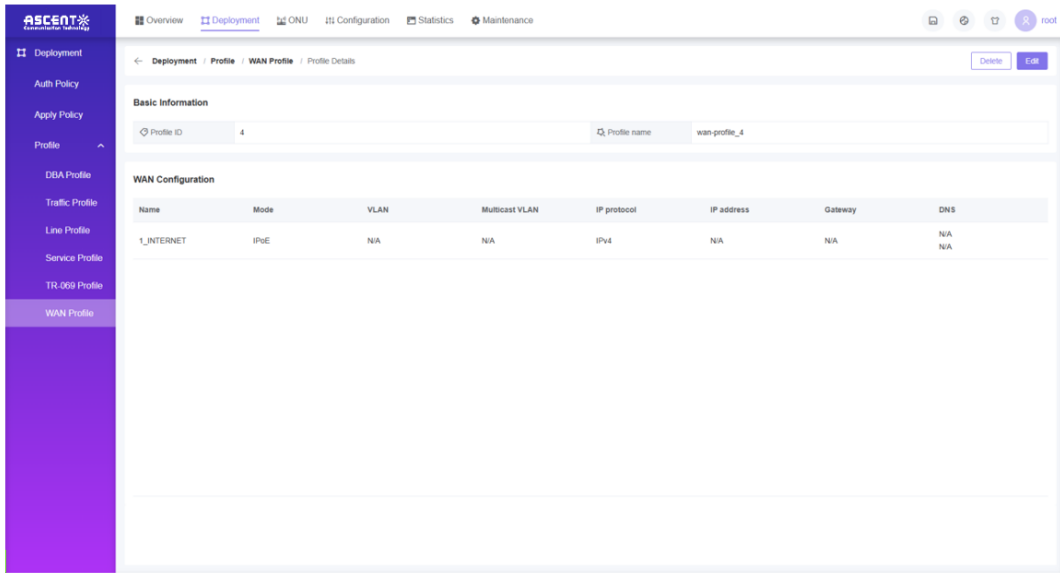
Exit

Step 4: [REQUIRED] Completed - Click “Next” and “Confirm” to complete the setting.



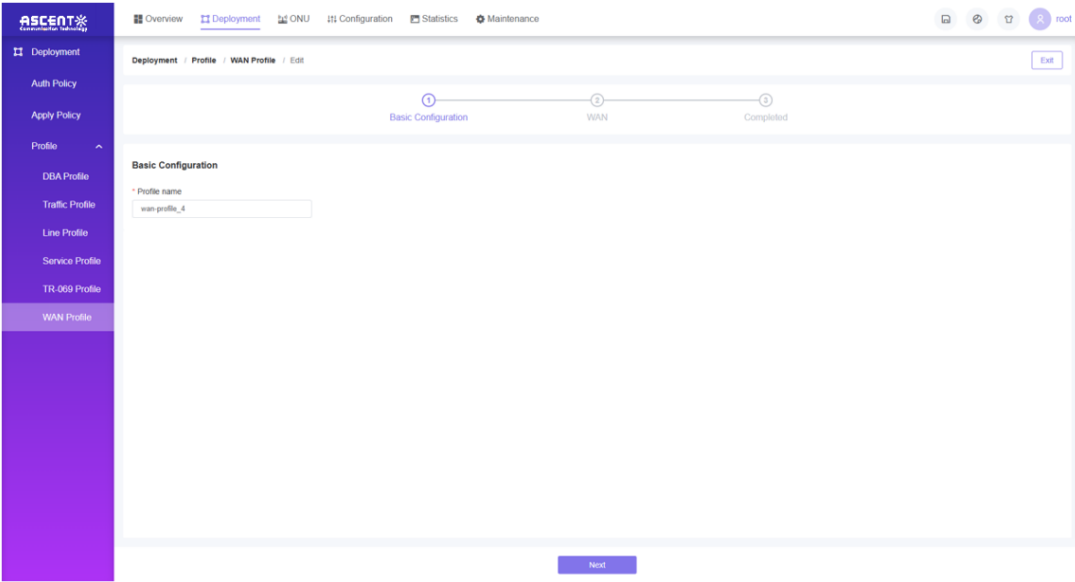
Details of WAN Profile

- Access path: **Deployment** ---->**Profile** ---->**WAN Profile**---->Click the "**Details**" that the WAN profile needed to be checked, and enter profile details page.



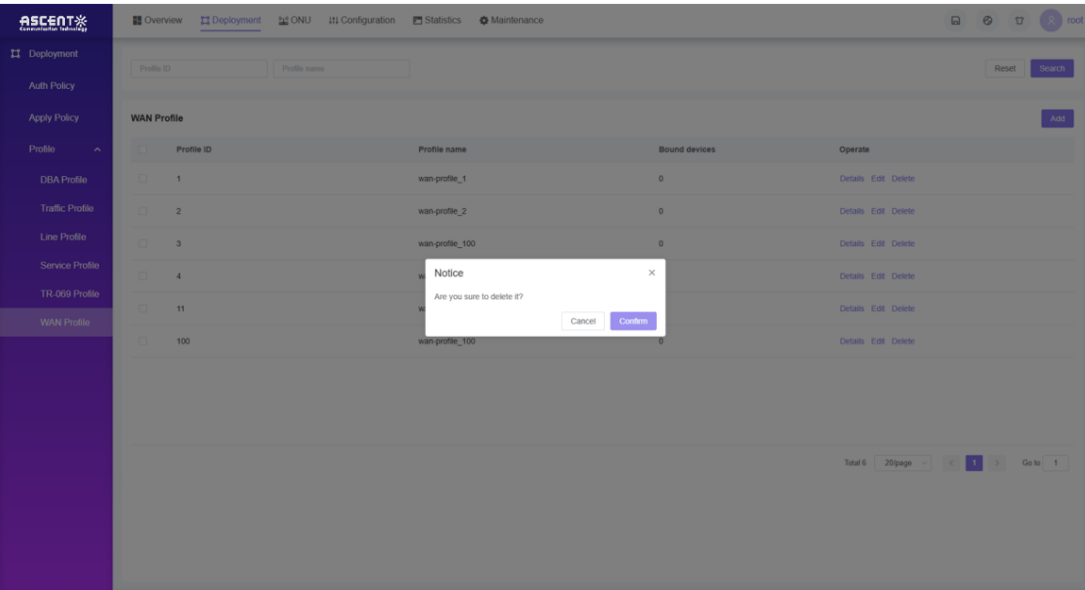
Edit WAN Profile

- Access path: **Deployment** ---->**Profile** ---->**WAN Profile**---->Click the "**Edit**" that the WAN profile needed to be edited, and enter the profile edit page.



Delete WAN Profile

- Access path: **Deployment** ---->**Profile** ---->**WAN Profile**---->Click the "**Delete**" that the WAN profile needed to be deleted, and a pop-up windows will appear.



- Click the "**Confirm**" to delete it.

6 ONU Management

This chapter contains the following topics:

- ONU Device Manager
- ONU Bind
- Running Info
- ONU Optical Info
- ONU Autofind
- ONU Auth Setting
- ONU Blacklist
- Rogue ONU
- ONU MAC
- ONU Upgrade

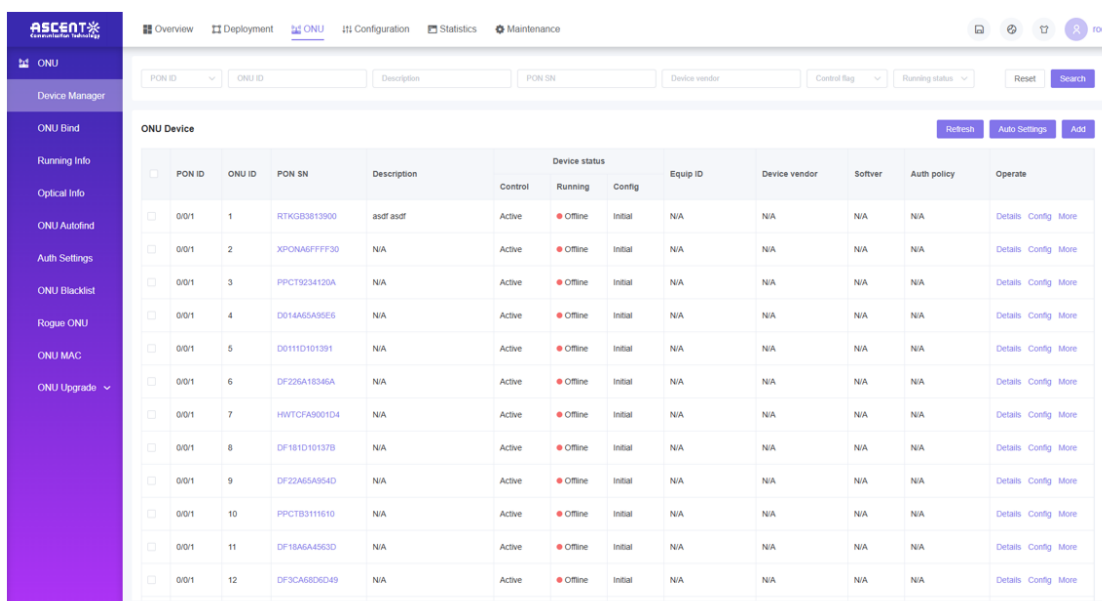
The OLT Web Management System provides the functions of resource management and service planning for ONU devices, allowing to view the resource and status information related to ONU devices and manage the devices.

6.1 ONU Device

ONU Device List

The OLT Web Management System provides ONU device management functions. Upon ONU devices connected to the OLT, the OLT Web Management System can view device information & configuration data, and manage device resources.

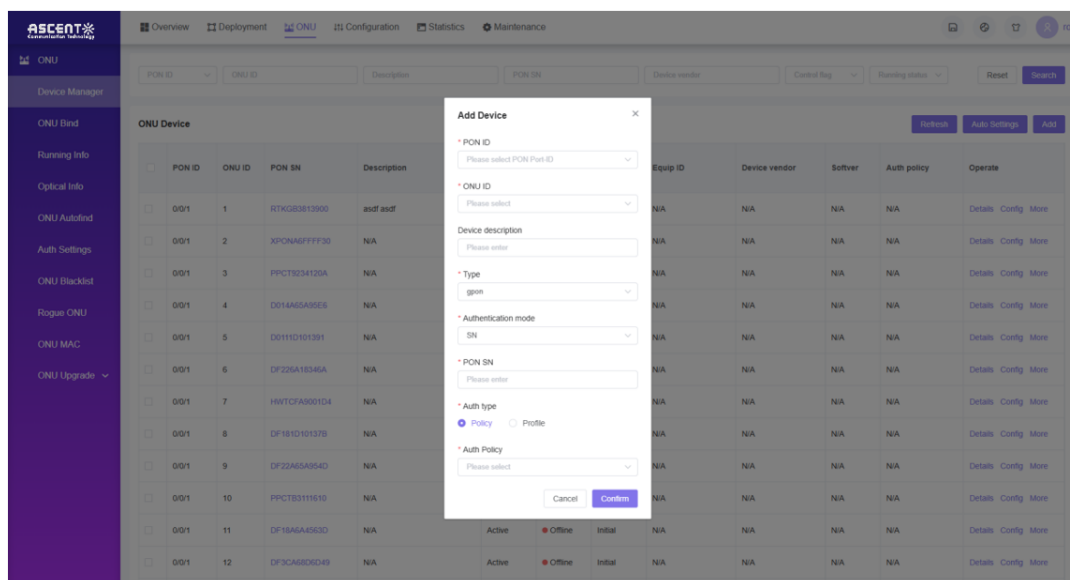
- Access path: **ONU ---->ONU Device.**



PON ID	ONU ID	PON SN	Description	Device status			Equip ID	Device vendor	Software	Auth policy	Operate
				Control	Running	Config					
0/0/1	1	RTKGR3813900	asdf asdf	Active	Offline	Initial	N/A	N/A	N/A	N/A	Details Config More
0/0/1	2	XPONA6FFFF30	N/A	Active	Offline	Initial	N/A	N/A	N/A	N/A	Details Config More
0/0/1	3	PPCT9234120A	N/A	Active	Offline	Initial	N/A	N/A	N/A	N/A	Details Config More
0/0/1	4	D014A65A98E5	N/A	Active	Offline	Initial	N/A	N/A	N/A	N/A	Details Config More
0/0/1	5	D011D101391	N/A	Active	Offline	Initial	N/A	N/A	N/A	N/A	Details Config More
0/0/1	6	DF226A18346A	N/A	Active	Offline	Initial	N/A	N/A	N/A	N/A	Details Config More
0/0/1	7	HMTCA9001D4	N/A	Active	Offline	Initial	N/A	N/A	N/A	N/A	Details Config More
0/0/1	8	DF181D10137B	N/A	Active	Offline	Initial	N/A	N/A	N/A	N/A	Details Config More
0/0/1	9	DF226A6A984D	N/A	Active	Offline	Initial	N/A	N/A	N/A	N/A	Details Config More
0/0/1	10	PPCTB3111610	N/A	Active	Offline	Initial	N/A	N/A	N/A	N/A	Details Config More
0/0/1	11	DF18A6A4563D	N/A	Active	Offline	Initial	N/A	N/A	N/A	N/A	Details Config More
0/0/1	12	DF3CA68D6D49	N/A	Active	Offline	Initial	N/A	N/A	N/A	N/A	Details Config More

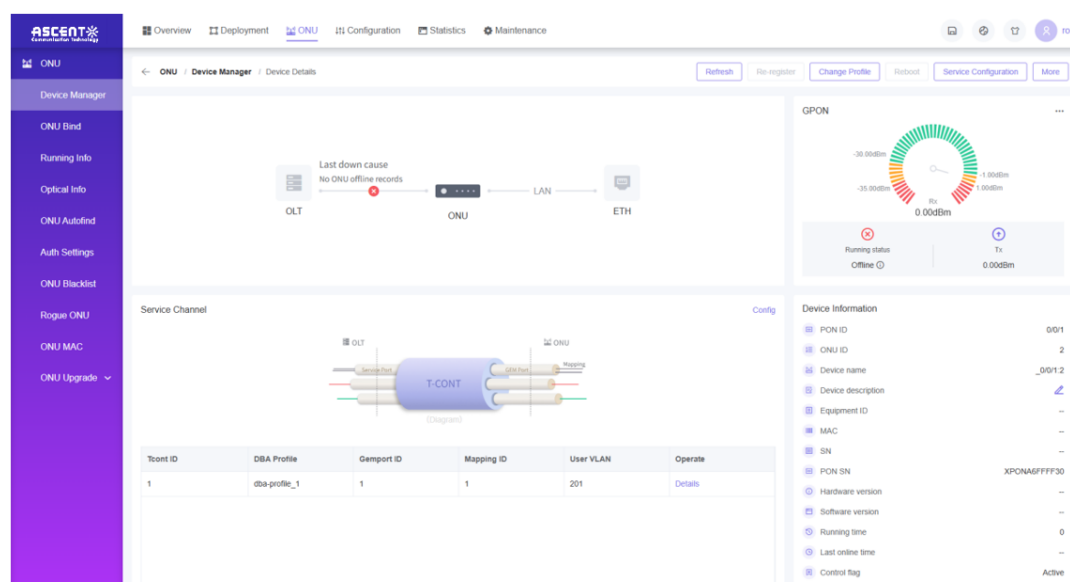
Adding ONU Devices

- Operation path: **ONU ---->ONU Device---->Click the "Add"**, and a dialog box for adding devices will pop up.



ONU Device Details

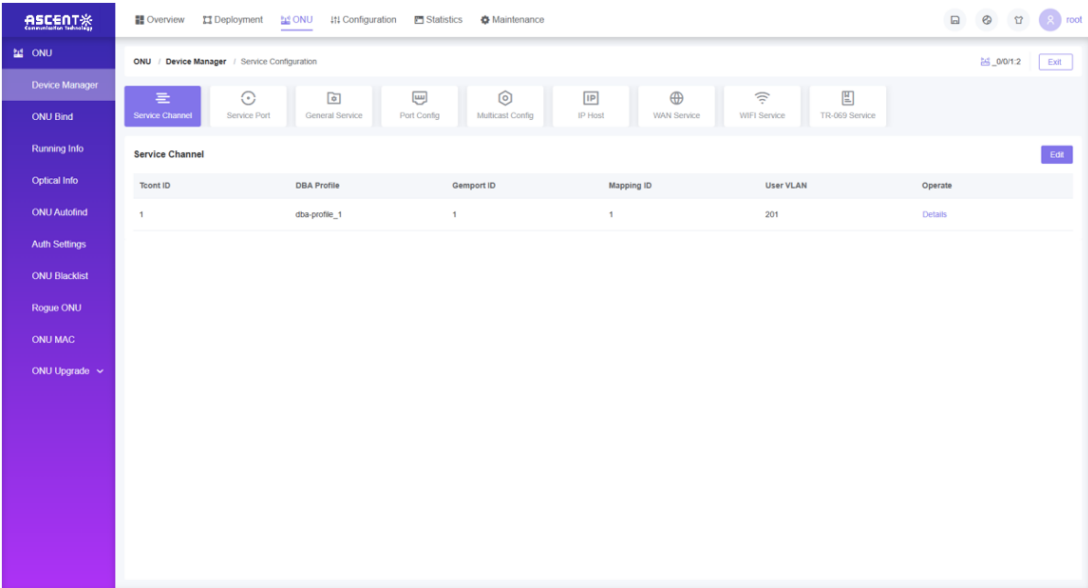
- Operation path: **ONU** ---->**ONU Device** ---->Select the ONU device that needs to be operated ---->Click the "**Details**", and relocate to the [Device Details] page.



Service Configuration

In Service Configuration page, it is mainly used to configure Service Channel (like Line Profile config), Service Port, General Service, Port Config, Multicast Config, IP Host, WAN Service, WIFI Service, VOIP Service, TR-069 Service.

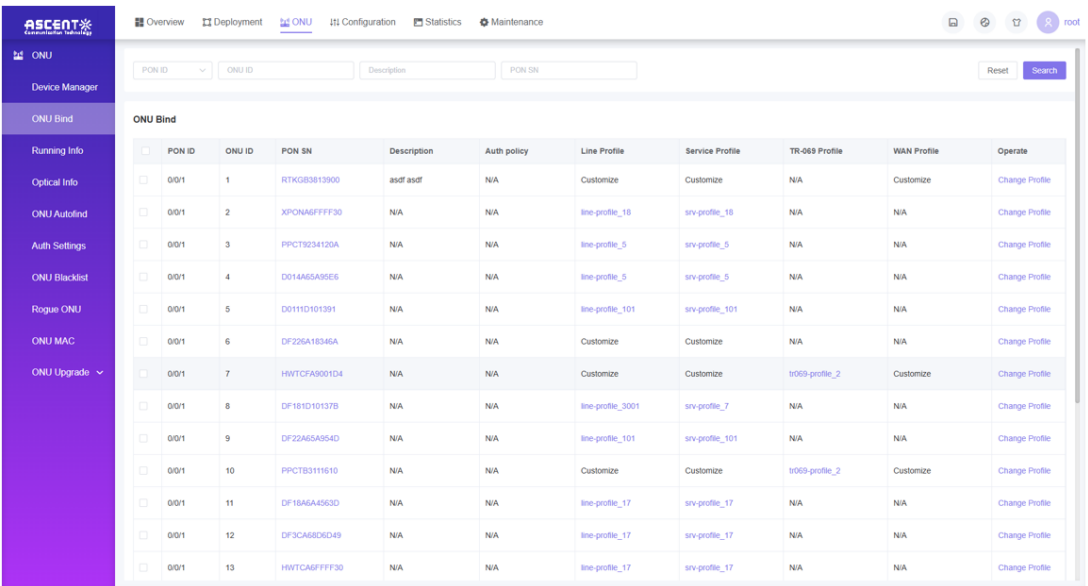
- Operation Path 1: **ONU** ---->**ONU Device** ---->Select the ONU device that needs to be operated ---->Click the "**Config**", and relocate to the ONU [Service Configuration] page.
- Operation Path 2: **ONU** ---->**ONU Device** ---->Select the ONU device that needs to be operated ---->Click the "**Details**", and relocate to the ONU [Device Details] page ---->Click the "**Service Configuration**", and relocate to the ONU [Service Configuration] page.



6.2 ONU Bind

The ONU Bind page provides to change profile of ONU, such as Line-profile, Service-profile, TR-069 Profile, WAN-profile.

- Access path: **ONU ---->ONU Bind.**



Change Profile

- Path: **ONU** ----> **ONU Bind** ----> Click the "**Change Profile**" button of a specific ONU and a pop-up windows will appear to change the profiles.

(1) For GPON OLT, the type is gpon only.

The screenshot shows the 'ONU Bind' page in the ASCENT web GUI. A 'Change Profile' dialog box is open, displaying the following fields:

- Type:** gpon (highlighted with a red box)
- Auth type:** Policy (radio button), Profile (radio button, selected)
- Line Profile:** DHCP_VLAN20
- Service Profile:** dhcp_vlan20_sfu
- WAN Profile:** Please select
- TR-069 Profile:** Please select

The background table lists 11 ONU entries with columns: PON ID, ONU ID, PON SN, Description, Service Profile, TR-069 Profile, WAN Profile, and Operate. The 'Operate' column contains 'Change Profile' buttons for each entry.

(2) For XGS-PON OLT, the type could be gpon, xg-pon, xgs-pon.

The screenshot shows the 'ONU Bind' page in the ASCENT web GUI. A 'Change Profile' dialog box is open, displaying the following fields:

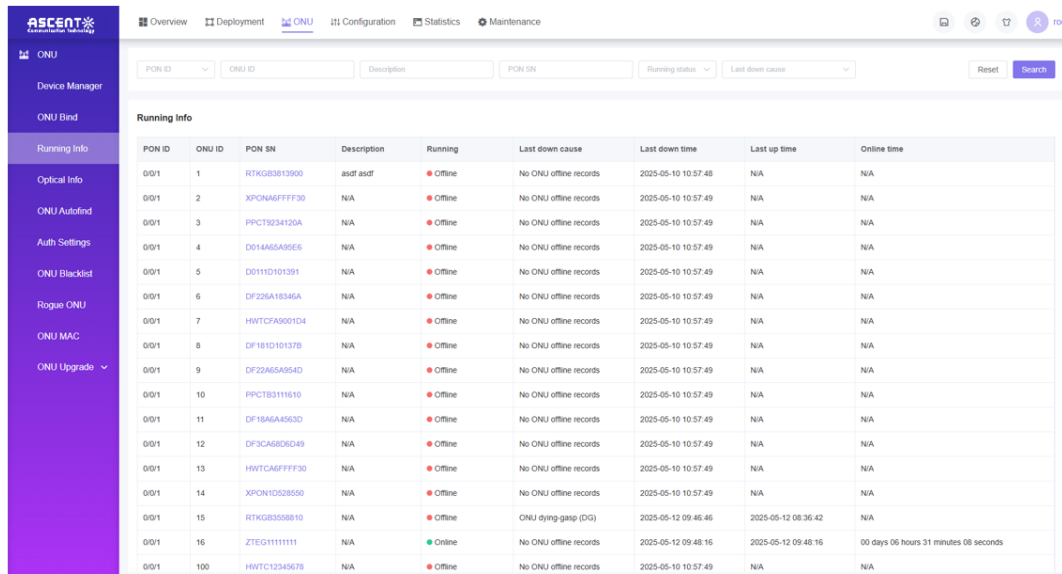
- Type:** gpon (highlighted with a red box)
- Auth type:** Policy (radio button), Profile (radio button, selected)
- Line Profile:** DHCP_VLAN20
- Service Profile:** dhcp_vlan20_sfu
- WAN Profile:** Please select
- TR-069 Profile:** Please select

The background table lists 11 ONU entries with columns: PON ID, ONU ID, PON SN, Description, Service Profile, TR-069 Profile, WAN Profile, and Operate. The 'Operate' column contains 'Change Profile' buttons for each entry.

6.3 Running Info

The ONU Running Info list allows us to visually view the online status information of each ONU, including Last down cause, Last down time, Last up time, Online time.

- Access path: **ONU ---->Running Info.**

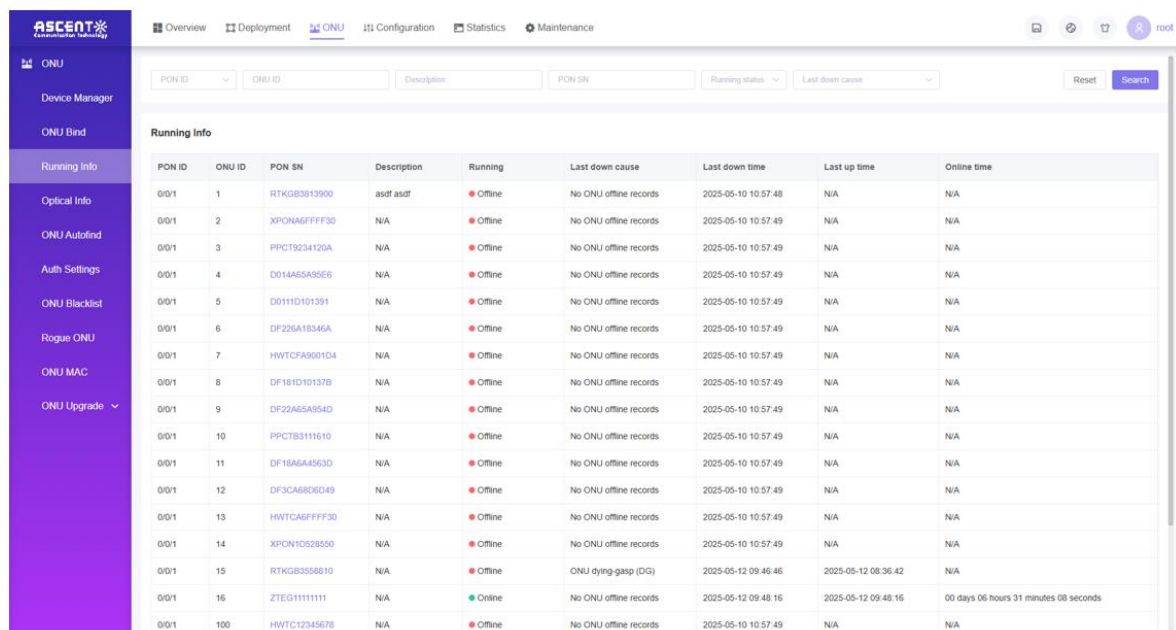


PON ID	ONU ID	PON SN	Description	Running	Last down cause	Last down time	Last up time	Online time
0/0/1	1	RTKG83813900	asdf asdf	Offline	No ONU offline records	2025-05-10 10:57:48	N/A	N/A
0/0/1	2	XPONAGFFFF30	N/A	Offline	No ONU offline records	2025-05-10 10:57:49	N/A	N/A
0/0/1	3	PPCT3234120A	N/A	Offline	No ONU offline records	2025-05-10 10:57:49	N/A	N/A
0/0/1	4	D014A6A95E6	N/A	Offline	No ONU offline records	2025-05-10 10:57:49	N/A	N/A
0/0/1	5	D011D101391	N/A	Offline	No ONU offline records	2025-05-10 10:57:49	N/A	N/A
0/0/1	6	DF225A18346A	N/A	Offline	No ONU offline records	2025-05-10 10:57:49	N/A	N/A
0/0/1	7	HWTCA9001D4	N/A	Offline	No ONU offline records	2025-05-10 10:57:49	N/A	N/A
0/0/1	8	DF181D10137B	N/A	Offline	No ONU offline records	2025-05-10 10:57:49	N/A	N/A
0/0/1	9	DF22A6A954D	N/A	Offline	No ONU offline records	2025-05-10 10:57:49	N/A	N/A
0/0/1	10	PPCTB311610	N/A	Offline	No ONU offline records	2025-05-10 10:57:49	N/A	N/A
0/0/1	11	DF18A6A4563D	N/A	Offline	No ONU offline records	2025-05-10 10:57:49	N/A	N/A
0/0/1	12	DF3CA6806D49	N/A	Offline	No ONU offline records	2025-05-10 10:57:49	N/A	N/A
0/0/1	13	HWTCA6FFFF30	N/A	Offline	No ONU offline records	2025-05-10 10:57:49	N/A	N/A
0/0/1	14	XPON1D52850	N/A	Offline	No ONU offline records	2025-05-10 10:57:49	N/A	N/A
0/0/1	15	RTKG83558610	N/A	Offline	ONU dying-gasp (DG)	2025-05-12 09:46:46	2025-05-12 08:36:42	N/A
0/0/1	16	ZTEG11111111	N/A	Online	No ONU offline records	2025-05-12 09:48:16	2025-05-12 09:48:16	00 days 06 hours 31 minutes 08 seconds
0/0/1	100	HWTCT2345678	N/A	Offline	No ONU offline records	2025-05-10 10:57:49	N/A	N/A

6.4 ONU Optical Info

Upon the ONU device attached to the OLT, the OLT Web Management System provides to check the optical power information of the online ONU.

- Access path: **ONU ---->Optical Info.**

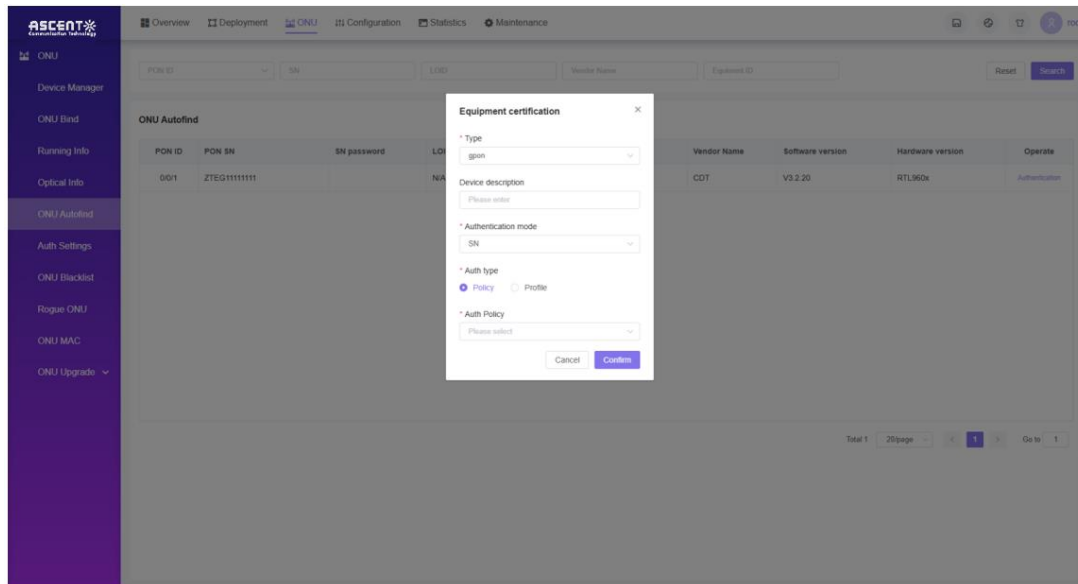


PON ID	ONU ID	PON SN	Description	Running	Last down cause	Last down time	Last up time	Online time
0/0/1	1	RTKG83813900	asdf asdf	Offline	No ONU offline records	2025-05-10 10:57:48	N/A	N/A
0/0/1	2	XPONAGFFFF30	N/A	Offline	No ONU offline records	2025-05-10 10:57:49	N/A	N/A
0/0/1	3	PPCT3234120A	N/A	Offline	No ONU offline records	2025-05-10 10:57:49	N/A	N/A
0/0/1	4	D014A6A95E6	N/A	Offline	No ONU offline records	2025-05-10 10:57:49	N/A	N/A
0/0/1	5	D011D101391	N/A	Offline	No ONU offline records	2025-05-10 10:57:49	N/A	N/A
0/0/1	6	DF225A18346A	N/A	Offline	No ONU offline records	2025-05-10 10:57:49	N/A	N/A
0/0/1	7	HWTCA9001D4	N/A	Offline	No ONU offline records	2025-05-10 10:57:49	N/A	N/A
0/0/1	8	DF181D10137B	N/A	Offline	No ONU offline records	2025-05-10 10:57:49	N/A	N/A
0/0/1	9	DF22A6A954D	N/A	Offline	No ONU offline records	2025-05-10 10:57:49	N/A	N/A
0/0/1	10	PPCTB311610	N/A	Offline	No ONU offline records	2025-05-10 10:57:49	N/A	N/A
0/0/1	11	DF18A6A4563D	N/A	Offline	No ONU offline records	2025-05-10 10:57:49	N/A	N/A
0/0/1	12	DF3CA6806D49	N/A	Offline	No ONU offline records	2025-05-10 10:57:49	N/A	N/A
0/0/1	13	HWTCA6FFFF30	N/A	Offline	No ONU offline records	2025-05-10 10:57:49	N/A	N/A
0/0/1	14	XPON1D52850	N/A	Offline	No ONU offline records	2025-05-10 10:57:49	N/A	N/A
0/0/1	15	RTKG83558610	N/A	Offline	ONU dying-gasp (DG)	2025-05-12 09:46:46	2025-05-12 08:36:42	N/A
0/0/1	16	ZTEG11111111	N/A	Online	No ONU offline records	2025-05-12 09:48:16	2025-05-12 09:48:16	00 days 06 hours 31 minutes 08 seconds
0/0/1	100	HWTCT2345678	N/A	Offline	No ONU offline records	2025-05-10 10:57:49	N/A	N/A

6.5 ONU Autofind

When the ONU auto discovery enable is in the disable state, the list displays the ONUs that are not registered for authentication, at which time the user can use manual authentication to handle the unauthenticated ONU devices. When the ONU auto-discovery feature is disabled, the list will display unregistered ONUs. In this scenario, users can manually authenticate the unauthenticated ONU devices.

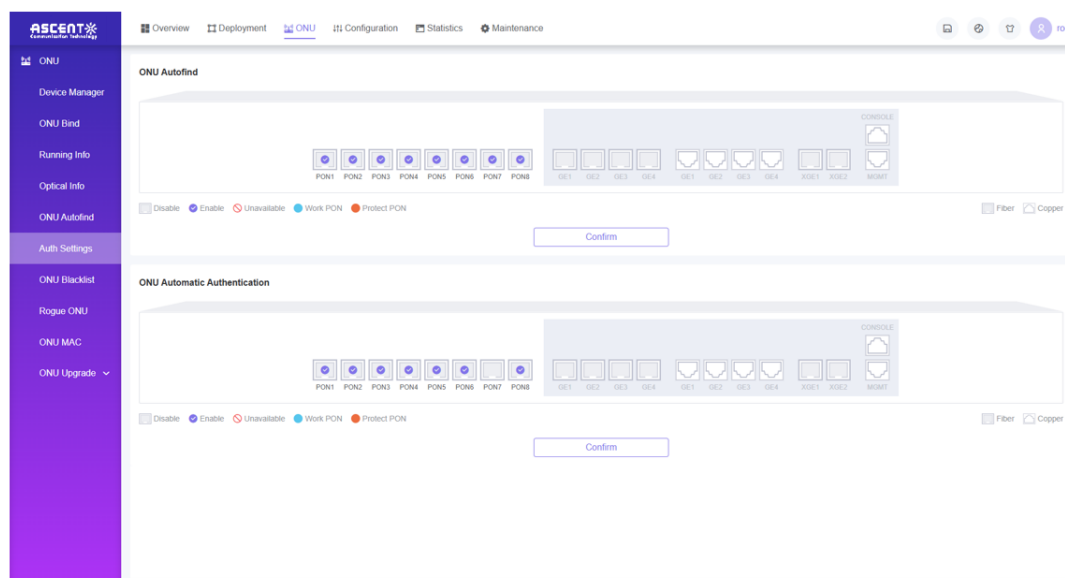
- Access path: **ONU ---->ONU Autofind.**



6.6 ONU Authentication Setting

We can set ONU Autofind and ONU Automatic Authentication feature for PON ports.

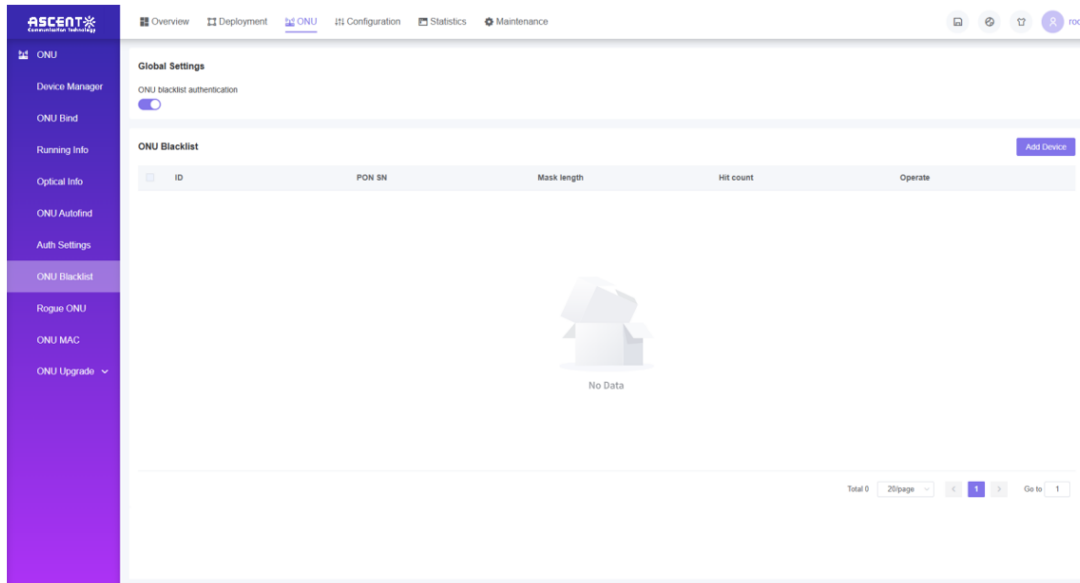
- Access path: **ONU ----> Auth Setting.**



6.7 ONU Blacklist

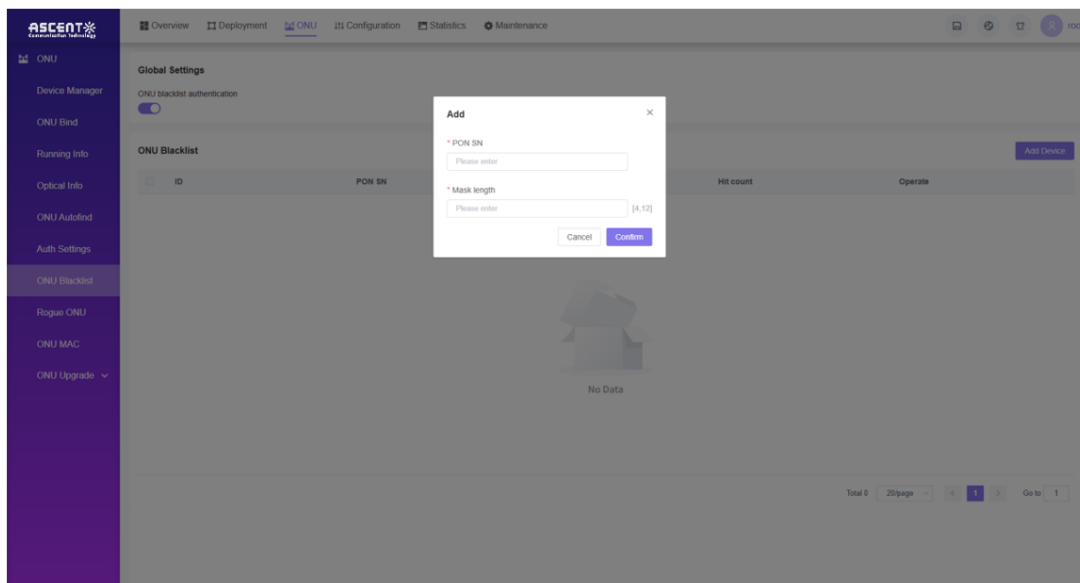
ONU Blacklist is a feature to limit ONU register. The ONUs in the Blacklist will not be registered on OLT.

- Access path: **ONU ----> ONU Blacklist.**



Add Blacklist ONU

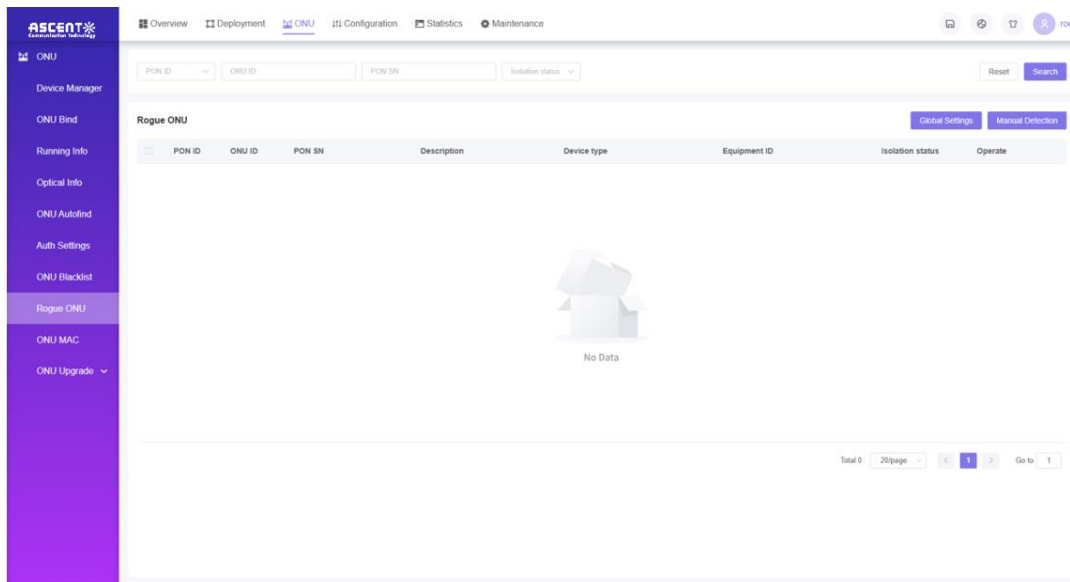
- Path: **ONU ---->ONU Blacklist ---->Click the "Add Device" button** and a pop-up windows will appear to set ONU PON SN.



6.8 Rogue ONU

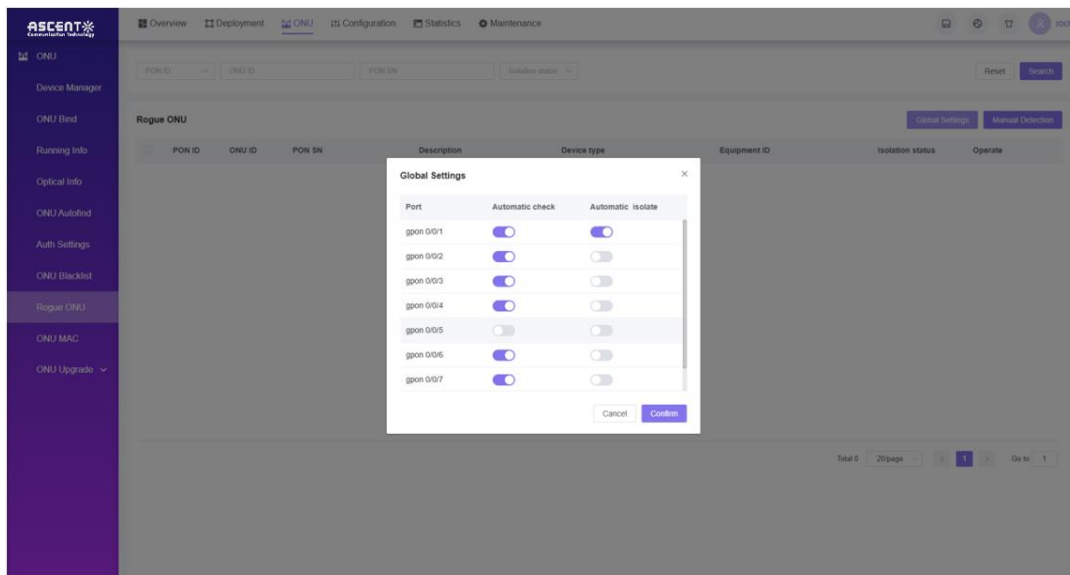
When an ONU emits light without assigning a timestamp, it will conflict with the light signals of other ONUs, which will affect the normal communication of other ONUs or all ONUs. We call this type of ONU, which does not send optical signals upwards according to the allocated timestamp, a rogue ONU.

- Access path: **ONU** ----> **Rogue ONU**.



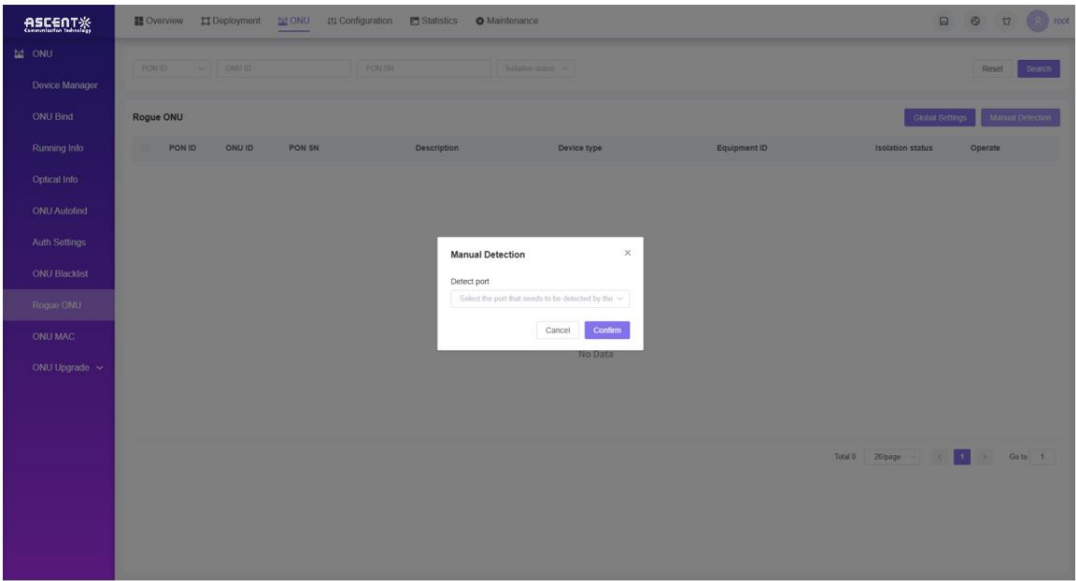
Global Setting

- Path: **ONU** ----> **Rogue ONU** ----> Click the "Global Setting" button and a pop-up windows will appear to set Automatic check and Automatic isolate.



Manual Detection

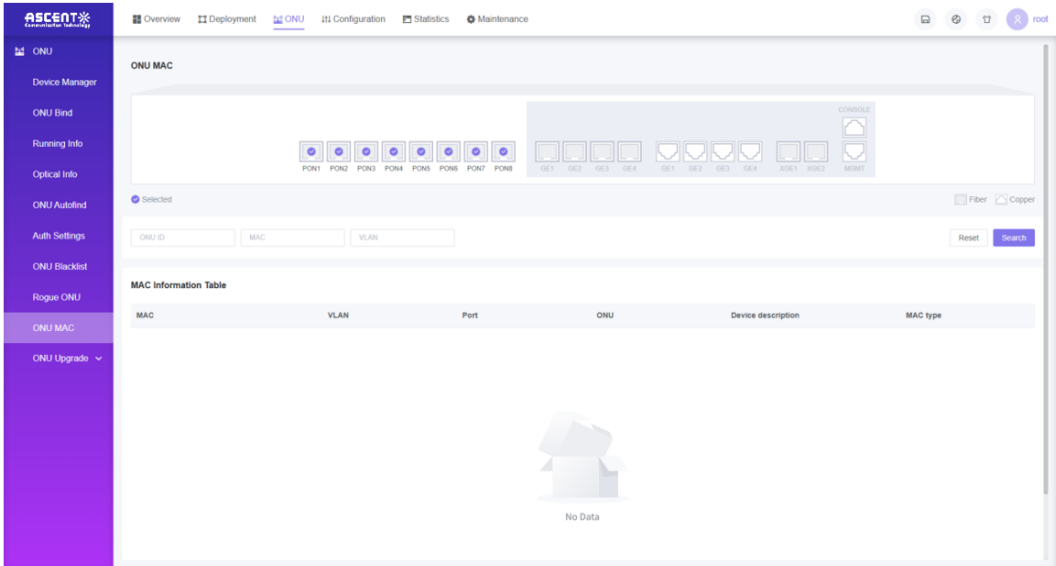
- Path: **ONU** ----> **Rogue ONU**---->Click the "**Manual Detection**" button and a pop-up windows will appear to set Detect port.



6.9 ONU MAC

ONU MAC page supports view MAC Information table. And it supports to search mac according to PON port ID, ONU ID, MAC, VLAN ID.

- Access path: **ONU** ----> **ONU MAC**.



6.10 ONU Upgrade Management

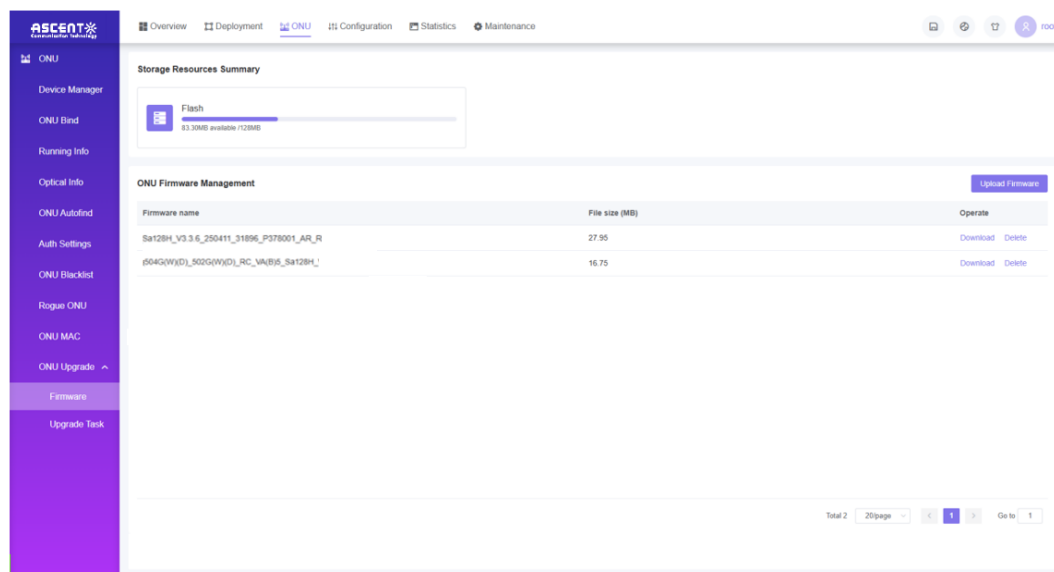
OLT Web Management System supports batch upgrade of ONU devices, including firmware management and firmware upgrade.

6.10.1 Firmware Management

Allowing to display ONU firmware upgrade packages that have been uploaded to the OLT Web Management System and provide upload, download, and delete functions.

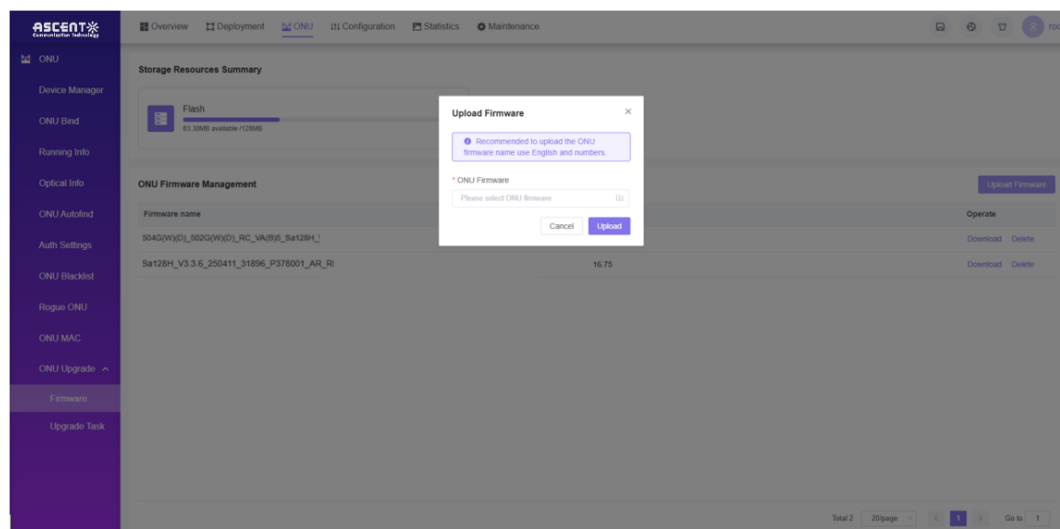
ONU Firmware List

- Access path: **ONU ---->ONU Upgrade ---->Firmware.**



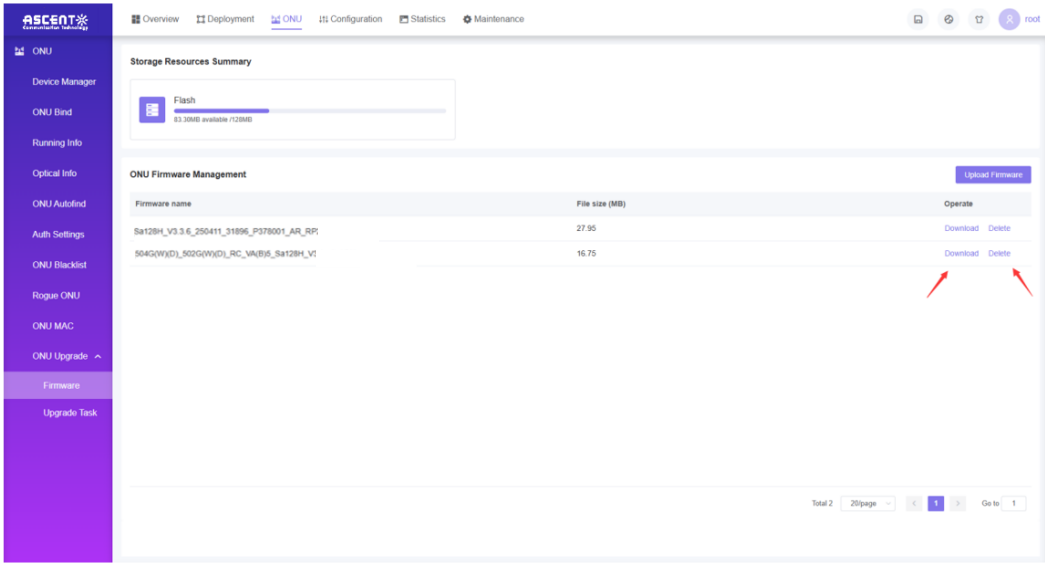
Upload Firmware

- Access path: **ONU ---->ONU Upgrade ---->Firmware ---->Click the "Upload Firmware", and a pop-up windows will appear to select ONU firmware.**



Download/Delete Firmware

- Access path: **ONU** ---->**ONU Upgrade** ---->**Firmware** ---->Click the "**Download**" or "**Delete**", to download / delete ONU firmware.

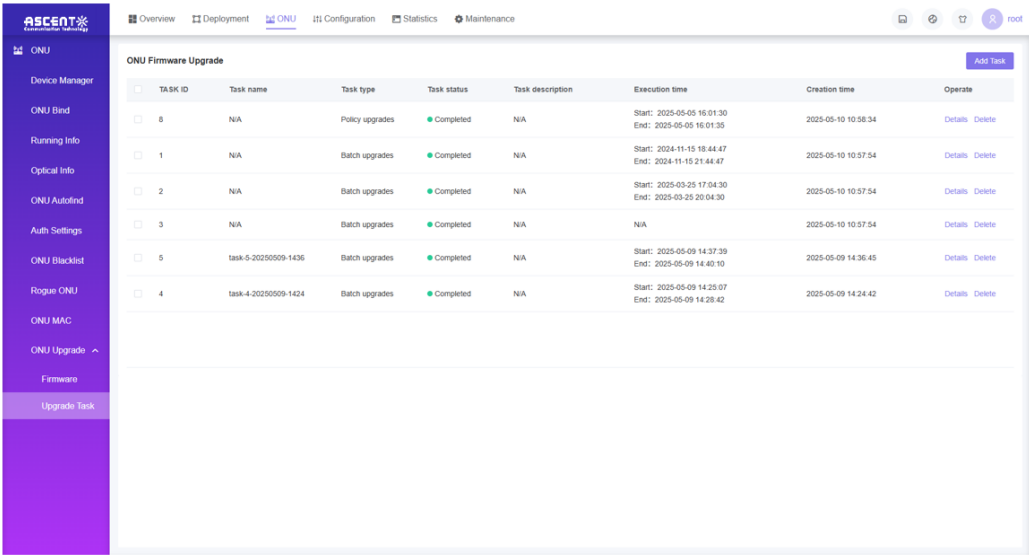


6.10.2 Upgrade Task

The [Upgrade Task] page displays the current upgrade plans of all ONU devices in the system, and provides the functions of creating, deactivating, and deleting upgrade plans.

Upgrade Task List

- Access path: **ONU** ---->**ONU Upgrade** ---->**Upgrade Task**.



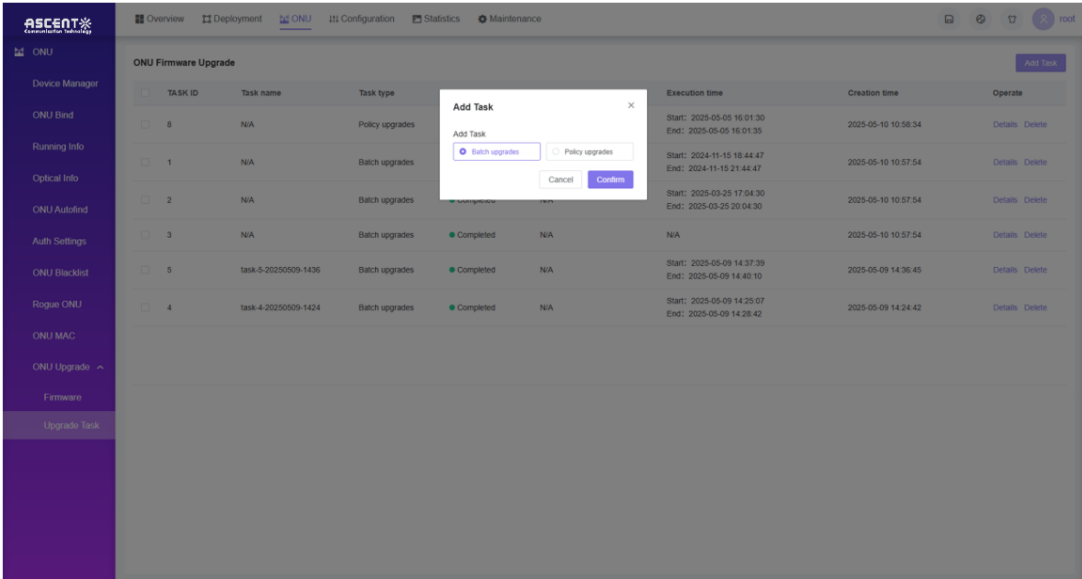
Add Tasks

- Access path: **ONU** ---->**ONU Upgrade** ---->**Upgrade Task**---->Click the "**Add Task**", and relocate to the guidelines.

Guidelines

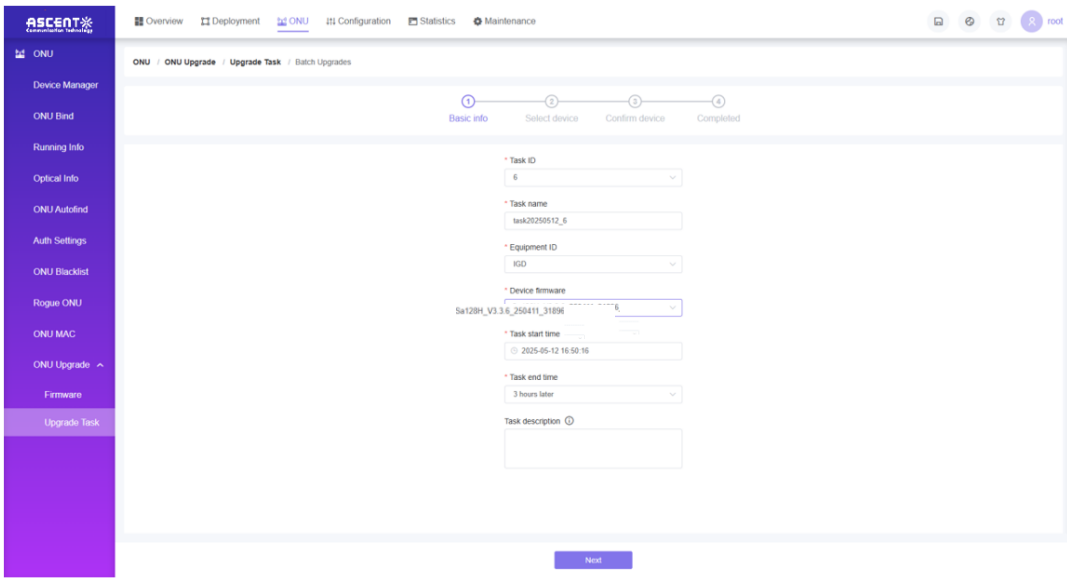
- Step 1: Task Type

Add a task and select task type, such as Batch upgrades or Policy upgrades. Click “**Confirm**”.



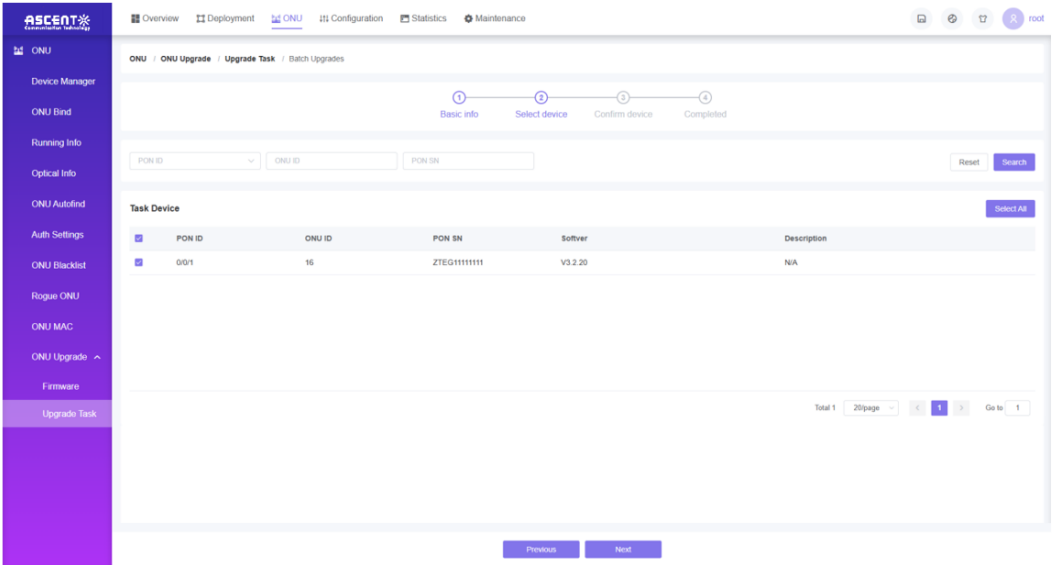
- Step 2: Basic Info

Fill in/select the device model needed to be upgraded, firmware for upgrading, and the scheduled execution time of the task.

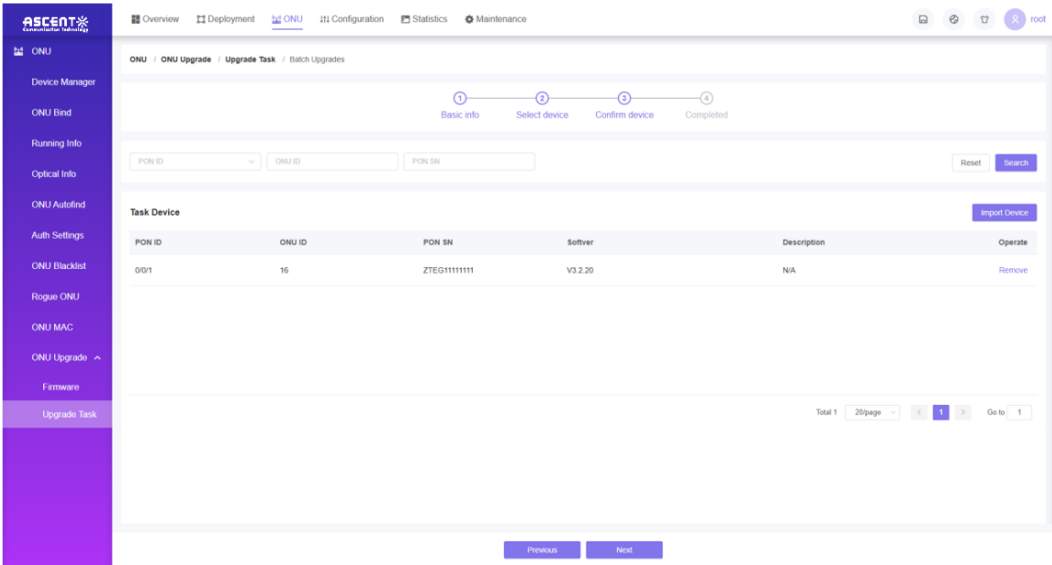


- Step 3: Select Device

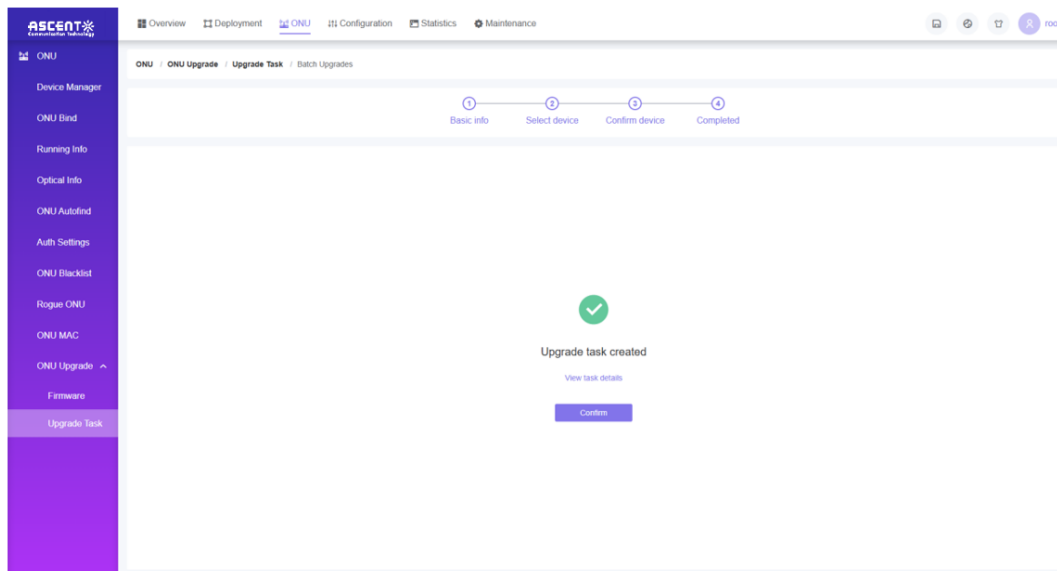
Select the ONU devices need to be upgraded.



- Step 4: Confirm Device
The system presents the devices to be upgraded in the form of a list, allowing users to double-check the information to confirm whether the devices need to be upgraded.



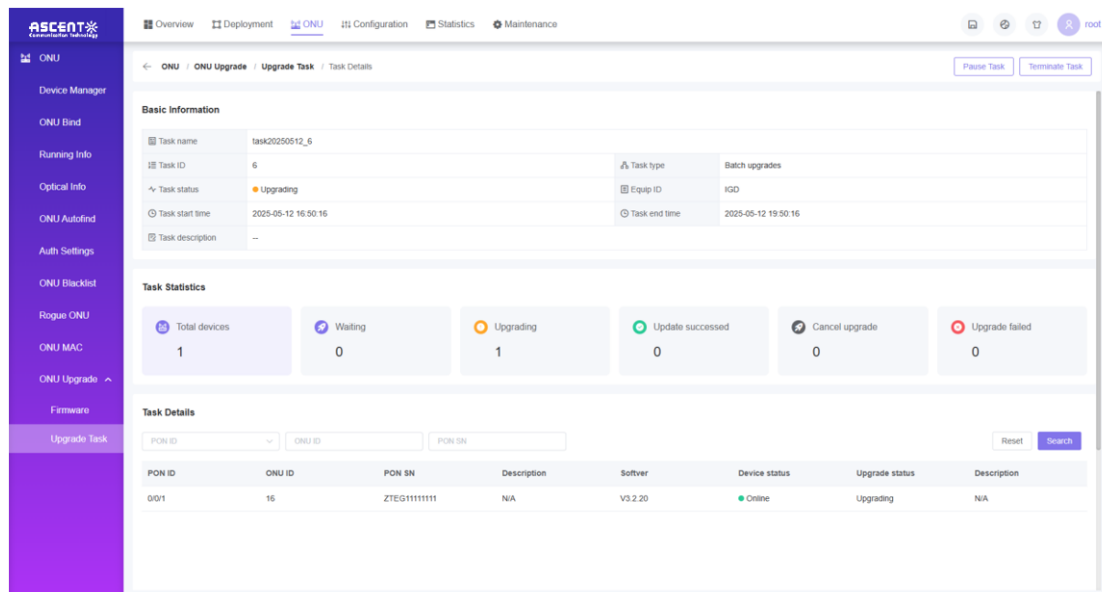
- Step 5: Completed
The firmware upgrade has been completed.



Users can choose to view the task list or check task details.

Task Details

- Access Path 1: **ONU** ---->**ONU Upgrade** ---->**Upgrade Task** ---->Select the upgrade task that needs to be operated ---->Click the "**Details**", and relocate to the [Task Details] page.
- Access Path 2: **ONU** ---->**ONU Upgrade** ---->**Upgrade Task** ---->Click the "**Add Task**" to complete the process --->Click "**Details**" in the "Completed" step and relocate to the [Task Details] page.



7 Configuration

This chapter contains the following topics:

- Port Management
- Protect Group
- VLAN
- VLANIF
- Link Aggregation
- IGMP
- DHCP
- PPPoE+
- MAC
- Loopback detection
- STP
- AAA
- Port Mirroring

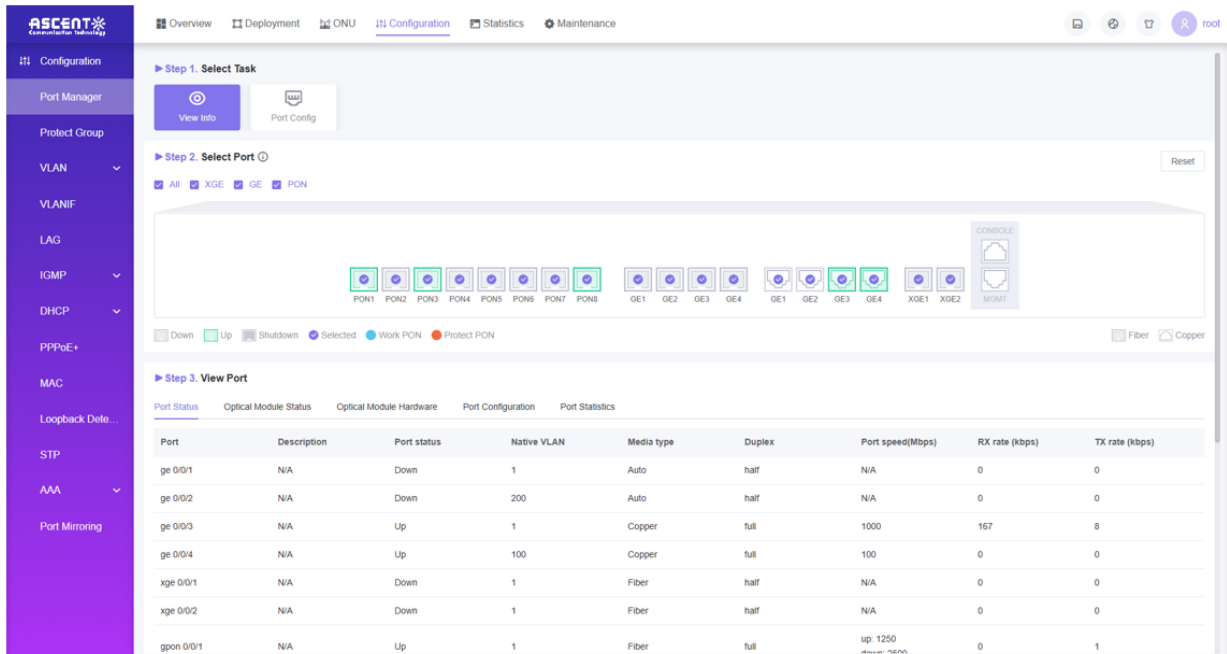
7.1 Port Management

Allowing users to view or configure functions related to the ports.

Port Information

The OLT Web Management System provides users to check information of port status, optical modules, port configuration, port statistics, etc.

- Access path: **Configuration** ----> **Port Manager** ----> Select the "View Info".

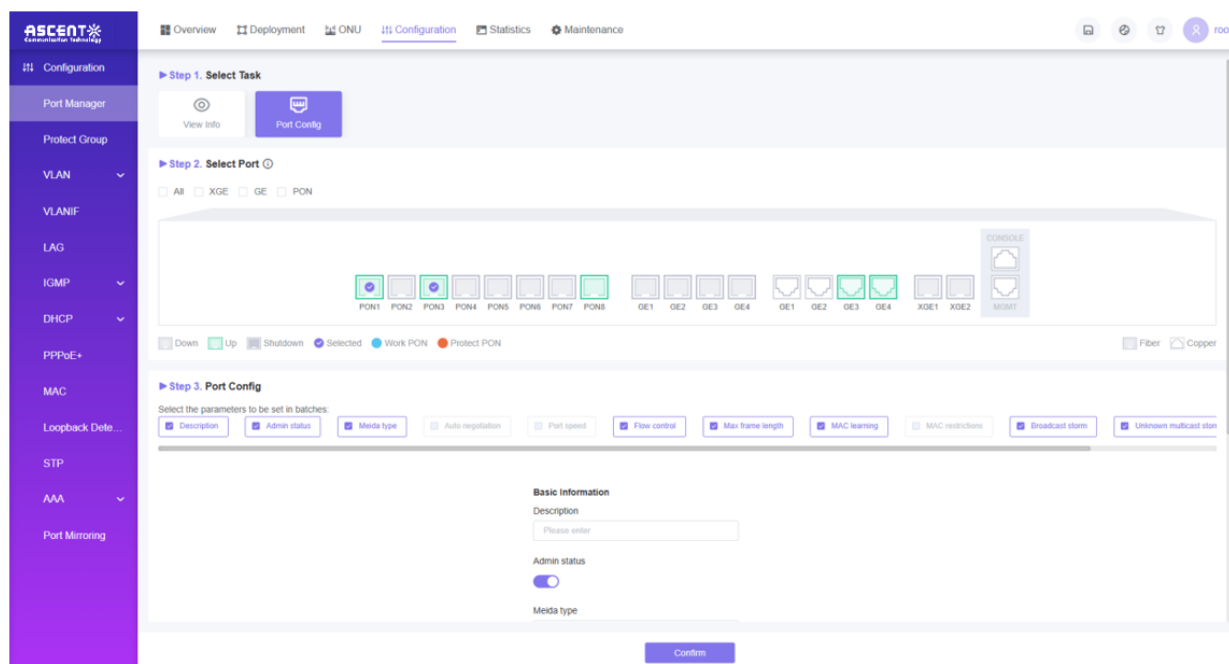


Port	Description	Port status	Native VLAN	Media type	Duplex	Port speed(Mbps)	RX rate (kbps)	TX rate (kbps)
ge 0/0/1	N/A	Down	1	Auto	half	N/A	0	0
ge 0/0/2	N/A	Down	200	Auto	half	N/A	0	0
ge 0/0/3	N/A	Up	1	Copper	full	1000	167	8
ge 0/0/4	N/A	Up	100	Copper	full	100	0	0
xge 0/0/1	N/A	Down	1	Fiber	half	N/A	0	0
xge 0/0/2	N/A	Down	1	Fiber	half	N/A	0	0
gpon 0/0/1	N/A	Up	1	Fiber	full	up: 1250 down: 1250	0	1

Port Configuration

The OLT Web Management System provides functions related to the port config, such as: port management, flow control, storm suppression, etc.

- Access Path: **Configuration** ---->**Port Management** ---->Select the "Port Config".



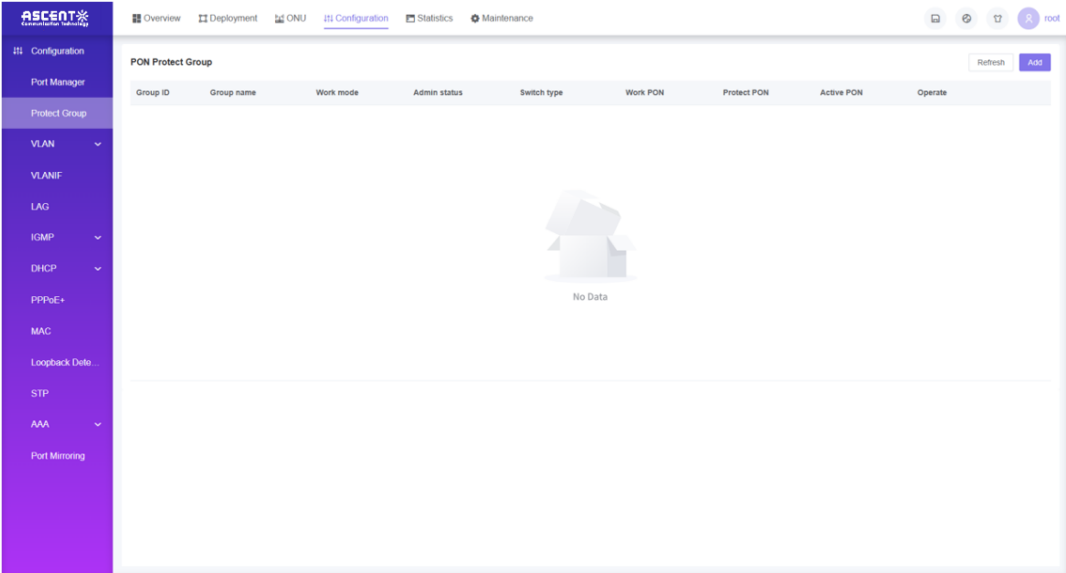
7.2 Protect Group

The PON protect group only supports Type B mode. The OLT uses two PON ports, each with an independent PON MAC chip and optical module, to protect the two PON ports. The backup PON port is in a cold standby state, and a 2:N optical splitter is used to establish two independent and mutually backup fiber optic links between the splitter and the OLT. The OLT detects the line status and OLT PON port status, and once the main fiber optic link fails, the OLT completes the switching. Applicable between any two PON ports of the same OLT (single homing) or between any two PON ports of different OLTs (dual homing), it has the advantages of access cost and practicality, and is widely used in scenarios with protection requirements.

PON Protect Group List

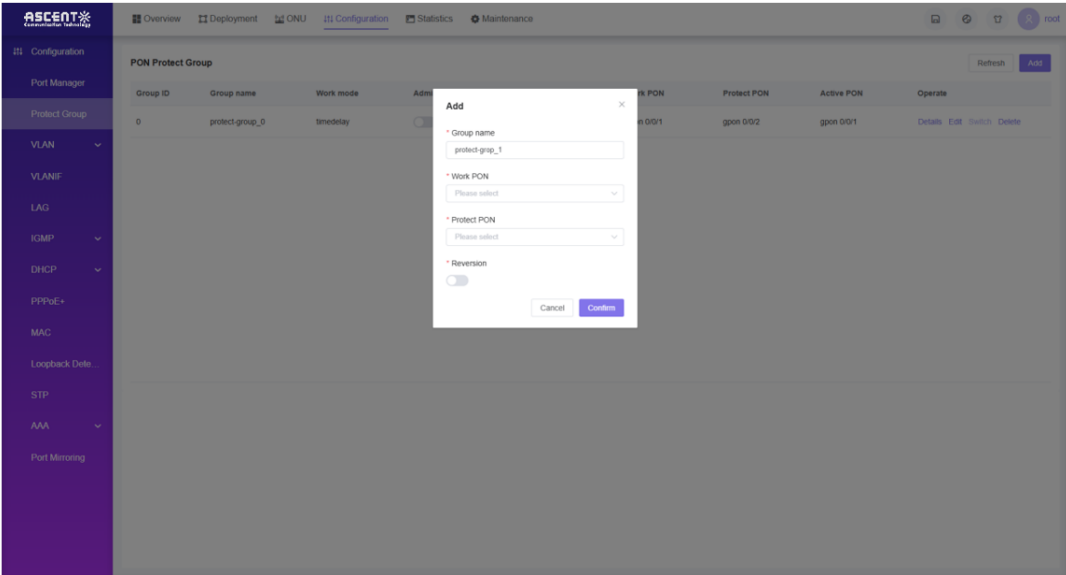
The OLT Web Management System provides users to check PON protect group information, like working mode, admin status, switch type, etc.

- Access path: **Configuration** ---->**Protect Group**.



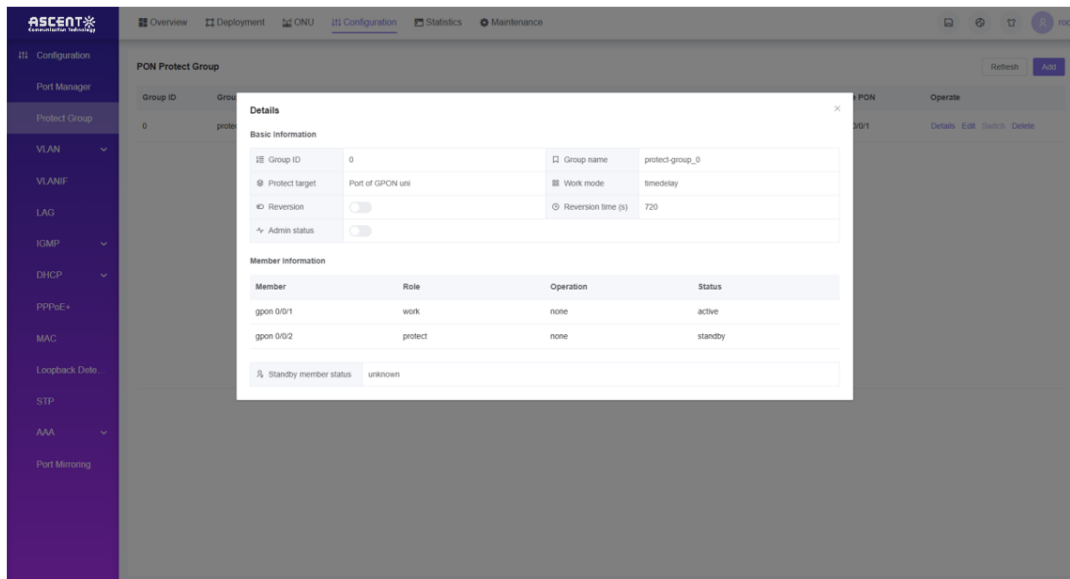
Add PON Protect Group

- Path: **Configuration** ---->**Protect Group** ---->Click the "**Add**" button and a pop-up windows will appear to add a protect group.



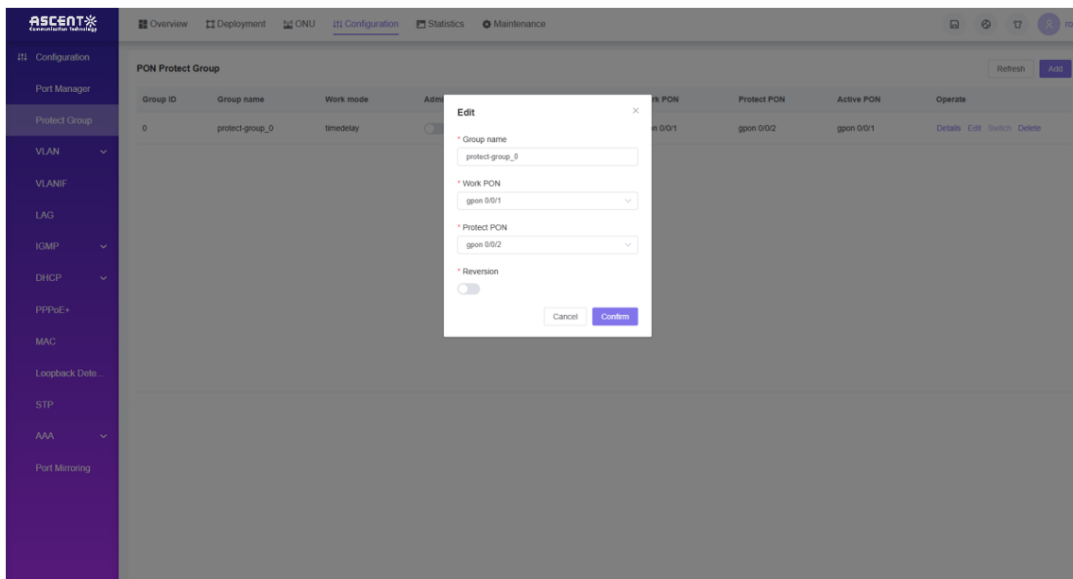
Details of PON Protect Group

- Access path: **Configuration** ---->**Protect Group** ---->Click the "**Details**" that the protect group needed to be checked, and a pop-up window will appear.



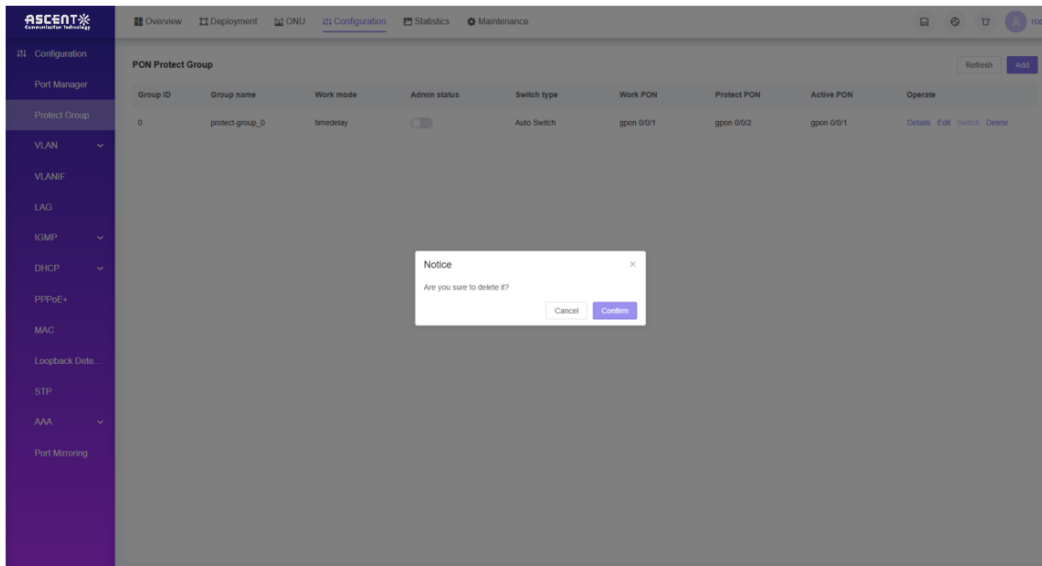
Edit PON Protect Group

- Access path: **Configuration** ---->**Protect Group** ---->Click the "**Edit**" that the protect group needed to be edited, and enter the protect group edit page.



Delete PON Protect Group

- Access path: **Configuration** ---->**Protect Group** ---->Click the "**Delete**" that the protect group needed to be deleted, and a pop-up windows will appear.



- Click the "**Confirm**" to delete it.

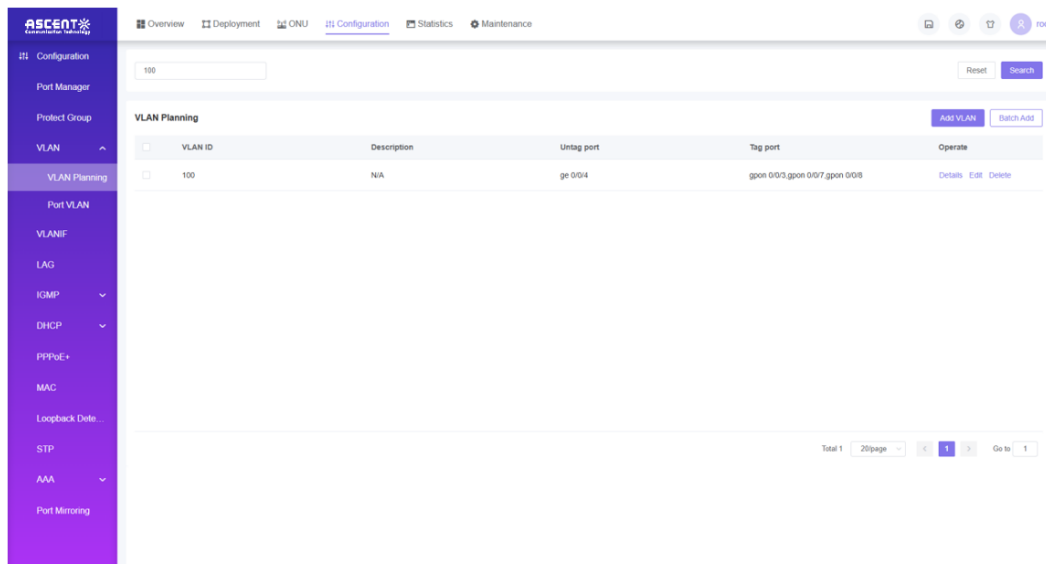
7.3 VLAN

7.3.1 VLAN Planning

- OLT support supports 4094 VLANs, numbered from 1 to 4094.
- By segmenting VLANs, hosts with no intercommunication require can be isolated at Layer 2, restricting the broadcast domain and enhancing network security.

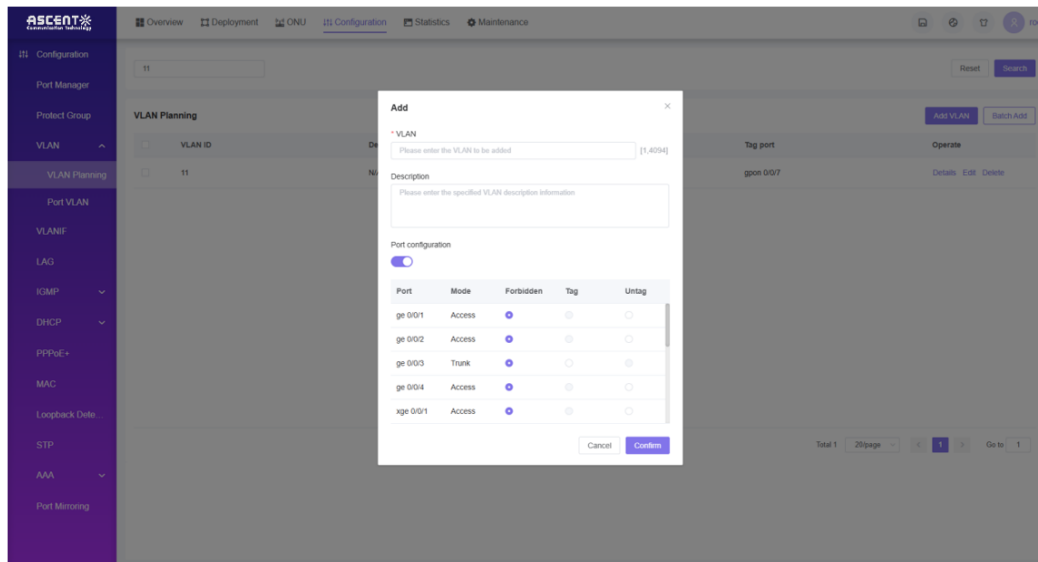
VLAN Planning List

- Access path: **Configuration** ---->**VLAN** ---->**VLAN Planning**.



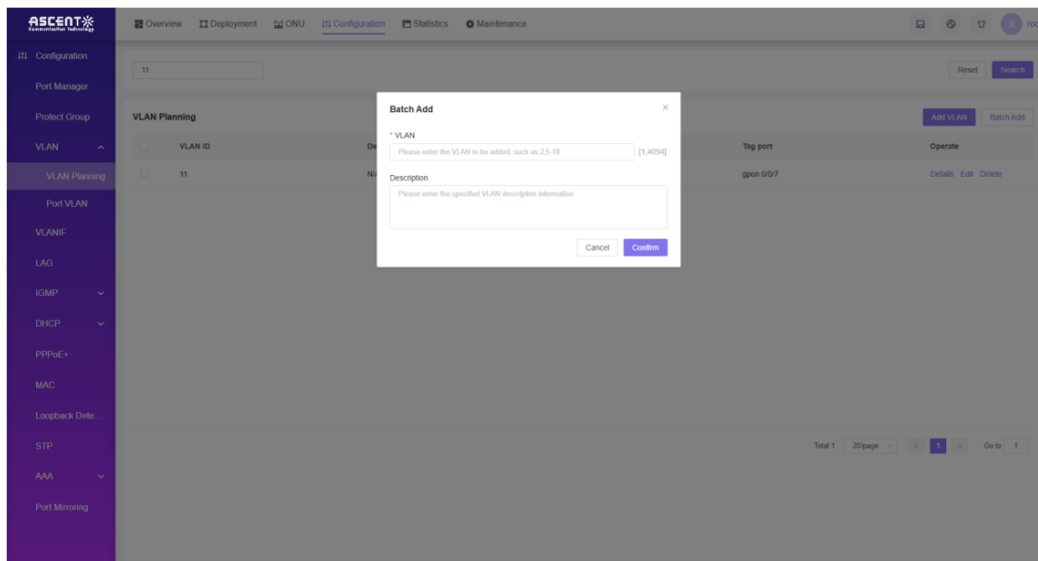
Add VLAN: Add a Single VLAN

- Access path: **Configuration** ---->**VLAN** ---->**VLAN Planning** ---->Click the "**Add VLAN**", and a pop-up window for adding VLAN will appear.



Add VLAN: Add VLANs in Batches

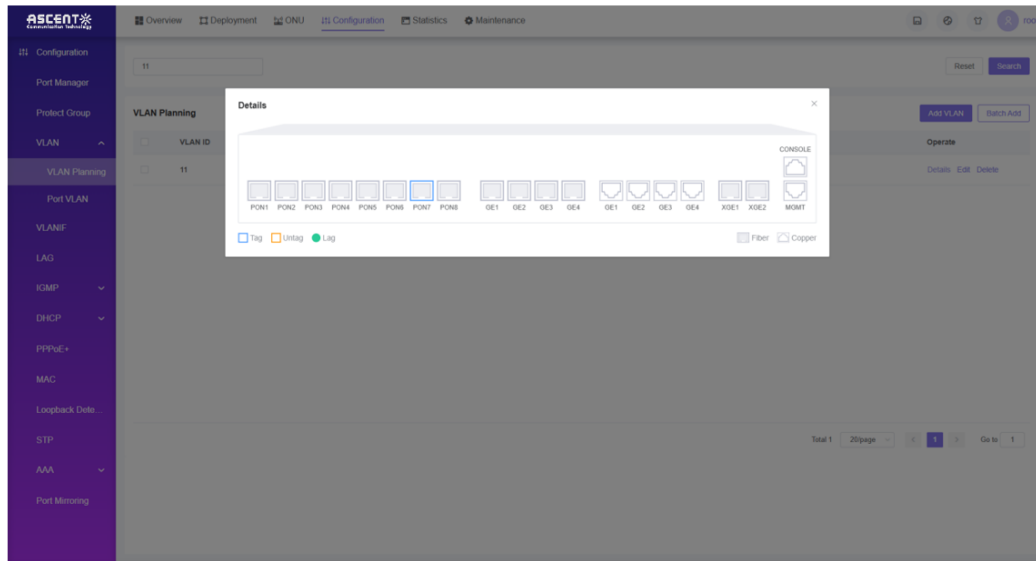
- Access path: **Configuration** ---->**VLAN** ---->**VLAN Planning** ---->Click the "**Batch Add**", and a pop-up window will appear to add VLANs in batches.



VLAN Details

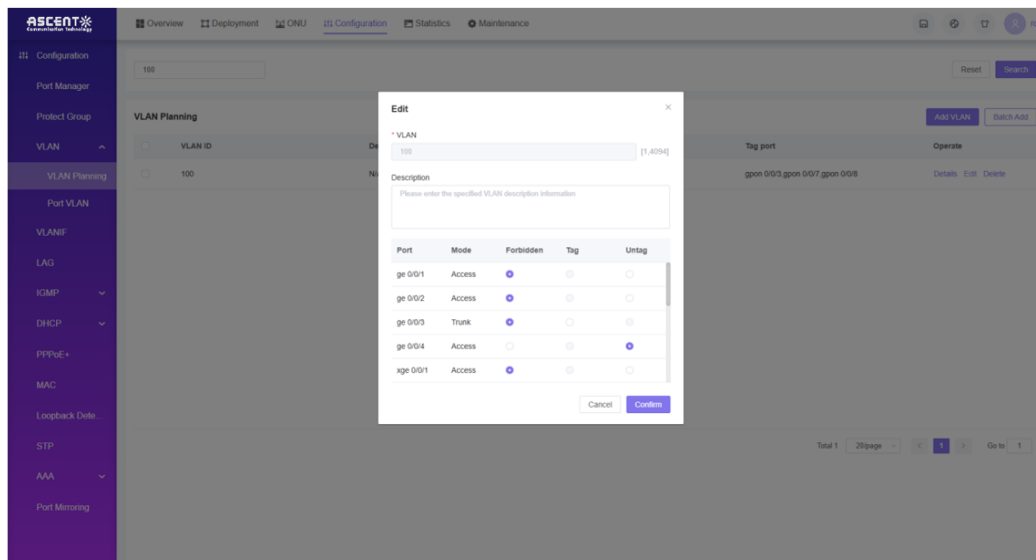
The OLT Web Management System provides a view of selected VLAN join ports.

- Access path: **Configuration** ---->**VLAN** ---->**VLAN Planning** ---->Select the VLAN needed to be operated ---->Click the "**Details**", and a pop-up window with VLAN details will appear.



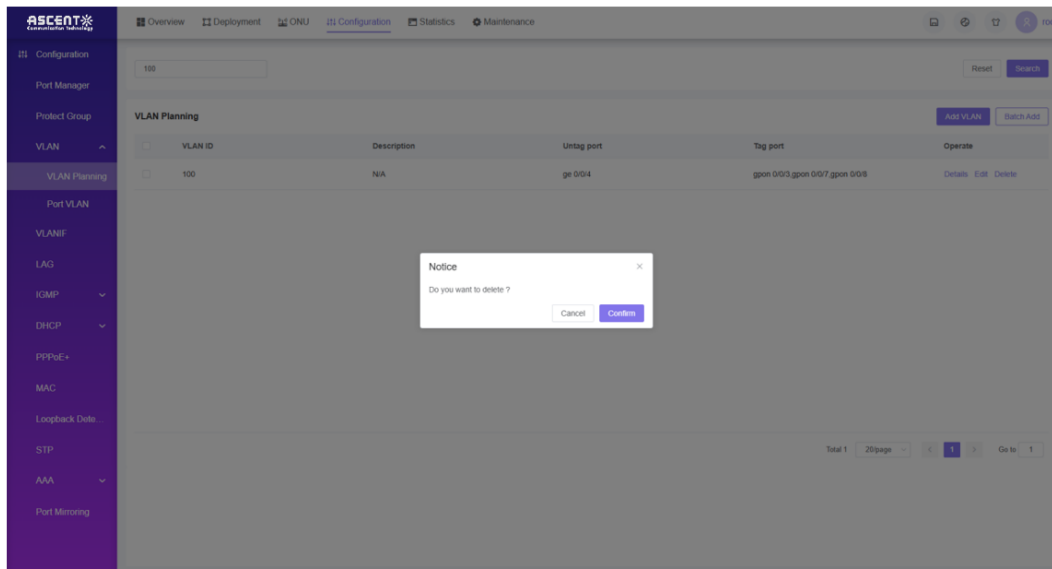
Edit VLAN

- Access path: **Configuration** ---->**VLAN** ---->**VLAN Planning** ---->Select the VLAN needed to be operated ---->Click the "Edit", and a pop-up window for VLAN editing will appear.



Delete VLAN

- Access path: **Configuration** ---->**VLAN** ---->**VLAN Planning** ---->Click the "Delete" that the VLAN needed to be deleted, and a pop-up windows will appear.

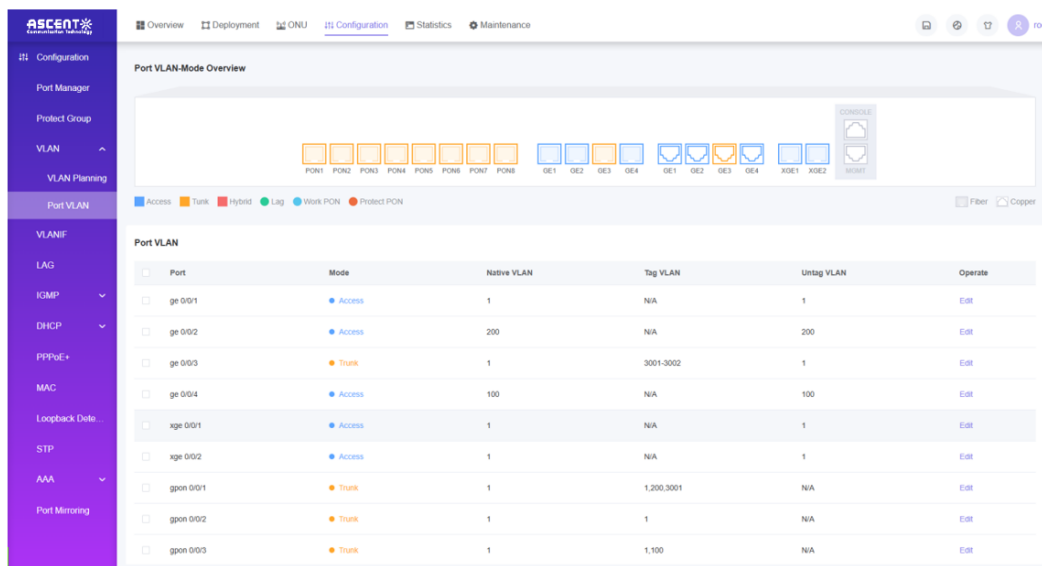


- Click the "Confirm" to delete it.

7.3.2 Port VLAN

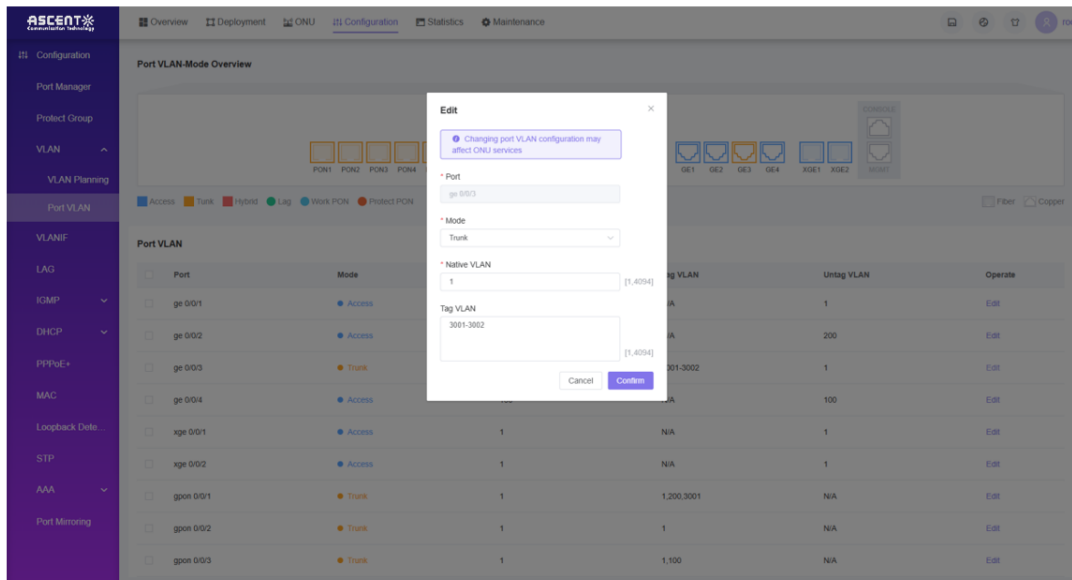
The OLT Web Management System provides the ability to view or edit Port VLAN.

- Access path: **Configuration** ---->**VLAN** ---->**Port VLAN**.



Port VLAN Edit

- Access path: **Configuration** ---->**VLAN** ---->**Port VLAN** ---->Select the VLAN needed to be operated ---->Click the "Edit", and a pop-up window for editing port VLAN will appear.

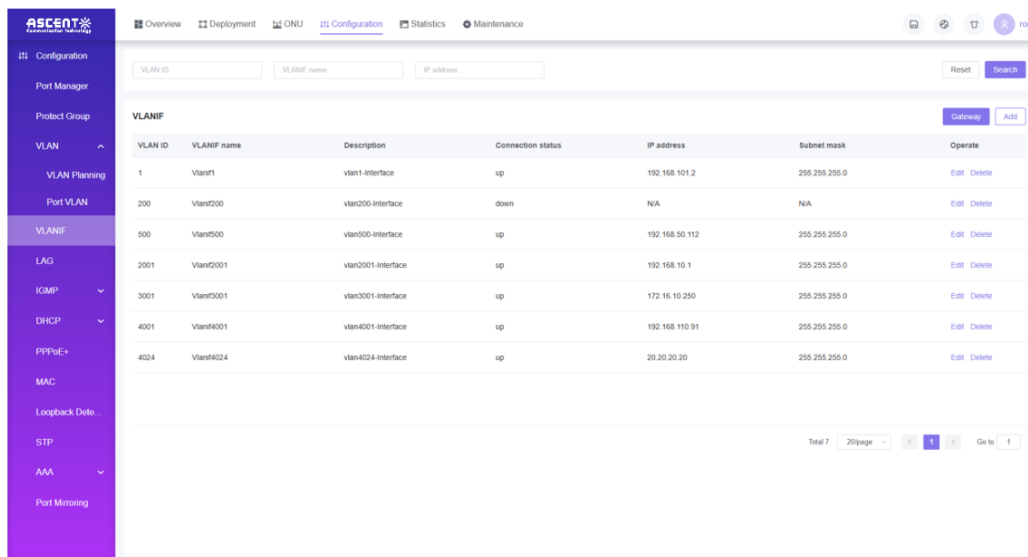


7.4 VLANIF

The VLANIF interface is a Layer 3 logical interface that, after configuring IP addresses, enables inter-VLAN communication and the deployment of Layer 3 services.

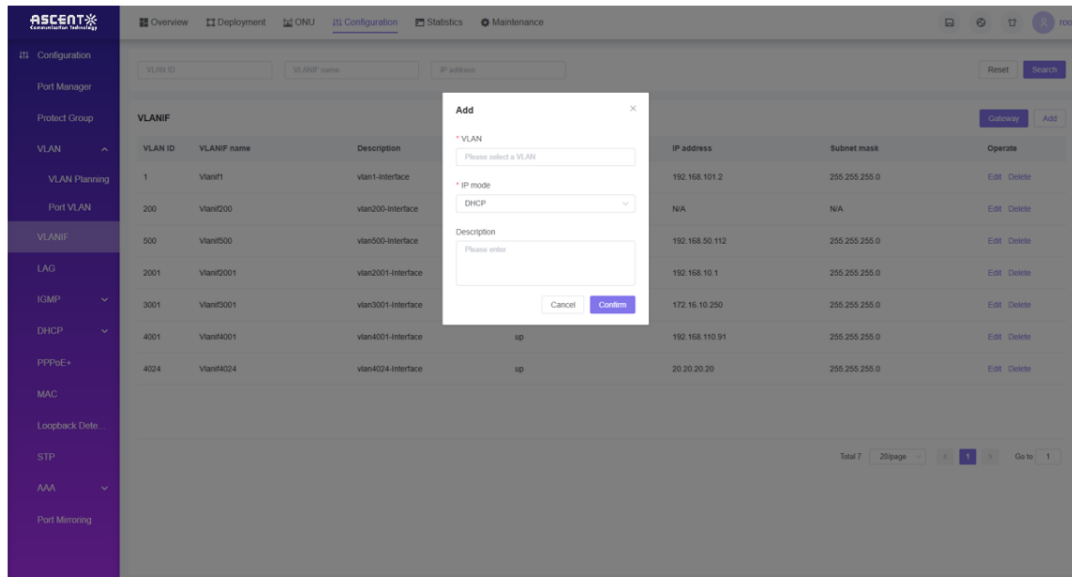
VLANIF List

- Access path: **Configuration ---->VLANIF.**



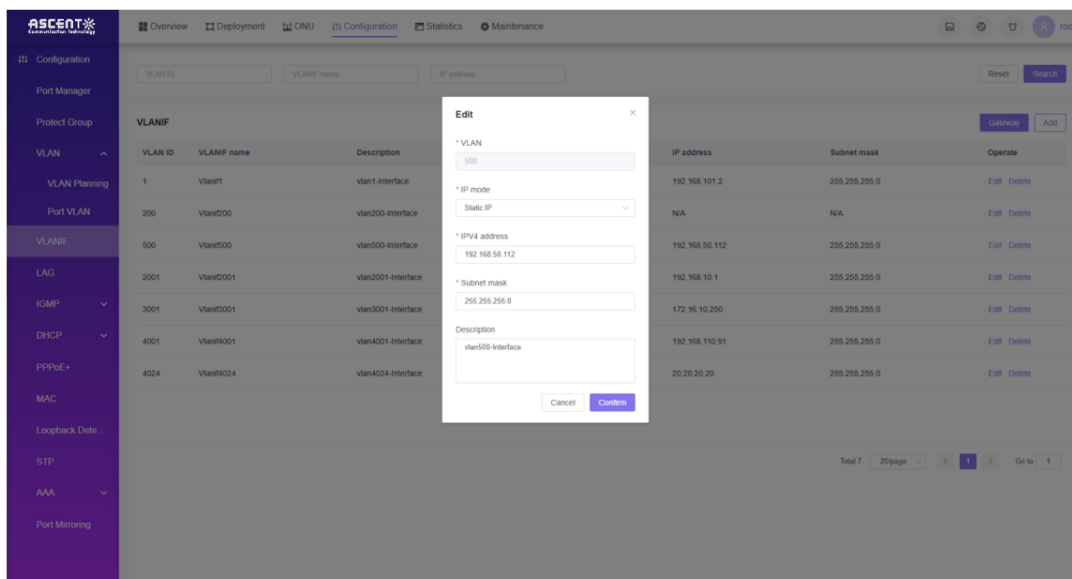
Add VLANIF

- Access path: **Configuration ---->VLANIF ---->Click the "Add",** a pop-up window of adding VLANIF will appear.



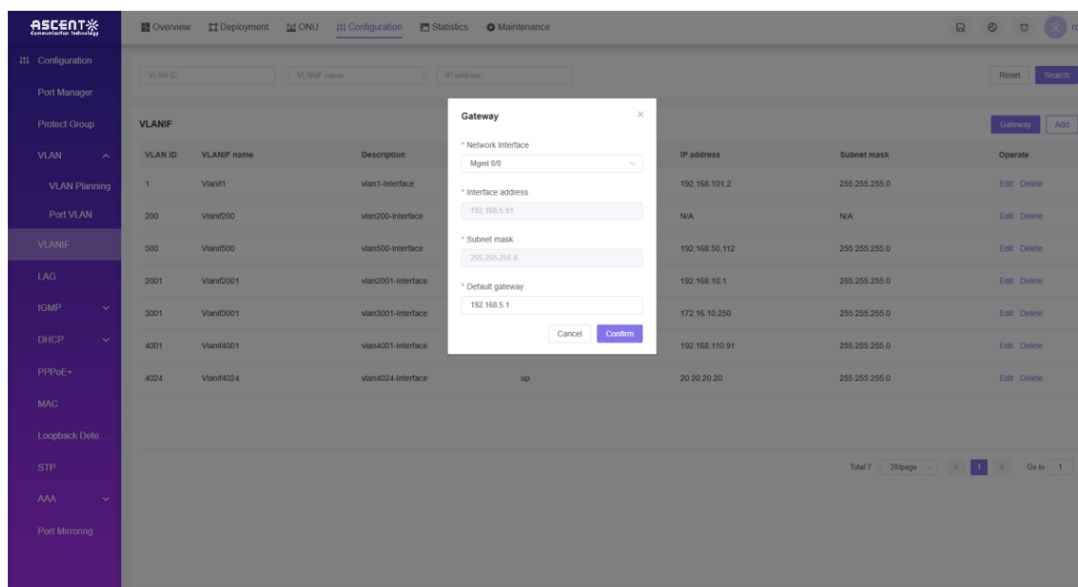
Edit VLANIF

- Access path: **Configuration** ---->**VLANIF** ---->Select the VLANIF needed to be operated ---->Click the "Edit", and a pop-up window for VLANIF editing will appear.



Gateway Configuration

- Access Path: **Configuration** ---->**VLANIF** ---->Click "Gateway", a pop-up window for gateway configuration will appear.

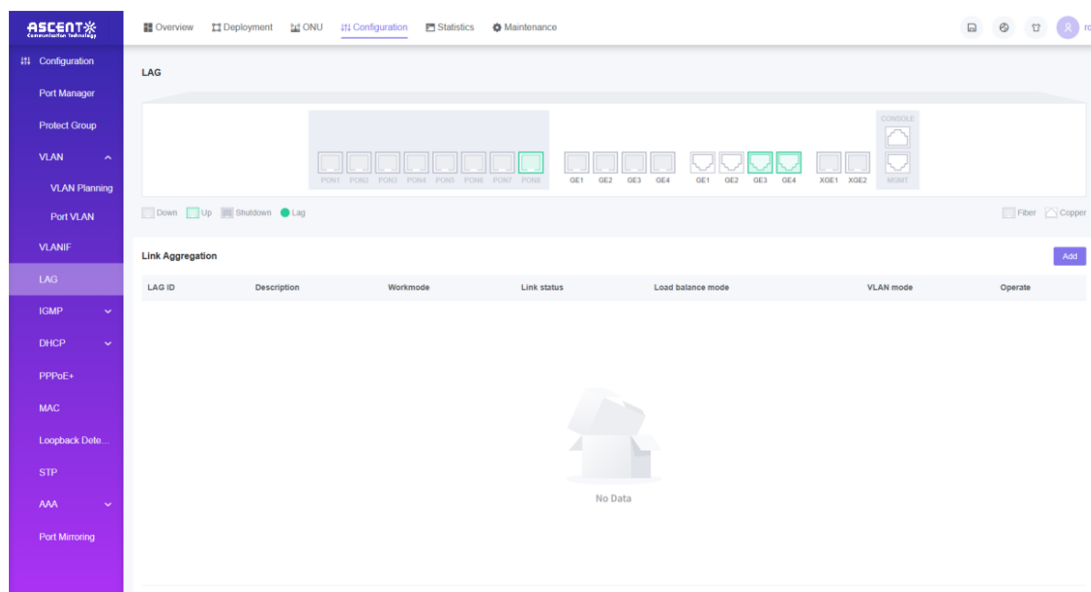


7.5 Link Aggregation

The OLT Web Management System supports the Link Aggregation Control Protocol (LACP), compliant with the IEEE 802.3ad standard. The LACP protocol is used to bundle multiple uplink ports into a single logical connection, enhancing bandwidth and providing backup connectivity between uplink ports and upper-layer devices.

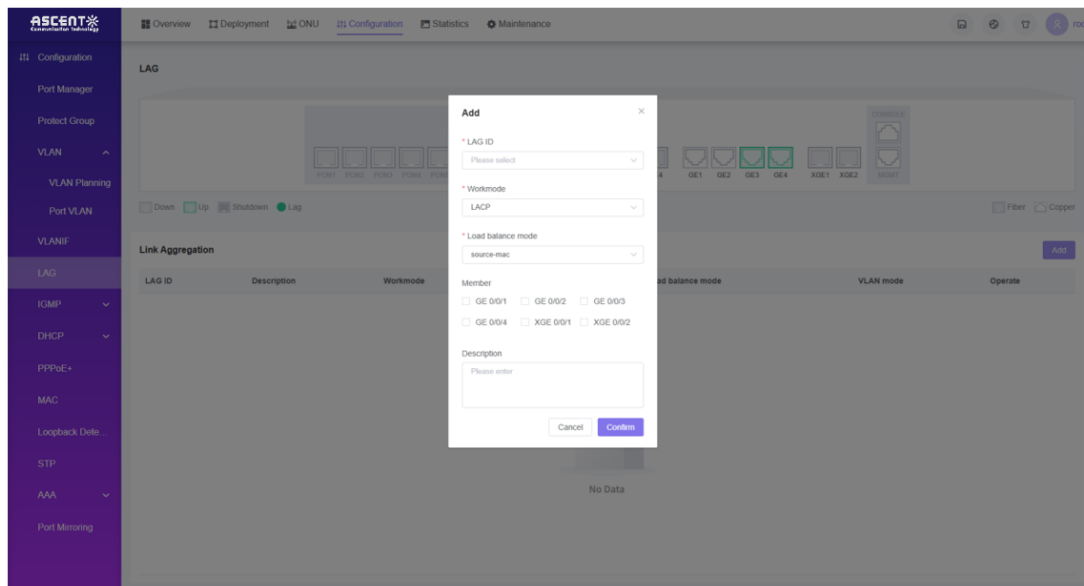
Link Aggregation

- Access path: **Configuration** ---->**LAG**.



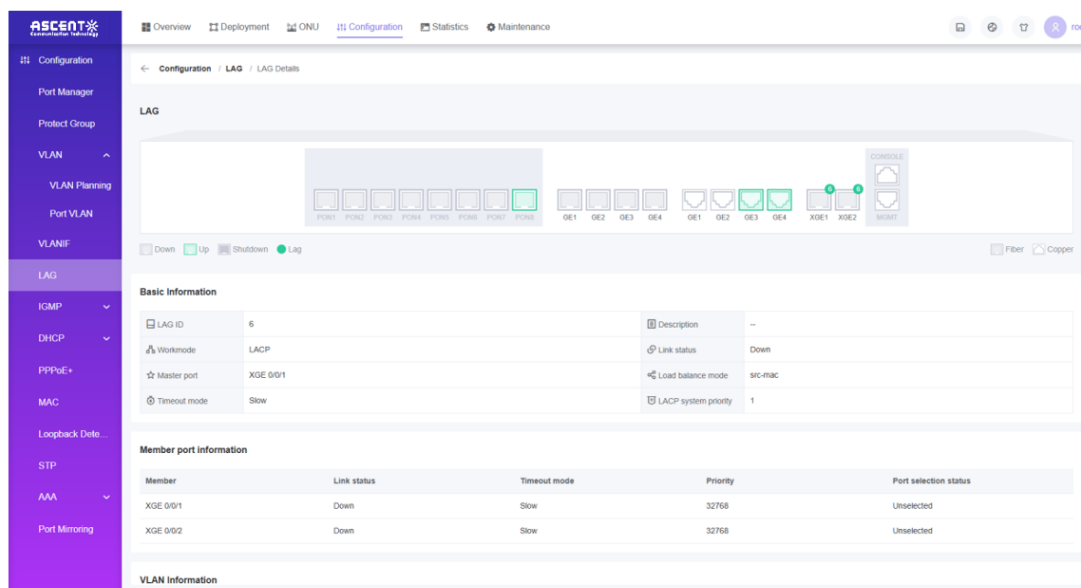
Adding a Link Aggregation Group

- Access path: **Configuration** ---->**LAG** ---->Click "**Add**", and a pop-up window for adding link aggregation group will appear.



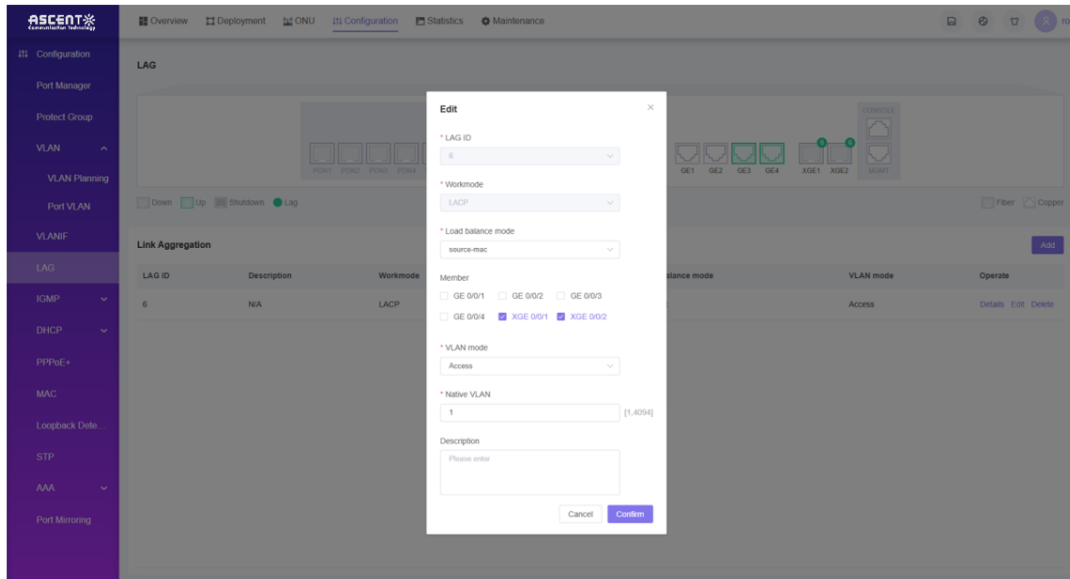
View Link Aggregation Group Details

- Access path: **Configuration** ---->**LAG** ---->Select the link aggregation group needed to be operated ---->Click the "**Details**", and relocate to the [Link Aggregation Group(LAG) Details] page.



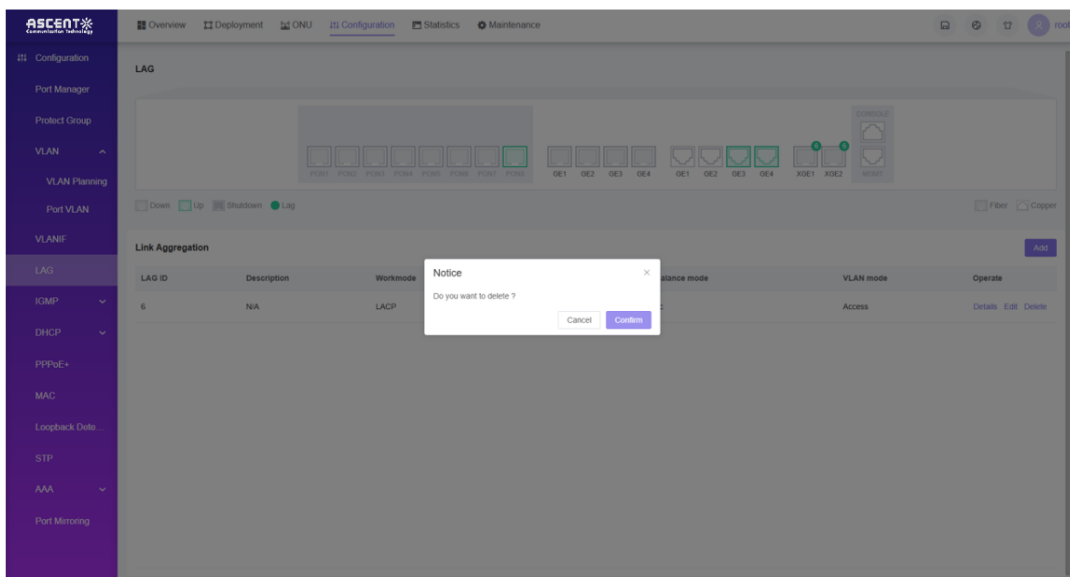
Edit Link Aggregation Group

- Access path: **Configuration** ---->**LAG** ---->Select the link aggregation group needed to be edited ---->Click the "**Edit**", , and a pop-up window for editing link aggregation group will appear.



Delete Link Aggregation Group

- Access path: **Configuration** ---->**LAG** ---->Click the "**Delete**" that the link aggregation group needed to be deleted, and a pop-up windows will appear.

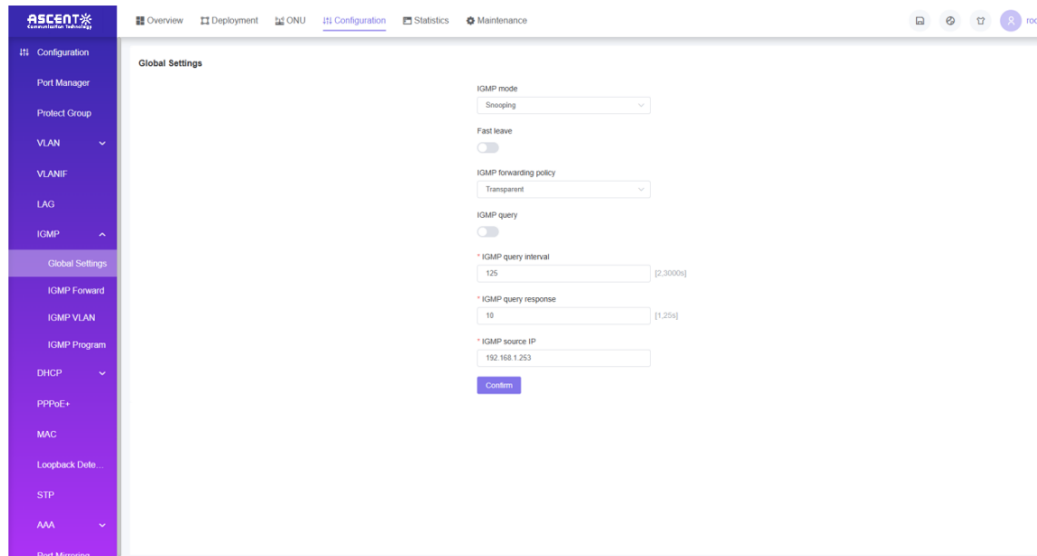


- Click the "**Confirm**" to delete it.

7.6 IGMP

7.6.1 Global Settings

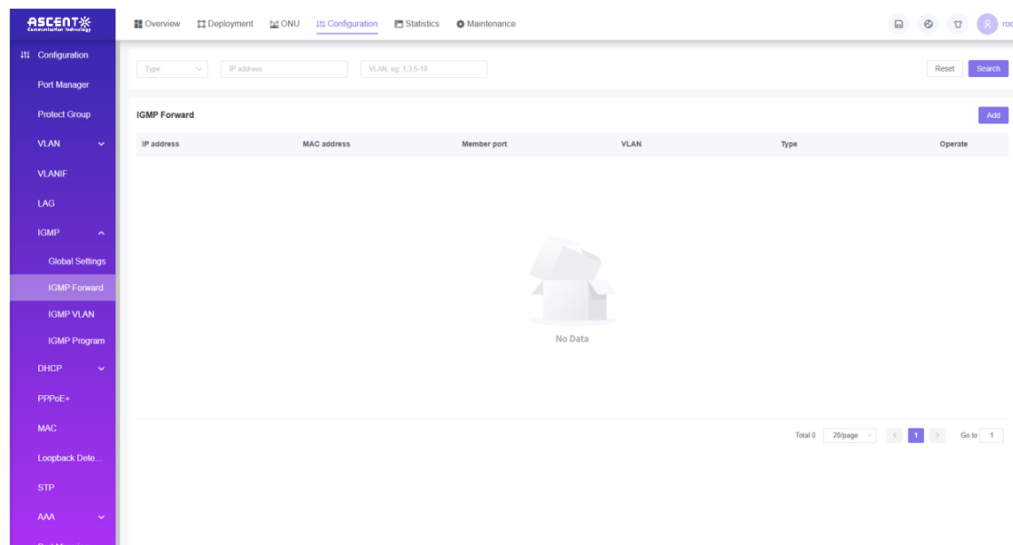
- Access path: **Configuration ---->IGMP ---->Global Settings.**



7.6.2 IGMP Forward

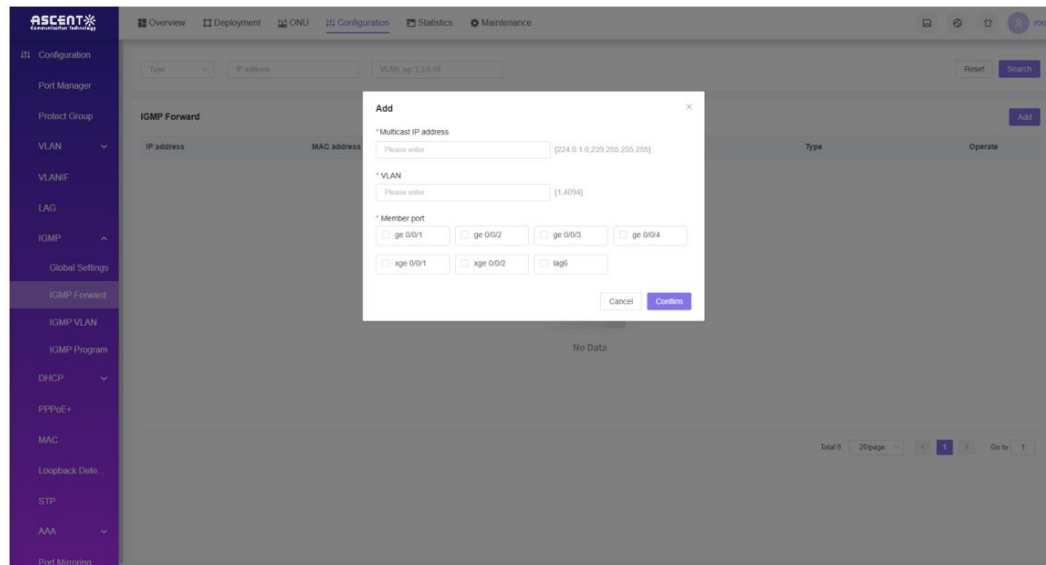
IGMP Forward List

- Access path: **Configuration ---->IGMP ----> IGMP Forward.**



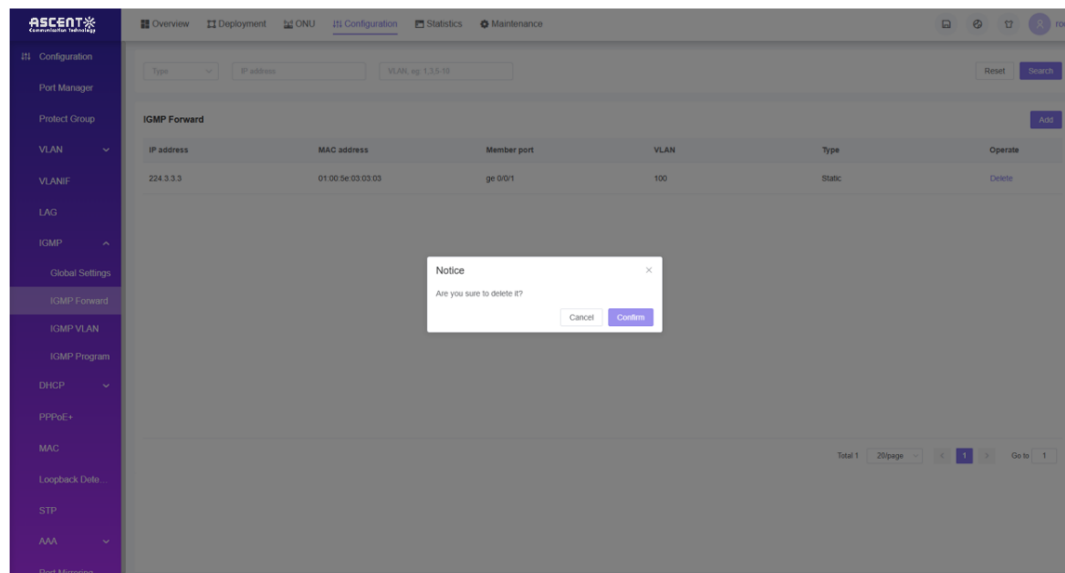
Add IGMP Forward

- Access path: **Configuration ---->IGMP ---->IGMP Forward ---->Click the "Add", and the IGMP Forwarding [Add] pop-up window will appear.**



Delete IGMP Forward

- Access path: **Configuration** ---->**IGMP** ---->**IGMP Forward** ---->Click the "**Delete**", and the IGMP Forward [Delete] pop-up window will appear.

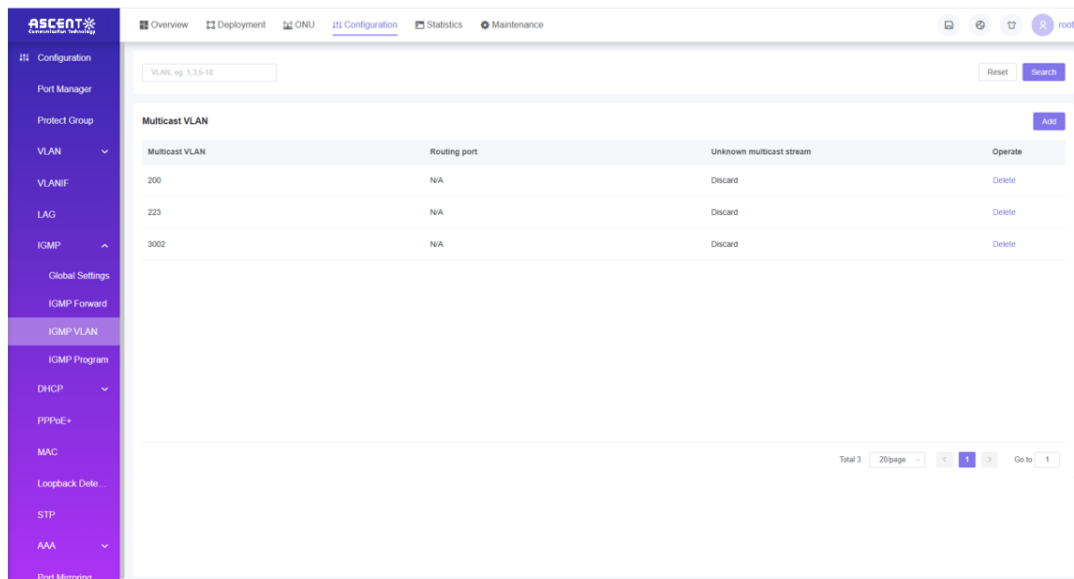


- Click the "**Confirm**" to delete it.

7.6.3 IGMP VLAN

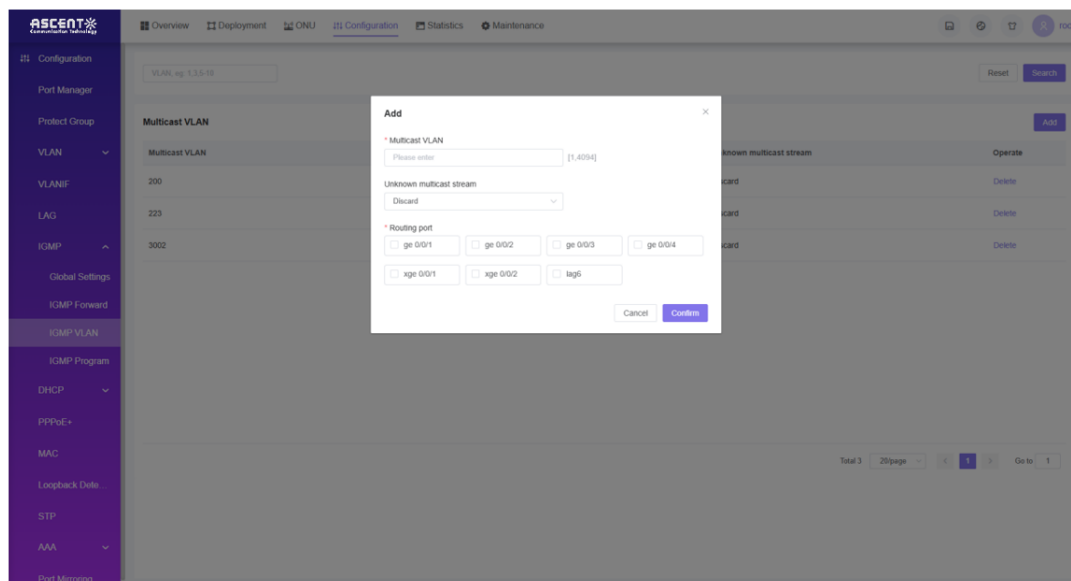
IGMP(Multicast) VLAN List

- Access path: **Configuration** ---->**IGMP** ---->**IGMP VLAN**.



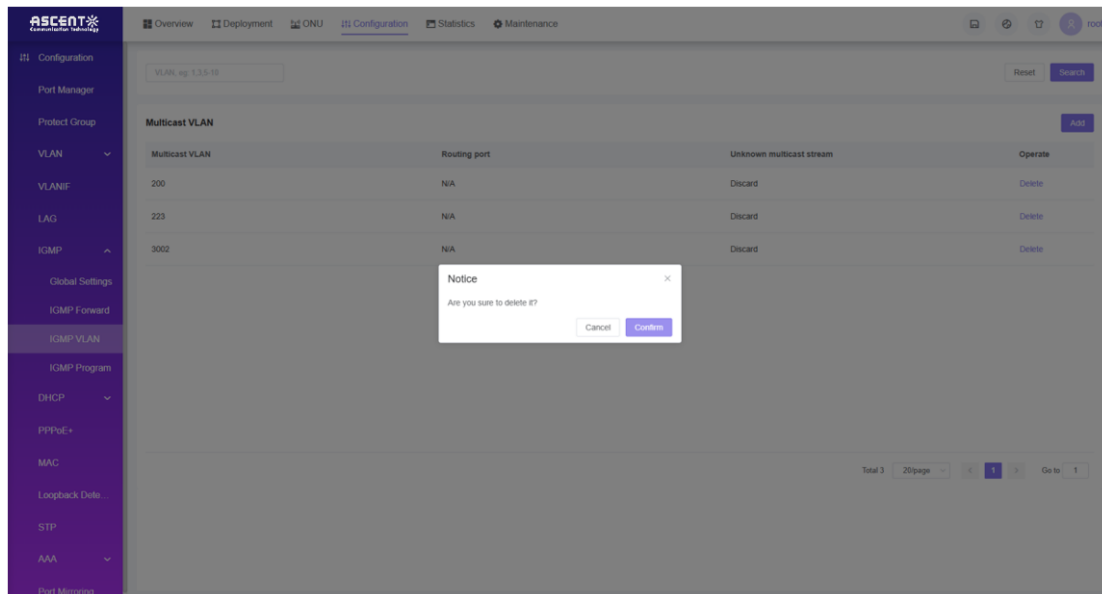
Add IGMP VLAN

- Access path: **Configuration** ---->**IGMP** ---->**IGMP VLAN** ---->Click the "**Add**", and the Multicast VLAN [Add] pop-up window will appear.



Delete IGMP VLAN

- Access path: **Configuration** ---->**IGMP** ---->**IGMP VLAN** ---->Click the "**Delete**", and the IGMP VLAN [Delete] pop-up window will appear.

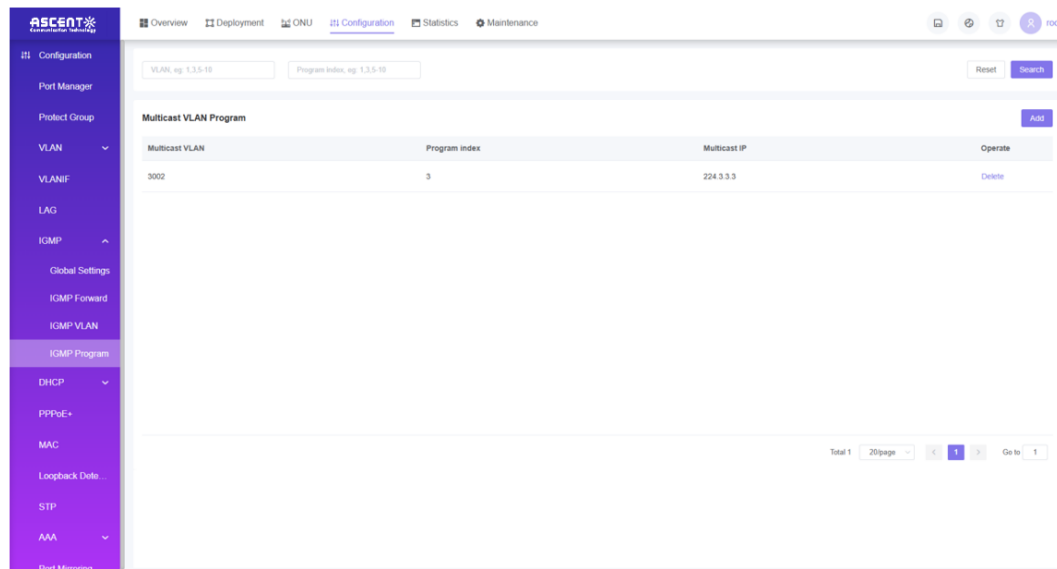


- Click the "Confirm" to delete it.

7.6.4 Multicast VLAN Program

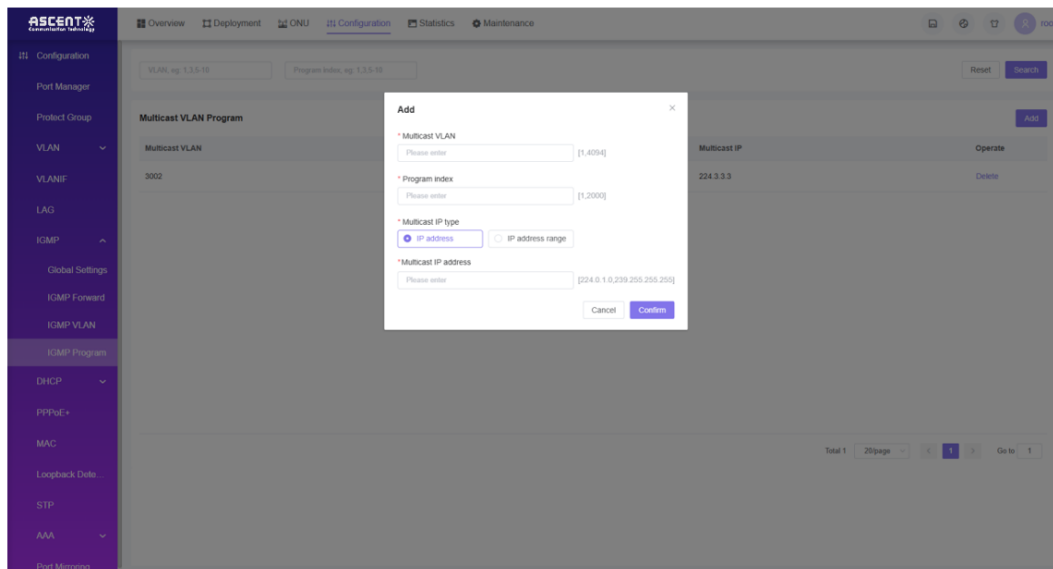
Multicast VLAN Program List

- Access path: **Configuration ---->IGMP ---->IGMP Program.**



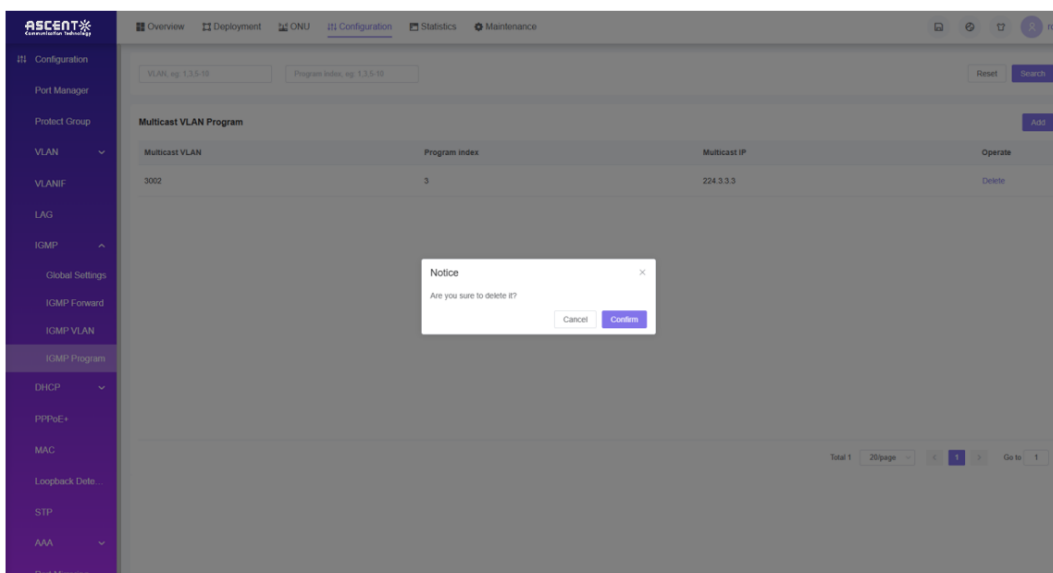
Add Multicast VLAN Program

- Access path: **Configuration ---->IGMP ---->IGMP Program ---->Click the "Add", and the Multicast VLAN Program [Add] pop-up window will appear.**



Delete Multicast VLAN Program

- Access path: **Configuration** ---->**IGMP** ---->**IGMP Program** ---->Click the "**Delete**", and the IGMP Program [Delete] pop-up window will appear.



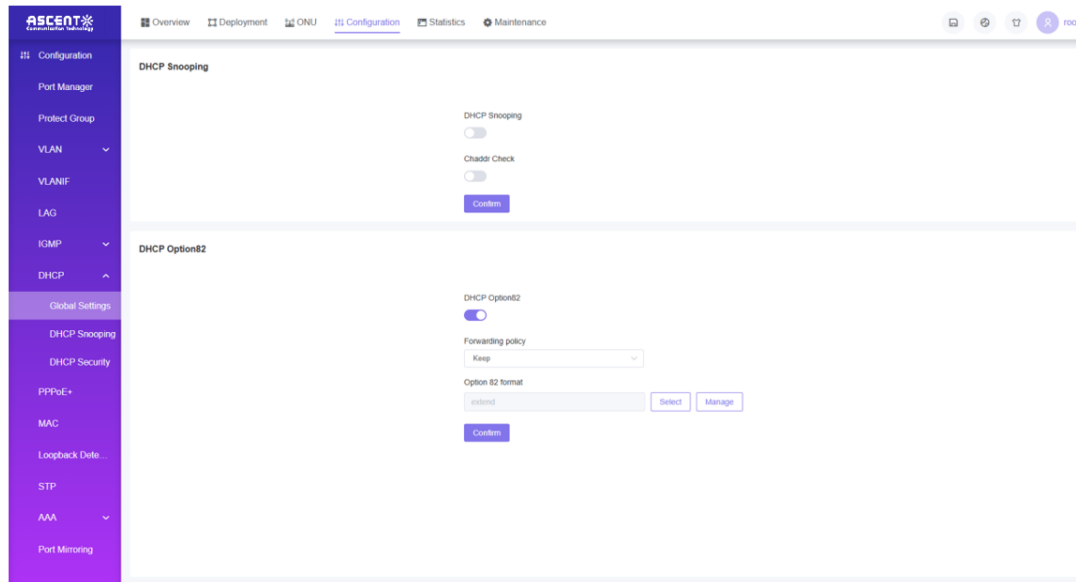
- Click the "**Confirm**" to delete it.

7.7 DHCP

DHCP features includes DHCP Snooping, DHCP Option82, Option82 format, DHCP Security functions.

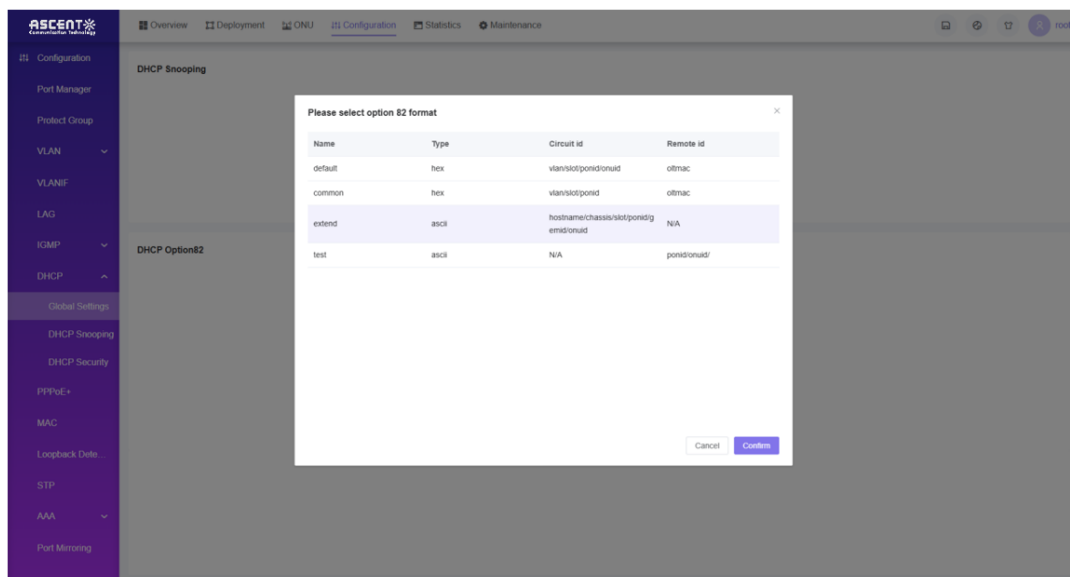
7.7.1 Global Settings

- Access path: **Configuration** ---->**DHCP** ---->**Global Settings**.



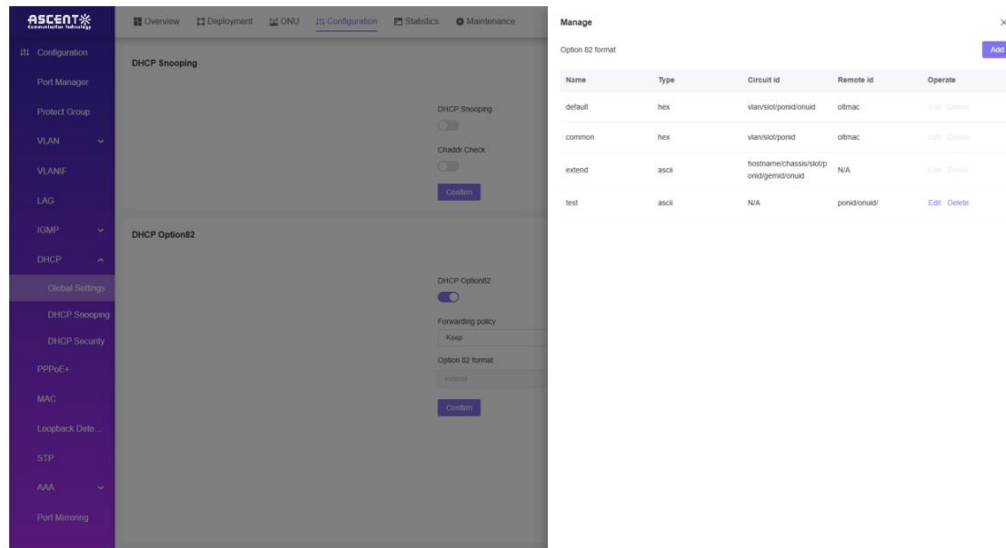
Option82 format selection

- Access path: **Configuration** ---->**DHCP** ---->**Global Settings** ---->Click the "**Select**" in the DHCP Option82 module, and the Option82 format selection pop-up window will appear.



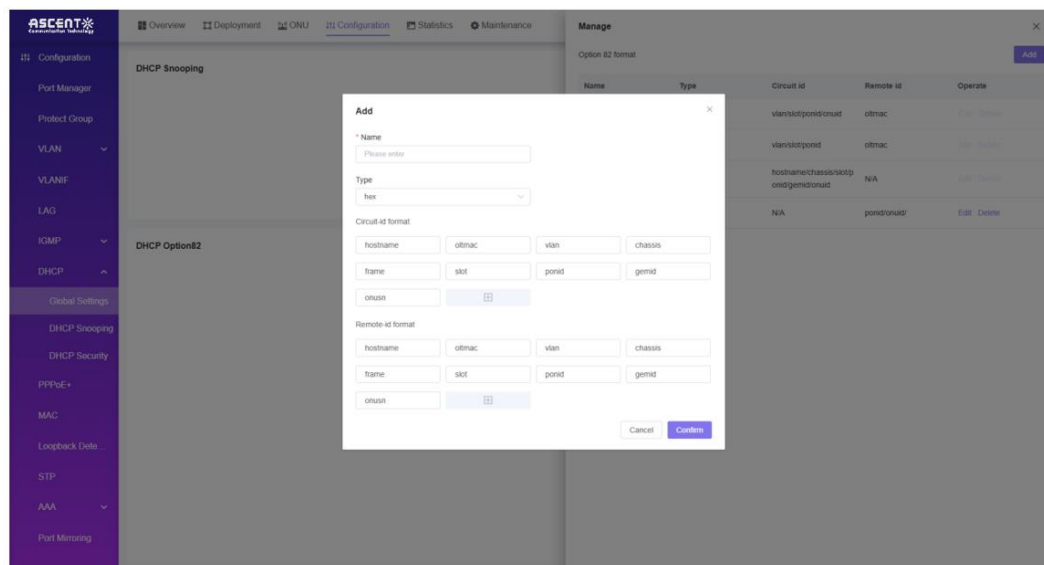
Option82 format management

- Access path: **Configuration** ---->**DHCP** ---->**Global Configuration** ---->Click the "**Manage**" in the DHCP Option82 module, and the Option82 format management drawer will pop up on the right side.



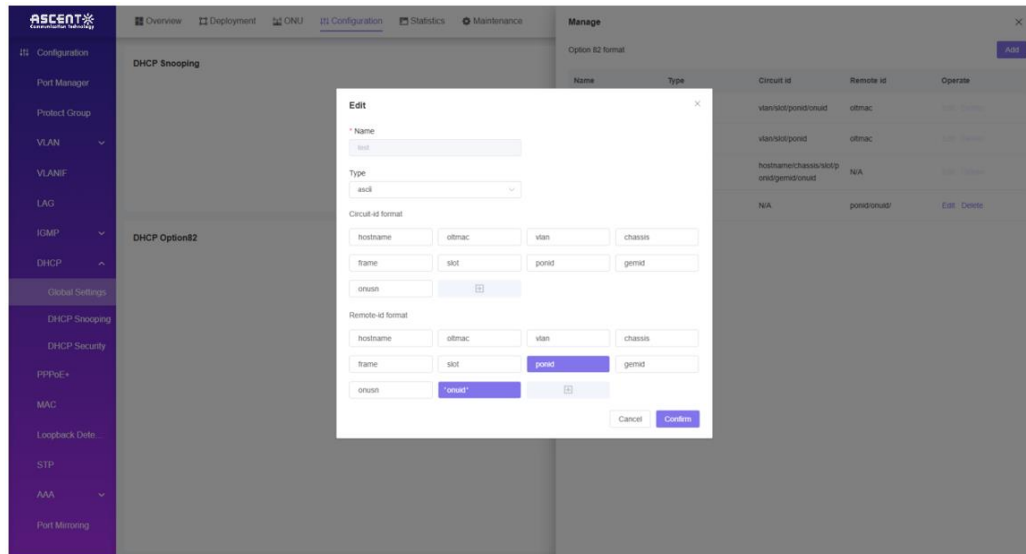
Add Option82 format

- **Configuration---->DHCP ---->Global Configuration----**Click the "**Manage**" in the DHCP Option82 module, and the Option82 format management drawer pops up on the right side---->Click the "**Add**" and the Option82 format [Add] popup window will appear.



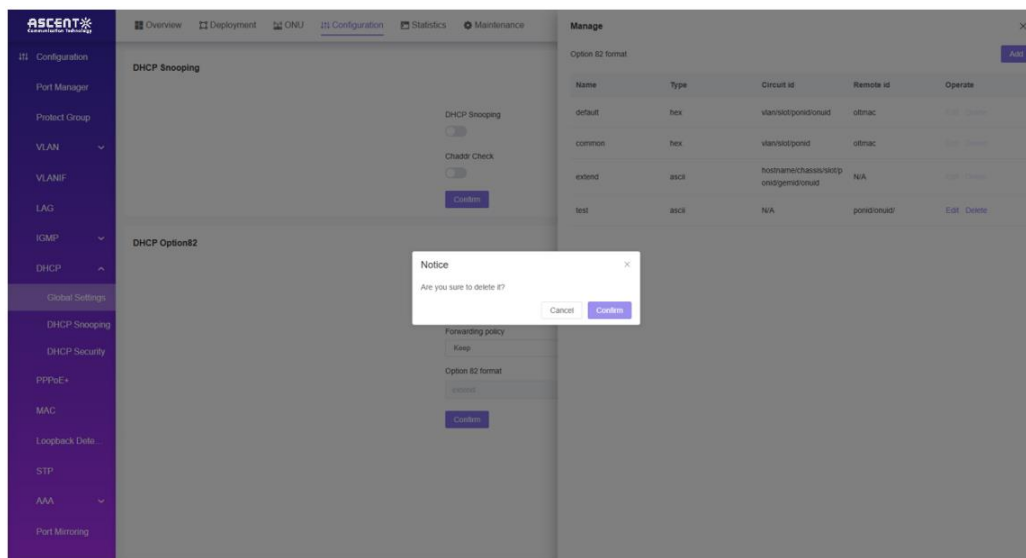
Edit Option82 format

- **Configuration---->DHCP ---->Global Configuration----**Click the "**Manage**" in the DHCP Option82 module, and the Option82 format management drawer pops up on the right side---->Click the "**Edit**" that need to be edited and the Option82 format [Edit] popup window will appear.



Delete Multicast VLAN Program

- Access path: **Configuration**---->**DHCP** ---->**Global Configuration**---->Click the "**Manage**" in the DHCP Option82 module, and the Option82 format management drawer pops up on the right side---->Click the "**Delete**" that need to be deleted and the Option82 format [Delete] popup window will appear.

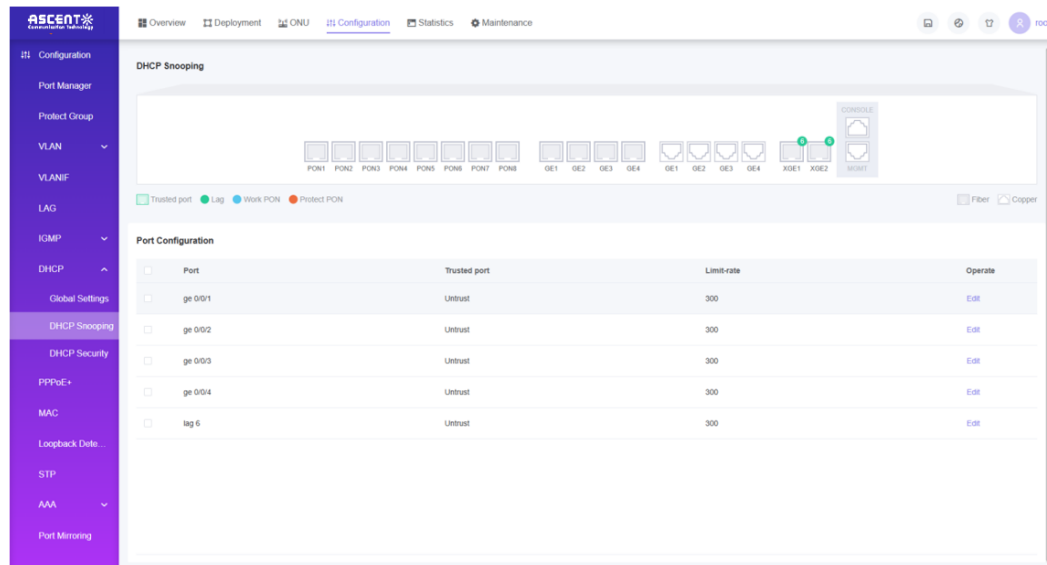


- Click the "**Confirm**" to delete it.

7.7.2 DHCP Snooping

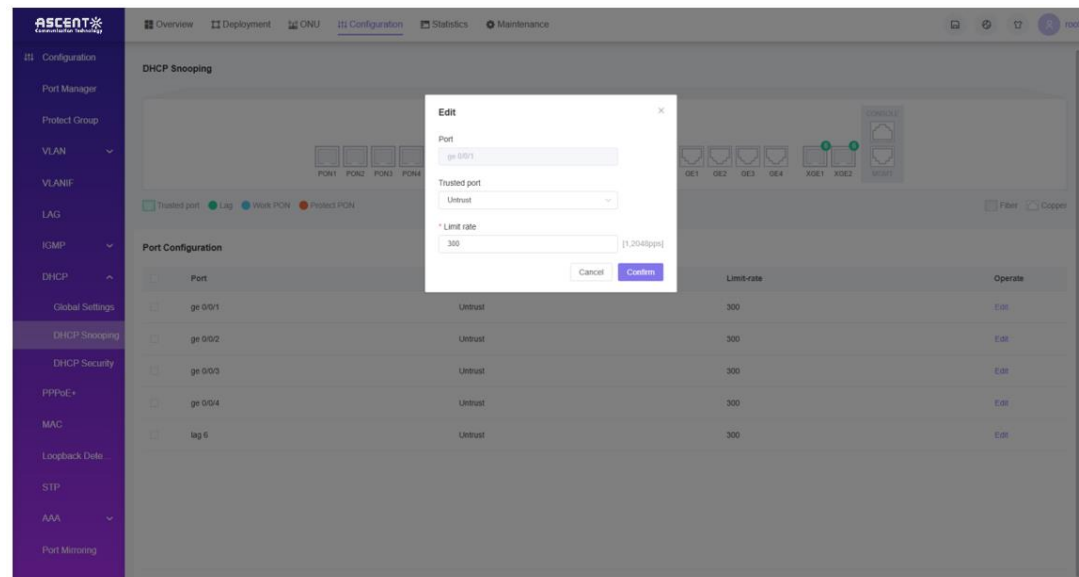
DHCP Snooping List

- Access path: **Configuration** ---->**DHCP** ---->**DHCP Snooping**.



Edit DHCP Snooping

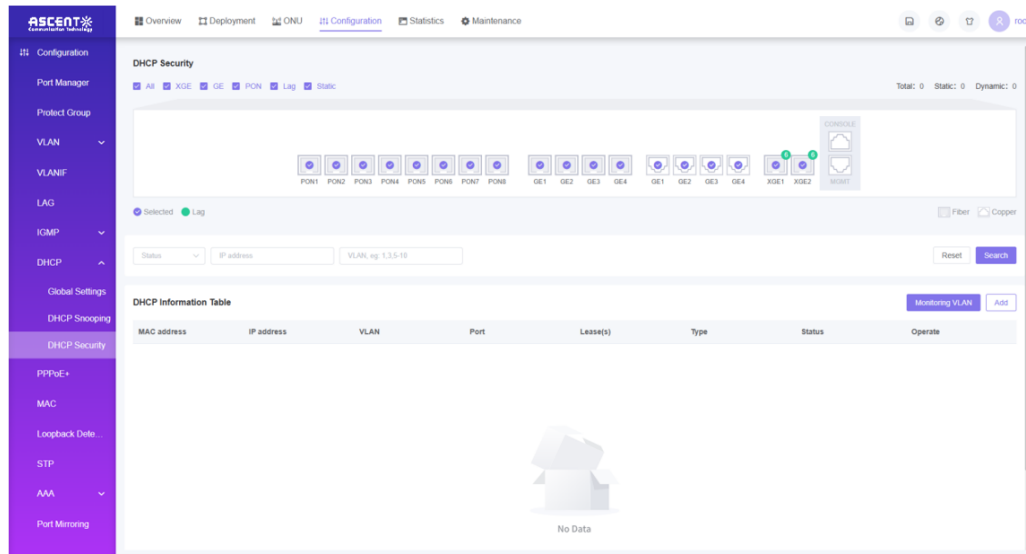
- Access path: **Configuration ---->DHCP ---->DHCP Snooping ---->**Select the DHCP Snooping list item needed to be operated ---->Click the "**Edit**", and the pop-up window of DHCP Snooping [Edit] will appear.



7.7.3 DHCP Security

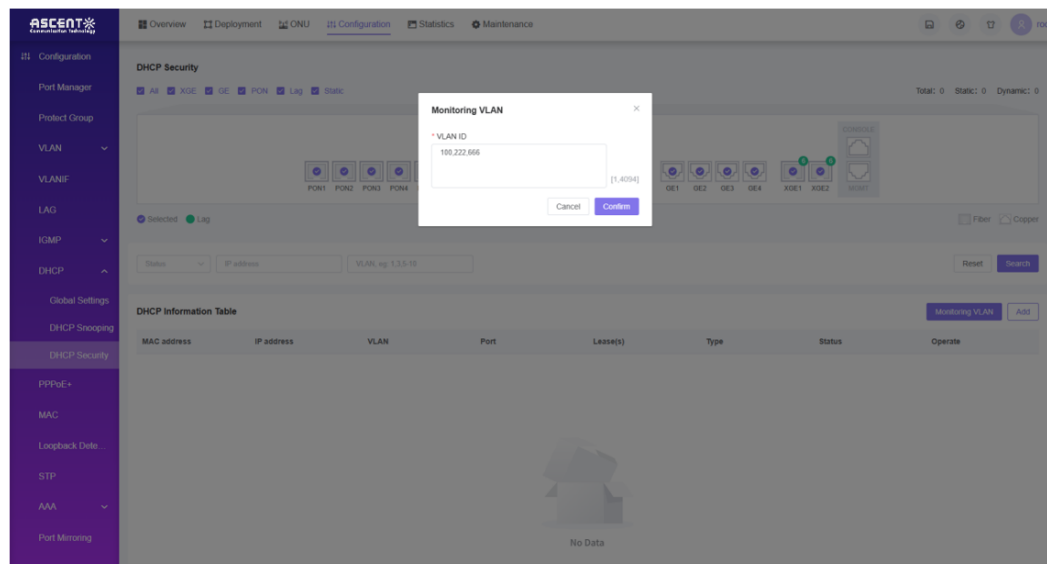
DHCP Security List

- Access path: **Configuration ---->DHCP ---->DHCP Security.**



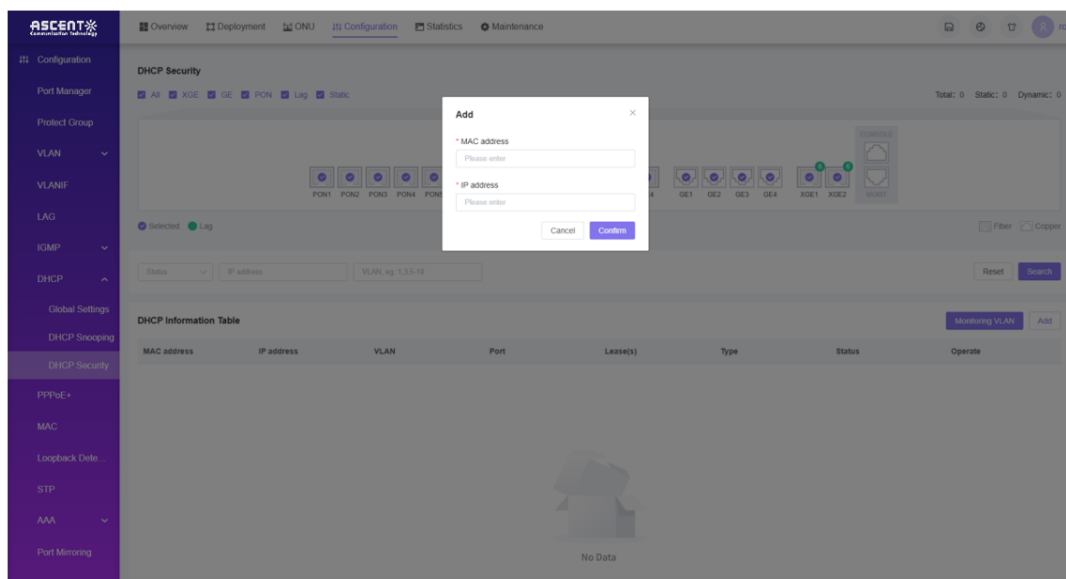
Monitoring VLAN

- Access path: **Configuration** ---->**DHCP** ---->**DHCP Security** ---->Click the "**Monitoring VLAN**", and the [Monitoring VLAN] pop-up window will appear.



Add Static DHCP Security

- Access path: **Configuration** ---->**DHCP** ---->**DHCP Security** ---->Click the "**Add**", the static DHCP security [Add] pop-up window will appear.



7.8 PPPoE+

PPPoE+ is a technology that extends the PPPoE protocol, known as PPPoE Intermediate Agent. It is similar to DHCP Option82, but its functionality is more in-depth. The core of this technology lies in enhancing the original PPPoE packets, especially during the search phase, where AN (which may refer to an access gateway or network device) adds specific port information to the received packets. In this way, PPPoE+ can provide more accurate network management and positioning, which is of great significance for improving network efficiency and service quality.

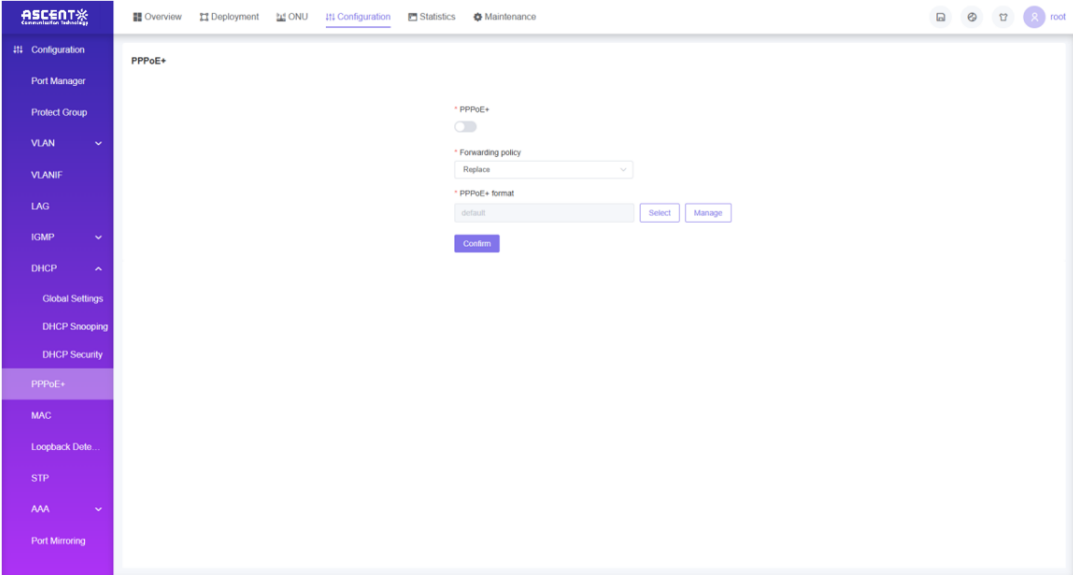
Like DHCP Option82, PPPoE+ was introduced to support more complex network environment requirements. It embeds additional contextual information in PPP sessions, such as port information of access devices, enabling network administrators to track and manage user connections. This is a powerful tool for areas such as network troubleshooting, billing, and security auditing. In this way, network administrators can better understand the detailed situation of user connections, thereby optimizing network configuration and improving user experience.

Overall, PPPoE+ is an important enhanced version of the PPPoE protocol, which enhances network management functionality by extending protocol packets, providing more data support for network service providers and administrators, and helping to build more efficient, flexible, and secure network environments.

PPPoE+ supports set PPPoE+ switching, Forwarding policy, PPPoE+ format.

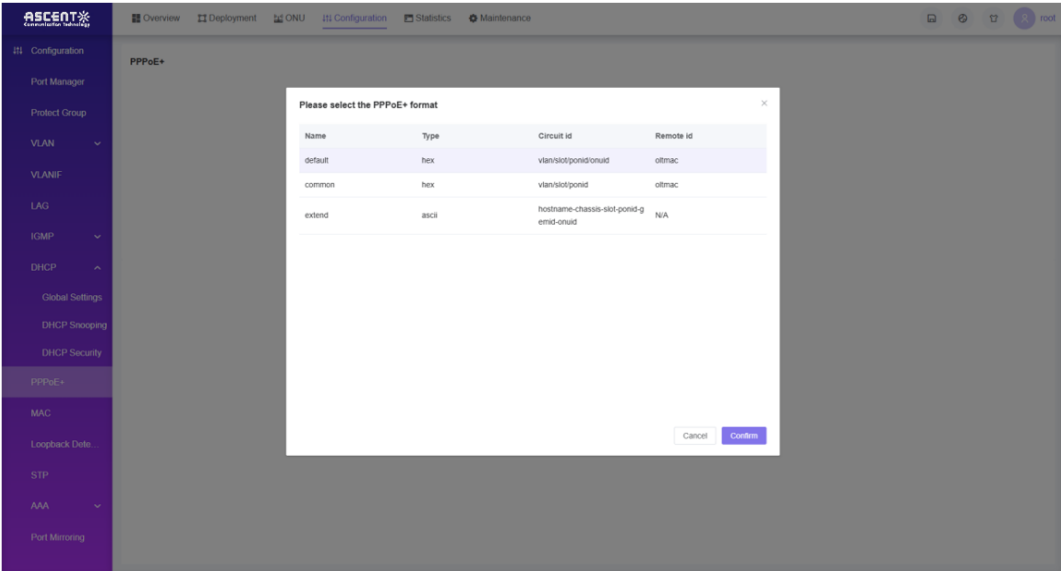
PPPoE+

- Access path: **Configuration** ----> **PPPoE+**.



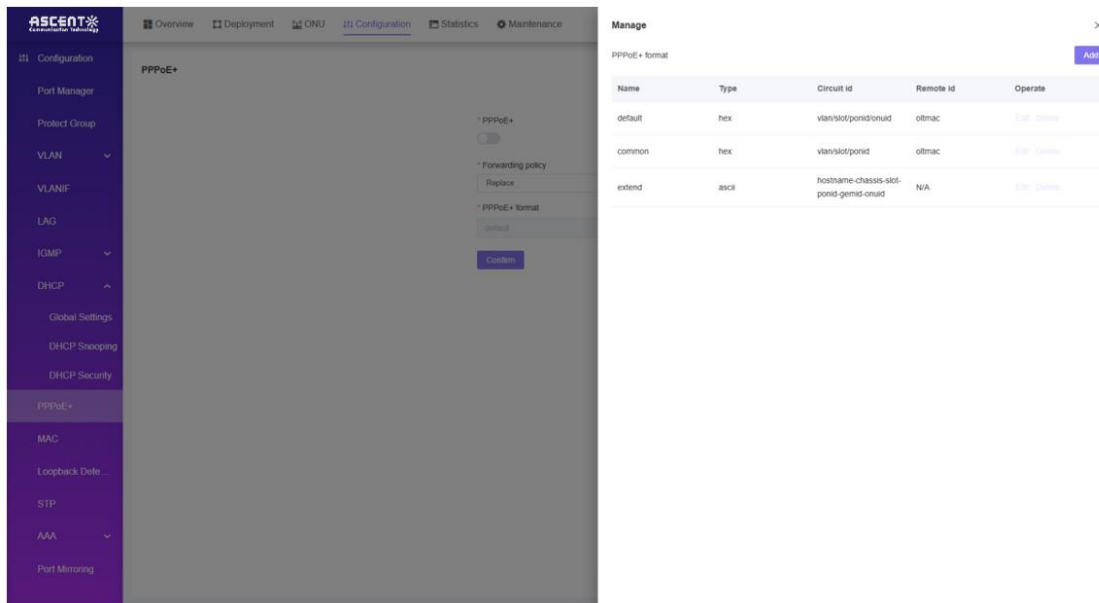
PPPoE+ Format Selection

- Access path: **Configuration** ---->**PPPoE+** ---->Click the "**Select**" and the PPPoE+ format selection pop-up window will appear.



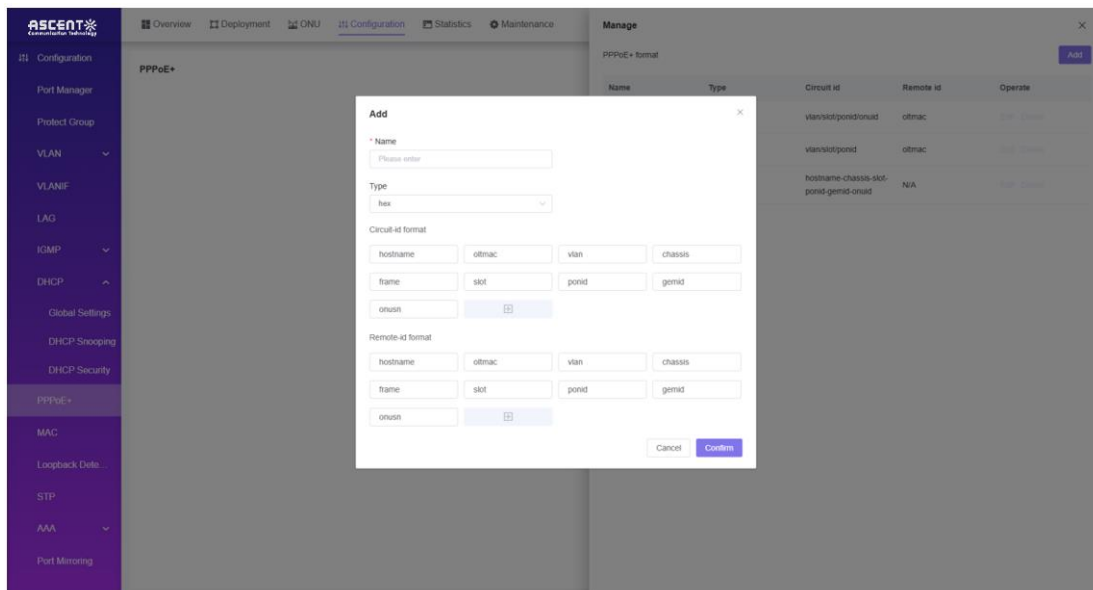
PPPoE+ Format Management

- Access path: **Configuration** ---->**PPPoE+** ---->Click the "**Manage**" and the PPPoE+ format management drawer will pop up on the right side.



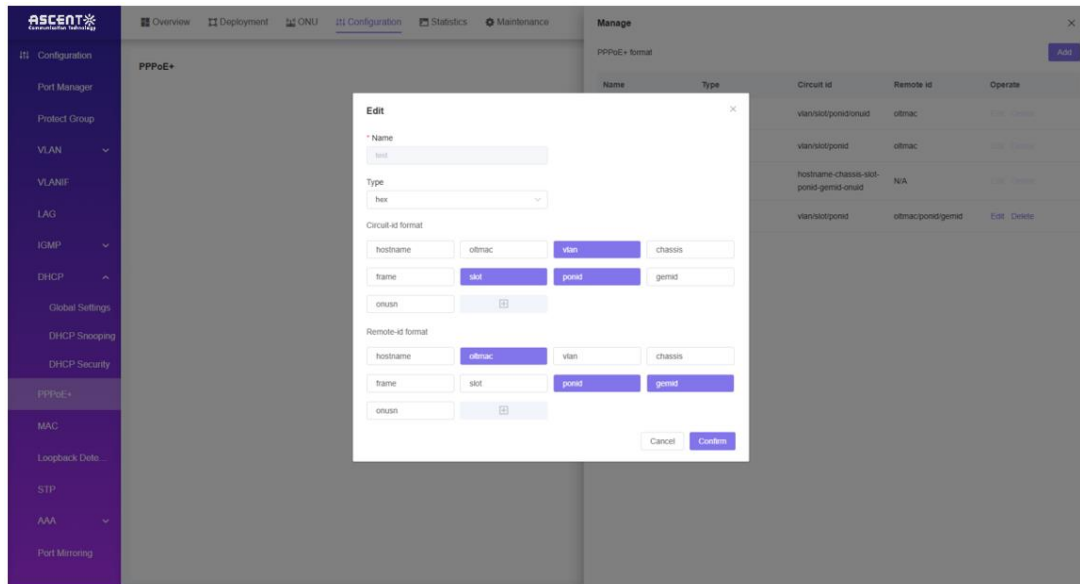
Add PPPoE+ format

- **Configuration**---->**PPPoE+** ----> Click the "**Manage**" and the PPPoE+ format management drawer pops up on the right side----> Click the "**Add**" and the PPPoE+ format [Add] pop-up window will appear.



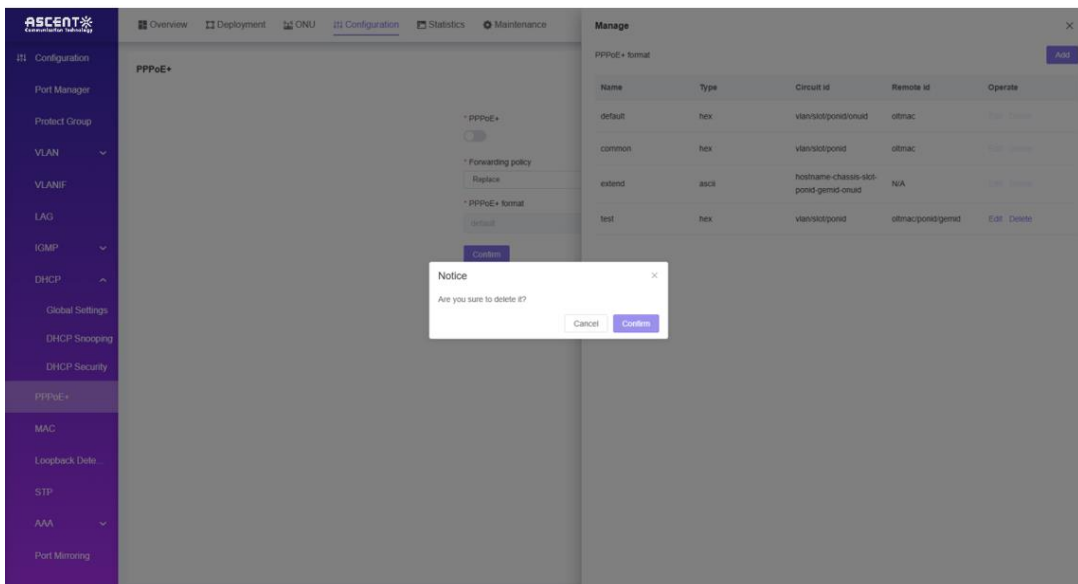
Edit PPPoE+ format

- **Configuration**---->**PPPoE+** ----> Click the "**Manage**" and the PPPoE+ format management drawer pops up on the right side----> Click the "**Edit**" that need to be edited and the PPPoE+ format [Edit] popup window will appear.



Delete PPPoE+ format

- Access path: **Configuration**---->**PPPoE+** ----> Click the "**Manage**" and the PPPoE+ format management drawer pops up on the right side----> Click the "**Delete**" that need to be edited and the PPPoE+ format [Delete] popup window will appear.



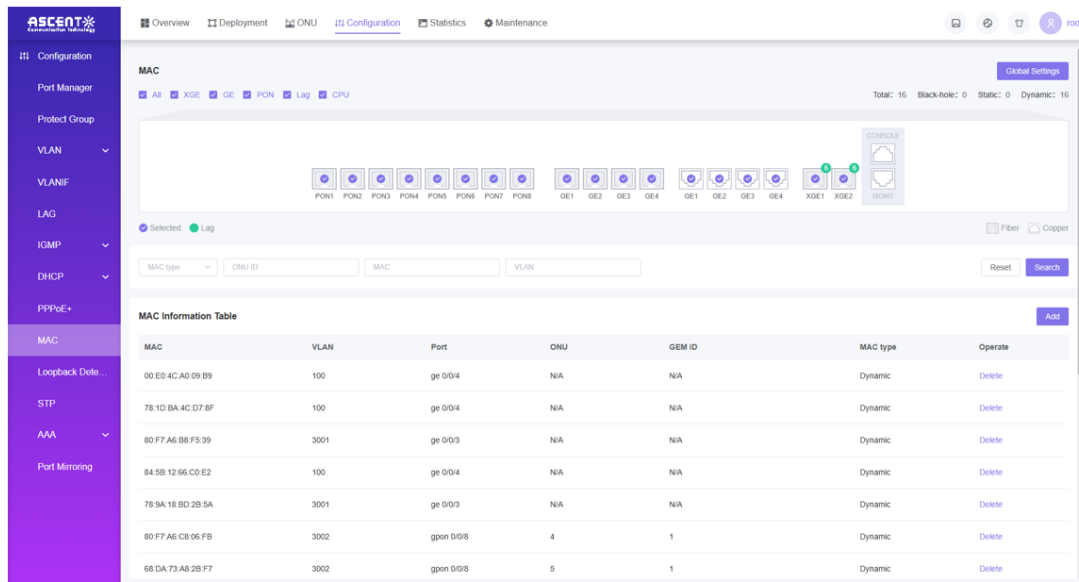
- Click the "**Confirm**" to delete it.

7.9 MAC

The OLT Web Management System supports configuring the OLT's MAC address aging time and MAC address cleanup, as well as viewing the MAC address information learned by the OLT.

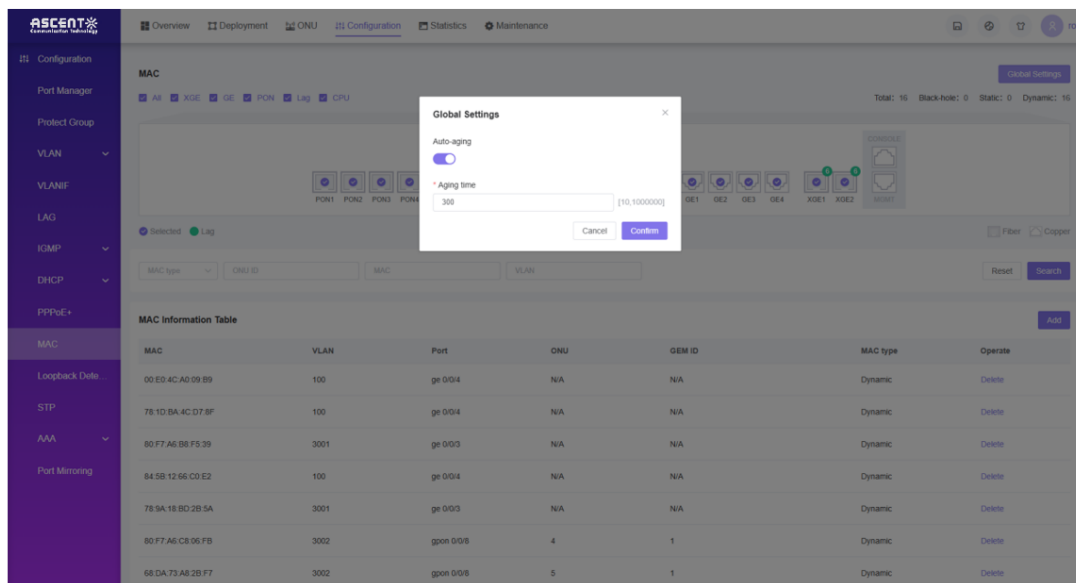
MAC List

- Access path: **Configuration** ---->**MAC**.



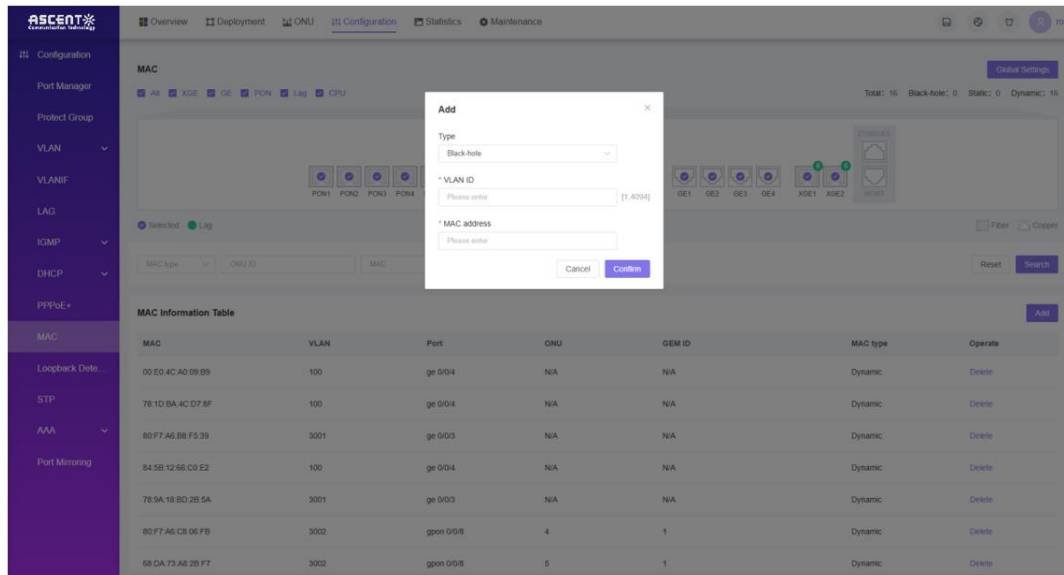
Global Setting -- MAC Address Aging

- Access path: **Configuration** ---->**MAC** ---->Click the "**Global Setting**", the MAC address aging pop-up window will appear.



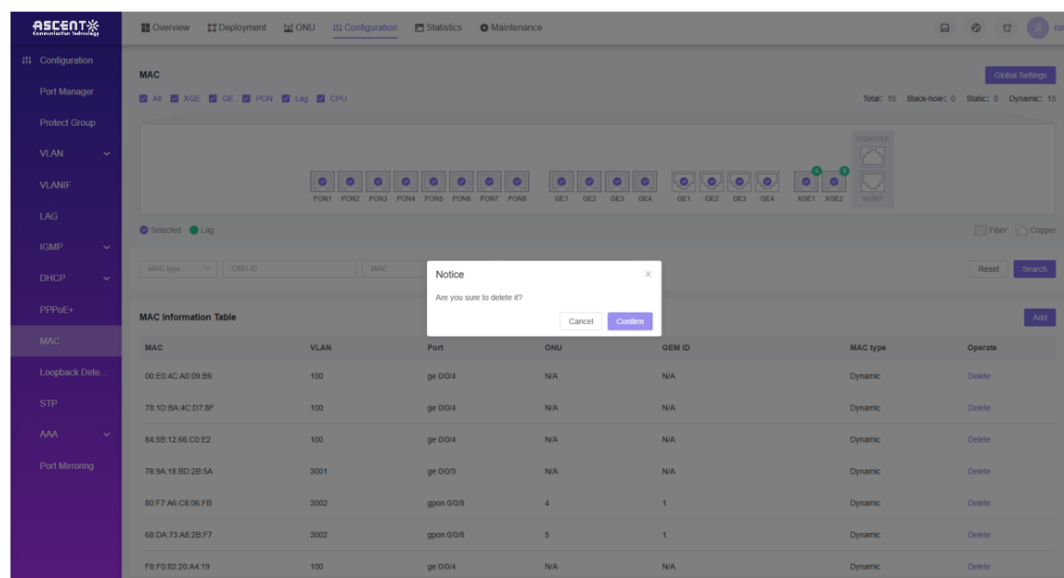
Add Static/Black-Hole MAC Address

- Access path: **Configuration** ---->**MAC** ---->Click the "**Add**", the static/black-hole MAC address adding pop-up window will appear.



Delete MAC Address

- Access path: **Configuration** ---->**MAC** ---->Click the "**Delete**" that need to be deleted and the MAC Address [Delete] popup window will appear.



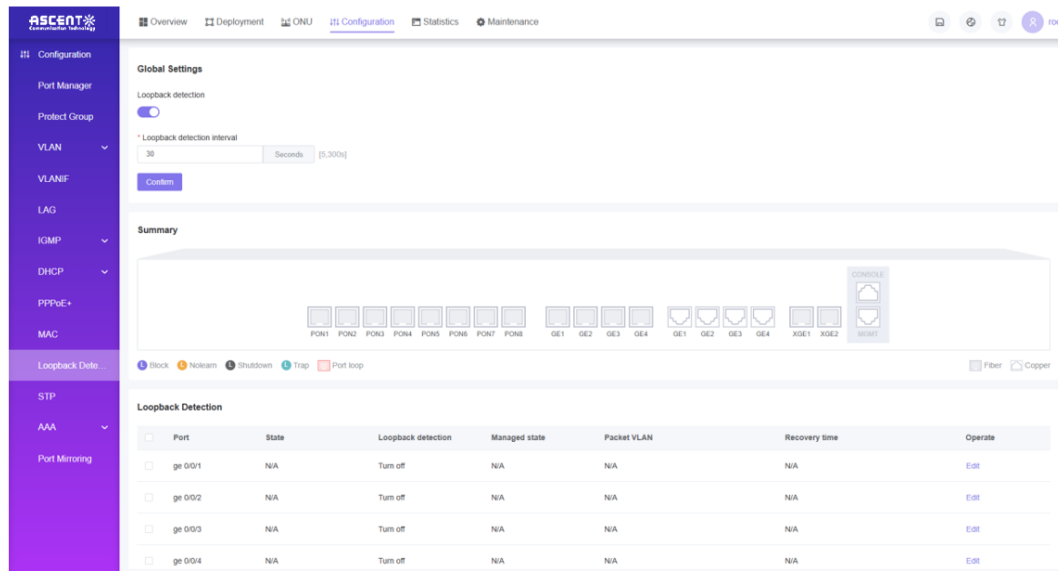
- Click the "**Confirm**" to delete it.

7.10 Loopback Detection

The existence of loops in a network can lead to devices repeatedly sending broadcast, multicast, and unknown unicast messages, causing wastage of network resources and even network paralysis. To promptly identify loops in a Layer 2 network and prevent severe network disruption, you can configure the Loopback Detection (LBDT) feature. The LBDT periodically sends loopback detection packets to check for the presence of loops in the network. If a loop is detected in a specific interface's network, the interface can be configured to be closed or blocked to eliminate the loop. If the loop in the interface's network disappears subsequently, the LBDT can automatically restore the interface to normal status.

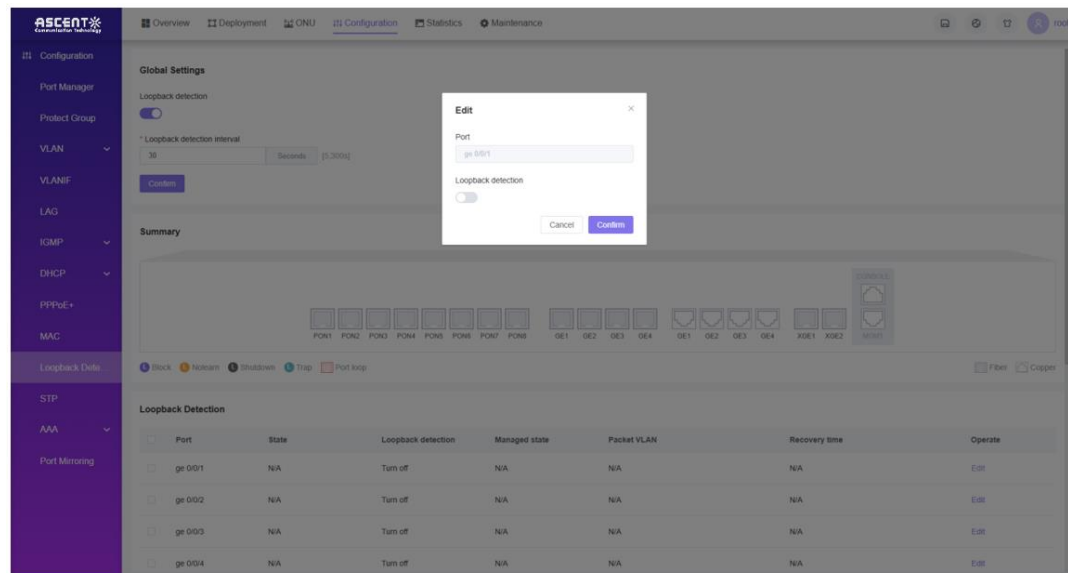
Loopback Detection List

- Access path: **Configuration ---->Loopback Detection.**



Edit Loopback Detection Configuration

- Access path: **Configuration ---->Loopback Detection ---->Select the port needed to be edited ---->Click the "Edit",** and a pop-up window will appear for editing the Loopback Detection configuration of the port.



7.11 STP

Spanning Tree Protocol (STP) is a network protocol used to prevent loops in local area networks and determine a logical network topology, which is an acyclic tree network topology. When certain parts of the network fail, STP can quickly recalculate the network topology and restore network connectivity.

Global Setting

The OLT Web Management System provides users to set STP switching, STP mode, BPDU protection, etc.

- Access path: **Configuration** ---->**STP** ---->Select the "**Global Setting**".

The screenshot shows the OLT Web Management System interface. The left sidebar contains a menu with options like Configuration, Port Manager, Protect Group, VLAN, VLANIF, LAG, IGMP, DHCP, PPPoE, MAC, Loopback Data, STP, AAA, and Port Mirroring. The main content area is titled 'Global Settings' and includes a 'STP' toggle switch, 'STP Configuration' section with fields for STP mode (MSTP), Forward delay (15), Hello time (2), Max age (20), Max hops (20), and Transmit limit (6). There is also an 'STP Protection Configuration' section at the bottom. A 'Confirm' button is located at the bottom right of the configuration area.

MSTP Domain

The OLT Web Management System provides MSTP Domain config, such as Region name, Revision level, MSTP Instance, etc.

- Access Path: **Configuration** ---->**STP** ---->Select the "**MSTP Domain**".

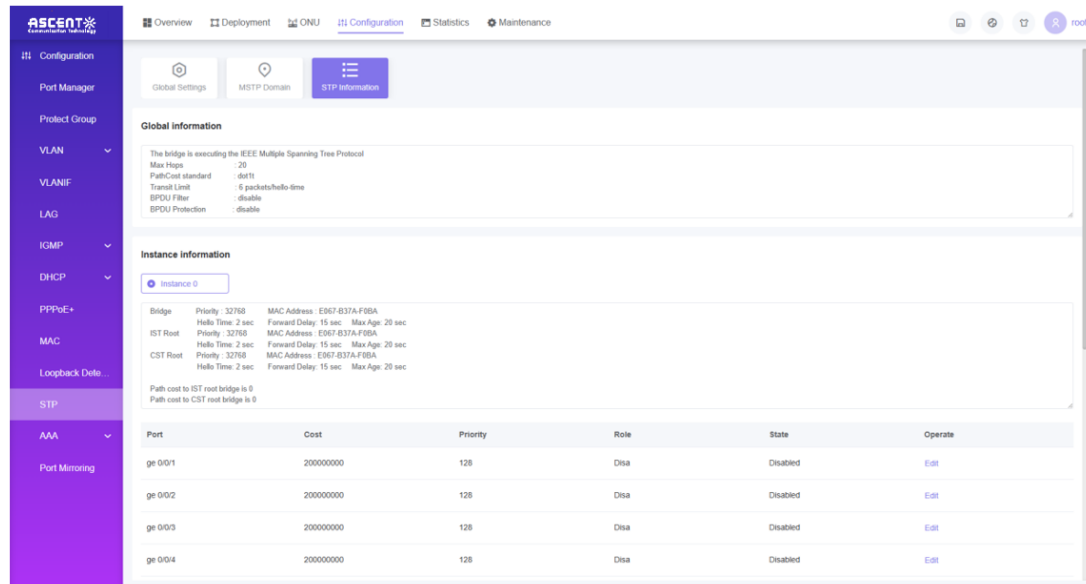
The screenshot shows the OLT Web Management System interface with the 'MSTP Domain' configuration page selected. The left sidebar is the same as the previous screenshot. The main content area has tabs for 'Global Settings', 'MSTP Domain', and 'STP Information'. The 'MSTP Domain' tab is active, showing fields for 'Region name' (4096b37af0ba) and 'Revision level' (8). Below these is an 'Add' button. The 'MSTP Instance' section shows a table with one instance (0) and its configuration details.

Instance	VLAN mapping	Priority	Operate
0	1-4094	32768	Enable

STP Information

The OLT Web Management System provides STP information, such as Global information, Instance information, port information, and the related parameters config etc.

- Access Path: **Configuration** ---->**STP** ---->Select the "**STP Information**".



7.12 AAA

AAA(Authentication, Authorization, Accounting);

Authentication: Verify the user's identity and available network services;

Authorization: Open network services to users based on authentication results;

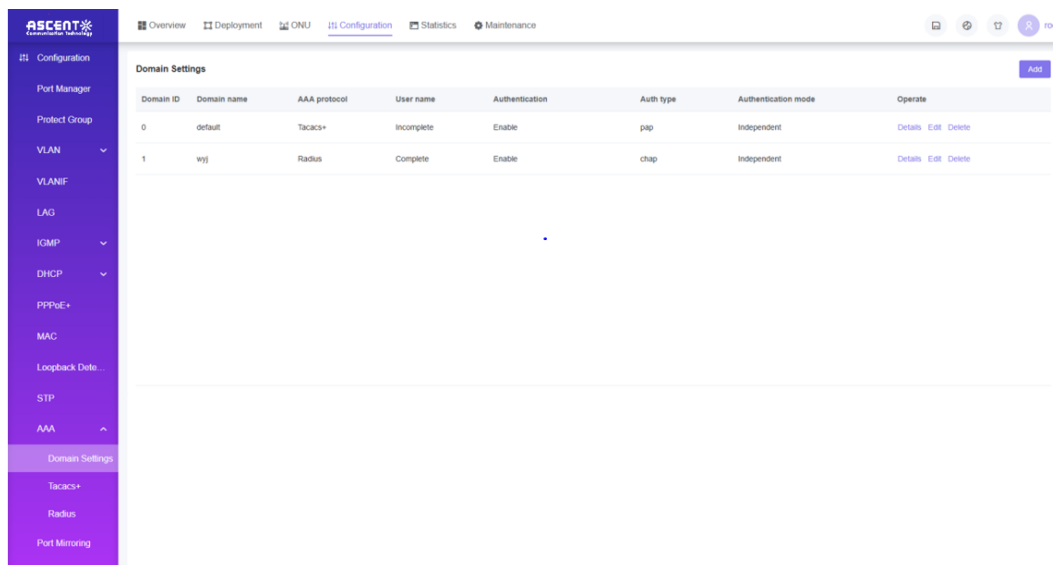
Accounting: Record the usage of various network services by users and provide it to the billing system.

The OLT Web Management System provides Domain Setting, Tacacs+, Radius features.

7.12.1 Global Settings

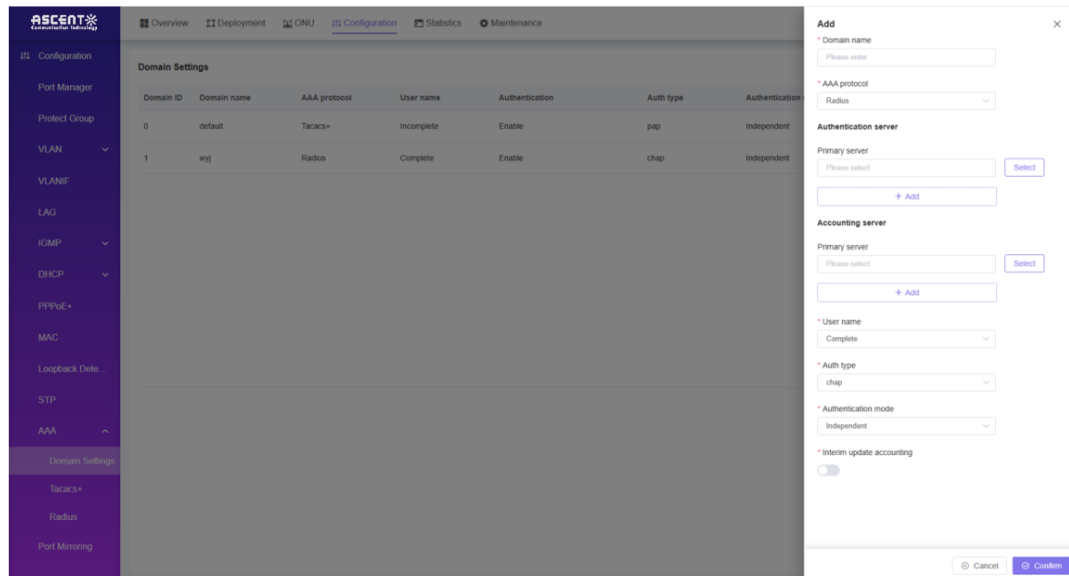
Domain Setting List

- Access path: **Configuration ---->AAA ---->Domain Settings.**



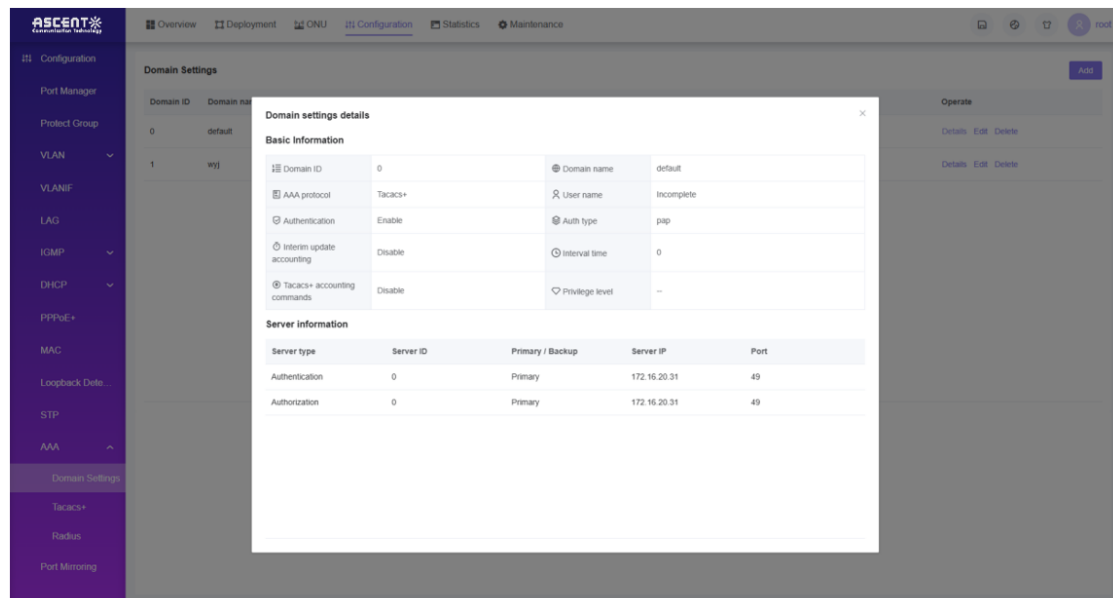
Add Domain Settings

- Access path: **Configuration** ---->**AAA** ---->**Domain Settings** ---->Click the "**Add**" and the Adding selection pop-up window will appear.



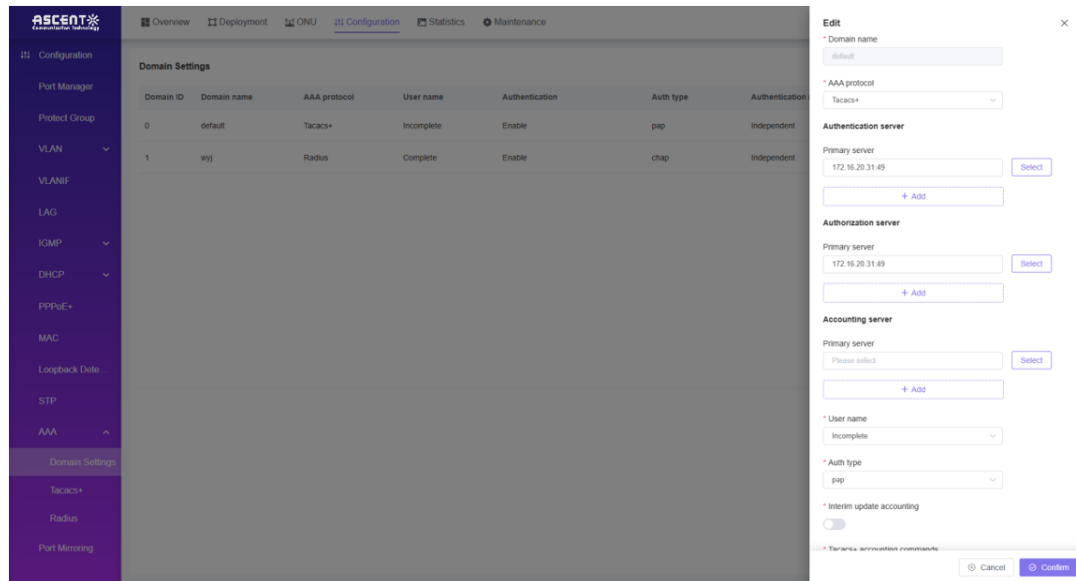
Details of Domain Setting

- Access path: **Configuration** ---->**AAA** ---->**Domain Settings** ---->Click the "**Details**" that need to check the details information and a domain setting details pop-up window will appear.



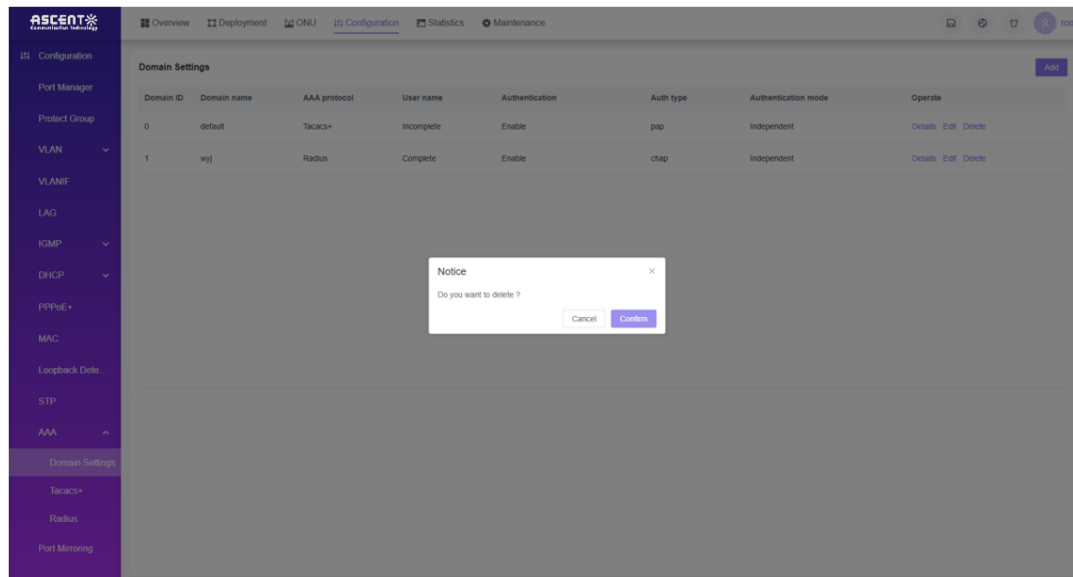
Edit Domain Settings

- Access path: **Configuration** ----> **AAA** ----> **Domain Setting** ----> Click the "**Edit**" that the item need to check and the Editing pop-up window will appear.



Delete Domain Settings

- Access path: **Configuration** ----> **AAA** ----> **Domain Setting** ----> Click the "**Delete**" that the item need to delete and the deleting pop-up window will appear.

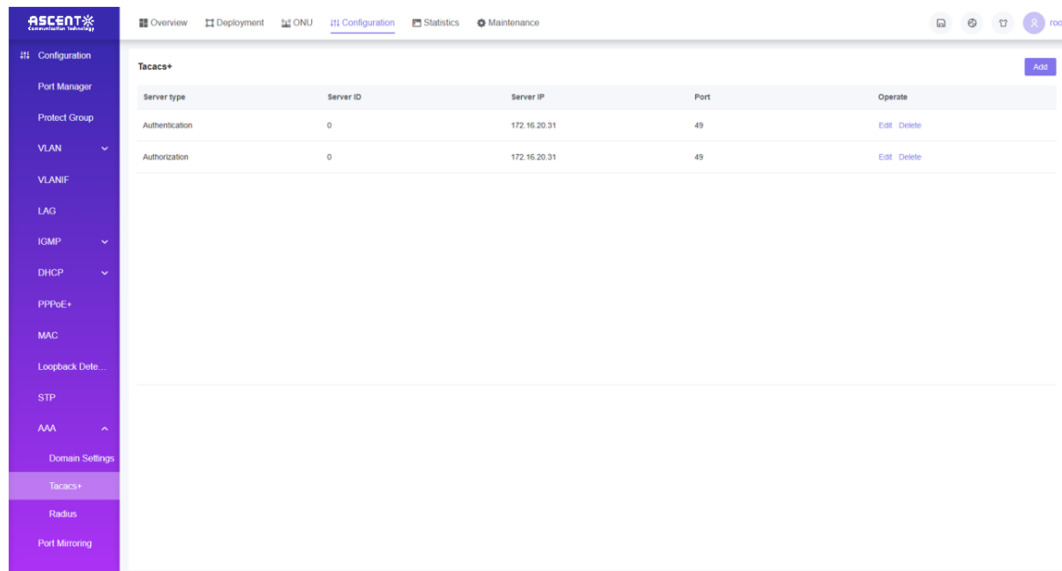


- Click the "**Confirm**" to delete it.

7.12.2 Tacacs+

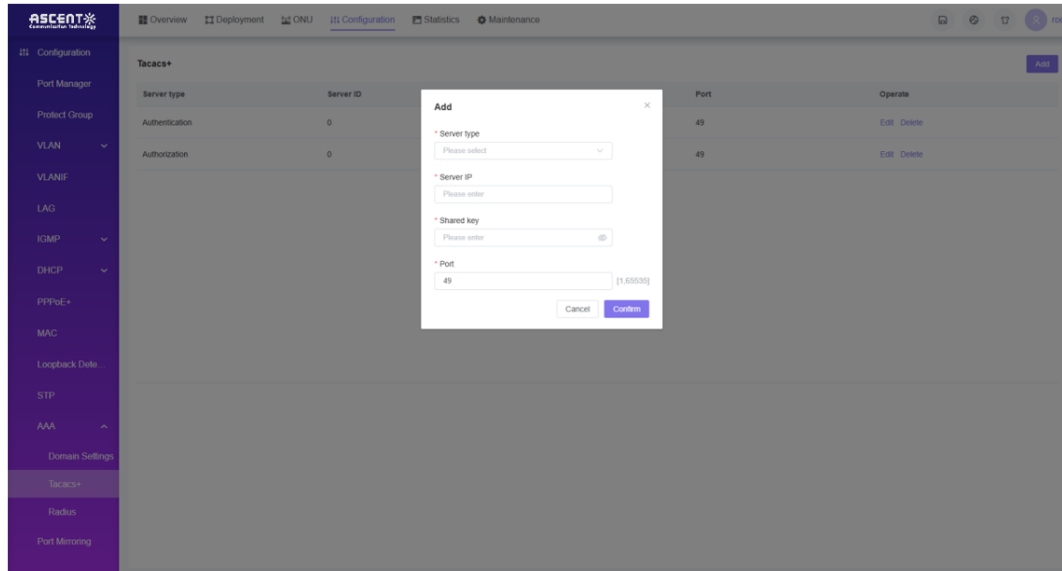
Tacacs+ List

- Access path: **Configuration** ---->**AAA** ---->**Tacacs+**.



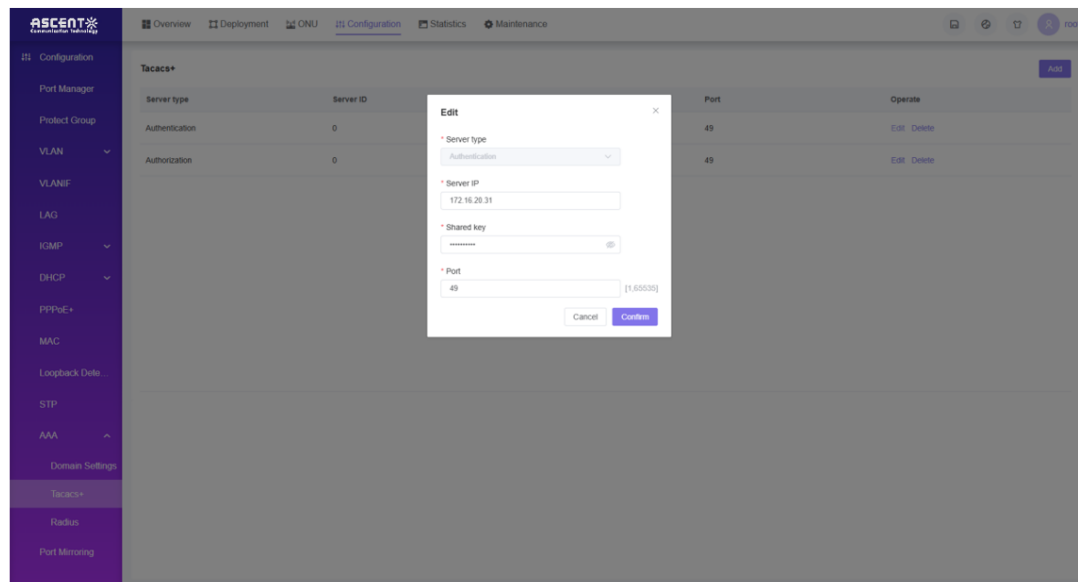
Add Tacacs+

- Access path: **Configuration** ---->**AAA** ---->**Tacacs+** ---->Click the "**Add**" and the Adding pop-up window will appear.



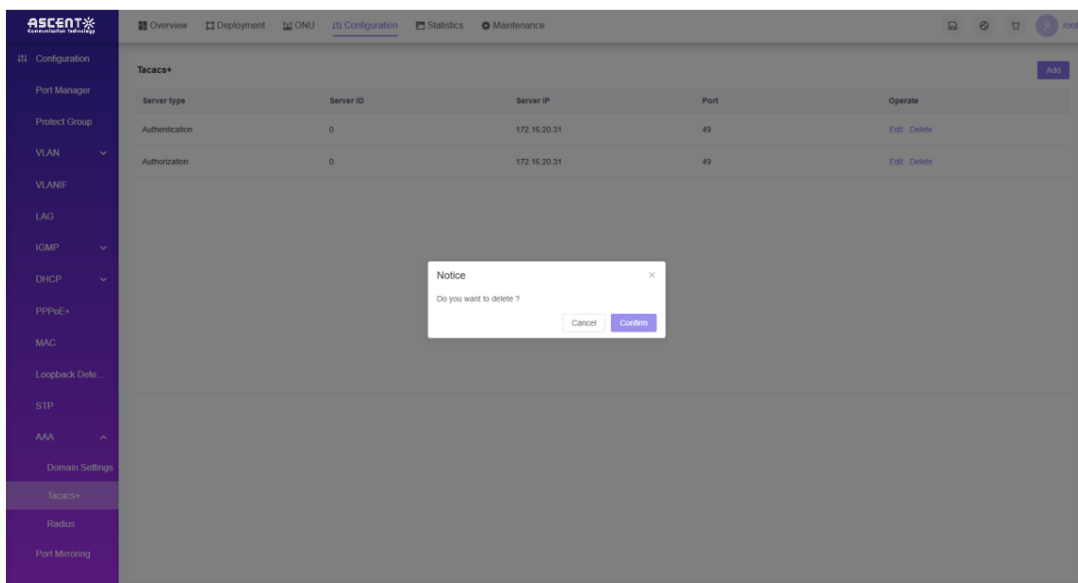
Edit Tacacs+

- Access path: **Configuration** ---->**AAA** ---->**Tacacs+** ---->Click the "**Edit**" that the item need to check and the Editing pop-up window will appear.



Delete Tacacs+

- Access path: **Configuration** ---->**AAA** ---->**Tacacs+** ---->Click the "**Delete**" that the item need to delete and the deleting pop-up window will appear.

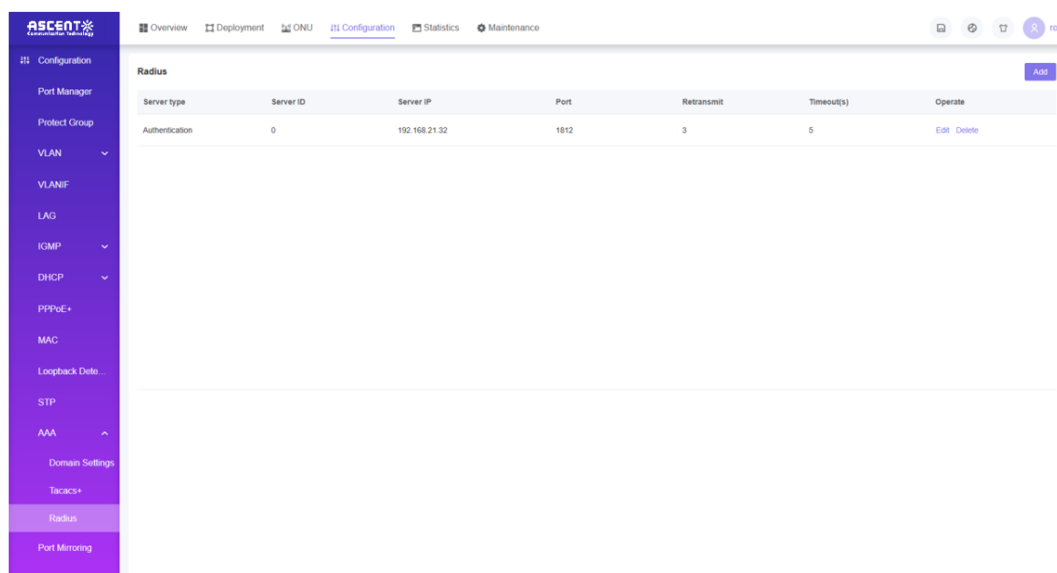


- Click the "**Confirm**" to delete it.

7.12.3 Radius

Radius List

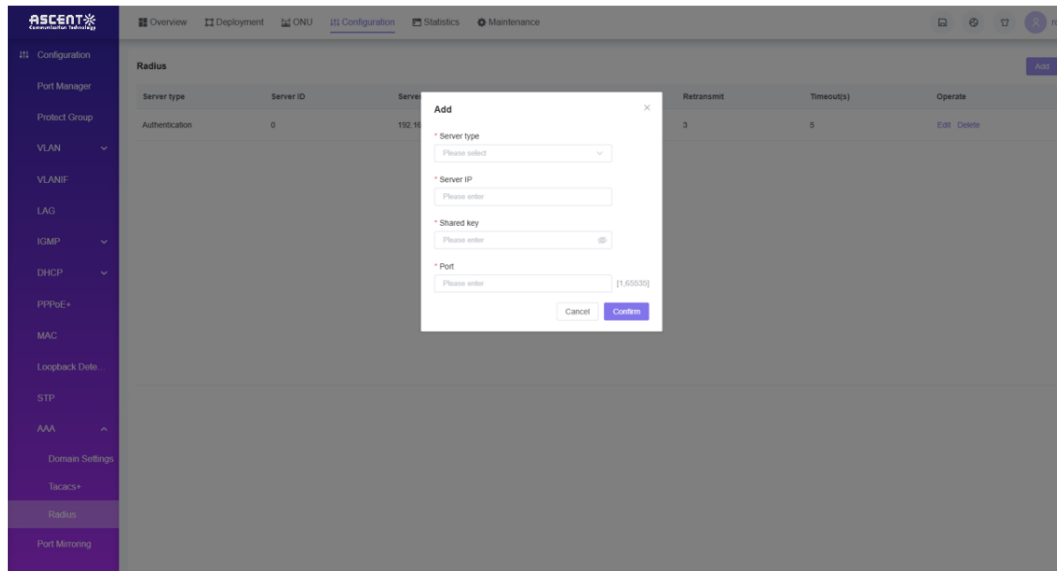
- Access path: **Configuration ---->AAA ---->Radius.**



Server type	Server ID	Server IP	Port	Retransmit	Timeout(s)	Operate
Authentication	0	192.168.21.32	1812	3	5	Edit Delete

Add Radius

- Access path: **Configuration ---->AAA ---->Radius ---->Click the "Add" and the Adding pop-up window will appear.**



Add

* Server type
Please select

* Server IP
Please enter

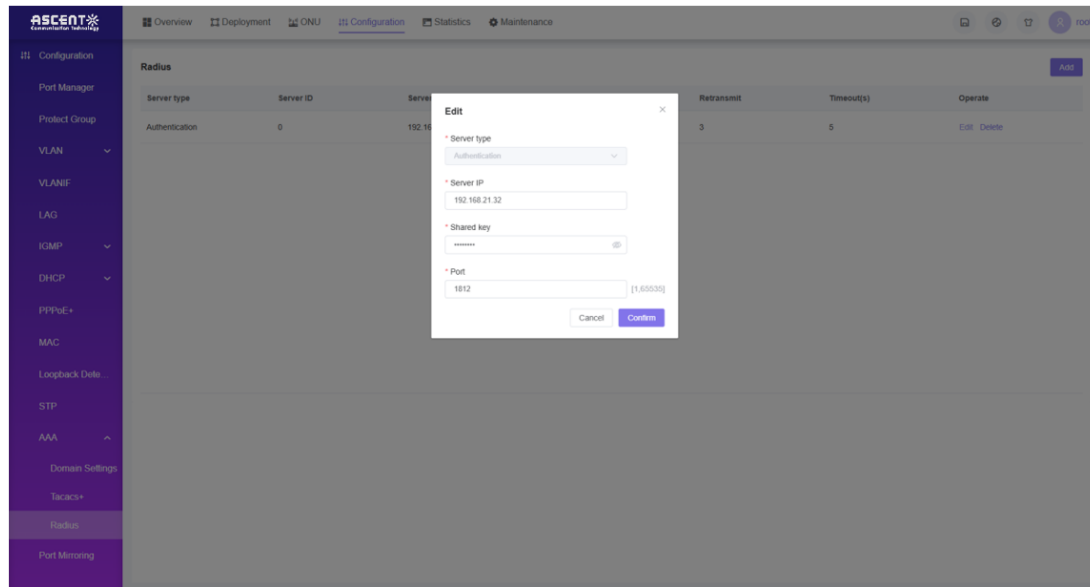
* Shared key
Please enter

* Port
Please enter (1812)

[Cancel](#) [Confirm](#)

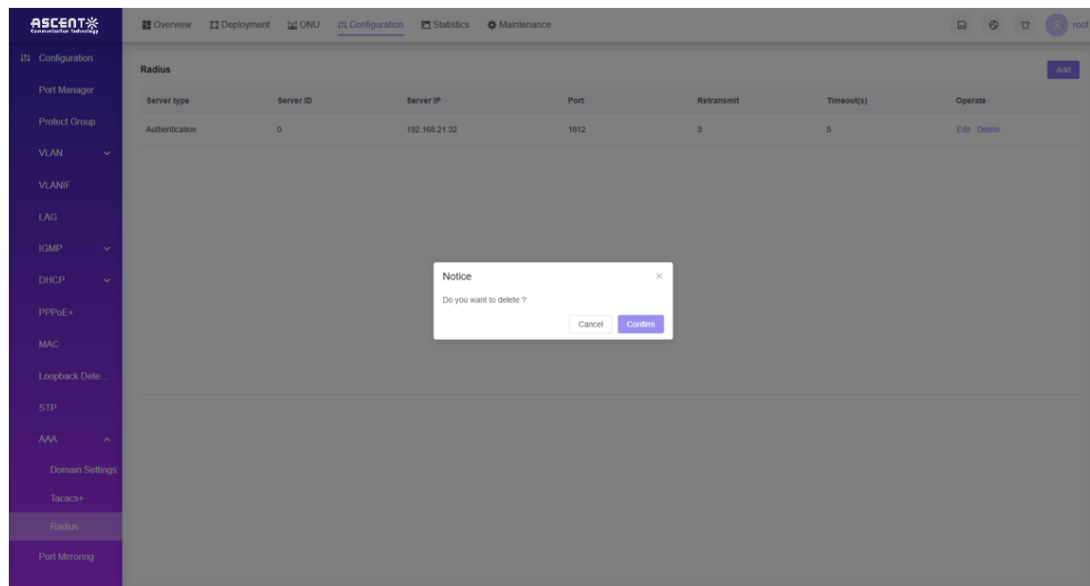
Edit Radius

- Access path: **Configuration** ---->**AAA** ---->**Radius** ---->Click the "**Edit**" that the item need to check and the Editing pop-up window will appear.



Delete Tacacs+

- Access path: **Configuration** ---->**AAA** ---->**Radius** ---->Click the "**Delete**" that the item need to delete and the deleting pop-up window will appear.



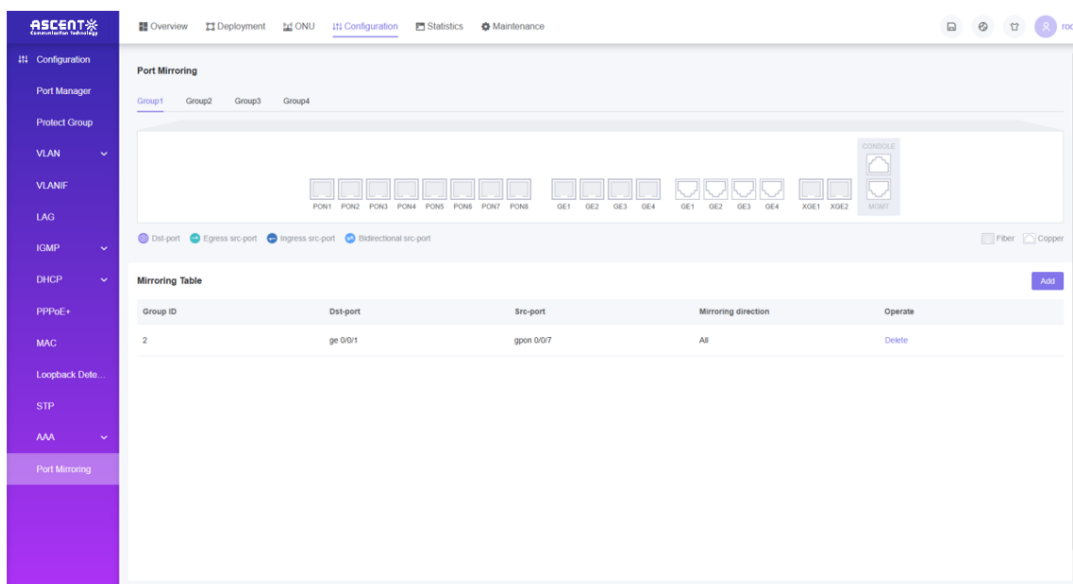
- Click the "**Confirm**" to delete it.

7.13 Port Mirroring

The Port Mirroring feature involves copying the packets from a designated port (source port) to other ports (destination ports). This allows users to monitor the copied packets on the destination ports for network monitoring and troubleshooting purposes

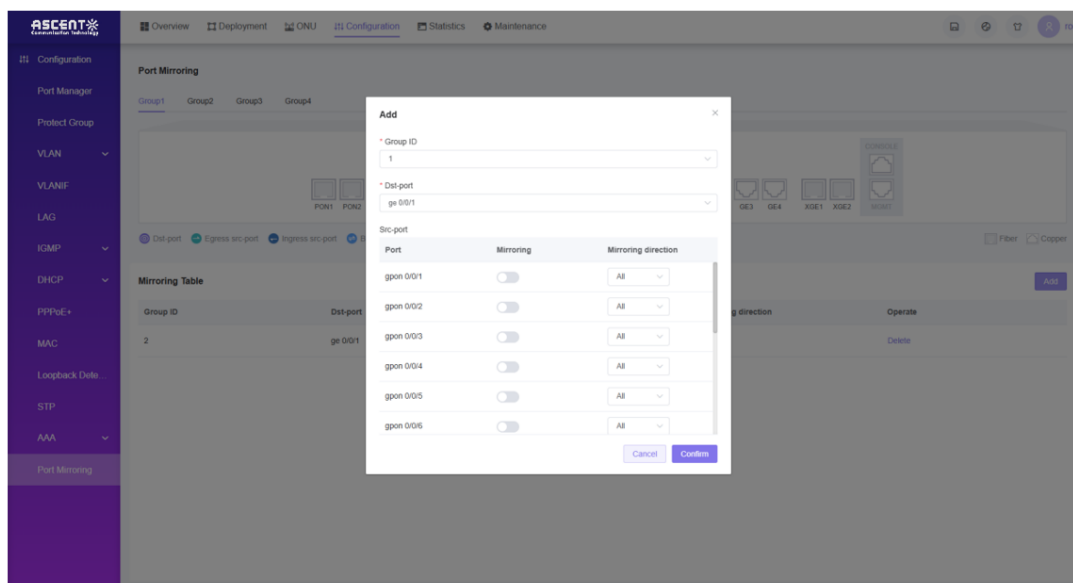
Port Mirroring List

- Access path: **Configuration ---->Port Mirroring.**



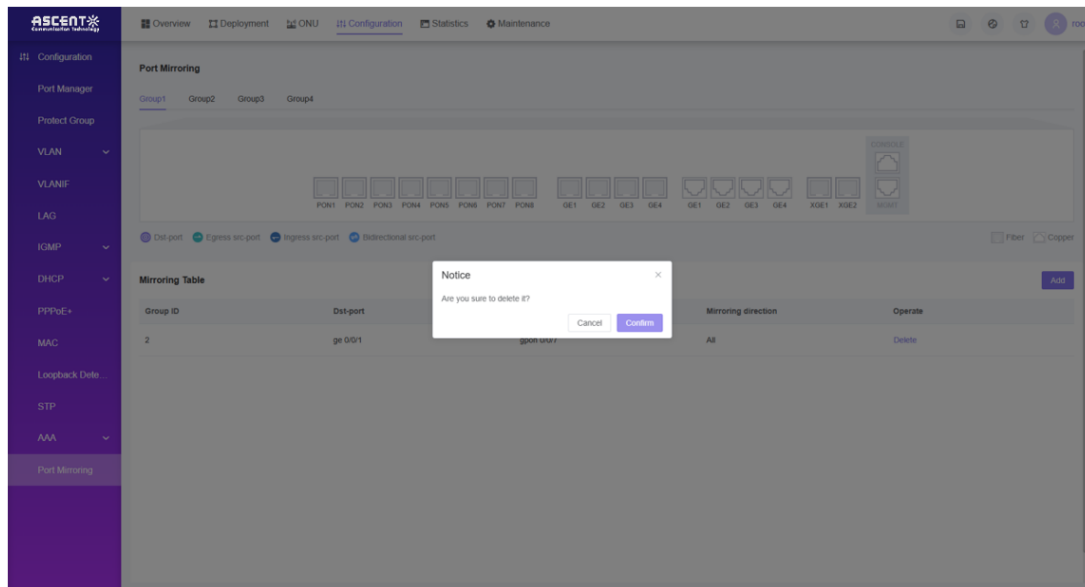
Add Port Mirroring

- Access path: **Configuration ---->Port Mirroring ---->Click the "Add", and the Port Mirroring adding pop-up window will appear.**



Delete Port Mirroring

- Access path: **Configuration** ---->**Port Mirroring** ---->Click the "**Delete**" that the item need to delete and the deleting pop-up window will appear.



- Click the "**Confirm**" to delete it.

8 Statistics

This chapter contains the following topics:

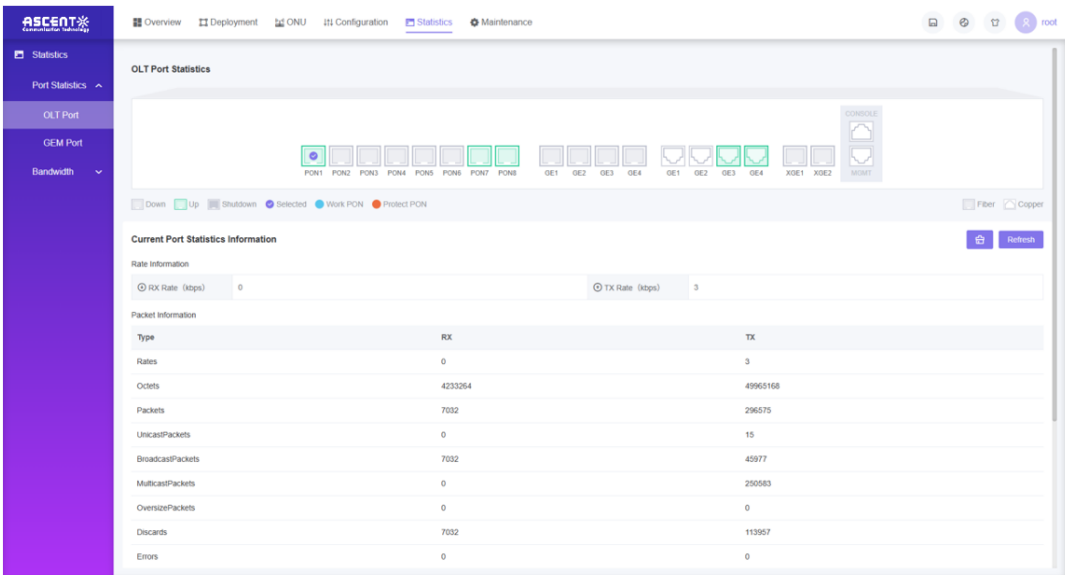
- Port Statistics
- Bandwidth

8.1 Port Statistics

Port statistics display port rate information and packets statistics of port received and transmitted. It is helpful for debugging and maintenance.

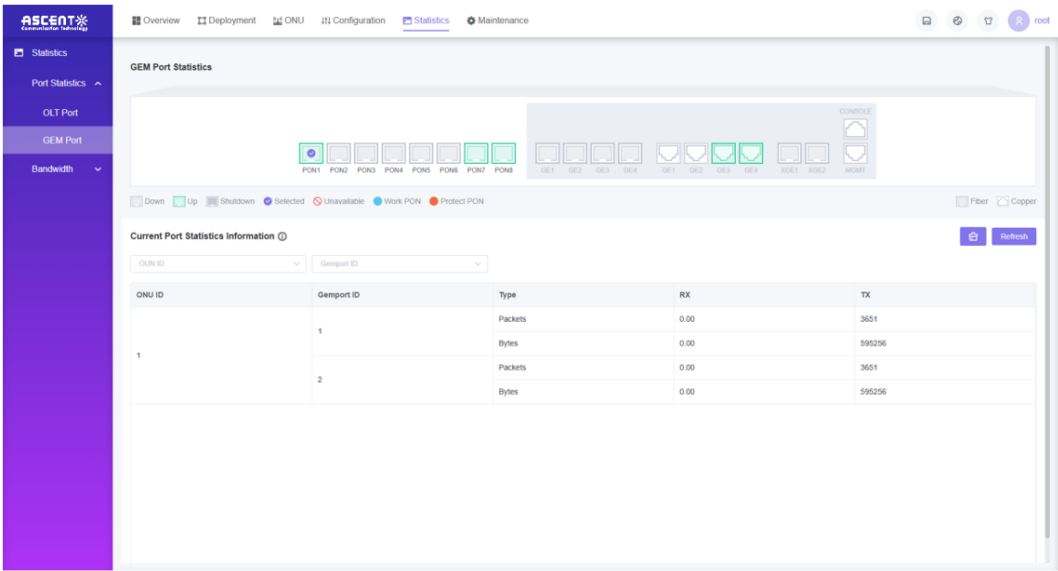
8.1.1 OLT Port

- Access path: **Statistics** ---->**Port Statistics** ---->**OLT Port**, click icon of uplink or pon port to display statistics information.



8.1.2 GEM Port

- Access path: **Statistics** ---->**Port Statistics** ---->**GEM Port**, click icon of pon port to display statistics information.

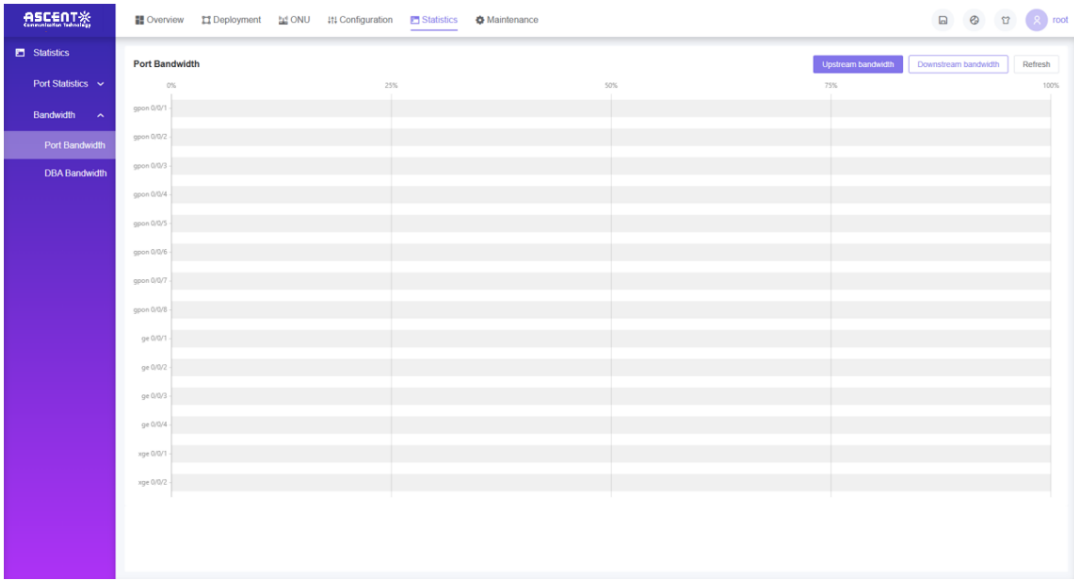


8.2 Bandwidth

Bandwidth displays port bandwidth information, such as total bandwidth, used bandwidth and residual bandwidth. It is helpful for debugging and maintenance.

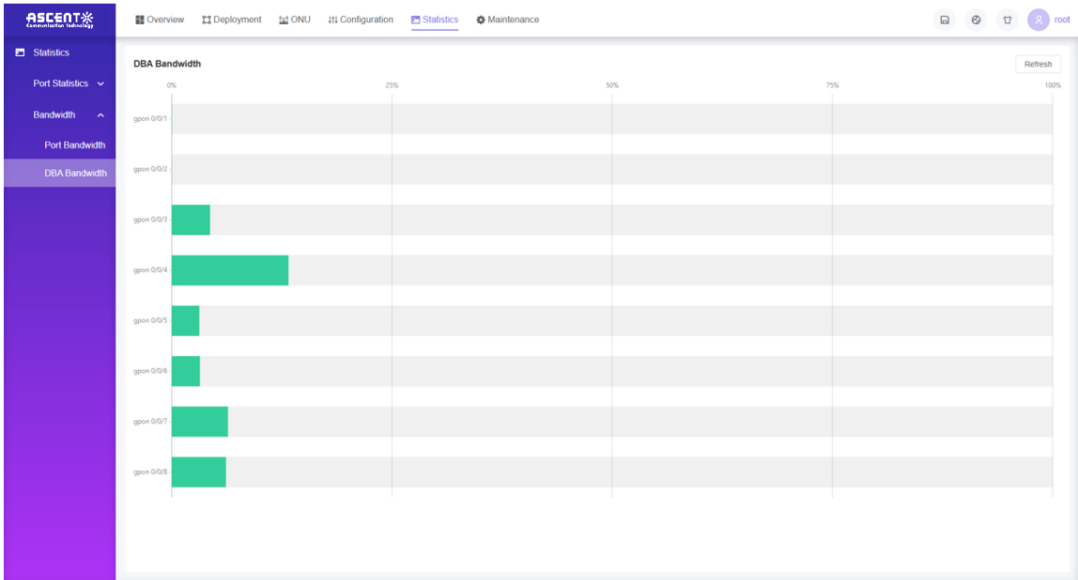
8.2.1 Port Bandwidth

- Access path: **Statistics** ---->**Bandwidth** ---->**Port Bandwidth**, click “Upstream bandwidth” or “Download bandwidth” to display the bandwidth information.



8.2.2 DBA Bandwidth

- Access path: **Statistics** ---->**Bandwidth** ---->**DBA Bandwidth**, it displays DBA bandwidth information of every pon port.



9 Maintenance

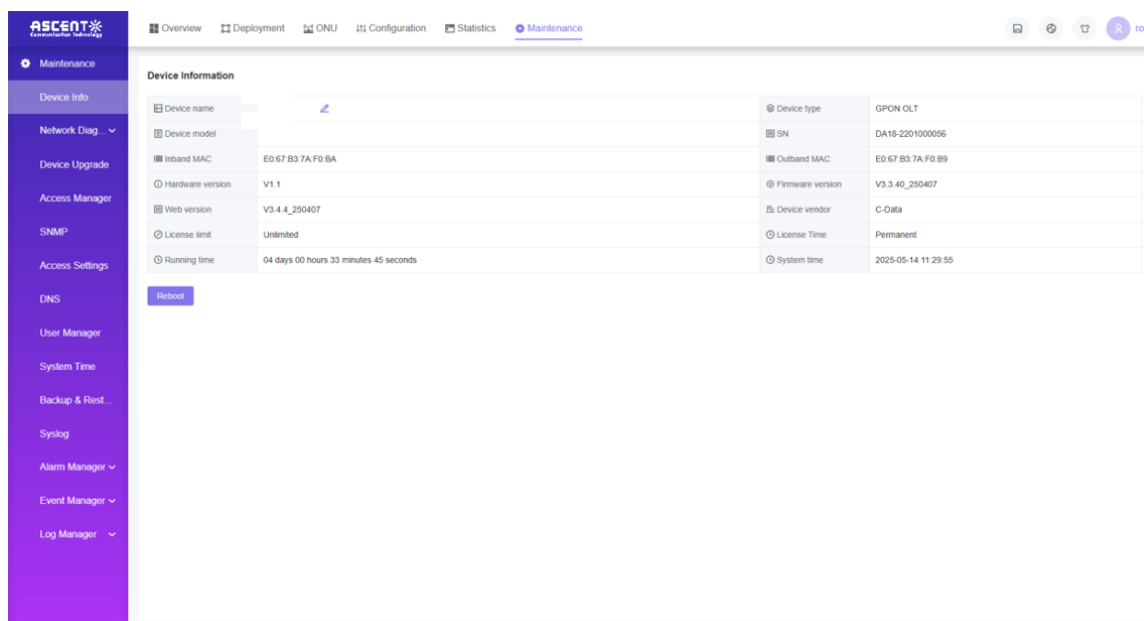
This chapter contains the following topics:

- Device Information
- Network diagnosis
- Device Upgrade
- Access Manager
- SNMP
- Access Settings
- DNS
- User Manager
- System Time
- Backup and Restore
- Syslog
- Alarm Manager
- Event Manager
- Log Manager

9.1 Device Information

Allowing the user to check information such as OLT model, MAC address, and vendor name, and providing the operation feature of the device reboot.

- Access path: **Maintenance** ---->**Device Information**.



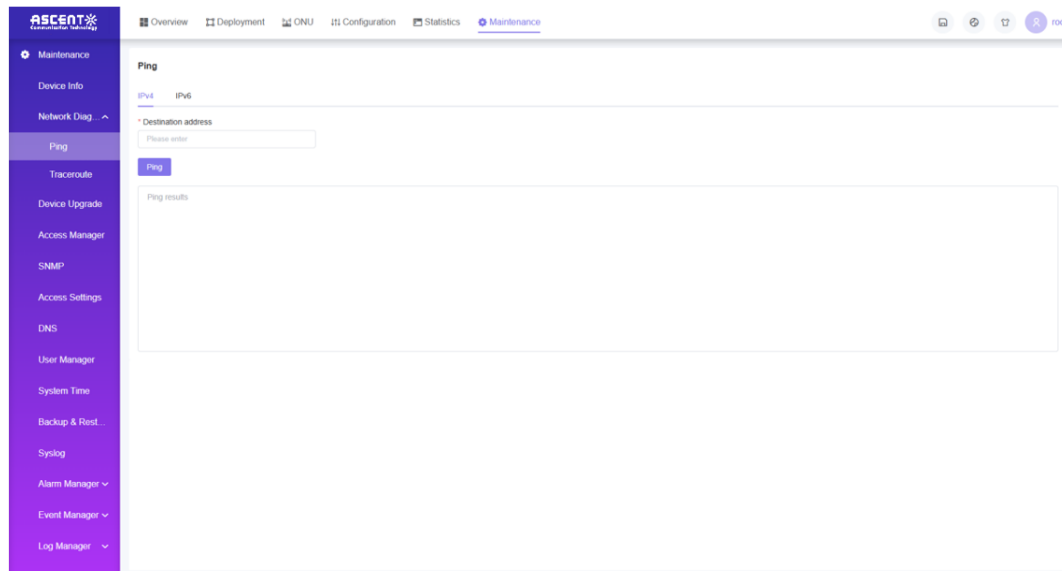
9.2 Network Diagnosis

Network Diagnosis provides ping and traceroute tool for debugging and maintenance.

9.2.1 Ping

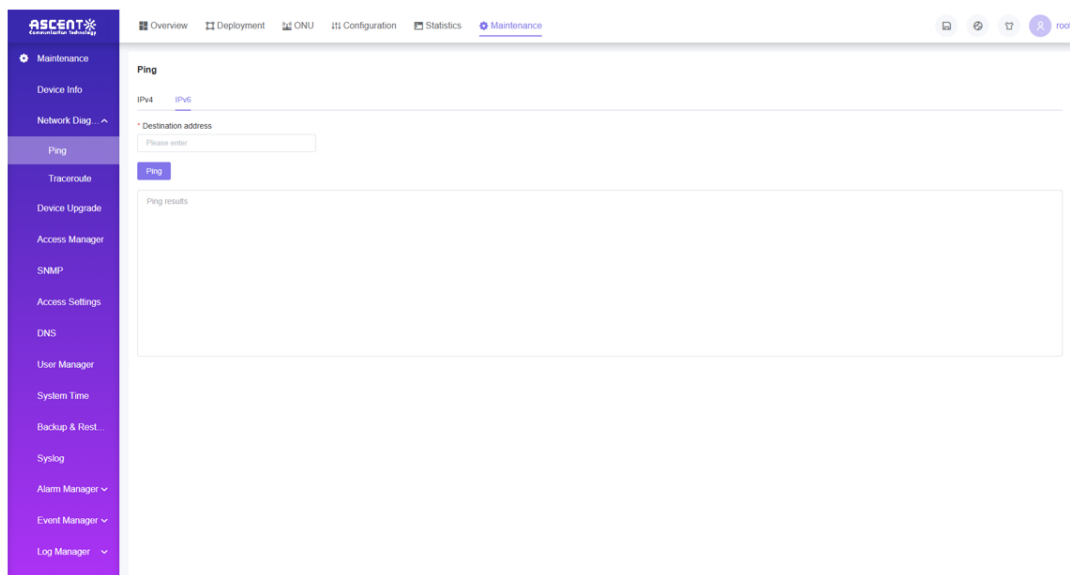
IPv4 Ping

- Access path: **Maintenance** ---->**Network Diagnosis** ---->**Ping**, click “IPv4” and do IPv4 ping testing.



IPv6 Ping

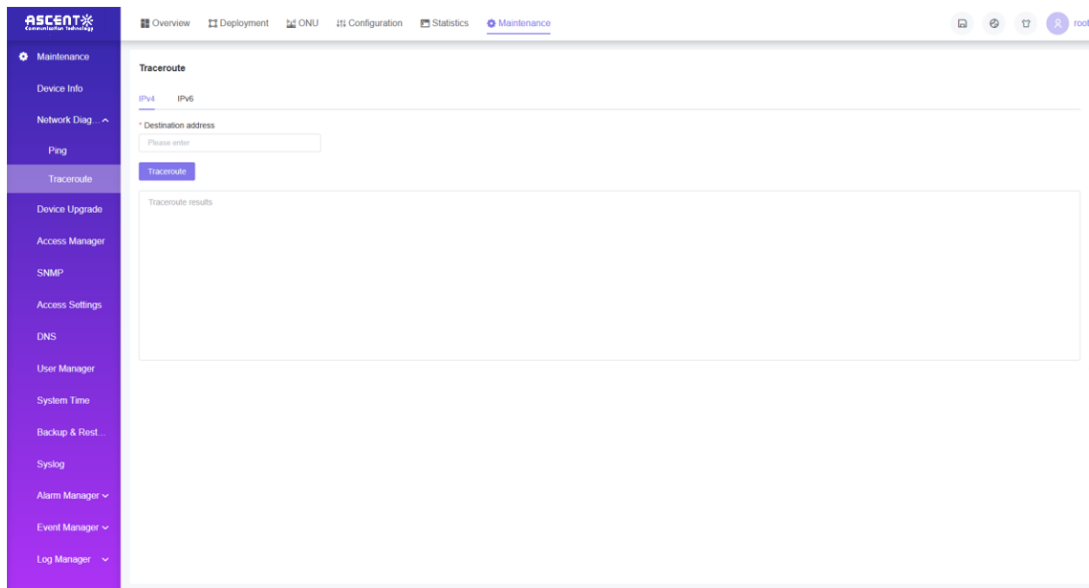
- Access path: **Maintenance** ---->**Network Diagnosis** ---->**Ping**, click “IPv6” and do IPv6 ping testing.



9.2.2 Traceroute

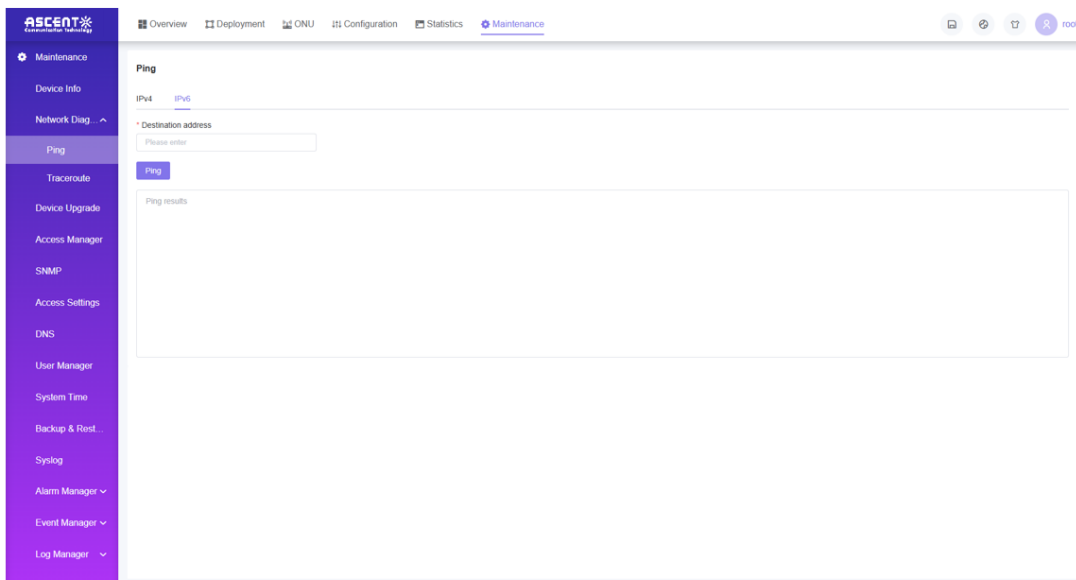
IPv4 Traceroute

- Access path: **Maintenance** ---->**Network Diagnosis** ---->**Traceroute**, click “**IPv4**” and do IPv4 traceroute testing.



IPv6 Traceroute

- Access path: **Maintenance** ---->**Network Diagnosis** ---->**Traceroute**, click “**IPv6**” and do IPv6 traceroute testing.



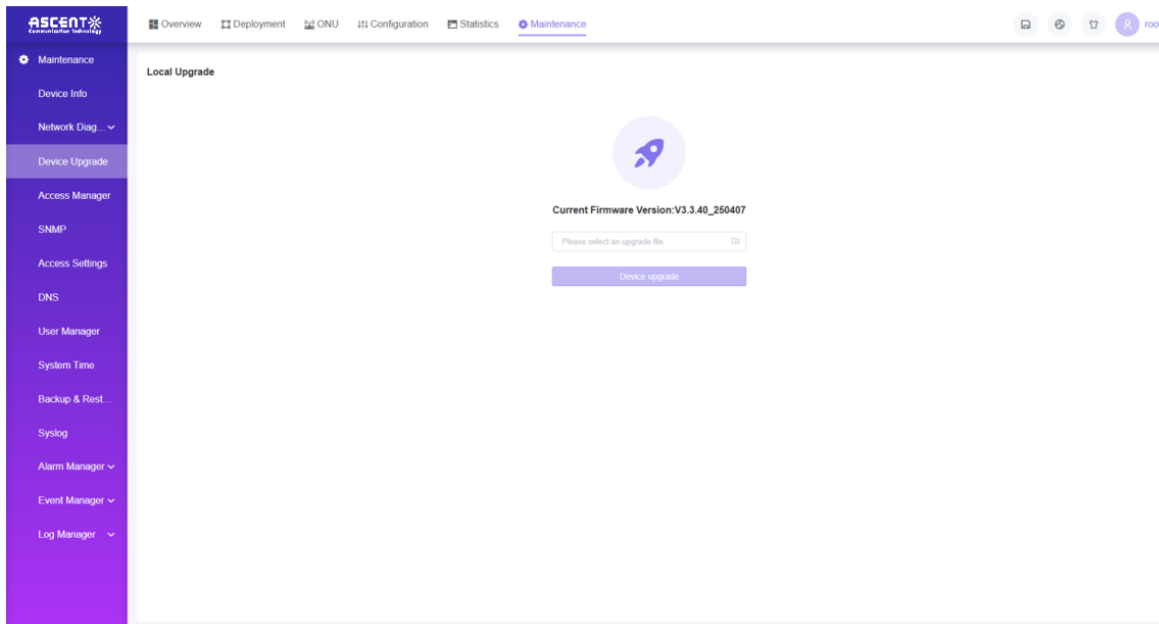
9.3 Device Upgrade

Allowing to upgrade the firmware of OLT devices.

- Access path: **Maintenance** ---->**Device Upgrade**.

Operational Steps:

1. Click the "**Select File**" selection box;
2. Select the upgrade firmware adapted to this OLT and confirm;
3. Click the "**Device Upgrade**", wait for the upgrade progress of the device to complete, and then reboot the device;



9.4 Access Manager

Allowing to configure remote access to OLT devices, and support out-of-band web access and CMS remote access configuration.

- Access path: **Maintenance** ---->**Access Manager**.

Web Access Settings

Allowing to configure out-of-band management IP and web login timeout settings for connecting to MGMT ports.

Remote Access Settings

Allowing to configure the channel configuration for connecting to the CMS webmaster (currently only supported for privately deployed CMS).

Web Access Settings

* IP address
192.168.5.91

* Subnet mask
255.255.255.0

* Login timeout settings
1800 Seconds [60,1800]

* Verification code
☐

Remote Access Settings

CMS Abnormal [Diagnose](#)

* Server address
http://172.16.20.58:80/v1/bind#v=1

Username
Please enter

Password
Please enter

9.5 SNMP

SNMP is a Simple Network Management Protocol that makes it easy for OLT to remotely manage and monitor, and is compatible with third-party management systems.

SNMP System Information

- Access path: **Maintenance** ---->**SNMP**.

SYS Info

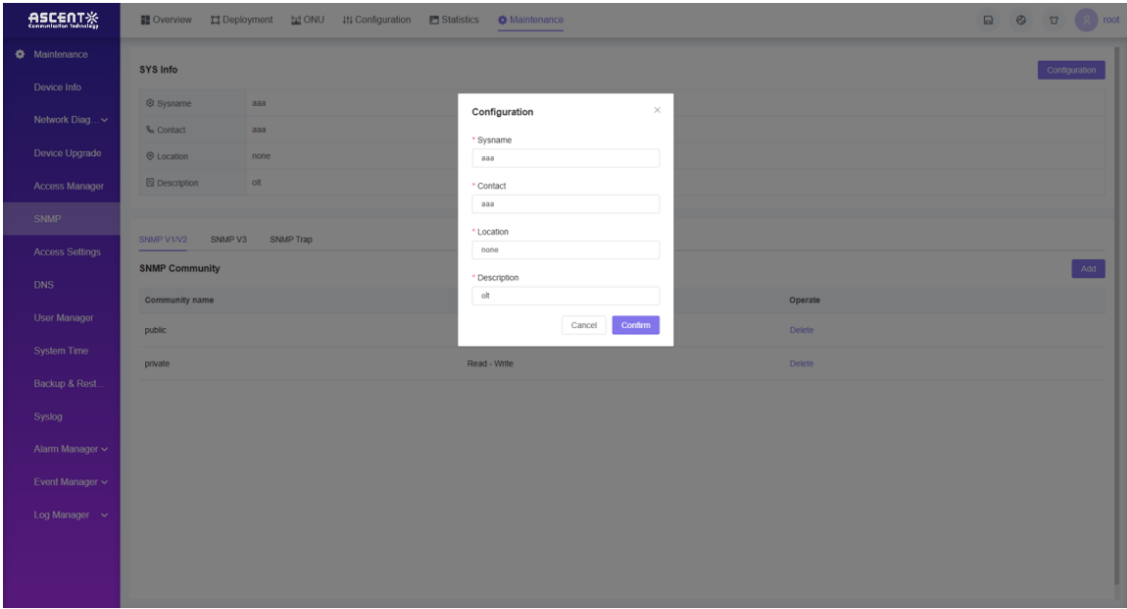
Sysname	aaa
Contact	aaa
Location	none
Description	olt

SNMP Community

Community name	Access rights	Operate
public	Read - Write	Delete
private	Read - Write	Delete

SNMP System Information Configuration

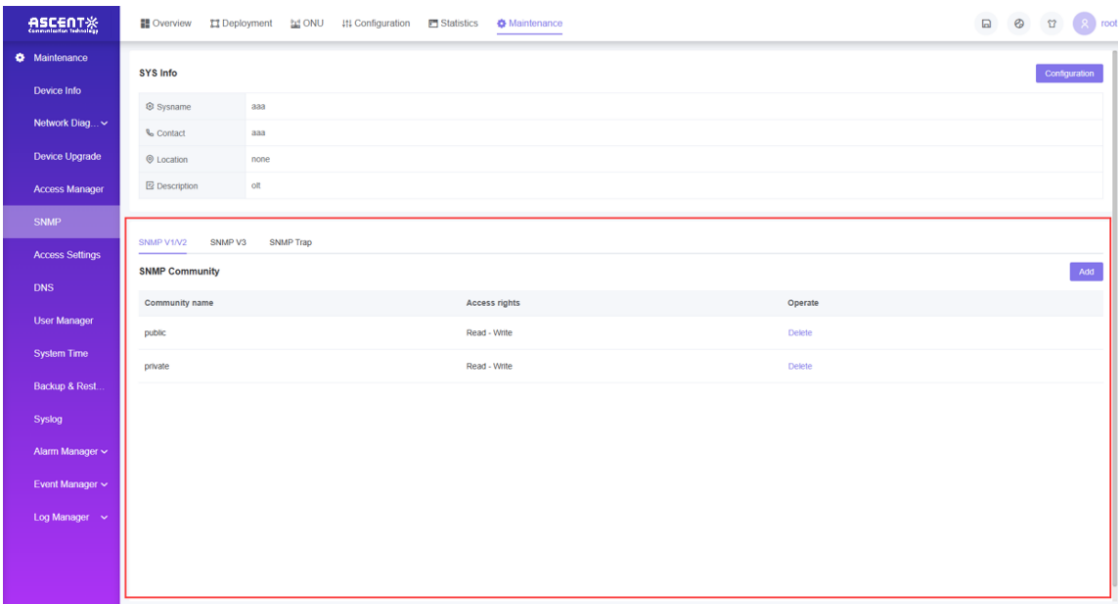
- Access path: **Maintenance** ---->**SNMP** ---->Click the "**Configuration**" button and the [Configuration] pop-up window will appear for setting snmp system information, such as Sysname, Contact, Location, Description.



9.5.1 SNMP V1/V2

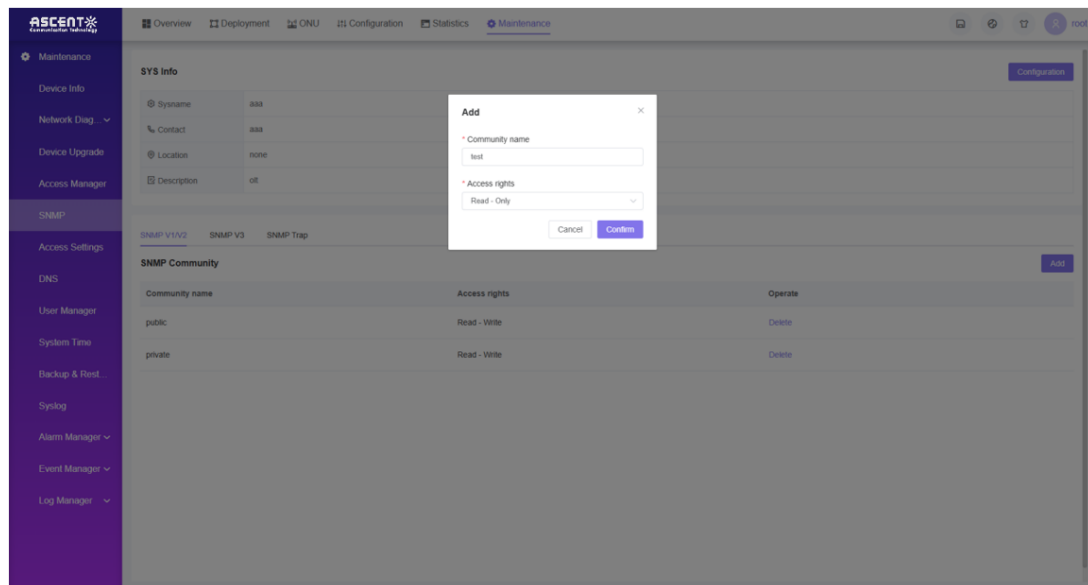
SNMP V1/V2 Community List

- Access path: Maintenance ---->SNMP ---->SNMP V1/V2---->SNMP Community.



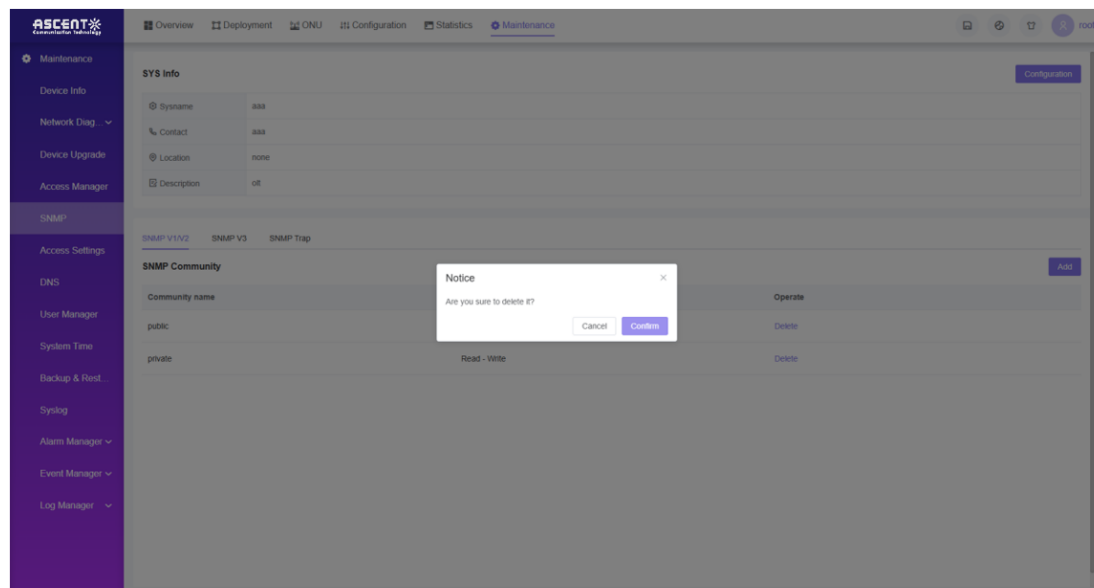
Add SNMP Community

- Access path: **Maintenance** ---->**SNMP** ---->**SNMP V1/V2**---->**SNMP Community**, click “Add” button and an [Add] pop-up window will appear for setting community name and access rights.



Delete SNMP Community

- Access path: **Maintenance** ---->**SNMP** ---->**SNMP V1/V2**---->**SNMP Community**, click “Delete” that community need to delete and an pop-up window will appear.

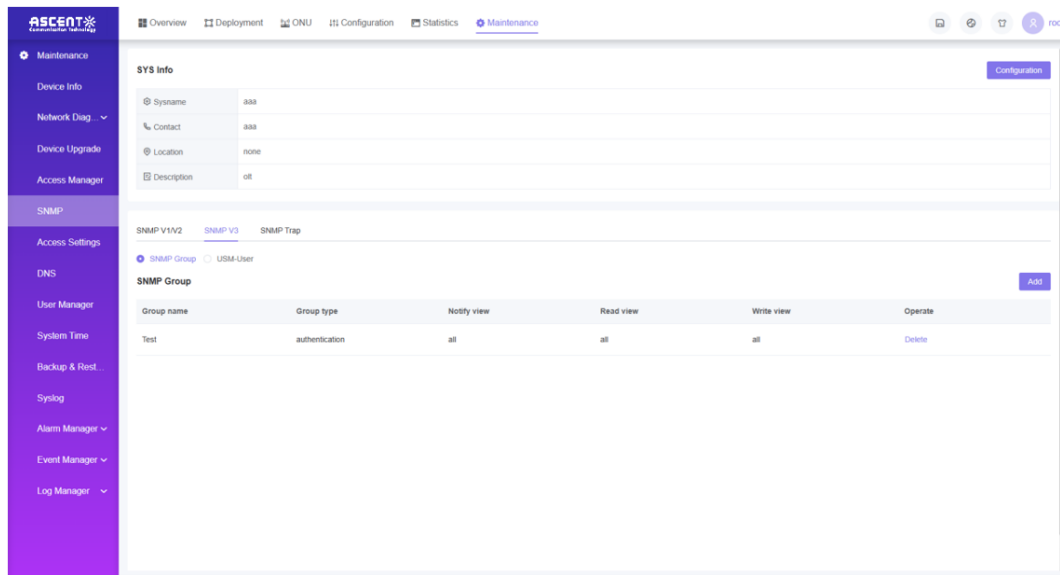


- Click the "Confirm" to delete it.

9.5.2 SNMP V3

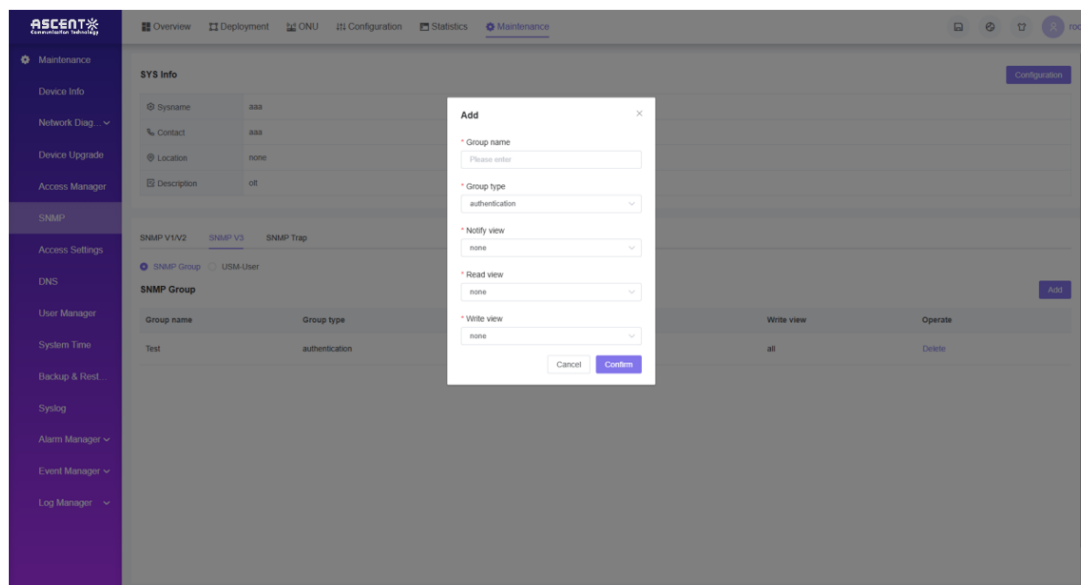
SNMP V3----SNMP Group List

- Access path: **Maintenance** ---->**SNMP** ---->**SNMP V3**---->**SNMP Group**.



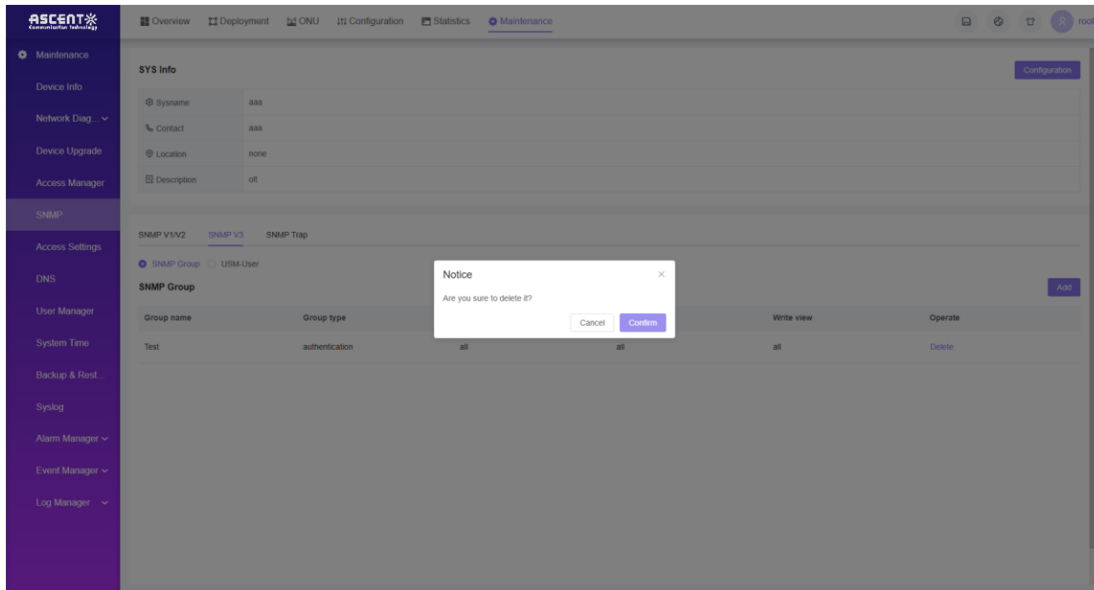
Add SNMP Group

- Access path: **Maintenance** ---->**SNMP** ---->**SNMP V3**---->**SNMP Group**, click “Add” button and an [Add] pop-up window will appear for SNMP group settings, such as Group name, Group type, Notify view, Read view, Write view.



Delete SNMP Group

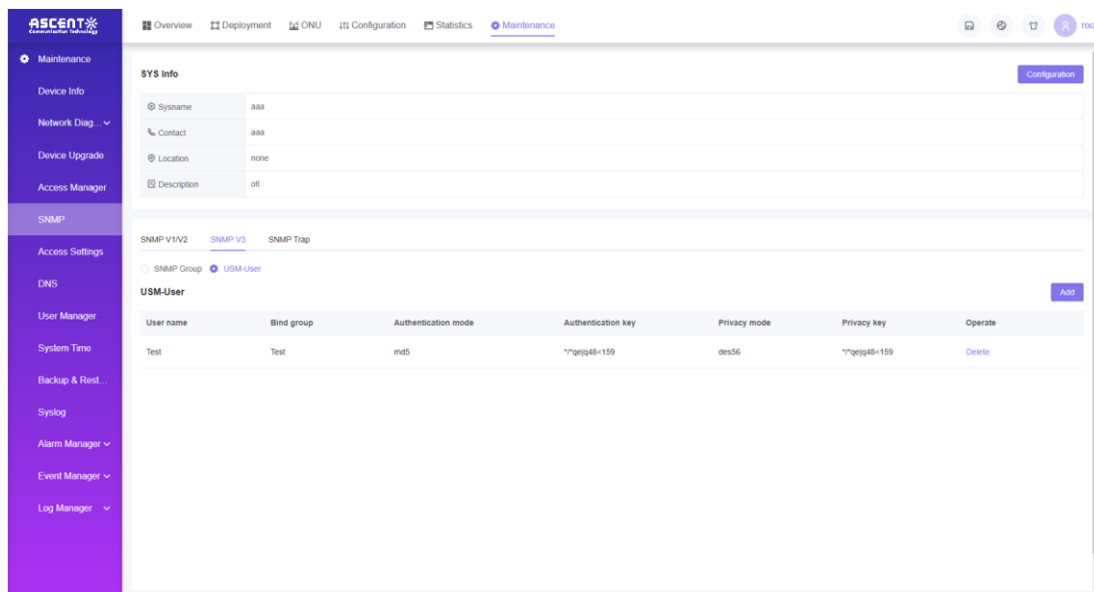
- Access path: **Maintenance** ---->**SNMP** ---->**SNMP V3**---->**SNMP Group**, click “Delete” that the group need to delete and an pop-up window will appear.



- Click the "Confirm" to delete it.

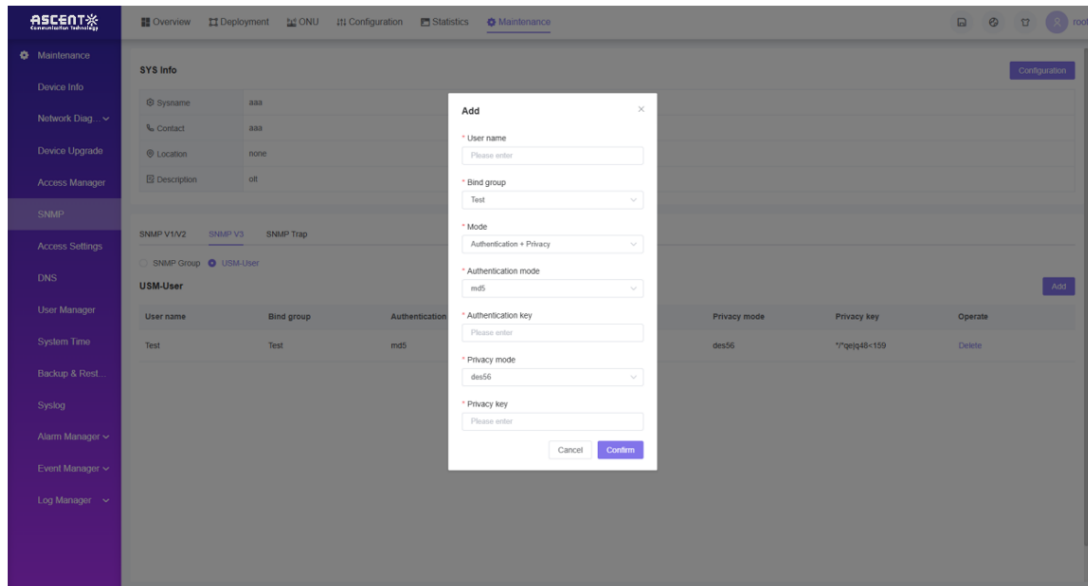
SNMP V3----USM-User

- Access path: **Maintenance** ---->**SNMP** ---->**SNMP V3**---->**USM-User**.



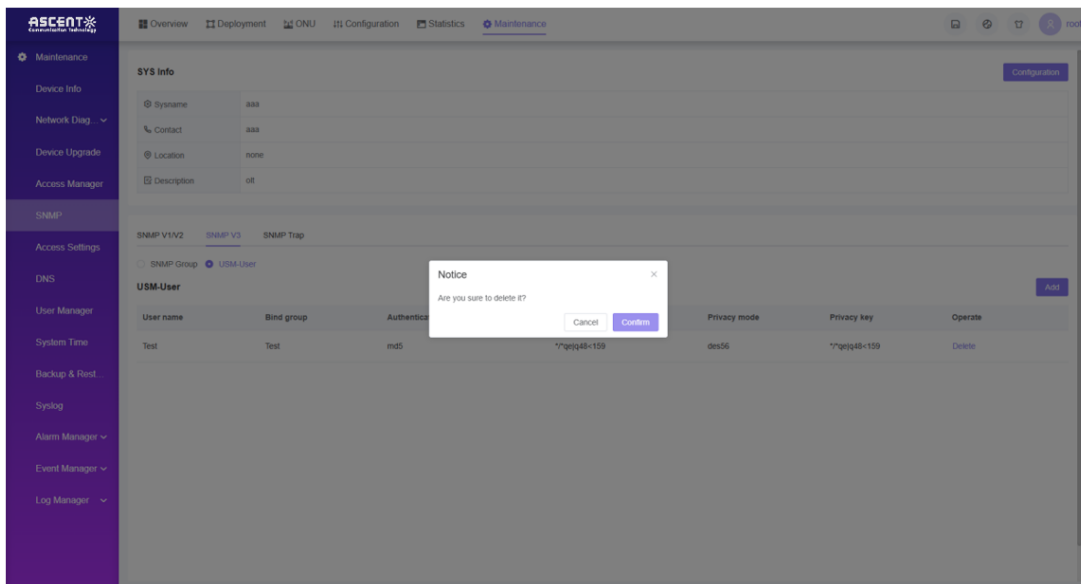
Add USM-User

- Access path: **Maintenance** ---->**SNMP** ---->**SNMP V3**---->**USM-User**, click "Add" button and an [Add] pop-up window will appear for USM-User settings, such as User name, Bind group, Mode, Authentication mode, Authentication key, Privacy mode, Privacy key.



Delete USM-User

- Access path: **Maintenance** ---->**SNMP** ---->**SNMP V3**---->**USM-User**, click **"Delete"** that the group need to delete and an pop-up window will appear.

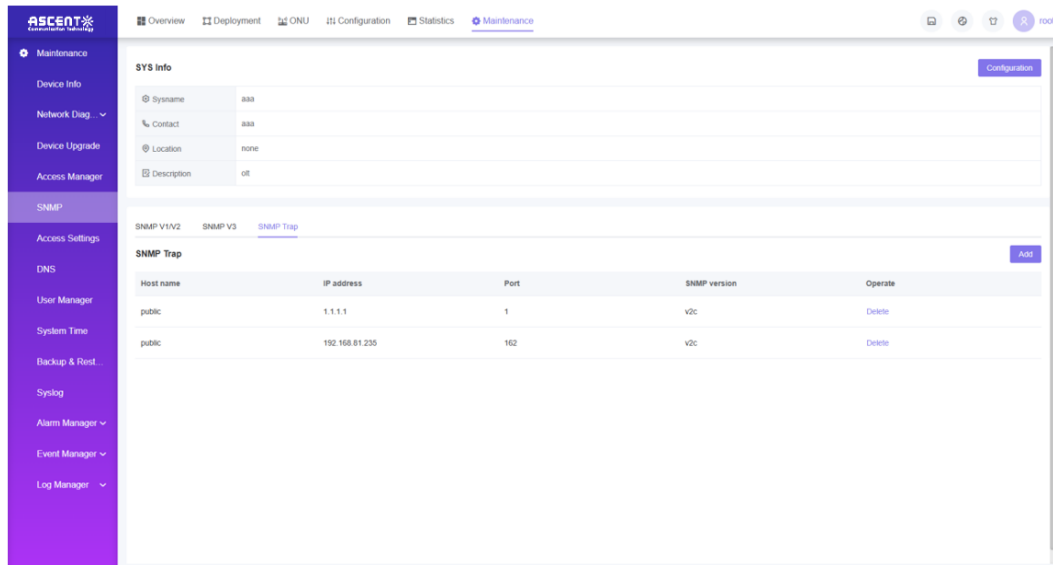


- Click the **"Confirm"** to delete it.

9.5.3 SNMP Trap

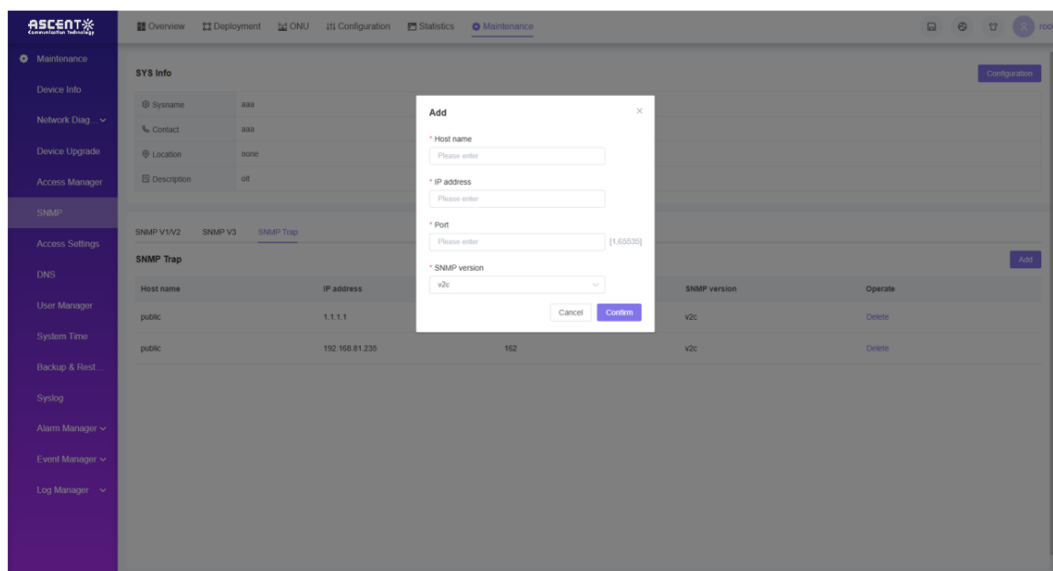
SNMP V3----SNMP Trap List

- Access path: **Maintenance** ---->**SNMP** ---->**SNMP Trap**.



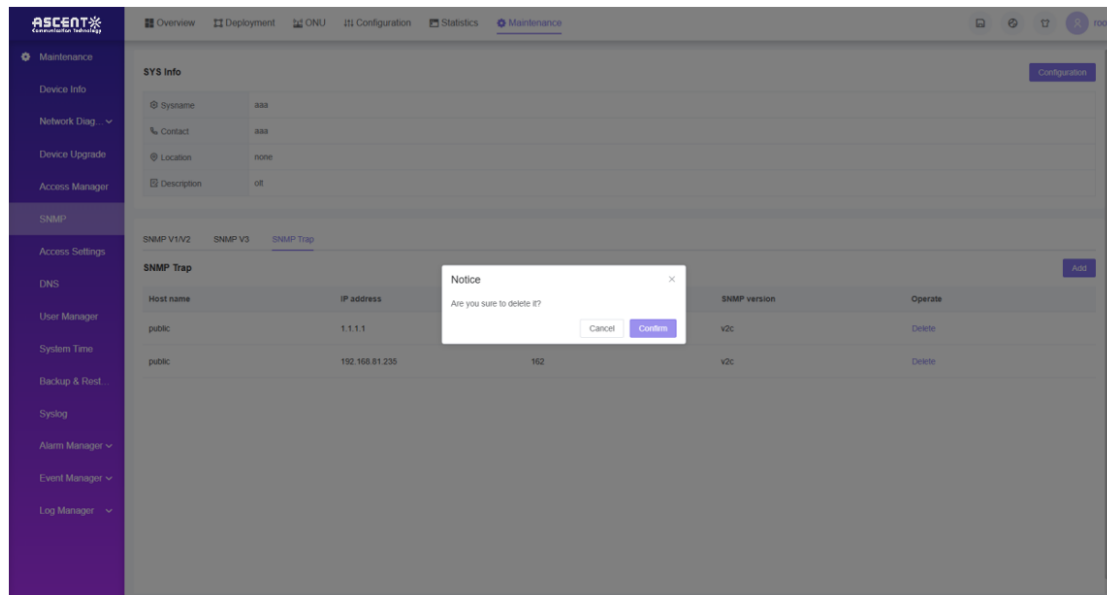
Add SNMP Trap

- Access path: **Maintenance** ---->**SNMP** ---->**SNMP Trap**, click **"Add"** button and an [Add] pop-up window will appear for SNMP trap settings, such as Host name, IP address, Port, SNMP version.



Delete SNMP Trap

- Access path: **Maintenance** ---->**SNMP** ---->**SNMP Trap**, click **"Delete"** that the trap need to delete and an pop-up window will appear.



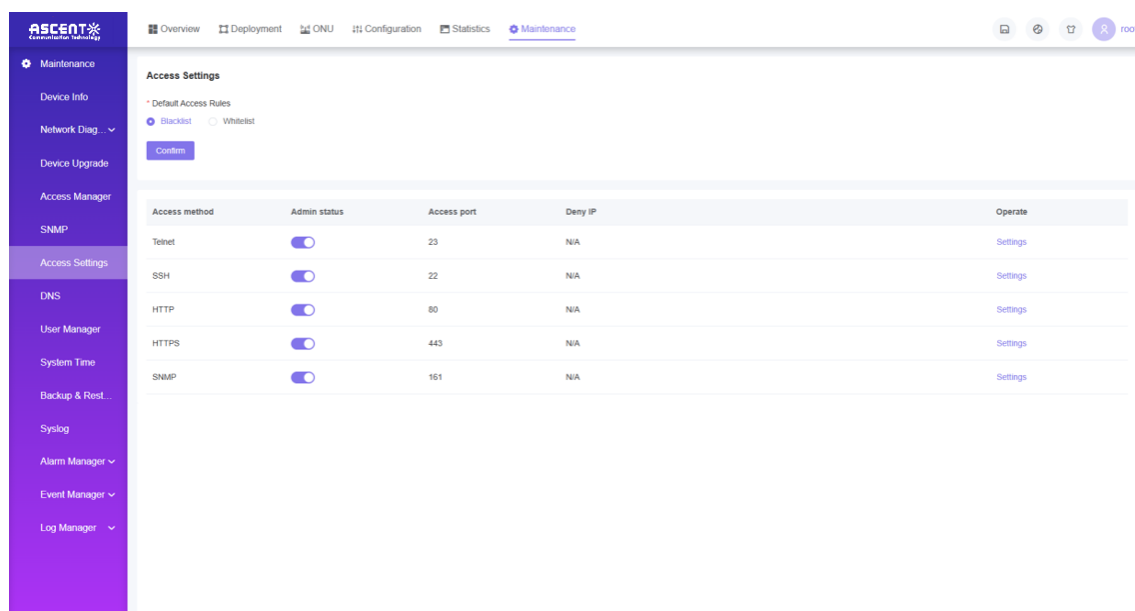
- Click the **"Confirm"** to delete it.

9.6 Access Settings

Access settings provides blacklist and whitelist access rules settings. It supports settings for Telnet, SSH, HTTP, HTTPS, SNMP. For security, it allows to limit the specific IP address or IP address range to access the OLT.

Access Settings

- Access path: **Maintenance** ---->**Access Settings**.



Access Settings----Blacklist

- Access path: **Maintenance** ---->**Access Settings** ----> click “**Blacklist**” and “**Confirm**” button to set default access rules.

The screenshot shows the web interface with the 'Maintenance' menu on the left. Under 'Access Settings', the 'Blacklist' tab is selected. A 'Confirm' button is visible. Below is a table of access methods and their configurations.

Access method	Admin status	Access port	Deny IP	Operate
Telnet	<input checked="" type="checkbox"/>	23	N/A	Settings
SSH	<input checked="" type="checkbox"/>	22	N/A	Settings
HTTP	<input checked="" type="checkbox"/>	80	N/A	Settings
HTTPS	<input checked="" type="checkbox"/>	443	N/A	Settings
SNMP	<input checked="" type="checkbox"/>	161	N/A	Settings

Access Settings----Whitelist

- Access path: **Maintenance** ---->**Access Settings** ----> click “**Whitelist**” and “**Confirm**” button to set default access rules.

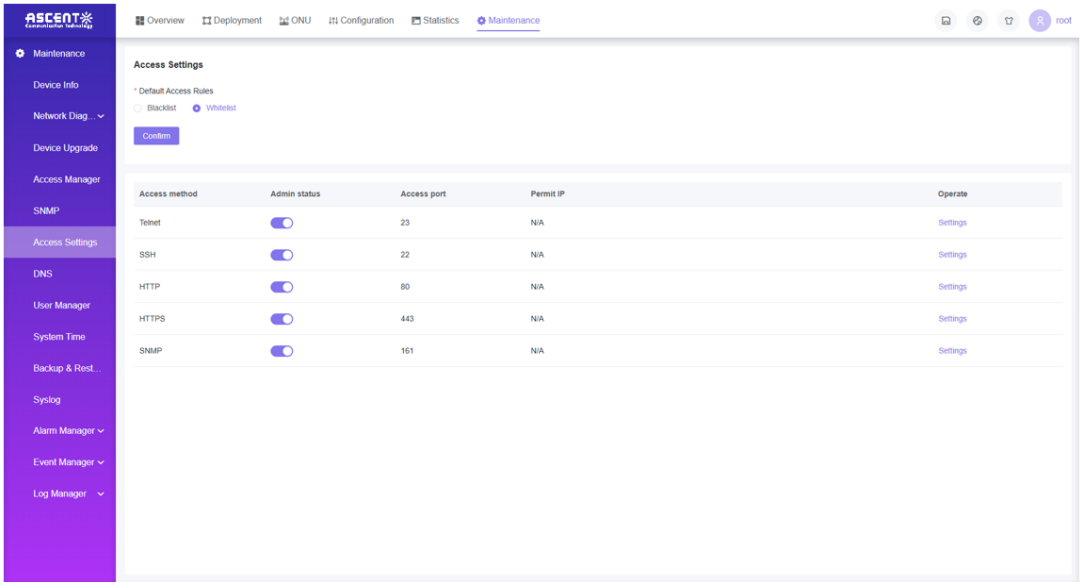
The screenshot shows the web interface with the 'Maintenance' menu on the left. Under 'Access Settings', the 'Whitelist' tab is selected. A 'Confirm' button is visible. Below is a table of access methods and their configurations.

Access method	Admin status	Access port	Permit IP	Operate
Telnet	<input checked="" type="checkbox"/>	23	N/A	Settings
SSH	<input checked="" type="checkbox"/>	22	N/A	Settings
HTTP	<input checked="" type="checkbox"/>	80	N/A	Settings
HTTPS	<input checked="" type="checkbox"/>	443	N/A	Settings
SNMP	<input checked="" type="checkbox"/>	161	N/A	Settings

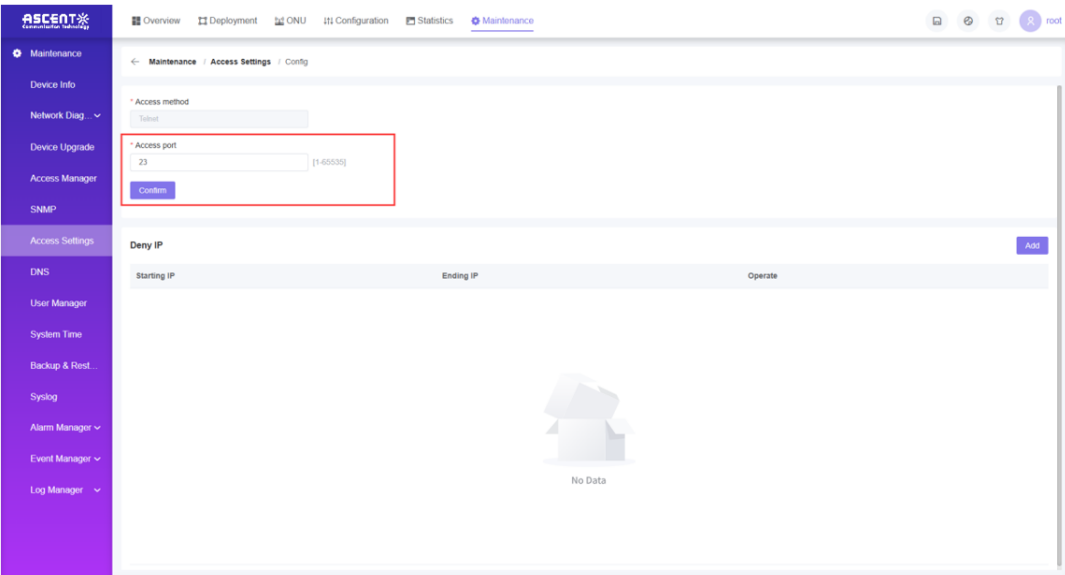
Access Settings----Access port and IP Address Settings

Note: It supports Telnet, SSH, HTTP, HTTPS, SNMP and the settings is the same. Here we make Telnet as an example.

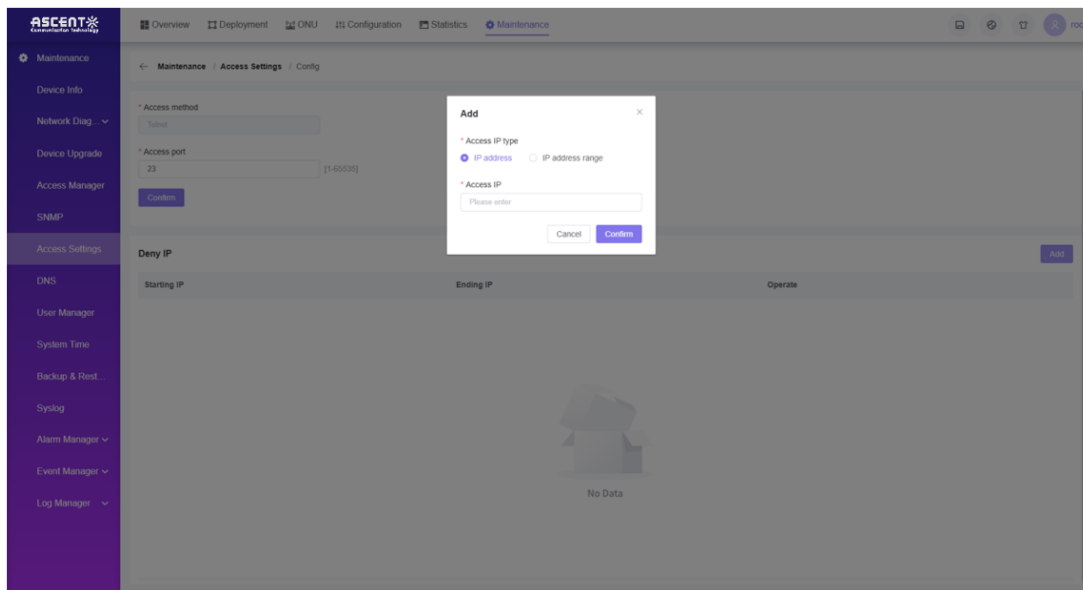
- Step 1:** Access path: **Maintenance** ---->**Access Settings** ----> click “**Settings**” that the protocol need to set and enter config page .



- **Step 2:** In config page, set “Access port” option and click “Confirm” button.

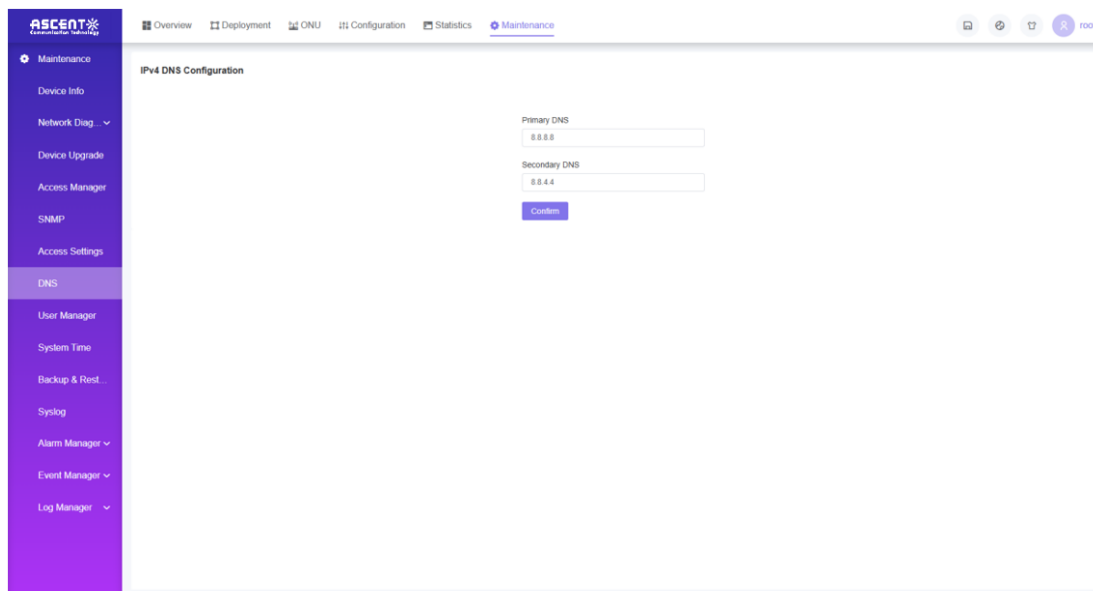


- **Step 3:** click “Add” button and an [Add] pop-up window will appear for IP address or IP address range settings.



9.7 DNS

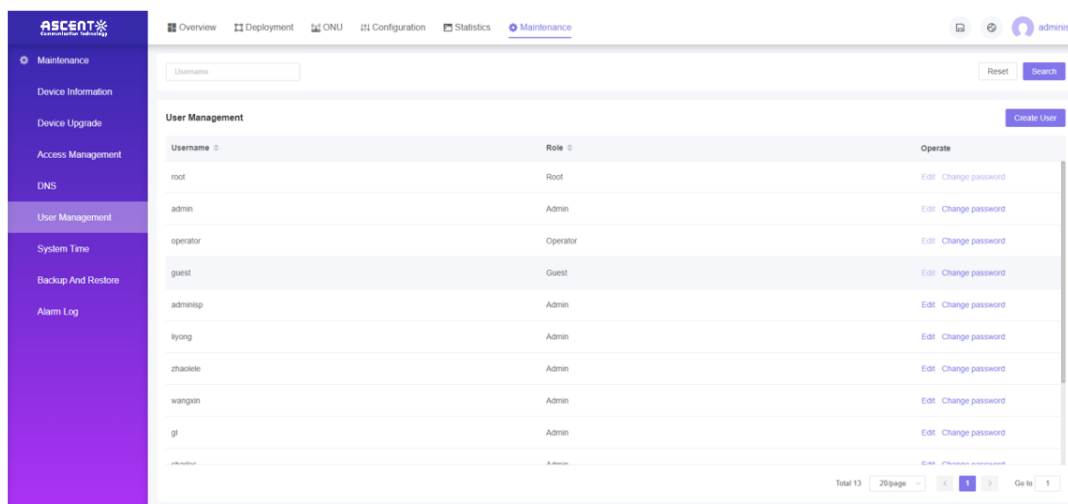
1. The system supports configuring the Domain Name System (DNS), allowing users to access the system using domain names. If the system's IP address changes, the DNS server supports automatic data updating, ensuring uninterrupted access through domain name. If the DNS server doesn't support automatic updating, please manually update the correspondence between the system domain name and IP address.
 2. By configuring the DNS server IP address, users can resolve server domain names to IP addresses, enabling access to the server.
 3. In the [DNS Configuration] interface, you can view the current DNS configuration information of the system and make modifications if needed.
- Access path: **Maintenance** ---->**DNS**.



9.8 User Manager

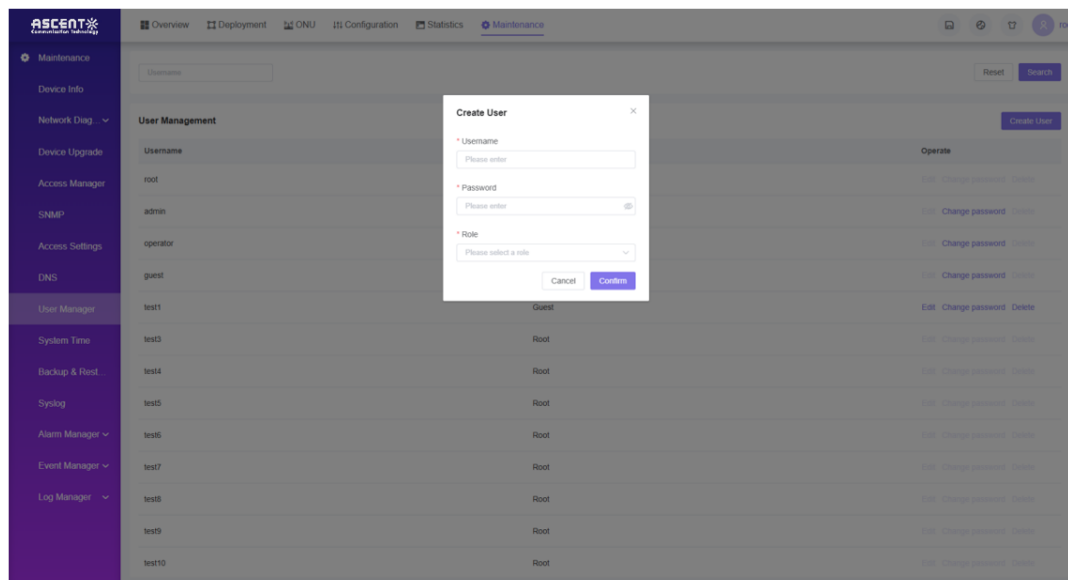
The OLT Web Management System supports multi-user operation and enables different users to have distinct operational permissions, thereby enhancing the operation security of the system.

- Access path: **Maintenance** ---->**User Manager**.



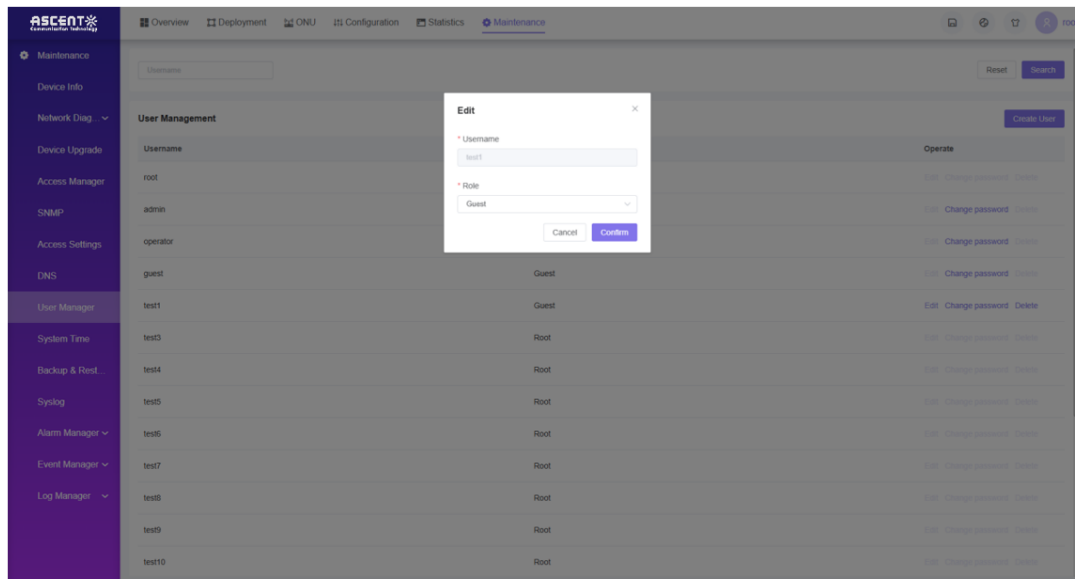
Create User

- Access path: **Maintenance** ---->**User Manager** ---->Click the "Create User", a pop-up window for creating user will appear for user settings, such as Username, Password, Role.



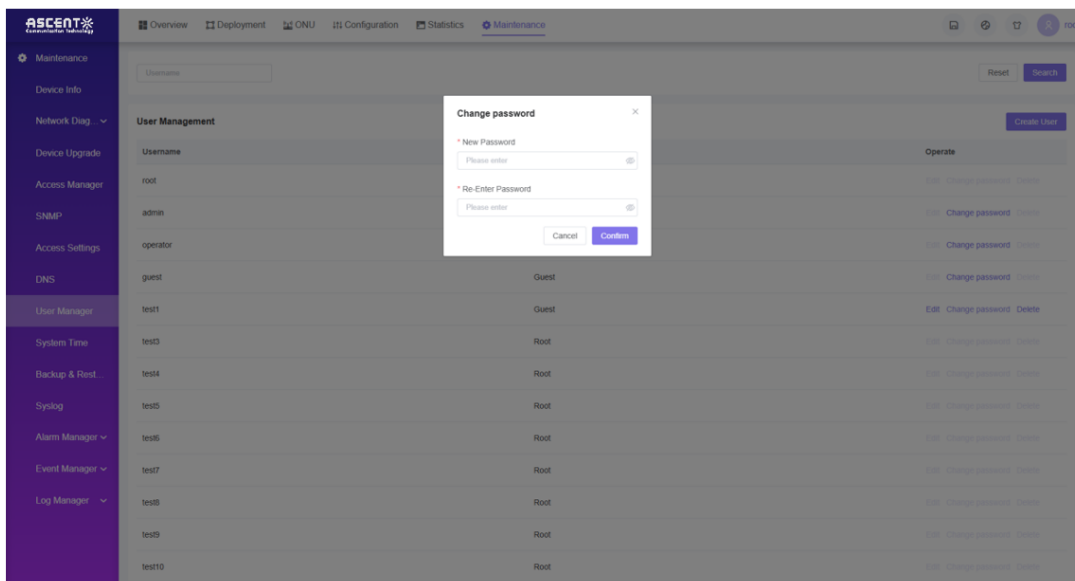
Edit User

- Access path: **Maintenance** ---->**User Manager** ---->Select the user needed to be edited ---->Click the "Edit", and a pop-up window for editing will appear.



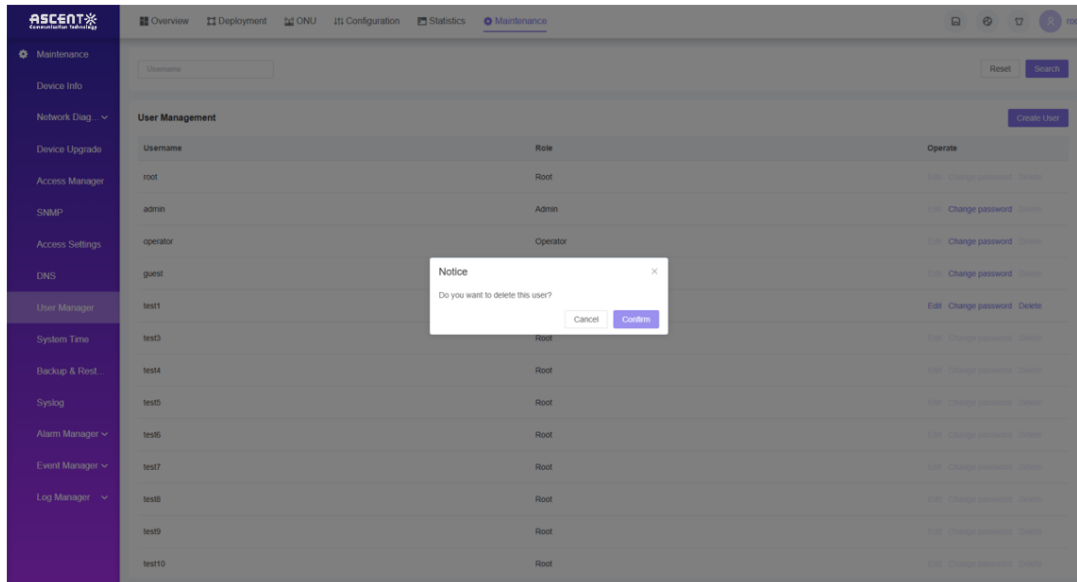
Change Password

- Access path: **Maintenance** ---->**User Manager** ---->Select the user who needs to change the password ---->Click the "**Change Password**", and a pop-up window for changing password will appear.



Delete User

- Access path: **Maintenance** ---->**User Manager** ---->Select the user needed to be deleted ---->Click the "**Delete**", and a pop-up window for deleting will appear.

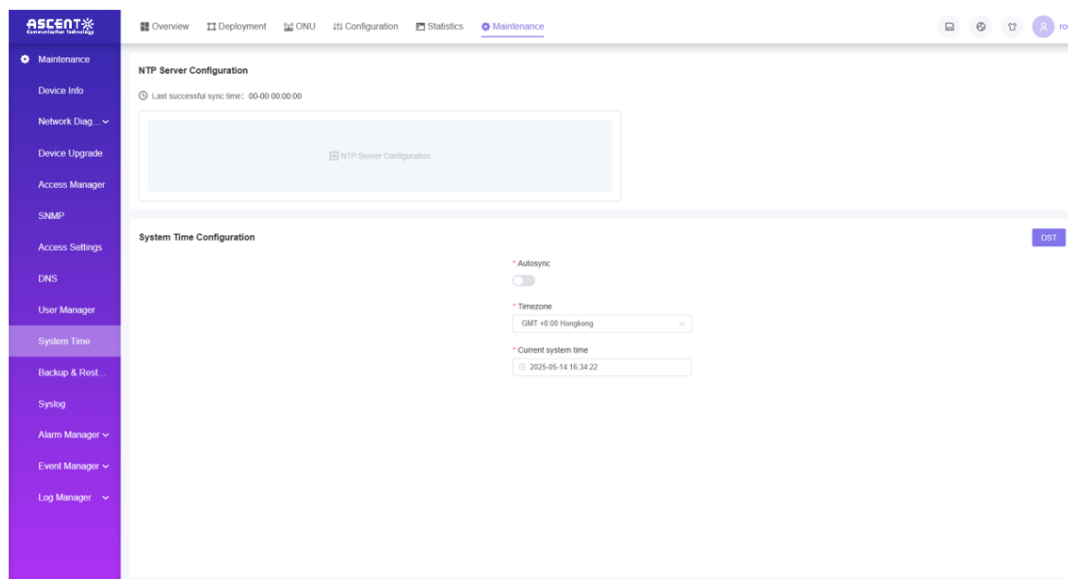


- Click the "Confirm" to delete it.

9.9 System Time

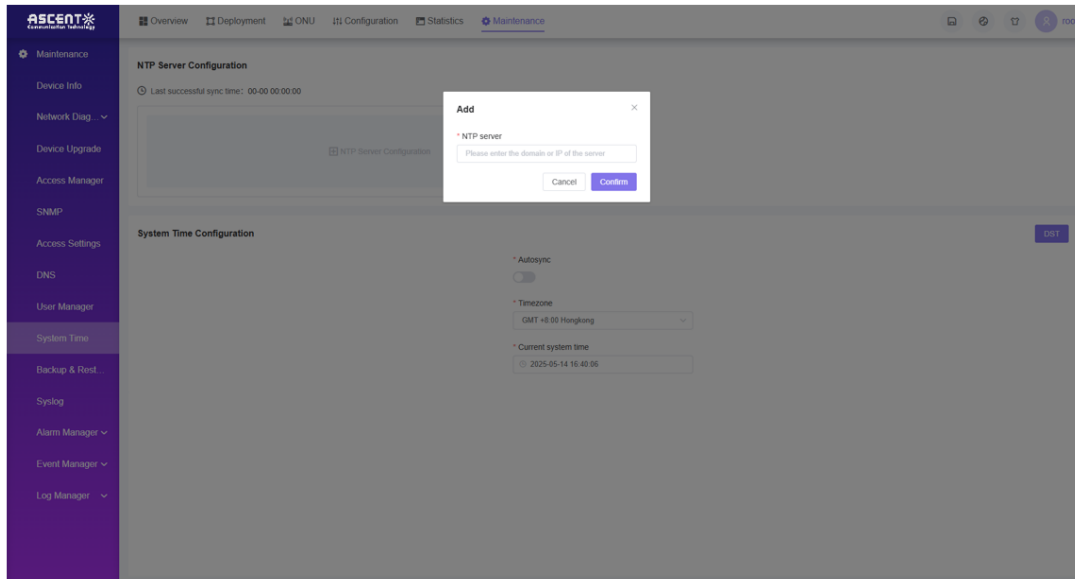
Allowing to configure the time of the OLT device, it supports synchronizing with the time of the NTP server

- Access path: **Maintenance ---->System Time.**



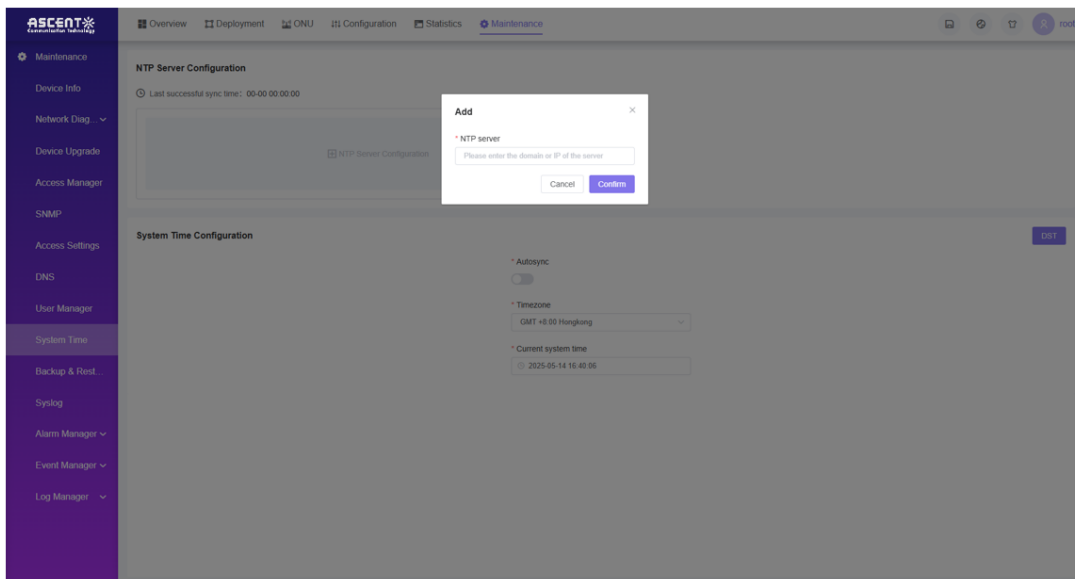
Add NTP Server Configuration

- Access path: **Maintenance ---->System Time ---->Click the "NTP Server Configuration"**, and a pop-up window will appear for adding NTP server.



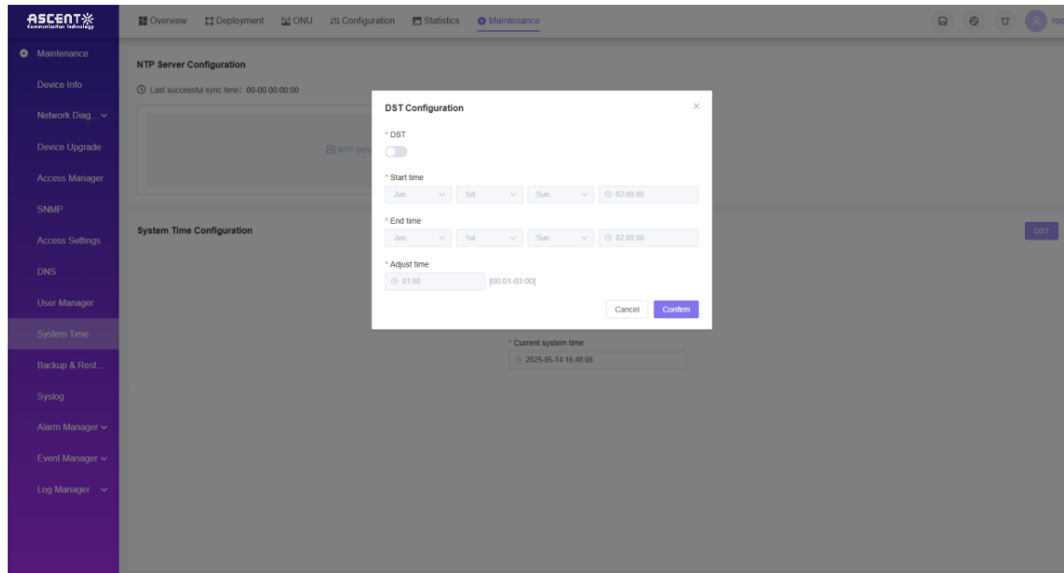
System Time Configuration

- Access path: **Maintenance** ----> **System Time** ----> set **"Timezone"** and **"Current system time"** options. If click **"Autosync"**, it will appear a pop-up window to add NTP Server.



Daylight Saving Time(DST)

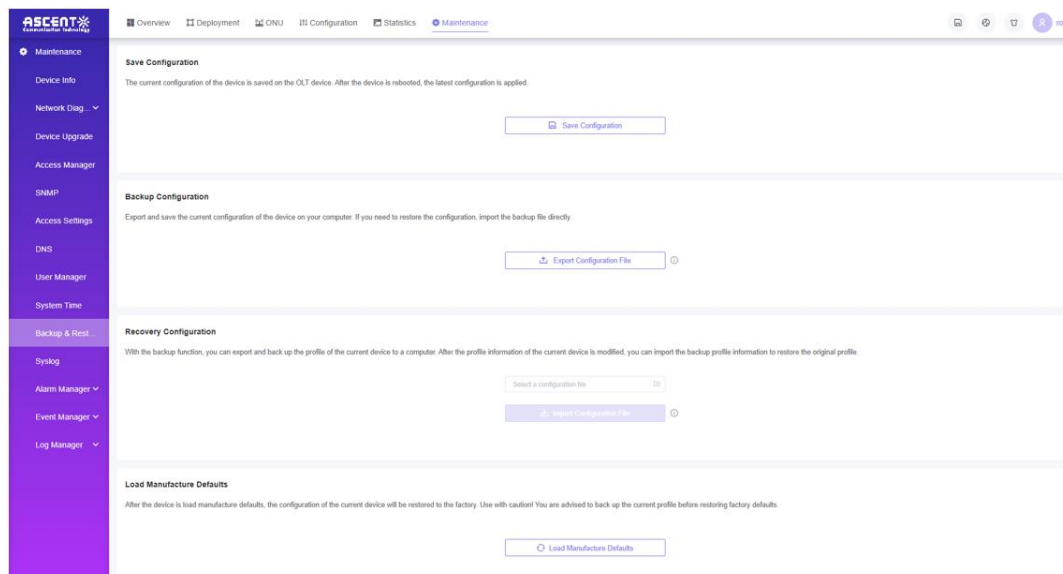
- Access path: **Maintenance** ----> **System Time** ----> click **"DST"** button, it will appear a pop-up window for DST configuration.



9.10 Backup and Restore

Provides operations for Save Configuration, Backup Configuration, Recovery Configuration, Load Manufacture Defaults.

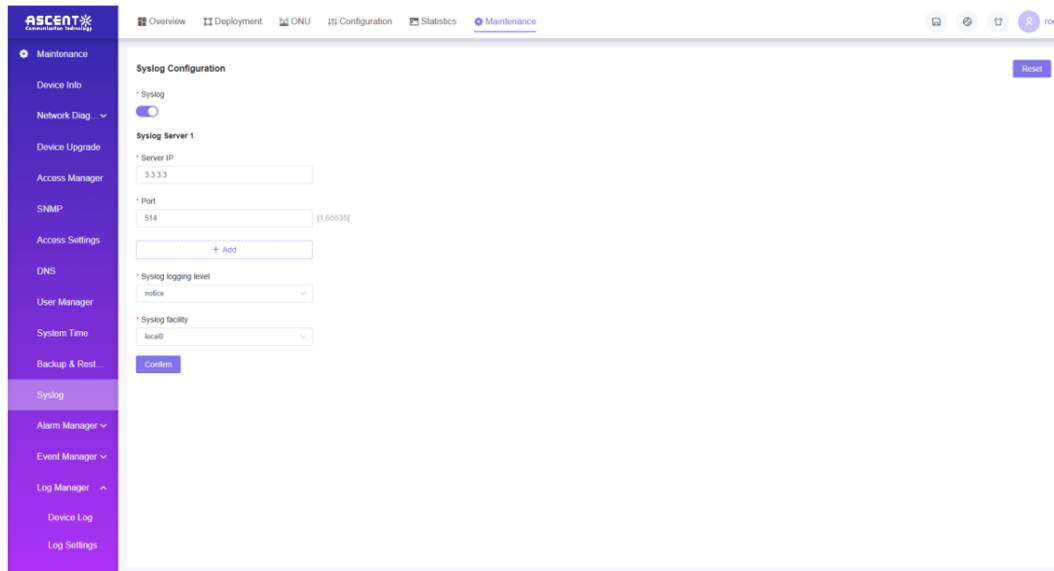
- Access path: **Maintenance** ---->**Backup and Restore**.



9.11 Syslog

The SysLog protocol is a widely used standard for logging and transmission of network devices and servers. It allows system administrators to centrally manage log information, facilitating monitoring and troubleshooting.

- Access path: **Maintenance** ---->**Syslog**.



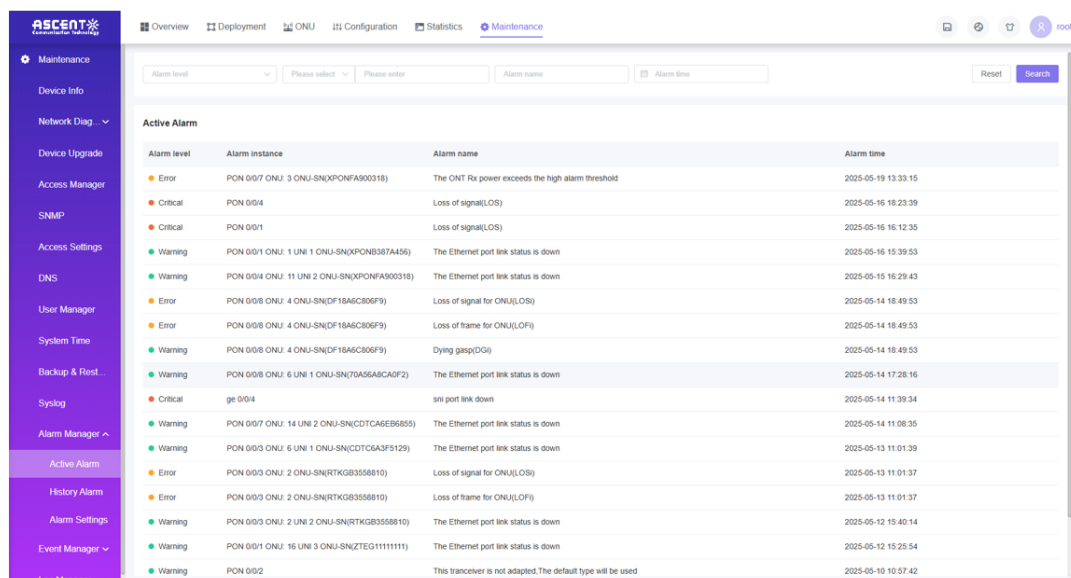
9.12 Alarm Manager

The system or management objects detect significant changes in their own status, whether it's an anomaly or normal operation. These changes are displayed as alarms in the management interface of the alarm manager. Management objects refer to entities or network elements connected to the alarm management system.

9.12.1 Active Alarm

Active Alarm

- Access path: **Maintenance ---->Alarm Manager----> Active Alarm.**



Active Alarm Search

- Access path: **Maintenance ---->Alarm Manager----> Active Alarm----> click top options bar to search active alarm, such as Alarm level, Alarm type, Alarm name, Alarm time options.**

Maintenance

Overview Deployment ONU IT Configuration Statistics Maintenance

Alarm level: Please select Please enter Alarm name: Alarm time: Reset Search

Alarm level	Alarm instance	Alarm name	Alarm time
Error	PON 0/0/7 ONU: 3 ONU-SN(XPONFA900318)	The ONT Rx power exceeds the high alarm threshold	2025-05-19 13:33:15
Critical	PON 0/0/4	Loss of signal(LOS)	2025-05-16 18:23:39
Critical	PON 0/0/1	Loss of signal(LOS)	2025-05-16 16:12:35
Warning	PON 0/0/1 ONU: 1 UNI 1 ONU-SN(XPONB387A456)	The Ethernet port link status is down	2025-05-16 15:39:53
Warning	PON 0/0/4 ONU: 11 UNI 2 ONU-SN(XPONFA900318)	The Ethernet port link status is down	2025-05-15 16:29:43
Error	PON 0/0/8 ONU: 4 ONU-SN(DF18AC806F9)	Loss of signal for ONU(LOS)	2025-05-14 18:49:53
Error	PON 0/0/8 ONU: 4 ONU-SN(DF18AC806F9)	Loss of frame for ONU(LOF)	2025-05-14 18:49:53
Warning	PON 0/0/8 ONU: 4 ONU-SN(DF18AC806F9)	Dying gasp(DG)	2025-05-14 18:49:53
Warning	PON 0/0/8 ONU: 6 UNI 1 ONU-SN(70A56A3CA9F2)	The Ethernet port link status is down	2025-05-14 17:28:16
Critical	ge 0/0/4	sni port link down	2025-05-14 11:39:34
Warning	PON 0/0/7 ONU: 14 UNI 2 ONU-SN(CDTCA5E86855)	The Ethernet port link status is down	2025-05-14 11:08:35
Warning	PON 0/0/3 ONU: 6 UNI 1 ONU-SN(CDT5A3F5129)	The Ethernet port link status is down	2025-05-13 11:01:39
Error	PON 0/0/3 ONU: 2 ONU-SN(RTKGB3558810)	Loss of signal for ONU(LOS)	2025-05-13 11:01:37
Error	PON 0/0/3 ONU: 2 ONU-SN(RTKGB3558810)	Loss of frame for ONU(LOF)	2025-05-13 11:01:37
Warning	PON 0/0/3 ONU: 2 UNI 2 ONU-SN(RTKGB3558810)	The Ethernet port link status is down	2025-05-12 15:40:14
Warning	PON 0/0/1 ONU: 16 UNI 3 ONU-SN(ZTEG11111111)	The Ethernet port link status is down	2025-05-12 15:25:54
Warning	PON 0/0/2	This transceiver is not adapted,The default type will be used	2025-05-10 10:57:42

9.12.2 History Alarm

History Alarm

- Access path: **Maintenance ---->Alarm Manager----> History Alarm.**

Maintenance

Overview Deployment ONU IT Configuration Statistics Maintenance

Alarm level: Please select Please enter Alarm name: Alarm time: Clear time: Reset Search

History Alarm Clear Record

Alarm level	Alarm instance	Alarm name	Alarm time	Clear time
Warning	PON 0/0/8 ONU: 7 UNI 1 ONU-SN(DF18A6C806EE)	The Ethernet port link status is down	2025-05-19 14:13:24	2025-05-19 14:13:32
Warning	PON 0/0/8 ONU: 7 UNI 1 ONU-SN(DF18A6C806EE)	The Ethernet port link status is down	2025-05-19 14:13:21	2025-05-19 14:13:23
Critical	PON 0/0/7	Loss of signal(LOS)	2025-05-19 13:31:54	2025-05-19 13:32:21
Error	PON 0/0/7 ONU: 3 ONU-SN(XPONFA900318)	The ONT Rx power exceeds the high alarm threshold	2025-05-19 13:19:54	2025-05-19 13:31:55
Critical	PON 0/0/7	Loss of signal(LOS)	2025-05-19 13:19:13	2025-05-19 13:19:16
Critical	PON 0/0/7	Loss of signal(LOS)	2025-05-19 13:18:39	2025-05-19 13:19:06
Warning	PON 0/0/3 ONU: 17 UNI 1 ONU-SN(DF18A6C806F9)	The Ethernet port link status is down	2025-05-19 13:18:43	2025-05-19 13:18:45
Error	PON 0/0/7 ONU: 3 ONU-SN(XPONFA900318)	The ONT Rx power exceeds the high alarm threshold	2025-05-19 13:09:55	2025-05-19 13:18:39
Warning	PON 0/0/3 ONU: 17 UNI 1 ONU-SN(DF18A6C806F9)	The Ethernet port link status is down	2025-05-19 13:18:34	2025-05-19 13:18:36
Critical	PON 0/0/3	Loss of signal(LOS)	2025-05-19 09:49:20	2025-05-19 13:18:32
Critical	PON 0/0/7	Loss of signal(LOS)	2025-05-19 13:09:12	2025-05-19 13:09:31
Critical	PON 0/0/7	Loss of signal(LOS)	2025-05-19 09:51:13	2025-05-19 13:09:06
Critical	ge 0/0/1	sni port link down	2025-05-19 11:22:08	2025-05-19 11:22:34
Critical	ne 0/0/1	no port link down	2025-05-19 11:14:31	2025-05-19 11:22:02

Active Alarm Search

- Access path: **Maintenance ---->Alarm Manager----> History Alarm----> click top options bar to search history alarm, such as Alarm level, Alarm type, Alarm name, Alarm time, Clear time options.**

The screenshot shows the 'Maintenance' page in the web GUI. On the left is a sidebar with navigation options: Maintenance, Device Info, Network Diag, Device Upgrade, Access Manager, SNMP, Access Settings, DNS, User Manager, System Time, Backup & Rest..., Syslog, Alarm Manager (selected), Active Alarm, History Alarm, Alarm Settings, Event Manager, and Log Manager. The main area displays a table of alarms with columns for Alarm level, Alarm name, Alarm time, and Clear time. A dropdown menu is open for 'Alarm level', showing options: Critical, Error, and Warning. The table contains 15 rows of alarm data.

Alarm level	Alarm name	Alarm time	Clear time
Warning	PON 0/0/8 ONU: 7 UNI 1 ONU-SNDF18A6 C806EE) The Ethernet port link status is down	2025-05-19 14:13:24	2025-05-19 14:13:32
Warning	PON 0/0/8 ONU: 7 UNI 1 ONU-SNDF18A6 C806EE) The Ethernet port link status is down	2025-05-19 14:13:21	2025-05-19 14:13:23
Critical	PON 0/0/7 Loss of signal(LOS)	2025-05-19 13:31:54	2025-05-19 13:32:21
Error	PON 0/0/7 ONU: 3 ONU-SNXPONFA9003 18) The ONT Rx power exceeds the high alarm threshold	2025-05-19 13:19:54	2025-05-19 13:31:55
Critical	PON 0/0/7 Loss of signal(LOS)	2025-05-19 13:19:13	2025-05-19 13:19:16
Critical	PON 0/0/7 Loss of signal(LOS)	2025-05-19 13:18:39	2025-05-19 13:19:06
Warning	PON 0/0/3 ONU: 17 UNI 1 ONU-SNDF18A6 C806F9) The Ethernet port link status is down	2025-05-19 13:18:43	2025-05-19 13:18:45
Error	PON 0/0/7 ONU: 3 ONU-SNXPONFA9003 18) The ONT Rx power exceeds the high alarm threshold	2025-05-19 13:09:55	2025-05-19 13:18:39
Warning	PON 0/0/3 ONU: 17 UNI 1 ONU-SNDF18A6 C806F9) The Ethernet port link status is down	2025-05-19 13:18:34	2025-05-19 13:18:36
Critical	PON 0/0/3 Loss of signal(LOS)	2025-05-19 09:49:20	2025-05-19 13:18:32
Critical	PON 0/0/7 Loss of signal(LOS)	2025-05-19 13:09:12	2025-05-19 13:09:31
Critical	PON 0/0/7 Loss of signal(LOS)	2025-05-19 09:51:13	2025-05-19 13:09:06
Critical	ge 0/0/1 sri port link down	2025-05-19 11:22:08	2025-05-19 11:22:34
Critical	oe 0/0/1 sri port link down	2025-05-19 11:14:31	2025-05-19 11:22:07

9.12.3 Alarm Settings

Alarm Settings

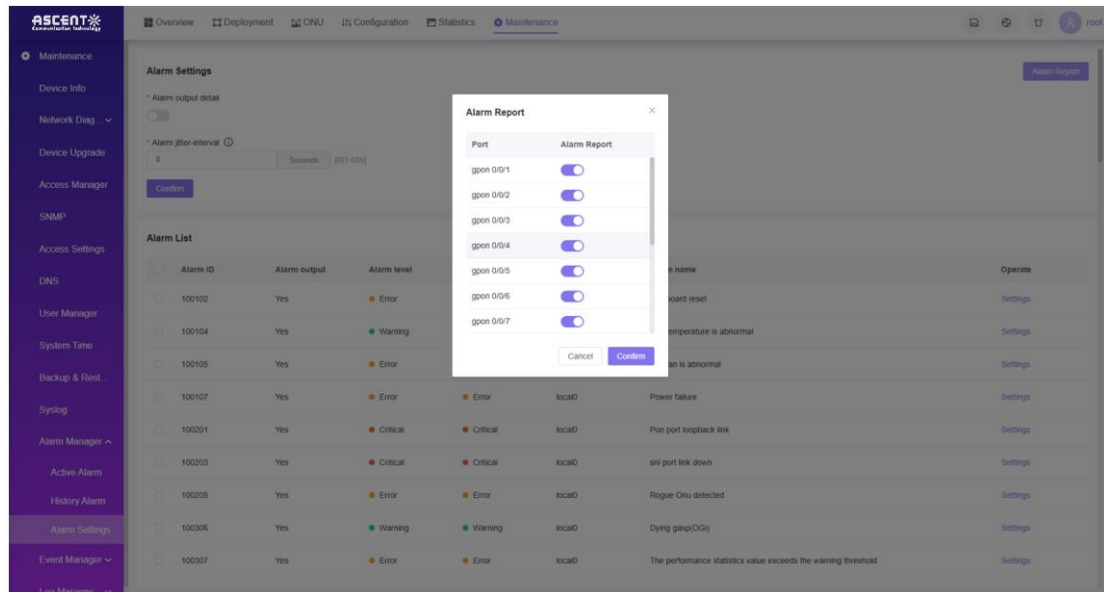
- Access path: **Maintenance** ----> **Alarm Manager**----> **Alarm Settings**----> Set “Alarm output detail” and “Alarm jitter-interval” options.

The screenshot shows the 'Alarm Settings' page. It includes a sidebar with the same navigation options as the previous screenshot. The main area has two sections: 'Alarm Settings' and 'Alarm List'. The 'Alarm Settings' section has a toggle for 'Alarm output detail' (set to 'On') and a field for 'Alarm jitter-interval' (set to '8' seconds). The 'Alarm List' section contains a table with columns: Alarm ID, Alarm output, Alarm level, Default Level, Syslog facility, Alarm name, and Operate. There are 10 rows of alarm data.

Alarm ID	Alarm output	Alarm level	Default Level	Syslog facility	Alarm name	Operate
100102	Yes	Error	Error	local0	The board reset	Settings
100104	Yes	Warning	Warning	local0	The temperature is abnormal	Settings
100105	Yes	Error	Error	local0	The fan is abnormal	Settings
100107	Yes	Error	Error	local0	Power failure	Settings
100201	Yes	Critical	Critical	local0	Pon port loopback link	Settings
100203	Yes	Critical	Critical	local0	sri port link down	Settings
100205	Yes	Error	Error	local0	Rogue Onu detected	Settings
100306	Yes	Warning	Warning	local0	Dying group(DG)	Settings
100307	Yes	Error	Error	local0	The performance statistics value exceeds the warning threshold	Settings

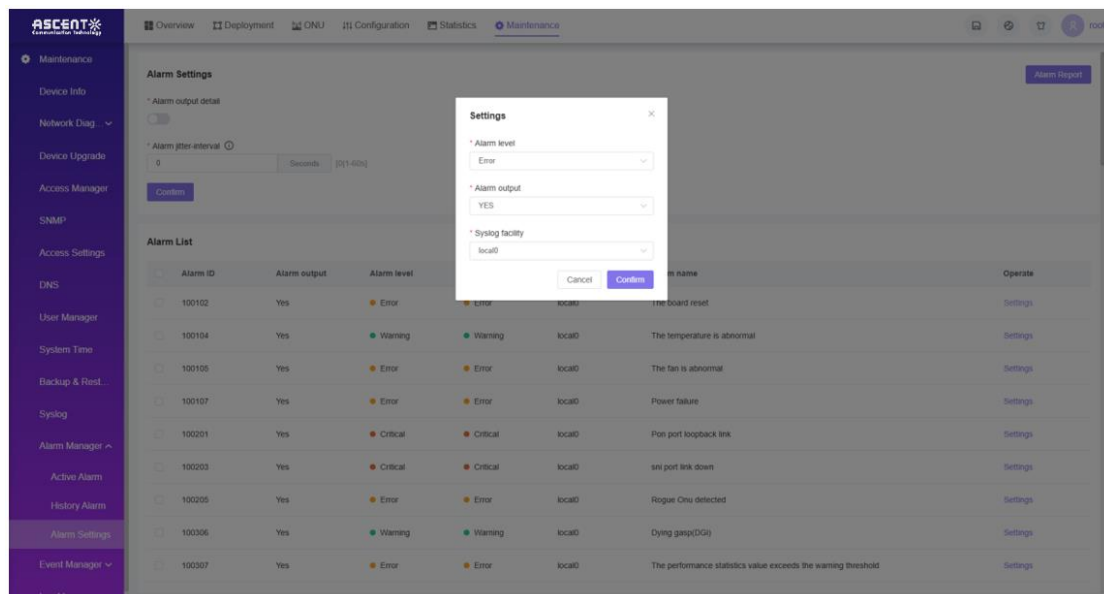
Alarm Report Settings

- Access path: **Maintenance** ----> **Alarm Manager**----> **Alarm Settings**----> click “Alarm Report” button and a [Alarm Report] pop-up window will appear to set port alarm switch.



Alarm List Settings

- Access path: **Maintenance** ----> **Alarm Manager** ----> **Alarm Settings** ----> click **Settings** that the alarm id need to be set and a [Settings] pop-up window will appear.



9.13 Event Manager

The system or management objects detect significant changes in their own status, whether it's an anomaly or normal operation. These changes are displayed as event in the management interface of the event manager. Management objects refer to entities or network elements connected to the event management system.

9.13.1 History Event

History Event

- Access path: **Maintenance ---->Event Manager----> History Event.**

Event Level	Event Instance	Event name	Event time
Warning	PON 0/0/7 ONU: 3 ONU-SN(XPONFA900318)	The CNT online	2025-05-19 13:32:51
Warning	PON 0/0/7 ONU: 3 ONU-SN(XPONFA900318)	The CNT offline	2025-05-19 13:31:55
Warning	PON 0/0/7 ONU: 3 ONU-SN(XPONFA900318)	The CNT online	2025-05-19 13:19:31
Warning	PON 0/0/7 ONU: 3 ONU-SN(XPONFA900318)	The CNT offline	2025-05-19 13:18:39
Warning	PON 0/0/3 ONU: 17 ONU-SN(DF18A6C806F9)	The CNT online	2025-05-19 13:18:33
Warning	PON 0/0/7 ONU: 3 ONU-SN(XPONFA900318)	The CNT online	2025-05-19 13:09:31
Warning	PON 0/0/7 ONU: 19 ONU-SN(HVTC008BC166)	The CNT offline	2025-05-19 09:51:13
Warning	PON 0/0/3 ONU: 16 ONU-SN(D014A65A95E6)	The CNT offline	2025-05-19 09:49:20
Warning	PON 0/0/3 ONU: 16 ONU-SN(D014A65A95E6)	The CNT online	2025-05-19 09:49:18
Warning	PON 0/0/7 ONU: 19 ONU-SN(HVTC008BC166)	The CNT online	2025-05-16 19:30:58
Warning	PON 0/0/7	Stp plugged	2025-05-16 19:30:51
Warning	PON 0/0/8 ONU: 7 ONU-SN(DF18A6C806EE)	The CNT online	2025-05-16 19:07:29
Warning	PON 0/0/8 ONU: 7 ONU-SN(DF18A6C806EE)	The CNT offline	2025-05-16 19:06:59
Warning	PON 0/0/8 ONU: 6 ONU-SN(70A56A8CA0F2)	The CNT online	2025-05-16 18:58:34
Warning	PON 0/0/8 ONU: 5 ONU-SN(D0116A272548)	The CNT online	2025-05-16 18:58:34
Warning	PON 0/0/8 ONU: 7 ONU-SN(DF18A6C806EE)	The CNT online	2025-05-16 18:58:34
Warning	PON 0/0/8	Stp plugged	2025-05-16 18:58:30

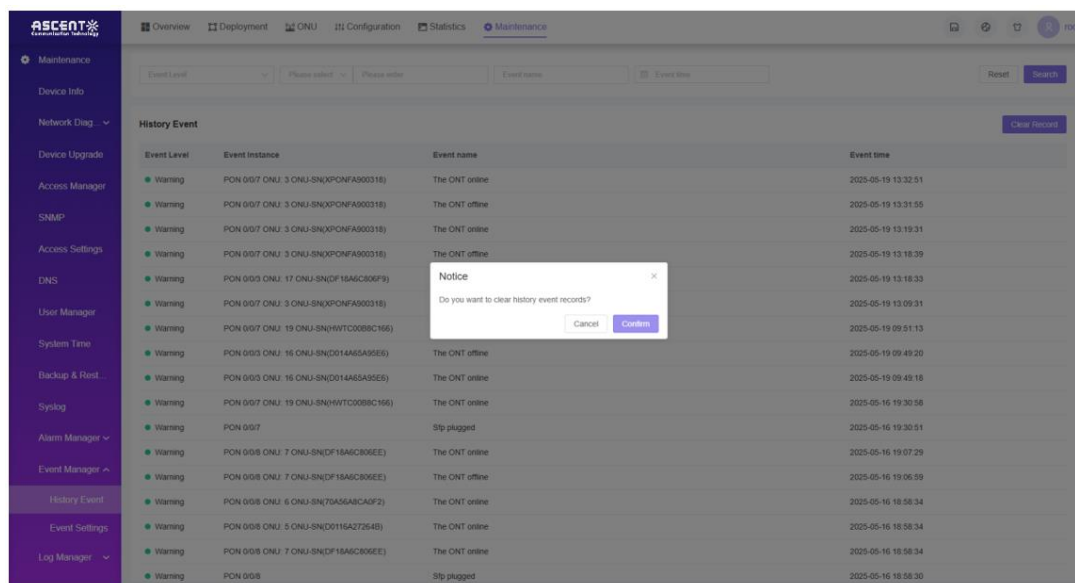
History Event Search

- Access path: **Maintenance ---->Event Manager----> History Event----** click top options bar to search history event, such as Event level, Event type, Event name, Event time options.

Event Level	Event Instance	Event name	Event time
Warning	PON 0/0/7 ONU: 3 ONU-SN(XPONFA900318)	The CNT online	2025-05-19 13:32:51
Warning	PON 0/0/7 ONU: 3 ONU-SN(XPONFA900318)	The CNT offline	2025-05-19 13:31:55
Warning	PON 0/0/7 ONU: 3 ONU-SN(XPONFA900318)	The CNT online	2025-05-19 13:19:31
Warning	PON 0/0/7 ONU: 3 ONU-SN(XPONFA900318)	The CNT offline	2025-05-19 13:18:39
Warning	PON 0/0/3 ONU: 17 ONU-SN(DF18A6C806F9)	The CNT online	2025-05-19 13:18:33
Warning	PON 0/0/7 ONU: 3 ONU-SN(XPONFA900318)	The CNT online	2025-05-19 13:09:31
Warning	PON 0/0/7 ONU: 19 ONU-SN(HVTC008BC166)	The CNT offline	2025-05-19 09:51:13
Warning	PON 0/0/3 ONU: 16 ONU-SN(D014A65A95E6)	The CNT offline	2025-05-19 09:49:20
Warning	PON 0/0/3 ONU: 16 ONU-SN(D014A65A95E6)	The CNT online	2025-05-19 09:49:18
Warning	PON 0/0/7 ONU: 19 ONU-SN(HVTC008BC166)	The CNT online	2025-05-16 19:30:58
Warning	PON 0/0/7	Stp plugged	2025-05-16 19:30:51
Warning	PON 0/0/8 ONU: 7 ONU-SN(DF18A6C806EE)	The CNT online	2025-05-16 19:07:29
Warning	PON 0/0/8 ONU: 7 ONU-SN(DF18A6C806EE)	The CNT offline	2025-05-16 19:06:59
Warning	PON 0/0/8 ONU: 6 ONU-SN(70A56A8CA0F2)	The CNT online	2025-05-16 18:58:34
Warning	PON 0/0/8 ONU: 5 ONU-SN(D0116A272548)	The CNT online	2025-05-16 18:58:34
Warning	PON 0/0/8 ONU: 7 ONU-SN(DF18A6C806EE)	The CNT online	2025-05-16 18:58:34
Warning	PON 0/0/8	Stp plugged	2025-05-16 18:58:30

Clear History Event Record

- Access path: **Maintenance** ----> **Event Manager**----> **History Event**----> click “**Clear Record**” button and a pop-up window will appear to clear history event.

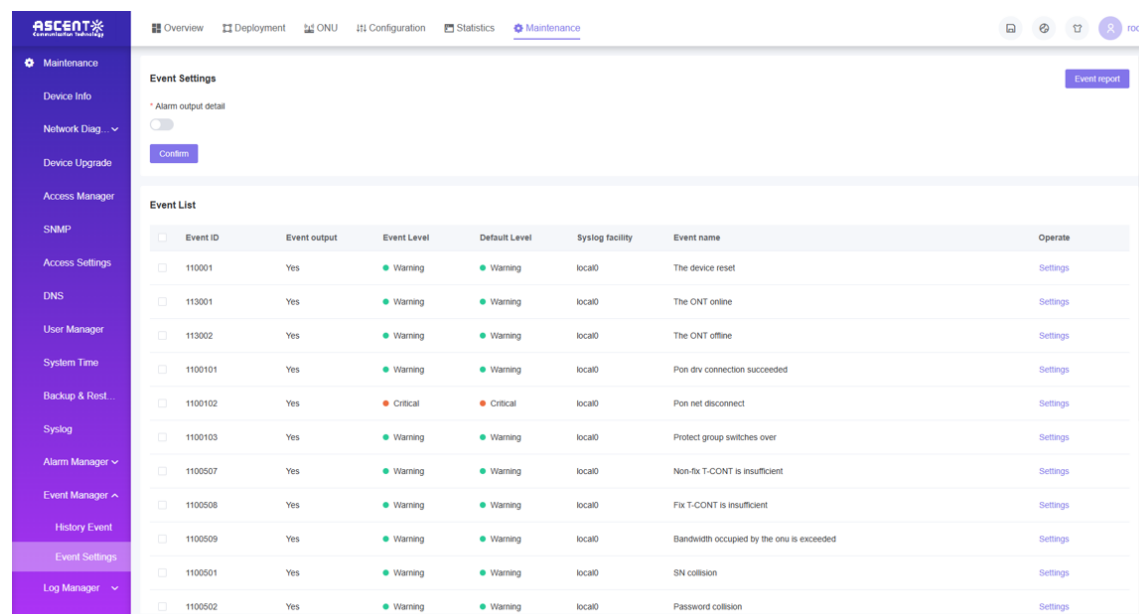


- Click the “**Confirm**” to clear it.

9.13.2 Event Settings

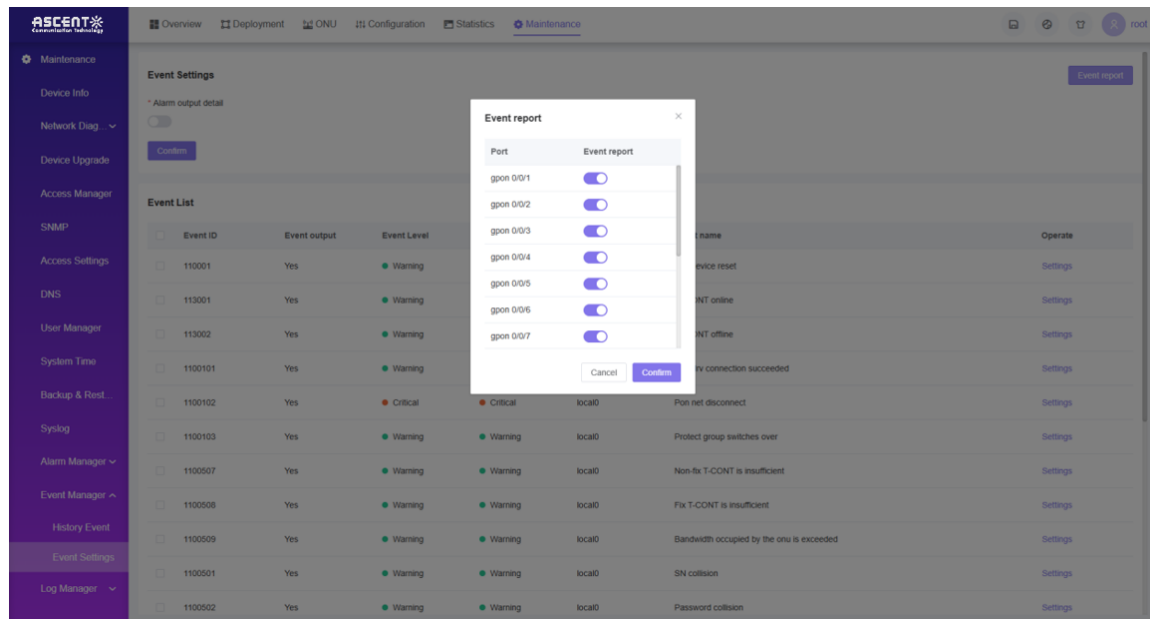
Event Settings

- Access path: **Maintenance** ----> **Event Manager**----> **Event Settings**----> Set “**Event output detail**” switch.



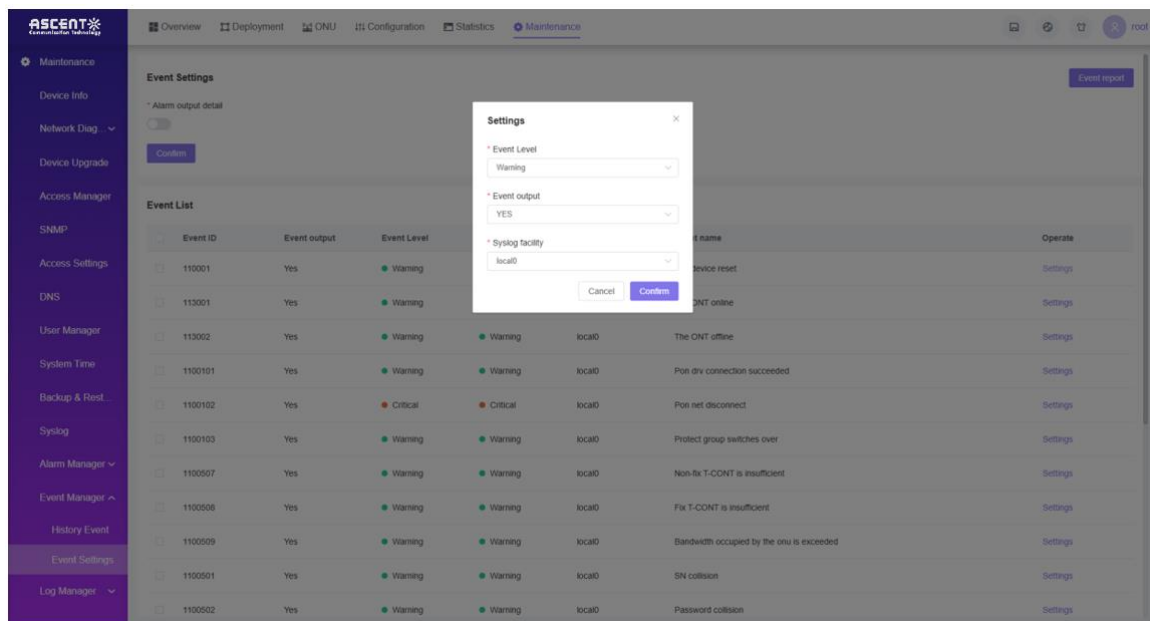
Event Report Settings

- Access path: **Maintenance** ----> **Event Manager**----> **Event Settings**----> click “**Event Report**” button and a [Event Report] pop-up window will appear to set port event switch.



Alarm List Settings

- Access path: **Maintenance** ----> **Event Manager**----> **Event Settings**----> click **"Settings"** that the event id need to be set and a [Settings] pop-up window will appear.



9.14 Log Manager

The device manager system log is an important tool used to monitor and manage the operating status of computer hardware devices, diagnose faults, and ensure system stability. The key functions include real-time monitoring, fault diagnosis, performance analysis, and historical record management.

9.14.1 Device Log

Device Log

- Access path: **Maintenance ---->Log Manager----> Device Log.**

Platform	Log time	Log type	Log level	Log info
CMD	2025-05-12 09:27:33	Operate	Notice	FD1608S-B05/CMD: [Telnet@root@192.168.5.1] cmd: show version
CMD	2025-05-19 15:39:49	Operate	Notice	FD1608S-B05/CMD: [Telnet@root@192.168.5.1] cmd: show mac-address all
CMD	2025-05-19 15:37:31	Operate	Notice	FD1608S-B05/CMD: [Telnet@root@192.168.5.1] cmd: show mac-address all
CMD	2025-05-19 15:33:27	Operate	Notice	FD1608S-B05/CMD: [Telnet@root@192.168.5.1] cmd: show mac-address all
CMD	2025-05-19 15:32:37	Operate	Notice	FD1608S-B05/CMD: [Telnet@root@192.168.5.1] cmd: show current-config section ont 0/0 8 7
CMD	2025-05-19 15:32:36	Login	Notice	FD1608S-B05/CMD: [Telnet@root@192.168.5.1] cmd: login
CMD	2025-05-19 15:32:36	Login	Notice	FD1608S-B05/CMD: [Telnet@root@192.168.5.1] cmd: login
CMD	2025-05-19 15:32:28	Operate	Notice	FD1608S-B05/CMD: [Telnet@root@192.168.5.1] cmd: show ont info all
CMD	2025-05-19 15:32:26	Operate	Notice	FD1608S-B05/CMD: [Telnet@root@192.168.5.1] cmd: conf
CMD	2025-05-19 15:32:25	Operate	Notice	FD1608S-B05/CMD: [Telnet@root@192.168.5.1] cmd: en
CMD	2025-05-19 15:32:25	Login	Notice	FD1608S-B05/CMD: [root@192.168.5.1] login via Telnet successfully
Web	2025-05-19 14:51:14	Other	Error	FD1608S-B03/WEB: web login user root, return 0 (web_login_post_v1.1635)
Web	2025-05-19 14:12:21	Other	Error	FD1608S-B03/WEB: web login user root, return 0 (web_login_post_v1.1635)
Web	2025-05-19 13:54:22	Other	Error	FD1608S-B03/WEB: web login user root, return 0 (web_login_post_v1.1635)
CMD	2025-05-19 13:34:22	Login	Notice	FD1608S-B05/CMD: [Telnet@root@192.168.5.1] cmd: login
Other	2025-05-19 13:32:53	Other	Error	FD1608S-B03/GPON: ERROR: [omc_bridge_sync:25733] return -1
Other	2025-05-19 13:32:27	Other	Error	FD1608S-B03/PAL: pon(s) onu 6 deactive, is may be wrong state: 7 (pal_gpon_onu_deactive:1419)

Device Log Search

- Access path: **Maintenance ---->Log Manager----> Device Log----** click top options bar to search device log, such as Platform, Log type, Log level, Log info, Log time options.

Platform	Log time	Log type	Log level	Log info
Web				
CMD				
Other				
CMD	2025-05-12 09:27:33	Operate	Notice	FD1608S-B05/CMD: [Telnet@root@192.168.5.1] cmd: show version
CMD	2025-05-19 15:39:49	Operate	Notice	FD1608S-B05/CMD: [Telnet@root@192.168.5.1] cmd: show mac-address all
CMD	2025-05-19 15:37:31	Operate	Notice	FD1608S-B05/CMD: [Telnet@root@192.168.5.1] cmd: show mac-address all
CMD	2025-05-19 15:33:27	Operate	Notice	FD1608S-B05/CMD: [Telnet@root@192.168.5.1] cmd: show mac-address all
CMD	2025-05-19 15:32:37	Operate	Notice	FD1608S-B05/CMD: [Telnet@root@192.168.5.1] cmd: show current-config section ont 0/0 8 7
CMD	2025-05-19 15:32:36	Login	Notice	FD1608S-B05/CMD: [Telnet@root@192.168.5.1] cmd: login
CMD	2025-05-19 15:32:36	Login	Notice	FD1608S-B05/CMD: [Telnet@root@192.168.5.1] cmd: login
CMD	2025-05-19 15:32:28	Operate	Notice	FD1608S-B05/CMD: [Telnet@root@192.168.5.1] cmd: show ont info all
CMD	2025-05-19 15:32:26	Operate	Notice	FD1608S-B05/CMD: [Telnet@root@192.168.5.1] cmd: conf
CMD	2025-05-19 15:32:25	Operate	Notice	FD1608S-B05/CMD: [Telnet@root@192.168.5.1] cmd: en
CMD	2025-05-19 15:32:25	Login	Notice	FD1608S-B05/CMD: [root@192.168.5.1] login via Telnet successfully
Web	2025-05-19 14:51:14	Other	Error	FD1608S-B03/WEB: web login user root, return 0 (web_login_post_v1.1635)
Web	2025-05-19 14:12:21	Other	Error	FD1608S-B03/WEB: web login user root, return 0 (web_login_post_v1.1635)
Web	2025-05-19 13:54:22	Other	Error	FD1608S-B03/WEB: web login user root, return 0 (web_login_post_v1.1635)
CMD	2025-05-19 13:34:22	Login	Notice	FD1608S-B05/CMD: [Telnet@root@192.168.5.1] cmd: login
Other	2025-05-19 13:32:53	Other	Error	FD1608S-B03/GPON: ERROR: [omc_bridge_sync:25733] return -1
Other	2025-05-19 13:32:27	Other	Error	FD1608S-B03/PAL: pon(s) onu 6 deactive, is may be wrong state: 7 (pal_gpon_onu_deactive:1419)

Export Logs

- Access path: **Maintenance** ----> **Log Manager**----> **Device Log**----> click **"Export Logs"** button and the logs will be downloaded.

The screenshot shows the 'Device Log' page in the web GUI. The left sidebar contains a menu with 'Log Manager' expanded, showing 'Device Log' and 'Log Settings'. The main area displays a table of logs with columns: Platform, Log time, Log type, Log level, and Log info. At the top right of the log table, there are two buttons: 'Export Logs' (highlighted with a red box) and 'Clear Record'.

Platform	Log time	Log type	Log level	Log info
CMD	2025-05-12 09:27:33	Operate	Notice	FD1608S-B0/S/CMD: [Telnet@root@192.168.5.1] cmd: show version
CMD	2025-05-19 15:39:49	Operate	Notice	FD1608S-B0/S/CMD: [Telnet@root@192.168.5.1] cmd: show mac-address all
CMD	2025-05-19 15:37:31	Operate	Notice	FD1608S-B0/S/CMD: [Telnet@root@192.168.5.1] cmd: show mac-address all
CMD	2025-05-19 15:33:27	Operate	Notice	FD1608S-B0/S/CMD: [Telnet@root@192.168.5.1] cmd: show mac-address all
CMD	2025-05-19 15:32:37	Operate	Notice	FD1608S-B0/S/CMD: [Telnet@root@192.168.5.1] cmd: show current config section ont 0/0/8 7
CMD	2025-05-19 15:32:36	Login	Notice	FD1608S-B0/S/CMD: [File@unknown.86] logout
CMD	2025-05-19 15:32:36	Login	Notice	FD1608S-B0/S/CMD: [File@unknown.86] logout
CMD	2025-05-19 15:32:28	Operate	Notice	FD1608S-B0/S/CMD: [Telnet@root@192.168.5.1] cmd: show ont info all
CMD	2025-05-19 15:32:25	Operate	Notice	FD1608S-B0/S/CMD: [Telnet@root@192.168.5.1] cmd: conf
CMD	2025-05-19 15:32:25	Operate	Notice	FD1608S-B0/S/CMD: [Telnet@root@192.168.5.1] cmd: en
CMD	2025-05-19 15:32:25	Login	Notice	FD1608S-B0/S/CMD: [root@192.168.5.1.85] login via Telnet successfully
Web	2025-05-19 14:51:14	Other	Error	FD1608S-B0/S/WEB: web login user root, return 0 (web_login_post_v1.1635)
Web	2025-05-19 14:12:21	Other	Error	FD1608S-B0/S/WEB: web login user root, return 0 (web_login_post_v1.1635)
Web	2025-05-19 13:54:22	Other	Error	FD1608S-B0/S/WEB: web login user root, return 0 (web_login_post_v1.1635)
CMD	2025-05-19 13:34:22	Login	Notice	FD1608S-B0/S/CMD: [Telnet@root@192.168.5.1.85] logout
Other	2025-05-19 13:32:53	Other	Error	FD1608S-B0/S/GPON: ERROR: [ponci_bridge_sync25733] return -1
Other	2025-05-19 13:32:27	Other	Error	FD1608S-B0/S/PAL: pon(s) onu 6 deactive, is may be wrong, state: 7 (pal_gpon_onu_deactive:1419)

Clear Device Log Record

- Access path: **Maintenance** ----> **Log Manager**----> **Device Log**----> click **"Clear Record"** button and a pop-up window will appear to clear the logs.

The screenshot shows the 'Device Log' page with a 'Notice' pop-up window in the center. The pop-up window has the text 'Do you want to clear log records?' and two buttons: 'Cancel' and 'Confirm'. The 'Clear Record' button in the top right of the log table is highlighted with a red box.

- Click the **"Confirm"** to clear it.

9.14.2 Log Settings

Log Settings

- Access path: **Maintenance** ----> **Log Manager**----> **Log Settings**----> Set log level, such as “Logfile logging level”, “Console logging level”, “Monitor logging level”.

The screenshot shows the 'Log Settings' page in the web GUI. The left sidebar contains a menu with 'Log Settings' selected. The main content area has two sections. The 'Log Settings' section, highlighted with a red box, contains three dropdown menus: 'Logfile logging level' (set to Notice), 'Console logging level' (set to Informational), and 'Monitor logging level' (set to Informational). Below these is a 'Confirm' button. The 'Automatic Log Backup' section contains fields for 'Server type' (FTP and TFTP), 'Server IP' (placeholder: Please enter), 'Log file name' (placeholder: Please enter), and 'Backup time interval' (set to 60 minutes). There is also a 'Confirm' button for this section.

Automatic Log Backup

- Access path: **Maintenance** ----> **Log Manager**----> **Log Settings**----> Set Automatic Log Backup, such as “Server type”, “Server IP”, “Log file name”, “Auto - backup Time - based Types”, “Backup time interval”.

This screenshot is identical to the one above, showing the 'Log Settings' page. The 'Automatic Log Backup' section is highlighted with a red box. It contains the same fields: 'Server type' (FTP, TFTP), 'Server IP' (placeholder: Please enter), 'Log file name' (placeholder: Please enter), and 'Backup time interval' (set to 60 minutes). A 'Confirm' button is located at the bottom of this section.



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