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Chapter 1 System Description

1.1 Overview

1.1.1 OLT Introduction

The WEB management user manual is for the OLTs listed in Table 1-1.

After you have completed installation, connection and commissioning of the equipment, you can start on configuring various services and functions for the equipment.

Table 1-1 OLT interfaces

<table>
<thead>
<tr>
<th>Products</th>
<th>2 ports EPON OLT</th>
<th>4 ports EPON OLT</th>
<th>8 ports EPON OLT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chassis</td>
<td>Rack 1U 19 inch standard box</td>
<td>1U 19 inch standard box</td>
<td>1U 19 inch standard box</td>
</tr>
<tr>
<td>1000M Uplink Port QTY</td>
<td>4</td>
<td>8</td>
<td>16</td>
</tr>
<tr>
<td>Copper</td>
<td>2*10/100/1000M auto-negotiation</td>
<td>4*10/100/1000M auto-negotiation</td>
<td>8*10/100/1000M auto-negotiation</td>
</tr>
<tr>
<td>SFP (Independent)</td>
<td>2*SFP</td>
<td>4*SFP</td>
<td>4<em>SFP and 4</em>SFP+ (SFP+ is compatible with 10GE)</td>
</tr>
<tr>
<td>EPON Port QTY</td>
<td>2</td>
<td>4</td>
<td>8</td>
</tr>
<tr>
<td>Physical Interface</td>
<td>SFP Slots</td>
<td>SFP Slots</td>
<td>SFP Slots</td>
</tr>
<tr>
<td>Management Ports</td>
<td>1<em>10/100BASE-T out-band port(AUX), 1</em>CONSOLE port</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Management Mode</td>
<td>SNMP, WEB, Telnet and CLI</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1.1.2 PC System Requirement

Table 1-2 PC System requirement

<table>
<thead>
<tr>
<th>CPU</th>
<th>Memory</th>
<th>DISK</th>
<th>Video Card</th>
<th>Operating</th>
</tr>
</thead>
</table>

### Frequency above 2GHz

<table>
<thead>
<tr>
<th>Frequency above 2GHz</th>
<th>2GB Or above</th>
<th>10GB disk space</th>
<th>65000 color resolving capability</th>
<th>1024*768 and above</th>
<th>System</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Windows2008</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Windows XP</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Windows 7</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Windows 8</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Windows 10</td>
</tr>
</tbody>
</table>

### 1.2 Connection

Connect the OLT AUX port to IP network. The OLT default management IP is **192.168.8.100**.

Please set your PC IP to **192.168.8.XXX** (e.g. **192.168.8.123**).
Chapter 2 OLT Application Status

2.1 Login

Follow the steps to login:

1. Conform “1.2 Connection” to connect;
2. The device default IP address is 192.168.8.100;
3. Open your web browser, type the device IP in address bar;
4. Entry of the username and password will be prompted. Enter the default login User Name and Password. Both the username and password are "admin" by default.

![OLT Web Management Interface](image_url)

Figure 2-1: Login

2.2 Status

This part shows the main information and the service status of OLT.
2.2.1 Device

It's about the OLT basic information and the real-time information. Click **Status → Device** to get the information.

### 2.2.1.1 Basic Info

This part shows the OLT information such as system name, serial number, hardware version, firmware version, MAC address and system time. The system name can be modified if need.

![Device Information](image)

**Figure 2-2: Device Information**

### 2.2.1.2 Realtime Info

This part shows the real-time information, including the CPU load, Memory load, Temperature and Running time.
2.2.2 Port

This part is about the OLT GE port and PON port information.

Click **Status** → **Port** → **GE Info** to show the GE port link status, speed and the packets statistics.

![Figure 2-4: GE Port Information](image)

The **PON Info** will show the optical parameters exactly.
2.2.3 MAC

**MAC Info** is to show the learning MAC address of OLT. All the MAC addresses of all the ports with VLAN can be shown.

2.2.4 IGMP

Click **Status → IGMP → Group Member**, IGMP Group Member (both the dynamic and static IGMP Group) can be shown.
2.2.5 RSTP

The OLT is disabling RSTP by default. When enable the RSTP, the RSTP global information and port information can be shown by click **Status → RSTP**. See Figure 2-8 and Figure 2-9.

Figure 2-8: RSTP Global Information
2.2.6 DHCP

Click **Status → DHCP**, the DHCP Server Lease and DHCP Snooping Bind List will be shown as Figure 2-10 and Figure 2-11.
2.2.7 ONU

When ONU had connected to OLT, it should be authenticated first. This page shows about the ONU authentication list. It will be bound a profile ID 0 when ONU is authenticated successfully. Click **Status**→**ONU**, as shown in Figure 2-12 and Figure 2-13.

![Figure 2-12: ONU Authentication List](image)

![Figure 2-13: ONU Profile Bind List](image)
2.2.8 Alarm

Click **Status→Alarm** to view system event and alarm information.

![OLT Web Management Interface](image)

Figure 2-14: Alarm Events

The events and alarms levels are listed in Table 2-1.

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
<th>LEVEL</th>
<th>ITEM</th>
<th>DESCRIPTION</th>
<th>LEVEL</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ALARM</strong></td>
<td></td>
<td></td>
<td><strong>EVENT</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OLT Port Up down</td>
<td>warning</td>
<td></td>
<td>System Config Save</td>
<td>warning</td>
<td></td>
</tr>
<tr>
<td>OLT Port Loopback</td>
<td>warning</td>
<td></td>
<td>System Config Erase</td>
<td>warning</td>
<td></td>
</tr>
<tr>
<td>OLT Temp High</td>
<td>major</td>
<td></td>
<td>Download File Success</td>
<td>major</td>
<td></td>
</tr>
<tr>
<td>OLT Temp Low</td>
<td>major</td>
<td></td>
<td>Upload File Success</td>
<td>major</td>
<td></td>
</tr>
<tr>
<td>OLT CPU Usage High</td>
<td>major</td>
<td></td>
<td>Upgrade File Success</td>
<td>major</td>
<td></td>
</tr>
<tr>
<td>OLT MEM Usage High</td>
<td>major</td>
<td></td>
<td>PON Register</td>
<td>critical</td>
<td></td>
</tr>
<tr>
<td>OLT FAN</td>
<td>major</td>
<td></td>
<td>PON Enable</td>
<td>major</td>
<td></td>
</tr>
<tr>
<td>Download File Failed</td>
<td>major</td>
<td></td>
<td>PON LOS Recovery</td>
<td>major</td>
<td></td>
</tr>
<tr>
<td>Upload File Failed</td>
<td>major</td>
<td></td>
<td>ONU is Registering</td>
<td>major</td>
<td></td>
</tr>
<tr>
<td>Upgrade File Failed</td>
<td>major</td>
<td></td>
<td>ONU Link Discover</td>
<td>major</td>
<td></td>
</tr>
<tr>
<td>PON Disable</td>
<td>major</td>
<td></td>
<td>ONU AUTH Success</td>
<td>major</td>
<td></td>
</tr>
<tr>
<td>PON TX Power High</td>
<td>major</td>
<td></td>
<td>ONU DEAUTH Success</td>
<td>major</td>
<td></td>
</tr>
<tr>
<td>PON TX Power Low</td>
<td>major</td>
<td></td>
<td>ONU Upgrade Over</td>
<td>major</td>
<td></td>
</tr>
<tr>
<td>PON TX Bias High</td>
<td>major</td>
<td></td>
<td>ONU finish the register and AUTH</td>
<td>major</td>
<td></td>
</tr>
<tr>
<td>PON TX Bias Low</td>
<td>major</td>
<td></td>
<td>System Reset</td>
<td>critical</td>
<td></td>
</tr>
<tr>
<td>PON VCC High</td>
<td>major</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Event Description</td>
<td>Severity</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---------------------------</td>
<td>----------</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PON VCC Low</td>
<td>major</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PON Temp High</td>
<td>major</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PON Temp Low</td>
<td>major</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PON LOS</td>
<td>major</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ONU Deregister</td>
<td>major</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ONU Link LOST</td>
<td>major</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ONU Illegal Register</td>
<td>major</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ONU AUTH Failed</td>
<td>major</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ONU MAC Conflict</td>
<td>major</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ONU LOID Conflict</td>
<td>major</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ONU Critical Event</td>
<td>major</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dying Gasp</td>
<td>major</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ONU Link Fault</td>
<td>major</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ONU Link Event</td>
<td>major</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ONU Event Notific</td>
<td>major</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ONU Laser Always On</td>
<td>major</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PON Deregister</td>
<td>critical</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PON Register Failed</td>
<td>critical</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Chapter 3 OLT Basic Setting

This section is about the basic service of OLT configuration.

3.1 VLAN

3.1.1 New VLAN

Click Basic Setting → VLAN → New VLAN to create new VLAN.

![Create New VLAN]

Figure 3-1: Create New VLAN

3.1.2 Port VLAN

Assign the ports to the VLANs you created. Here, you can choose the tag or untag VLAN mode. Click Basic Setting → VLAN → Port VLAN as shown in Figure 3-2.
3.1.3 QinQ

To configure the port mode VLAN translation or double VLAN tag, click **Basic Setting → VLAN → QinQ**, as shown in Figure 3-3.

3.1.4 VLAN IP

Select the existing VLAN and set an IP address for this VLAN, as shown in
3.2 Port

GE ports and PON ports basic service can be configured here.

3.2.1 GE Setup

Select Basic Setting → Port → GE Setup, you can configure the uplink GE port parameters, as shown in Figure 3-5.
3.2.2 PON Setup

Select Basic Setting\rightarrow Port\rightarrow PON Setup, you can configure the PON port parameters, as shown in Figure 3-6.

3.2.3 Channel Group

Select Basic Setting\rightarrow Port\rightarrow Channel Group to assign and configure a uplink physical interface to an Ether Channel. When a traffic link can't be used suddenly, this traffic link will switch to another link automatically. The group range is from 1 to 4. Each group can add 4 ports maximally. Only GE ports can be added in the channel groups.
3.2.4 Mirroring

Select **Basic Setting → Port → Mirroring** to create monitor session. Each monitor session can be set with one destination port and up to 8 source ports.

3.3 QOS

The EPON OLT supports layer 2802.1p and layer 3 DSCP QOS. Frames can be placed in different queues and serviced via Strict
Priority (SP), Weighted Round Robin (WRR) and SP+WRR. Select **Basic Setting** → **QOS** to set QOS configuration, as shown in Figure 3-8.

![Figure 3-9: QOS Configuration](image)

### 3.4 MAC

The MAC aging time is 300s by default. You can add a static MAC address manually with VLAN and port.

![Figure 3-10: MAC Configuration](image)
3.5 Security (ACL)

3.5.1 Security Filter

This part is about the security of OLT. It can permit or deny the clients access. Each access list can support 3 rules.

![Security Filter](image)

Figure 3-11: Security Filter

3.5.2 Effect Filter

Bind the access list to the ports then it can take effect. Each access list can be bound several ports.
Figure 3-12: Bind Security Filter
Chapter 4 Application

This chapter is about the protocol service configuration.

4.1 IGMP

4.1.1 Global Setup

To enable the IGMP snooping mode, click Application→IGMP→Global Setup.

![IGMP Snooping Status](image)

Figure 4-1: IGMP Snooping Status

4.1.2 Port Setup

Click Application→IGMP→Port Setup to set group limit value, enable/disable fast leave and filter.
4.1.3 Port User VLAN

Click Application → IGMP → Port User VLAN to configure the user VLAN and group VLAN.

4.1.4 Port Mrouter

To add a port to the IGMP multicast routing group, click Application → IGMP → Port Mrouter, as shown in Figure 4-1.
4.1.5 Static Group

Add an IGMP group manually. Always choose the PON port as the group port.

4.2 RSTP

4.2.1 Global Setup

RSTP is disable by default, click Application→RSTP→Global Setup to enable.
4.2.2 Port Setup

The RSTP ports parameter can be set by selecting Application → RSTP → Port Setup.

4.3 ARP Proxy

When serves as a ARP proxy, the OLT processes the ARP request message via configuring the VLAN as the layer 3 interface. The VLAN ID configuration value ranges from 1 to 4085.

First, configure the VLAN IP.
Then enable the ARP proxy.

4.4 DHCP

OLT supports 3 services of DHCP: DHCP server, DHCP relay, DHCP Snooping.
4.4.1 DHCP Server

When enable OLT DHCP server, the connecting devices will obtain an IP address. Click **Application → DHCP → Server** to configure the DHCP Server.

![Figure 4-10: DHCP Server](image)

4.4.2 DHCP Relay

When the DHCP server and the clients are not in the same subnet, DHCP relay can help the clients get the IP address from the server. The relay server IP address network segment should be the same as the DHCP server.

![Figure 4-11: DHCP Relay](image)
4.4.3 DHCP Snooping Global

To prevent the DHCP message attacking and protect your network to get a useful IP address, it can deny the DHCP offers packets. DHCP Snooping is used for denying the DHCP offers packets. The DHCP server is forbided, which can not allocate the IP address successfully. Click Snooping Global to enable DHCP Snooping.

Figure 4-12: DHCP Snooping Global

4.4.4 DHCP Snooping Port

The DHCP snooping ports are untrust by default. Click Snooping Port to configure, as shown in Figure 4-12.
4.4.5 DHCP Snooping Bind

Fill in the MAC address, choose the VLAN ID, port ID and the lease time.

Click "Add", it will create a DHCP snooping bind list.

4.5 Static Route

OLT supports static route L3 function. Click Static Route to configure, as
shown in Figure 4-14.

Figure 4-15: Static Route
Chapter 5 Maintenance

This chapter is about the global management of OLT.

5.1 User Manage

Two kinds of users have been defined, Normal and Admin. There are some limitations to normal user, and admin user has no limits to full function of OLT. The default account member is Admin level.

![User Manage](image)

Figure 5-1: User Manage

5.2 Device Manage

5.2.1 Firmware Upgrade

You can upgrade the OLT firmware by WEB, do not need TFTP server. After finish upgrading, it will reboot automatically. Click **Maintenance → Device Manage** to upgrade firmware.
5.2.2 Device Reboot

Click Maintenance → Device Manage → Device Reboot, it will reboot the entire system. (Please save the configuration first)

5.2.3 Config File

Click Maintenance → Device Manage → Config File, you can backup configuration, restore configuration, restore factory defaults and save configuration.
5.3 Alarm

Show the alarm configuration list.

5.3.1 Alarm

It contains all the alarms of OLT. User can choose the different alarms to "Print", "Record", "Trap" and "Remote".
5.3.2 Threshold Alarm

Configure the temperature threshold, CPU-usage threshold and memory-usage threshold.

![Threshold Alarm Configuration](image)

**Figure 5-6: Threshold Alarm**

5.3.3 PON Optical Alarm

It is about the PON optical parameter threshold alarm configuration.

![PON Optical Alarm Configuration](image)

**Figure 5-7: PON Threshold Alarm**

5.3.4 Syslog Server

Configure the server of OLT remote system logs.
5.4 SNMP

5.4.1 SNMP V1/V2

The EPON OLT supports SNMP v1/v2, click Maintenance→SNMP→SNMP V1/V2 to configure.
5.4.2 SNMP V3

The EPON OLT also supports SNMP V3, as shown in Figure 5-10.

![Figure 5-10: SNMP V3](image)

5.4.3 SNMP V3 Trap

Configure or remove the Trap messages of the target host IP address.

![Figure 5-11: SNMP V3 Trap](image)

5.5 AUX IP

AUX port is out band management port. The IP address is out band
management IP, default IP address is 192.168.8.100. User can change it if needed.

![Figure 5-12: AUX IP](image)

### 5.6 RTC

Select Maintenance → RTC to set system time. The default system time is the OLT firmware release time.

![Figure 5-13: RTC Configuration](image)

### 5.7 FAN

The fans can be controlled to turn on/off, or turn on automatically.
### Figure 5-14: FAN Configuration

<table>
<thead>
<tr>
<th>FAN Configuration</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Fan Temperature</td>
<td>20-40°C</td>
</tr>
<tr>
<td>Fan Mode</td>
<td>Auto, Speed,</td>
</tr>
</tbody>
</table>
Chapter 6 ONU Profile

This chapter is about the ONU profile configuration. It is designed for batch ONU management by OLT.

6.1 DBA Profile

The default system will have an id 0 DBA template, this template parameters cannot be modified. All ONU will be bound the template. When the user bind manually, the new template will take effect.

![Figure 6-1: Add a DBA Profile](image1)

![Figure 6-2: DBA Profile Configure](image2)
6.2 Server Profile

Create a server profile, it can be shown in the table when user select the profile ID.

The server profile configuration contain ONU PON configuration, port configuration, multicast configuration, etc.

Figure 6-3: Add Server Profile

Figure 6-4: Server Profile Configuration
6.3 VoIP Profile

As the above, create a profile first, and it will be shown in the table when user select the profile ID.

Figure 6-5: Add VoIP Profile

Figure 6-6: Server Profile Configuration

6.4 Alarm Profile

As the above, create a profile first, and it will be shown in the table when user select the profile ID.
The alarm profile contains ONU global threshold alarm, PON alarm, port alarm, pots alarm, etc.

**6.5 Bind Profile**

The DBA profile, server profile, VoIP profile, alarm profile can be bound to the ONU.
Figure 6-9: Bind Profile Configuration
Chapter 7 ONU

This chapter is about configuring a single ONU by OLT.

7.1 Authentication

7.1.1 ONU authentication

There are 4 modes of the ONU authentication. The default mode is disable.

![ONU Authentication](image)

Figure 7-1 ONU Authentication

7.1.2 MAC List

When the ONU authentication mode is MAC mode, only ONUs with their MAC on the white list can register to the OLT. The black MAC list ONU cannot register whatever the mode.
7.1.3 LOID List

When the authentication mode is LOID, only the ONUs on the LOID list can register to the OLT.

7.1.4 ONU Action

Manage the ONU unauth, deregister, reset. User can operate one of the
ONU, or a batch of ONUs in the same PON port.

Figure 7-4 ONU Action

7.2 ONU Global

In this section, all the global configuration of ONU can be operated.

Figure 7-5 ONU Global Configuration
7.3 ONU Port

All the port services can be configured. It contains port VLAN, multicast, monitor and so on.

Figure 7-6 ONU Port Configuration

7.4 ONU VoIP

Configure the HGU ONU VoIP parameter, including H.248 protocol and SIP protocol configuration.

Figure 7-7 ONU VoIP Configuration
7.5 ONU Alarm

In this page, user can view the chosen ONU alarm information, the alarm info contains ONU global alarm info, PON alarm info, port alarm info, POTs alarm info, E1 alarm info.

![ONU Alarm Information](image.png)

**Figure 7-8 ONU Alarm Information**
Chapter 8 Configuration Examples

8.1 Internet With VLAN 100

a. OLT configuration

Step 1: Create a new VLAN.

Step 2: Add the VLAN to GE port and PON port.
Step 3: Configure the default VLAN ID (PVID) in untag port.

b. ONU configuration

Step 4: Choose the VLAN mode and set the PVID value.

8.2 IPTV With VLAN 200

a. OLT configuration
Step 1: Create a new VLAN.

Step 2: Add the VLAN to GE port and PON port.

Step 3: Enable the IGMP status.
Step 4: Add the IGMP user VLAN and group VLAN

Step 5: Add the M-router in GE port

b. ONU configuration

Step 6: Choose the VLAN mode and set the PVID value.
Step 7: Configuration multicast VLAN

Step 8: Configure the IGMP VLAN tagstrip mode
8.3 VoIP With VLAN 300

a. OLT Configuration

Step 1: Create a new VLAN

Step 2: Add the VLAN to GE port and PON port.
b. ONU Configuration

Step 3: Configure the VoIP global parameter

Step 4: Setup the SIP configuration
Step 5: Fill in the user account and password
Thank you!