

PT-E2500 Series EPON OLT

WEB GUIDE





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Chapter 1 System Description

1.1 OLT Introduction

EPON OLT provides various types of network interface, service interface

and maintenance interface to adapt to different networking

environments. All the interfaces could comply with the relevant

telecommunications standards.

Table	1-1	lists	all	OLT	interface	types.
-------	-----	-------	-----	-----	-----------	--------

Туре	Interface	Remarks
PON Interface	PON optical interface	The point-to-multipoint
		architecture and the passive
		fiber transmission mode are
		used. The downstream rate
		and upstream rate can reach
		up to1.25Gbps.
Uplink port	Support GE copper	RJ45 connect the uplink port
interface	interface and optical	To Ethernet, or add optical
	interface	model connecting the optical
		uplink port to Ethernet.



Maintenance	Console port	Console port is used for local
interface	AUX port	maintenance.
		AUX port is used for remote
		maintenance.

1.2 Connection

Manage the OLT via WEB by connecting the OLT AUX port to Ethernet.

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

One of the ways to configure device is by the web interface. The

following steps will enable you 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
Username admin
Password •••••
Submit Cancel
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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.

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.

OLT Web Manage	ement Interface						admin 🕝
Statuc	Status	Basic Setting	Application	Maintenar	nce C	NU Profile	ONU
Status	Device	Port MA	AC IGMP	RSTP	DHCP	ONU	Alarm
Basic Info Realtime Info	Device Basic Inf	0					
	System Name	epon-olt					
	Serial Number	V1603120090					
	Hardware Version	eight epon olt platfo	orm				
	Firmware Version	V2.03.13					
	MAC Address	80:14:A8:23:D6:F9					
	System Time	2000 /1 /1 0:59:15					
	Submit						

Figure 2-2: Device Information

2.2.1.2 Realtime Info

This part shows the real-time information, include the CUP load,

Memory load, Temperature and running time. All the information is real-time.



OLT Web Manag	ement Interfa	ce						adn	nin 🕞
Status	Status	Basic S	etting	Application	Maint	enance	ONU Profile		ONU
Otatus	Device	Port	MAC	IGMP	RSTP	DHO	CP ONU		Alarm
Basic Info Realtime Info	Realtime Info								
	CPU Load	53%							
	Memory Load	14%							
	Temperature	53°C							
	Running Time	0 Days 1	Hours 2 Mir	nutes 52 Seconds					

Figure 2-3: Device Real-time Information

2.2.2 Port

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

the GE port link status, speed and the packets statistics.

OLT Web Managemen	t Interfa	се											admin	C
Statue	St	atus	Ba	asic Setting	J	Applicatio	n	Mainte	nance	(ONU Pr	ofile	ONU	
Status	Devi	ce	Port	Port M/		IGN	1P	RSTP		DHCP		ONU	Alarm	
GE Info	Traffic	Statistics												
PON Info	Hame	Statistics												
	Port ID	Link Status	Speed	Rx Packets	Rx Broadcast	Rx Multicast	Tx Packets	Tx Broadcast	Tx Multicast	Collisions	Errors			
	GE1	Up	1000M Full	0	0	0	0	0	0	0	0			
	GE2	Up	1000M Full	0	0	0	0	0	0	0	0			
	GE3	Up	1000M Full	0	0	0	0	0	0	0	0			
	GE4	Up	1000M Full	0	0	0	0	0	0	0	0			
	GE5	Down	-	0	0	0	0	0	0	0	0			
	GE6	Down	-	0	0	0	0	0	0	0	0			
	GE7	Down	-	0	0	0	0	0	0	0	0			
	GE8	Down	-	0	0	0	0	0	0	0	0			
	GE9	Down	-	0	0	0	0	0	0	0	0			
	GE10	Down	-	0	0	0	0	0	0	0	0			
	GE11	Down	-	0	0	0	0	0	0	0	0			
	GE12	Down	-	0	0	0	0	0	0	0	0			
	GE13	Down	-	0	0	0	0	0	0	0	0			

Figure 2-4: GE Port Information

The PON port will show the optical parameters exactly.

Statue		Status		Basic S	etting		Applicatio	n	Mair	ntenance		ONL	J Profile		ONU
Status	Dev	/ice	P	ort	MA	c	IGN	IP	RST)	1	онср	0	vu .	Aları
	Optical	Transceiver													
	Port ID	Tempperatur	e Voltage	Bias Curren	t Transmit Po	ower									
	PON1	42.268	C 3.3304 V	12.96 m/	4.825163	dbm									
	PON2	N	A N/A	N//	N I I I I I I I I I I I I I I I I I I I	N/A									
	PON3	N	A N/A	N//	N I I I I I I I I I I I I I I I I I I I	N/A									
	PON4	N	A N/A	N/A	N .	N/A									
	PON5	N	A N/A	N/A	N .	N/A									
	PON6	N	A N/A	N/A	N I I I I I I I I I I I I I I I I I I I	N/A									
	PON7	N	A N/A	N/A	N I I I I I I I I I I I I I I I I I I I	N/A									
	PON8	N	A N/A	N/A	N I	N/A									
	Traffic	Statistics													
	Port ID	Link Status	Speed	Rx Packets	Rx Broadcast	Rx Multicast	Tx Packets	Tx Broadcast	Tx Multicast	Collisions	Errors				
	PON1	Up	1000M Full	1242	1179	63	28	0	28	0	0				
	PON2	Down	-	14	0	14	28	0	28	0	0				

Figure 2-5: PON Port Information

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.

Status		Status	B	asic Setting		Application	Maintenance	ONU	Profile	ONU
Status	Devi	:e	Port		MAC	IGMP	RSTP	DHCP	ONU	Alarm
	MAC Ad	iress Table								
	Port ID	ALL		•						
	VLAN ID	MAC	Туре	Physical Port						
	960	40:61:86:02:42:CA	Dynamic	GE10						
	960	7C:08:D9:D3:13:5C	Dynamic	GE10						
	960	34:97:F6:85:50:9B	Dynamic	GE10						
	960	00:0A:C2:21:0B:BD	Dynamic	GE10						
	960	62:08:D9:D3:13:5C	Dynamic	GE10						
	960	3C:D1:6E:09:DE:57	Dynamic	GE10						
	960	00:05:A8:1E:5A:70	Dynamic	GE10						
	960	00:1F:16:2F:ED:35	Dynamic	GE10						
	960	E8:03:9A:DE:B1:E8	Dynamic	GE10						
	960	00:0C:29:36:4E:9D	Dynamic	GE10						
	960	00:1E:EC:11:7D:07	Dynamic	GE10						
	960	00:20:23:00:00:00	Dynamic	GE10						
	960	00:05:A8:0A:EF:C1	Dynamic	GE10						

Figure 2-6: MAC Table

2.2.4 IGMP

Click **Status→IGMP→Group Member**, IGMP Group Member (both the

dynamic and static IGMP Group) can be shown.

OLT Web Man	agement lr	nterface						a	dmin 🕞
Status	Status	Basic S	etting	Applic	ation	Mainte	nance	ONU Profile	ONU
Status	Device	Port	MAC	l	GMP	RSTP	DHC	P ONU	Alarm
Group Member	IGMP Grou	ıp Member							
	Group VLA	N ID IP Add	ress Port I	О Туре	User VLA	N ID			
	960	239.0.	0.1 PON1	Static	46				
	Refresh								



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 \rightarrow **RSTP**. See figure 2-8 and figure 2-9.

Status			Basic Setting	Application	Maintenance	ONU	Profile	ONU
	Device	Port	i i	MAC IGMP	RSTP	DHCP	ONU	Alarr
nfo o	RSTP Information							
	Roo	ot	Bridge					
	Cost 0							
	Port GE0	D						
	Priority 327	68	32768					
	MAC Address 80:1	14:A8:23:D6:F9	80:14:A8:23:D6:F9					
	Hello Time 2s		2s					
	Max Age 20s		20s					
	Forward Delay 15s		15s					



OLT Web Mar	nagement	t Inter	face							adı	min 🕞
Status	Status	Ba	Basic Setting		Applicatio		on Maintenanc		ON	U Profile	ONU
	Device	P	ort I	MAC	IGM	IP	RST	DHC	P	ONU	Alarm
Global Info											
Port Info	RSTP P	ort Stat	us								
	Port ID	Role	State	Cost	Priority	Point To	Point				
	GE1	Design	Forwarding	200000	128	Enable					
	GE2	Design	Forwarding	200000	128	Enable					
	GE3	Design	Forwarding	200000	128	Enable					
	GE4	Design	Forwarding	200000	128	Enable					
	Refres	h	,,		,	,					



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.

OLT Web Management	Interface						admin 📀
Status	Status	Basic Setting	Application	Maintenance	ONU P	Profile	ONU
Otatas	Device	Port	MAC IGMP	RSTP	DHCP	ONU	Alarm
Server Lease Snooping BINd List	DHCP Server Lease						
	IP Address MAC addre	ess Expires Time					
	Refresh						

Figure 2-10: DHCP Server list





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.

OLT Web Managem	ent Interfa	ace											admin 📀
Status	Sta	tus		Basic Settin	g	A	pplicatio	on	Mair	itenance	ONU	J Profile	ONU
Status	Device	9		Port	MA	.c	IGN	P	RSTP	•	DHCP	ONU	Alarm
Authentication Info Automatic Discovery	ONU ID	LLID	Status	MAC Address	RTT	Туре	Auth Flag	Exchange	Auth Mode	Loid/pwd			
Bind Profile Info	1	-1	Offline	80:14:A8:20:BA:10	0	Unknown	Unauth	ldle	None	NULL			[
	2	-1	Offline	80:14:A8:20:BA:58	0	Unknown	Unauth	Idle	None	NULL			
	3	-1	Offline	80:14:A8:20:B6:E0	0	Unknown	Unauth	Idle	None	NULL			
	4	-1	Offline	80:14:A8:0D:CE:30	0	Unknown	Unauth	ldle	None	NULL			
	5	-1	Offline	80:14:A8:20:BA:20	0	Unknown	Unauth	ldle	None	NULL			
	6	-1	Offline	80:14:A8:1A:E0:58	0	Unknown	Unauth	Idle	None	NULL			
	7	-1	Offline	80:14:A8:1A:E0:78	0	Unknown	Unauth	Idle	None	NULL			
	8	-1	Offline	80:14:A8:1A:E2:08	0	Unknown	Unauth	Idle	None	NULL			
	9	-1	Offline	80:14:A8:20:B9:80	0	Unknown	Unauth	Idle	None	NULL			
	10	-1	Offline	80:14:A8:20:BA:40	0	Unknown	Unauth	Idle	None	NULL			
	11	-1	Offline	80:14:A8:1A:E1:E8	0	Unknown	Unauth	Idle	None	NULL			
	12	-1	Offline	80:14:A8:1A:E2:C8	0	Unknown	Unauth	Idle	None	NULL			
	13	-1	Offline	80:14:A8:1A:E2:48	0	Unknown	Unauth	Idle	None	NULL			
	14	-1	Offline	80:14:A8:1A:E1:68	0	Unknown	Unauth	Idle	None	NULL			
	15	-1	Offline	80:14:A8:1A:E0:C8	0	Unknown	Unauth	Idle	None	NULL			



CET WOD manage	Sta	tue		asia Sotti	ng	Applicati	ion	Maintonanco	ON	Profile	admin
Status	Devic	e	Port	t setti	MAC	Applicati	MP	RSTP	DHCP	ONU	Alarm
thentication Info tomatic Discovery	Port ID	PON	11		•						
d Profile Info	ONU ID	MAC Address		DBA Profile	Server Profile	VolP Profile	Alarm Profile	Default Server Profile			
	1	80:14:A8:20:B	A:10	0	0	0	0	0x0			
	2	80:14:A8:20:B	A:58	0	0	0	0	0x0			
	3	80:14:A8:20:B	6:E0	0	0	0	0	0x0			
	4	80:14:A8:0D:0	CE:30	0	0	0	0	0x0			
	5	80:14:A8:20:B	A:20	0	0	0	0	0x0			
	6	80:14:A8:1A:E	0:58	0	0	0	0	0x0			
	7	80:14:A8:1A:E	0:78	0	0	0	0	0x0			
	8	80:14:A8:1A:E	2:08	0	0	0	0	0x0			
	9	80:14:A8:20:B	9:80	0	0	0	0	0x0			
	10	80:14:A8:20:B	A:40	0	0	0	0	0x0			
	11	80:14:A8:1A:E	E1:E8	0	0	0	0	0x0			
	12	80:14:A8:1A:E	2:C8	0	0	0	0	0x0			
	13	80:14:A8:1A:E	2:48	0	0	0	0	0x0			
	14	80:14:A8:1A:E	1:68	0	0	0	0	0x0			

Figure 2-13: ONU Profile Bind List



2.2.8 Alarm

Any operation will lead to OLT alarm, such as ONU lost link, ONU Auth...

Statue		Status	Basic	Setting	Application	Maintenanc	e ON	U Profile	ONU
Status	De	evice	Port	MAC	IGMP	RSTP	DHCP	ONU	Alarm
rm Log	Aları	m Log Table							
	Selec	ct Counts	200						
	Alarn	п Туре	ALL	•					
	No.	Time	Level	Message					
	1	1999/12/31 00	:01:21 major	PON Enable PON	5-8 Enable!				
	2	1999/12/31 00	:01:21 major	PON Enable PON	1-4 Enable!				
	3	1999/12/31 00	:00:55 critical	PON Deregister D	EVICE 7 by IROS_MSG_T	YPE_APPS_OLT_REG.			
	4	1999/12/31 00	00:13 critical	PON Deregister D	EVICE 0 by IROS_MSG_T	YPE_APPS_OLT_REG.			
	5	1999/12/31 00	:00:13 critical	PON Deregister D	EVICE 7 by IROS_MSG_T	YPE_APPS_OLT_REG.			
	6	1999/12/31 00	:00:13 critical	PON Deregister D	EVICE 0 by IROS_MSG_T	YPE_APPS_OLT_REG.			
	7	1999/12/31 00	00:09 warning	OLT Port Updown	Uplink-port 0/3 Up				
	8	1999/12/31 00	:00:09 warning	OLT Port Updown	Uplink-port 0/4 Up				
	9	1999/12/31 00	:00:09 warning	OLT Port Updown	Uplink-port 0/2 Up				
	10	1999/12/31 00	00:09 warning	OLT Port Updown	Uplink-port 0/1 Up				
	First	Previous, Nex	<u>t, Last</u> 1/1, 10 p	er page/10 total, 1	Go!				

Figure 2-14: Alarm Events



Chapter 3 OLT Basic Setting

This section is about the basic service of OLT configuration.

3.1VLAN

3.1.1 New VLAN

OLT network service is based on VLAN, create a new VLAN is necessary.

OLT Web Managem	ent Interfa	ace										admin	C
Basic Sotting	Stat	tus		Basic Se	etting	Арр	lication	Maint	enance	ONU	J Profile	ONU	
Dasic Setting	VLA	N.		Port		QOS		MAC	Sec	urity			
New VLAN													
Port VLAN	New VL	AN											
QinQ	VLAN ID			255		(1-4094)							
VLAN IP	Descriptio	on		vlan255									
				Add									
	VLAN Ta	able		_									
					1								
	VLAN ID	Description	Edit	Delete									
	1	default	0										
	960	vlan960	ø	Delete									
	2000	vlan2000	ø	Delete									
	4000	vlan4000	0	Delete									

Figure 3-1: Create New VLAN

3.1.2 Port VLAN

Add the new VLAN in the port you want to connect. You can choose the

VLAN mode tag or untag in this page.

OLT Web Managem	ent Interface						admin	C>
Poois Satting	Status	Basic Setting	Application	Maintena	ance	ONU Profile	ONU	
Basic Setting	VLAN	Port	QOS	MAC	Secu	rity		
New VLAN								
Port VLAN	Port VLAN Configu	iration						
QinQ	VI AN ID	2000	•					
VLAN IP	GE1	C None Tag C Unt	taq					
	GE2	● None C Tag C Uni	tag					
	GE3	None C Tag C Uni	tag					
	GE4	None O Tag O Uni	tag					
	GE5	None O Tag O Unit	tag					
	GE6	None C Tag C Unit	tag					
	GE7	None C Tag C Unit	tag					
	GE8	None C Tag C Unit	tag					
	GE9	None C Tag C Unit	tag					
	GE10	None C Tag C Unit	tag					
	GE11	None C Tag C Unit	tag					
	GE12	None C Tag C Unit	tag					
	GE13	None C Tag C Unit	tag					
	GE14	None C Tag C Unit	tag					
	GE15	None C Tag C Unit	tag					
	GE16	None C Tag C Unit	tag					
	PON1	None C Tag C Unit	tag					
	PON2	None C Tag C Unit	tag					

Figure 3-2: Add Port VLAN

3.1.3 QinQ

Configure the port mode VLAN translation or QinQ.

OLT Web Manageme	ent Inter	face									admin	0
Basic Sotting	Sta	atus	Basic Setti	ing	Applicati	on	Mainter	nance	ON	J Profile	ONU	
Dasic Setting	VL	AN	Port		QOS	N	AC	Secu	rity			
New VLAN Port VLAN	QinQ C	onfiguration										
QinQ	Port ID		GE1	•								
VLAN IP	Custom	er VLAN	1	-								
	Custom	er Cos	any	-								
	Service	VLAN	1	-								
	Service	Cos	any	•								
	Mode		VLAN Transla	tion 👻								
			Add									
	VLAN C	inQ Mapping Ta	able									
	Port ID	Customer VLAN	Customer Cos	Service VLAN	Service Cos	Mode	Delete					
	GE1	2000	1	4000	2	VLAN Translat	ion Delete					
	GE1	960	0	960	0	QinQ	Delete					

Figure 3-3: QinQ Configuration

3.1.4 VLAN IP

Select the existing VLAN and put an IP address in this VLAN.



OLT Web Manager	ment Interface					admin 🕞
Basic Setting	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
Basic Octaing	VLAN	Port	QOS	MAC	Security	
New VLAN Port VLAN	VLAN IP Config					
QinQ	VLAN ID	960	•			
VLAN IP	IP Address Subnet Mask VLAN IP Table	192.168.1.120 255.255.255.0 Submit Reset				
	VLAN ID IP Addr	ess Subnet Mask De	lete			
	960 192.168	3.1.120 255.255.255.0 D	elete			



3.2 Port

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

3.2.1 GE/PON Setup

Configure the GE/PON ports basic service, including admin status, flow

OLT Web Manage	ment Interface					admin 🕝
Basic Sotting	Status	asic Setting	Application	Maintenance	ONU Profile	ONU
Basic Setting	VLAN	Port	QOS	MAC	Security	
GE Setup						
PON Setup	GE Configuration					
Channel Group	Port ID	GF1	-			
Mirroring	Description					
	Admin Status	Enable Disable)			
	Flow Control	O On 🖲 Off				
	Isolate	Enable O Disable	2			
	Broadcast Storm Protection	512	(0 64-1000000kbps)			
	Multicast Storm Protection	0	(0 64-1000000kbps)			
	Unicast Storm Protection	512	(0 64-1000000kbps)			
	Ingress Rate	0	(0 32-1000000kbps)			
	Egress Rate	0	(0 32-1000000kbps)			
	MAC Limit	0	(0-16384)			
	Default VLAN ID	1	~			
		Submit Reset				

control switch, isolate switch, PVID...

Figure3-5: GE/PON Setup



3.2.2 Channel Group

It can be created 4 groups at most. Each group can add 4 ports at most.

Only GE ports can be added in the channel groups.

OLT Web Managen	OLT Web Management Interface adr											admin	G	
Basic Setting	Statu	s I	Basic Setting	asic Setting Application				Main	tenance		ONU P	Profile	0	NU
Dasic Setting	VLA	N	Port		Q	os		N	IAC		Secur	ity		
GE Setup PON Setup	Channel	Group Config	guration											
Channel Group	Channel Gr	oup ID		-										
Mirroring	Load Balar	ice		-										
			GE1 GE2	GE3 GE4	4 GE5	GE6 GE	7 GE8	GE9	GE10 GE11	I GE12 (GE13 GE1	4 GE15 GE1	6	
	Select GE I	Port			~			~		~				
			Submit											
	Channel	Group Table												
	Group ID	Load Balance	Ports	Dele	ete									
	1	dmac	GE2 GE5 GE9	GE12 De	elete									
Mirroring	Load Balar Select GE I Channel Group ID 1	Port Group Table Load Balance dmac	dmac GE1 GE2 Submit	GE3 GE4	v 4 GE5 ✓	GE6 GI	7 GE8	GE9	GE10 GE11	I GE12 (GE13 GE1	4 GE15 GE10	5	

Figure 3-6: Create Channel Groups

3.2.3 Mirroring

It can be created 4 groups at most. One destination port can support 8

OLT Web Manage	ment Interface							admin G
Pagia Satting	Status	Basic Setti	ng	Appl	ication	Maintenance	ONU Profile	ONU
Basic Setting	VLAN	Port		QOS		MAC	Security	
GE Setup PON Setup	Mirror Configurat	ion						
Channel Group	Session ID	1		•				
Mirroring	Destination Port	GE1		•				
	Source Port1	GE3	• B	oth 👻				
	Source Port2	PON6	• Bo	oth 👻				
	Source Port3	GE11	- Bo	oth 👻				
	Source Port4		- Bo	oth 👻				
	Source Port5		▼ Be	oth 👻				
	Source Port6		▼ B	oth 🔫				
	Source Port7		▼ Be	oth 🔫				
	Source Port8		- Bo	oth 👻				
		Submit						

source ports at most.





3.3 QOS

The QOS types can be divided into 802.1P and DSCP. It can support 3

modes: strict, WRR and strict-WRR.

OLT Web Manage	OLT Web Management Interface ac											
Basic Setting	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU						
Basic Setting	VLAN	Port	QOS	MAC	Security							
QOS	QoS Type											
	QoS Type	802.1P Submit	•									
	QoS Configuration	n										
	QoS Mode	WRR	•									
	Queue0 Weight	1	(1-127)									
	Queue1 Weight	1	(1-127)									
	Queue2 Weight	1	(1-127)									
	Queue3 Weight	2	(1-127)									
	Queue4 Weight	2	(1-127)									
	Queue5 Weight	2	(1-127)									
	Queue6 Weight	1	(1-127)									
	Queue7 Weight	1	(1-127)									
		Submit										



3.4 MAC

manually with VLAN and port.

The MAC aging time is 300s by default. You can add a static MAC

OLT Web Management Interface C admin **Basic Setting ONU Profile** ONU Application Maintenance Status **Basic Setting** VLAN Port 005 Security MAC MAC Aging Configuration Enable ÷ Automated Aging (10-100000s) 300 Aging Time Submit Add MAC Address VLAN ID 960 MAC Address (HH:HH:HH:HH:HH:HH) Dynamic Туре • Port ID GE1 . Add Delete

Figure 3-9: MAC Configuration



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 at most.

OLT Web Manage	ment Interface									admin	G
Pasic Sotting	Status	Basic Setting	Application		Main	tenance		ONU Pro	ofile	ON	U
Basic Setting	VLAN	Port	QOS		М	AC		Security			
Security Filter Effect Filter	Access List Confi	guration									
	Access List ID	5000 S-MAC D-MAG	(5000-5999) C VLAN COS	Туре	S-IP	S-Port	D-IP	D-Port	Protocol	DSCP	
	Select Filter Type		v		~						
	Source MAC		Mask		(HH	HH:HH:HH	:HH:HH)				
	Destination MAC		Mask		(HI	I:HH:HH:HF	I:HH:HH)				
	VLAN ID	2000	-								
	VLAN Cos		(0-7)								
	Ethernet Type		(HHHH)								
	Source IP	192.168.21.44	Mask 255.255.	255.0							
	Source Port		(0-65535)								
	Destination IP		Mask								
	Destination Port		(0-65535)								
	Protocol	TCP			(0)-255)					
	DSCP		(0-63)								
	Filter Action	Deny	-								
		Add									

Figure 3-10: 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.

OLT Web Management Interface adm									
Basic Setting	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU			
Dasic Setting	VLAN	Port	QOS	MAC	Security				
Security Filter									
Effect Filter	Access List Port	Configuration							
	Access List ID	5000	•						
		GE1 GE2 GE3	3 GE4 GE5 GE6 GE7	GE8 GE9 GE10 GE11 GE	12 GE13 GE14 GE15 GE	16			
	Select GE Port								
		PON1 PON2	PON3 PON4 PON5 PO	N6 PON7 PON8					
	Select PON Port								
		Apply Acce	ss List to Port(s)						
	Active Access Li	sts							
		-							
	Access LISTID Por	15							
	5000 GE	3 GE5 PON5 PON6							

Figure 3-11: Bind Security Filter



Chapter 4 Application

This chapter is about the protocol service configuration.

4.1 IGMP

4.1.1 Global Setup

Enable the IGMP snooping mode.

OLT Web Management Interface ad													
Application	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU							
Application	IGMP	RSTP	ARP Proxy	DHCP	Static Route								
Global Setup													
Port Setup	IGMP Configurati	IGMP Configuration											
Port User VLAN	IGMP Status	Enable	-										
Port Mrouter	Last Member Query I	nterval 1	(1-255s)										
Static Group	Last Member Query	Count 2	(1-255)										
	Last Member Query F	Response 1	(1-255s)										
	General Query Packe	o Disable	nable										
	General Query Interva	al 125	(10-255s)										
	Query Source IP	1.1.1.1											
		Submit Reset											



4.1.2 Port Setup

IGMP port configuration is about the max groups number, port fast leave

status and filter status.



OLT Web Management Interface ad											admin	C	
Application	Sta	itus	В	asic Settin	ıg	Application		Maintenance		ONU P	rofile	ONU	
Application	IGI	MP		RSTP		ARP Proxy	E	ОНСР	Static F	Route			
Global Setup													
Port Setup	IGMP P	ort Configu	ration										
Port User VLAN	Port ID			GE1		•							
Port Mrouter	Fast Lea	ive		Disable C	Enable	e							
Static Group	Filter	Filter		Disable C Enable									
	Group Limit			1024		(0-1024)							
				Submit Re	set								
	IGMP Port Table												
	Port ID	Fast Leave	Filter	Group Limit									
	GE1	disable	disable	1024									
	GE2	disable	disable	1024									
	GE3	disable	disable	1024									
	GE4	disable	disable	1024									
	GE5	disable	disable	1024									
	GE6	disable	disable	1024									



4.1.3 Port User VLAN

IGMP VLAN configure the user VLAN and group VLAN.

OLT Web Manager	OLT Web Management Interface ad											
Application	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU						
Application	IGMP	RSTP	ARP Proxy	DHCP	Static Route							
Global Setup Port Setup	User VLAN Co	User VLAN Configuration										
Port User VLAN	Port ID	GE1	•									
Port Mrouter	User VLAN ID	46	-									
Static Group	Group VLAN ID	46	•									
	Port ID User VI	Add ble	elete									
	PON1 46	960	Delete									



4.1.4 Port Mrouter

Add a port as the IGMP mrouter port.



OLT Web Management Interface ar													
Application	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU							
Application	IGMP	RSTP	ARP Proxy	DHCP	Static Route								
Global Setup													
Port Setup	Add Multica	Add Multicast Router											
Port User VLAN	Port ID	Port ID GE1 •											
Port Mrouter	Group VLAN IE	960	-										
Static Group	Add												
	Multicast Router Table												
		(
	Port ID Grou	p VLAN ID Delete											
	GE1 46	Delete											



4.1.5 Static Group

Add an IGMP group manually. We always choose the PON port as the

group port.

OLT Web Management Interface a											
Application	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU					
Application	IGMP	RSTP	ARP Proxy	DHCP	Static Route						
Global Setup Port Setup	Add Static Group										
Port User VLAN	Port ID	Port ID PON1 -									
Port Mrouter	IP Address	239.0.0.2									
Static Group	User VLAN ID	46	•								
	Port ID IP Address PON1 239.0.0.1	e User VLAN ID Delete 46 Delete									



4.2 RSTP

4.2.1 Global Setup

The switch of RSTP is disable by default.



OLT Web Manage	OLT Web Management Interface ac										
Application	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU					
Аррисаціон	IGMP	RSTP	ARP Proxy	DHCP	Static Route						
Global Setup											
Port Setup	RSTP Configuration	on									
	RSTP Status	Enable	•								
	Global Priority	32768	(0-61440)								
	Hello Time	2	(1-10s)								
	Max Age	20	(6-40s)								
	Forward Delay	15	(4-30s)								
		Submit Reset									

Figure 4-6: RSTP Global Setup

4.2.2 Port Setup

The RSTP ports parameter can be set.

OLT Web Managen	nent Ir	nterfac	е						admin C	7		
Application	S	Status		Bas	ic Setting	A	hpp	lication	Maintenance	ONU Profile	ONU	
Application		IGMP			RSTP		ARP Proxy		DHCP	Static Route		
Global Setup Port Setup	RSTP P	Port Configu	iratio	on								
	Port ID	Status		Priority (0-255)	Cost (1-20000000)	OperEdge		Point To Point				
	GE1	Enable	•	128	200000	Enable	•	Enable 👻				
	GE2	Enable	•	128	200000	Enable	•	Enable 👻				
	GE3	Enable	•	128	200000	Enable	•	Enable -				
	GE4	Enable	•	128	200000	Enable	•	Enable 👻				
	GE5	Enable	•	128	200000	Enable	•	Enable 👻				
	GE6	Enable	•	128	200000	Enable	•	Enable 👻				
	GE7	Enable	•	128	200000	Enable	•	Enable 👻				
	GE8	Enable	•	128	200000	Enable	•	Enable 👻				
	GE9	Enable	•	128	200000	Enable	•	Enable 👻				
	GE10	Enable	-	128	200000	Enable	•	Enable 👻				
	GE11	Enable	•	128	200000	Enable	•	Enable 👻				
	GE12	Enable	•	128	200000	Enable	•	Enable 👻				

Figure 4-7: RSTP Port Setting

4.3 ARP Proxy

As OLT supports L3 Function, it can help the different subnet ARP access.



OLT Web Manage	ment Inter	face					admin	C>
Application	Statu	ıs Ba	sic Setting	Application	Maintenance	ONU Profile	ON	U
Application	IGM	P	RSTP	ARP Proxy	DHCP	Static Route		
ARP Proxy	ARP Pr	oxy VLAN has	s not config ip a	address, please confi	ig it first!			
	ARP Pro	xy Configuratio	n					
	VLAN ID		960	•				
	ARP Proxy	y Status	O Disable O En	able				
	APP Pro	wy Table	Submit					
	AKF FIU	xy Table						
	VLAN ID	ARP Proxy Status						
	1	disable						
	46	disable						
	960	disable						
	2000	disable						
	4000	disable						



4.4 DHCP

OLT supports 3 services of DHCP: DHCP server, DHCP relay, DHCP

Snooping.

4.4.1 DHCP Server

If the OLT enable DHCP server, the connecting devices will obtain an IP

address.

OLT Web Manage	ment Interface					admin 🕞
Application	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
Application	IGMP	RSTP	ARP Proxy	DHCP	Static Route	
Server						
Relay	DHCP Server State	us				
Snooping Global	DHCP Server Status	Enable	•			
Snooping Port	VLAN ID	46	-			
Snooping Bind		Submit Reset				
	DHCP Server Sett	ings				
	Start IP Address	192.168.12.124				
	End IP Address	192.168.12.254				
	Subnet Mask	255.255.255.0				
	Gateway	0.0.0				
	Static DNS 1	0.0.0				
	Static DNS 2	0.0.00				
	Static DNS 3	0.0.0				
	WINS	0.0.0				
	Client Lease Time	864000	(60-864000s)			
		Submit Reset				

Figure 4-9: DHCP Server



4.4.2 DHCP Relay

When the DHCP server and the clients are not in the same subnet, DHCP

OLT Web Management Interface C admin Status Basic Setting **ONU Profile** ONU Application Maintenance Application IGMP RSTP Static Ro Server Add Relay Server Relay Snooping Global Server IP 192.168.12.125 Snooping Port 960 VLAN ID Snooping Bind Add Relay Server Table Server IP VLAN ID Delete

relay can help the clients get the IP address from the server.

Figure4-10: DHCP Relay

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.

OLT Web Manage	ment Interface					admin 🕞
Application	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
Application	IGMP	RSTP	ARP Proxy	DHCP	Static Route	
Server Relay	DHCP Snooping Stat	tus				
Snooping Global	DHCP Snooping Status	Enable	•			
Snooping Port		Submit Reset				
Snooping Bind	DHCP Snooping Set	tings				
	Option82 Control	O Disable O En	able			
	Option82 Strategy	O Drop 🖲 Keep	O Replace			
	Overspeed Recovery	O Disable 🖲 En	able			
	Overspeed Recovery Inte	rval 30	(3-3600s)			
	Binding Delete Time	300 Submit Reset	(1-3600s)			
	VLAN ID List					
	VLAN ID List					
	VLAN ID	46	•			
		Add Delete				

Figure 4-11: DHCP Snooping Global



4.4.4 DHCP Snooping Port

The DHCP snooping ports are untrust by default.

OLT Web Manager	nent Inte	rface						admin	0
Application	Stat	tus	Basic Setting	Application	n Maii	ntenance	ONU Profile	ONU	J
Application	IG	МР	RSTP	ARP Prox	y C	нср	Static Route		
Server	DHCP	Snoopina Po	t Configuration						
Relay			j						
Snooping Global	Port ID	Туре	Option82 Circuit ID	Option82 Remote ID	Limit Rate(0-4096)				
Snooping Bind	GE1	Untrust	· 123	123	1024	-			
	GE2	Untrust	·		0	-			
	GE3	Untrust	•		0				
	GE4	Untrust	•		0				
	GE5	Untrust	·		0				
	GE6	Untrust	•		0	_			
	GE7	Untrust	•		0				
	GE8	Untrust			0				
	GE9	Untrust ·	•		0				

Figure 4-12: DHCP Snooping Port

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.

OLT Web Manage	ment Interface					admin	C>
Application	Status	Basic Setting	Application	Maintenance	ONU Profile	ON	U
Аррисацон	IGMP	RSTP	ARP Proxy	DHCP	Static Route		
Server Relav	Add DHCP Snoo	ping Bind					
Snooping Global Snooping Port Snooping Bind	MAC Address VLAN ID IP Address Port ID Lease Static DHCP Snot	00:02:12:00:a1:1 960 192:168:10.14 GE2 5000 Add roping Bind Table	1 (HH.HH.HH.HH.HH.HH.HH. (60-1000000s)	1)			

Figure 4-13: DHCP Snooping Bind



4.5 Static Route

OLT support L3 function by static route.

OLT Web Manager	nent Interface						admin	C
Application	Status	Basic S	Setting	Application	Maintenance	ONU Profile	ONL	J
Application	IGMP	R	STP	ARP Proxy	DHCP	Static Route		
Static Route	Add Static Ro	ute						
	Destination IP	192.	169.3.123					
	Destination Mask	255.	255.255.0					
	Gateway	192.	168.6.1					
	Static Route T	Add						
	Destination IP	Destination Mask	Gateway	Delete				
	192.168.6.0	255.255.255.0	192.168.3.1	Delete				

Figure4-14: Static Route



Chapter 5 Maintenance

This chapter is about the global management of OLT.

5.1 User Manage

The user can be divided into 2 levels: Normal and Admin. The different of

them is the contents. The admin account number content will be more

abundant. The default account number is Admin level.

OLT Web Managen	nent Interfa	се							admin	G
Maintenance	Status		Basic Settin	ng Appl	ication	Mainte	nance	ONU Profile	ONU	J
Maintenance	User Manag	e De	vice Manage	Alarm	SNN	IP	AUX IP	RTC	FAN	
User Manage	Add User									
	User Name		asdf							
	User Passwo	rd								
	Confirm Pass	word	••••							
	User Role		Normal	-						
			Normal Admin							
	User Table									
	User Name	User Role	Edit Delete							
	admin	Admin	0							
	user	Normal	🧪 Delete	I						

Figure 5-1: User Manage

5.2 Device Manage

5.2.1 Firmware Upgrade

Upgrade the OLT by WEB, do not need TFTP server. After finish upgrading,

it will reboot automatically.



OLT Web Manager	ment Interface						admin 🕞
Maintenance	Status	Basic Setting	Applicat	ion Ma	aintenance	ONU Profile	ONU
Maintenance	User Manage	Device Manage	Alarm	SNMP	AUX IP	RTC	FAN
Firmware Upgrade Deviec Reboot	Firmware Upgra	ade					
Config File	Current Firmware \	/ersion: V2.03.13	se				
	Upgrade						



5.2.2 Device Reboot

It will reboot the entire system. (Please save the configuration first)

OLT Web Manage	ment Interface					admin 🕝
Maintenance	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
Wantenance	User Manage	Device Manage	Alarm	SNMP AUX IP	RTC	FAN
Firmware Upgrade Deviec Reboot	Device Reboot					
Config File	Click Reboot buttor	to reboot the device.				
	Re	boot				

Figure 5-3: Device Reboot

5.2.3 Config File

It includes backup configuration, restore configuration, factory default



and save configuration.

OLT Web Managem	ent Interface						admin	0
Maintenance	Status	Basic Setting	Application	Ma	intenance	ONU Profile	ONU	
Maintenance	User Manage	Device Manage	Alarm	SNMP	AUX IP	RTC	FAN	
Firmware Upgrade Deviec Reboot Config File	Backup Configura	tion figuration Download						
	Restore Configura	ation Browse uration Warning - All exi] sting configuration will be	overwritten				
	Factory Defaults Click Restore to load Restore Facto	the factory defaults. The device ry Defaults	ce will reboot after restore is	completed!				
	Save Configuration Press the button belon SaveAll	n ow to 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".

OLT Web Manageme	ent Interface								admin 🕞
Maintenance	Status	Basi	c Setting	4	Application		Maintenance	ONU Profile	ONU
Maintenance	User Manage	Device Ma	anage	Alarm		SNMP	AUX IP	RTC	FAN
Alarm Threshold Alarm	Alarm Configuration	n							
PON Optical Alarm System Server	Туре	Print	Record	Trap	Remote				
cysicg cerver	fan								
	download-file-failed	~	~	~	~				
	upload-file-failed	~	~	~	~				
	upgrade-file-failed	~	~	~	~				
	port-updown	~	~	~	~				
	port-loopback	~	~	~	~				
	pon-deregister	~	~	~	~				
	pon-register-failed	~	~	~	~				
	pon-disable	~	~	~	~				
	pon-txpower-high	~	~	~	~				





5.3.2 Threshold Alarm

Configure the temperature threshold, cup-usage threshold and memory-

usage threshold.

Maintenance Status Basic Setting Application Maintenance ONU Profile User Manage Device Manage Alarm SNMP AUX IP RTC Alarm Threshold Alarm SNMP AUX IP RTC PON Optical Alarm Threshold Alarm Configuration Type Print Record Trap Remote Alarm Threshold Clear Threshold	GNU FAN
User Manage Device Manage Alarm SNMP AUX IP RTC Alarm Threshold Alarm<	FAN
Alarm Threshold Alarm Configuration Threshold Alarm PON Optical Alarm Syslog Server Type Print Record Trap Remote Alarm Threshold Clear Threshold Temp-high Transform	
Threshold Alarm Threshold Alarm Configuration PON Optical Alarm Type Print Record Trap Alarm Threshold Clear Threshold Syslog Server Temp-high F F To To To	
PON Optical Alarm Type Print Record Trap Remote Alarm Threshold Clear Threshold Syslog Server temochinh IV	
Syslog Server	
temp-binh	
temp-low	
cpu-usage-high	
mem-usage-high	
Submt Reset	

Figure 5-6: Threshold Alarm

5.3.3 PON Optical Alarm

It is about the PON ports threshold alarm configuration.

OLT Web Manageme	ent Interface								admin	C>
Maintenance	Status		Basic Setting	Арр	lication	Maintenanc	е	ONU Profile	ONU	
Wantenance	User Manage	Dev	rice Manage	Alarm	SNM	P AI	UX IP	RTC	FAN	
Alarm Threshold Alarm	PON Optical A	larm Confi	guration							
PON Optical Alarm	Port ID	PON1	•							
Syslog Server	Туре	State	Alarm Threshold	Clear Threshold						
	tx_power_high	~	20	20						
	tx_power_low		0.00	0.00						
	tx_bias_high		0.00	0.00						
	tx_bias_low		0.00	0.00						
	vcc_high		0.00	0.00						
	vcc_low		0.00	0.00						
	temp_high		0.00	0.00						
	temp_low		0.00	0.00						
	Submit Res	set								



5.3.4 Syslog Server

Configure the server of OLT remote system logs.



OLT Web Manage	ment Interface						admin 🕞
Maintenance	Status	Basic Setting	Application	N	/laintenance	ONU Profile	ONU
Wantenance	User Manage	Device Manage	Alarm	SNMP	AUX IP	RTC	FAN
Alarm							
Threshold Alarm	Syslog Server (Configuration					
PON Optical Alarm	Syslog Server	Enable	-				
Syslog Server	Server IP	192.168.3.123					
	Server Port	514	(1-65535)				
		Submit					



5.4 SNMP

5.4.1 SNMP V1/V2

SNMP (Simple Network Management Protocol) is an extensive network

management protocol at the moment. The EPON OLT uses the SNMP V2.

Maintenance	Status		Basic Se	etting	Applica	tion	Maintenance	ONU Profile	ONU		
Wantenance	User Manage	•	Device Manage	A	larm	SNMP	AUX IP	RTC	FAN		
PV1/V2	Access Right	R	ad-Only	•							
IPV3		Ad	bl								
IPV3 Trap	Community Ta	able									
	Community Na	ime Acces	s Right Delete								
	public	Read-	Only Delete								
	private	Read-	Write Delete								
	Add Trap										
	Host IP										
	UDP Port	16	2	(1-65535)							
	Community Nar	Community Name public									
	SNMP Version	1		-							
		A	ld								
	Trap Table										
	Host IP	UDP Port	SNMP Version	Community Nam	e Delete						
	192.168.5.125	162	2c 4	adsl	Delete						
	192 168 5 191	162	20	lahe	Delete						

Figure 5-9: SNMP V1/V2



5.4.2 SNMP V3

The SNMP V3 is the newer version.

Maintananaa	Status	Basi	c Setting	Application	Mainten	ance	ONU Profile	ONU
Maintenance	User Manage	Device Manage	Alarm	SNMP	AUX IP	RTC	FAN	
IPV1/V2 IPV3	Add View							
PV3 Trap	View Name]					
	View Type	include	(Type:Object Identifier)					
	View Table	Add						
	View Name Subtr	ree View type Delete						
	Add Group							
	Group Name		1					
	Read View	noautn	•]					
	Write View]					
	Houry How	Add	1					
	Group Table							
	Group Name Acc	cess Level Read View W	rite View Notify View D	lelete				

Figure 5-10: SNMP V3

5.4.3 SMNP V3 Trap

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

OLT Web Management Inte	erface								admin	C>
Maintonanoo	Status	Ba	sic Setting	Application	Maint	tenance	ONU P	rofile	ONU	
maintenance	User Manage	Device Manage	Alarm	SNMP	AUX IP	RTC		FAN		
SNMPV1/V2 SNMPV3	Add Trap									
SNMPV3 Trap	HostIP									
	UDP Port	162	(1-65535)							
	User Name									
	User Level	noauth	-							
	Tag List	trap	•							
	Timeout		(1-400000000)							
	Retry Count		(1-100)							
		Add								
	Trap Table									
	Host IP UDP Port	Version User Name	User Level Tag List	Timeout Retry Count Delete						

Figure 5-11: SNMP V3 Trap

5.5 AUX IP

AUX port is out band management port. Its IP address is out band

management IP. The default IP address is 192.168.8.100. User can

change it if need.

OLT Web Management Int	erface							admin
Maintenance	Status	Basic	Setting	Application	Mainten	ance	ONU Profile	ONU
mantenance	User Manage	Device Manage	Alarm	SNMP	AUX IP	RTC	FAN	
AUX IP	AUX IP Configura	tion						
	IP Address	192.168.5.5						
	Subnet Mask	255.255.255.0						
	Gateway	0.0.0.0						
		Submit Reset						

Figure 5-12: AUX IP

5.6 RTC

The system time is adaptable. The default system time is the OLT release time.

OLT Web Management In	nterface							admin
Maintonanoo	Status	Basic S	Setting	Application	Mainten	nance	ONU Profile	ONU
Maintenance	User Manage	Device Manage	Alarm	SNMP	AUX IP	RTC	FAN	
RTC	User Manage Date Setting Year Month D 2016 7 2 Submit Reset	Avice Manage	Alarm	SNMP	AUX IP	RTC	FAN	



5.7 FAN

The fans can be controlled to turn on/off, or turn on automatically.



OLT Web Management Ir	nterface							admin 🕝	۶.
Maintonanco	Status	Basic	Setting	Application	Maintena	nce	ONU Profile	ONU	
Maintenance	User Manage	Device Manage	Alarm	SNMP	AUX IP	RTC	FAN		
FAN	FAN Configuration	1							
	FAN Temperature	50	(20-80)						
	FAN Mode	Auto Submit Reset	•						

Figure 5-14: FAN Configuration



Chapter 6 ONU Profile

This chapter is about the ONU profile configuration. It is made for batch management ONU 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 by hands, the new template will take effect.

OLT Web Managem	ent Interface						admin	C>
	Status	Basic Setting	Application	Mainte	nance	ONU Profile	ONU	
	DBA Profile	Server Profile	VoIP Profile	Alarm Profile	Bind Prof	īle		
Add/Commit Bandwidth	Create DBA Profile							
	Profile ID 1	d	32767)					
	DBA Profile Informa	tion						
	Profile ID	•	Delete Commit					
	DBA Profile table							

Figure6-1: Add a DBA Profile

OLT Web Managem	ent Interface						admin	0
	Status	Basic Setting	Application	Mainten	ance	ONU Profile	οΝυ	
	DBA Profile	Server Profile	VoIP Profile	Alarm Profile	Bind Prot	file		
Add/Commit								
Bandwidth	Profile ID 1	•						
	Upstream Configura	ation						
	Upstream FIR	10000	(0-950000Kbps)					
	Upstream CIR	10000	(1-950000Kbps)					
	Upstream PIR	10000	(512-1000000Kbps)					
	Upstream Weight	1	(1-20)					
		Add Delete						
	Downstream Config	juration						
	Downstream PIR 1	0000 (0	0-1000000Kbps)					
	Downstream Weight	(1	1-16)					
	1	Add Delete						





6.2 Server Profile

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

profile ID.

OLT Web Managem	ent Interface						admin G
	Status	Basic Setting	Application	Mainter	nance	ONU Profile	ONU
ONO Prome	DBA Profile	Server Profile	VolP Profile	Alarm Profile	Bind Profile	•	
Add/Commit							
LAN Count	Create Service Pro	file					
SNMP	Profile ID		(1-32767)				
LLID		Add					
FEC Mode	Service Profile Info						
SLA	Profile ID	11	- Delete Com	ait			
Multicast	1 TONIC ID		Delete	inc.			
MAC Age Time	Service Profile Tab	ble					
Active PON	Kev	Value					
PON Setting	Maddin and Landard Link	l labortifica					
Port Basic	Multicast Logical Lin	k idenulier 3					
Port VLAN	Lan Count	4					
Port Class	lan:1						
Multicast Port		Vlan m	ode translation; Default 111;	tpid 10; Translation : 111 to	o 222;		
Multicaset VLAN	lan:2						
Monitor Status	lan:3						
Monitor Current	lan:4						
	IGH. T						

Figure 6-3: Add Server Profile

The server profile configuration contain ONU PON configuration, port

configuration, multicast configuration...

OLT Web Manager	ment Interface						admin	G
	Status	Basic Setting	Application	n Maint	enance	ONU Profile	ONU	
ONU Prome	DBA Profile	Server Profile	VolP Profile	Alarm Profile	Bind P	rofile		
Add/Commit								
LAN Count	Service Profile Lar	1 Count						
SNMP	Profile ID	1	•					
LLID	Lan Count	2	(0-255)					
FEC Mode		Submit Delete						
SLA								
Multicast								
MAC Age Time								
Active PON								
PON Setting								
Port Basic								
Port VLAN								
Port Class								
Multicast Port								
Multicaset VLAN								
Monitor Status								
Monitor Current								

Figure6-4: 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.

OLT Web Manageme	nt Interface						admin
	Status	Basic Setting	Appli	cation	Maintenance	ONU Profile	ONU
ONO PIOIlle	DBA Profile	Server Profile	VolP Profile	Alarm Profile	Bind Profile		
Add/Commit							
POTS Count	Create VolP Profile	1					
Global	Profile ID		(1-32767)				
H248 Global		Add					
H248 POTS							
SIP Global	VolP Profile Info						
SIP POTS	Profile ID	12	- comr	nit delete			
Fax Modem							
	VoIP Profile Table						
	Key	Value					
	Profile_Id :	12					
	Pots_Count :	2					
	SIP DigitMap Config	Num Of SIP DigitalMap Bloc SIP DigitalMap Block No : 22 SIP DigitalMap Block : 1	k : 7 22				
	SIP_POTS	sip_Pots : 1 User Account : 88880001 User Name : 88880001 User PassWord : 88880001					
	SIP_POTS	sip_Pots : 2 User Account : 66660001 User Name : 66660001 User PassWord : 66660001					

Figure6-5: Add VoIP Profile

OLT Web Managemer	nt Interface						admin	C >
	Status	Basic Setting	Applic	ation	Maintenance	ONU Profile	ONU	
onorronic	DBA Profile	Server Profile	VoIP Profile	Alarm Profile	Bind Profile			
Add/Commit								
POTS Count	VoIP Profile Info							
Global	Profile ID	12	•					
H248 Global	Add VoIP Pots Count							
H248 POTS	Pots Count	2	(0-255)					
SIP Global		commit						
SIP POTS								
Fax Modem								



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.



OLT Web Manageme	nt Interface						admin	G
	Status	Basic Settin	g Appli	ication	Maintenance	ONU Profile	ONU	
	DBA Profile	Server Profile	VoIP Profile	Alarm Profile	Bind Profile			
Add/Commit								
ONU	Create Alarm Profile	4	(4.00707)					
PON	Profile ID		(1-32/67)					
PON Statistics		Add						
Port								
Port Statistics	Alarm Profile Info							
POTS	Profile ID	1	- commit dele	te				
E1								
	Alarm Profile Table							
	Key	Value						

Figure 6-7: Add Alarm Profile

The alarm profile contains ONU global threshold alarm, PON alarm, port

alarm, pots alarm...

Figure6-8: Alarm Profile Configuration

6.5 Bind Profile

The DBA profile, server profile, VoIP profile, alarm profile can be bound

to the ONU.



OLT Web Manageme	nt Interface						admin	C>
	Status	Basic Setti	ng Appl	ication	Maintenance	ONU Profile	ONU	
	DBA Profile	Server Profile	VolP Profile	Alarm Profile	Bind Profile			
Bind Profile	Profile Binding							
	Port ID	PON1 -						
	ONU ID	2 -						
	DBA Profile ID	1 -						
	SRV Profile ID	11 -						
	VoIP Profile ID	12 -						
	Alarm Profile ID	13 👻						
		Commit						

Figure6-9: Bind Profile Configuration



Chapter 7 ONU

This chapter is about configuring the ONU by OLT.

7.1 Authentication

7.1.1 ONU authentication

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

disable.

OLT Web Managemer	nt Interface					admin 📀
ONU	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
	Authentication	ONU Global	ONU Port ONU Vo	ONU Alarm		
ONU Authentication						
MAC List	ONU Authentication					
Loid List	Port ID	PON1	-			
ONU Action	Port Authentication Mode	Disable	-			
		submit				

Figure 7-1 ONU Authentication

7.1.2 MAC List

When the ONU authentication mode is MAC mode, only the white list ONU can register. The black MAC list ONU cannot register whatever the mode.



OL I Web Manager	ment Interface						admin
ONU	Status	Basic Setting	Applica	tion	Maintenance	ONU Profile	ONU
	Authentication	ONU Global	ONU Port	ONU VoIP	ONU Alarm		
U Authentication							
C List	ONU MAC Authentic	ation					
d List	Port ID	PON1	•				
U Action	MAC Authentication	00:01:00:12:05:22	(нн:нн:нн:нн:нн:нн)				
		Add					
	Black MAC Authentical	tion	(нн:нн:нн:нн:нн:нн)				
		Add					
	ONU MAC Authentic	ation Table					
	Index	MAC	Delete				
	Clear						
	ONU Black MAC Aut	hentication Table					
	Index	Black MAC	Delete				
	Clear						

Figure7-2 MAC List

7.1.3 Loid List

When the authentication mode is Loid, only the Loid list ONU can

register.

OLT Web Managemen	it Interface						admin	C >
ONU	Status	Basic Setting	g App	lication	Maintenance	ONU Profile	ONU	
0110	Authentication	ONU Global	ONU Port	ONU VolP	ONU Alarm			
ONU Authentication MAC List	ONU Loid							
Loid List	Port ID	PON1	•					
ONU Action	Loid	EPON123456						
	Password	1111						
		Add						
	ONU Loid Authenticat	ion Table						
	Index Loi	id Passwo	ord Delete					
	Clear							



7.1.4 ONU Action

Manage the ONU unauth, deregister, reset. User can operate one of the

ONU, or a batch of ONU in the same PON port.



Status Basic Setting Application Maintenance ONU Profile ONU Authentication ONU Global ONU Port ONU VolP ONU Alarm ONU Authentication ONU Auth Action ONU Auth Action ONU Auth Action ONU Auth Action Port ID PON1 UnAuth All Deregister All Reset All ONU Action ONU LLID Status MAC Address Unauth Deregister 1 1 Online 80.14.AB.10.87.38 UnAuth Deregister 2 1 Offine 80.14.AB.00.CE.30 UnAuth Deregister 3 0 Online 80.14.AB.00.CE.30 UnAuth Deregister	Status Basic Setting Application Maintenance ONU Profile ONU Authentication ONU Global ONU Port ONU VolP ONU Alarm	OLT Web Manager	nent Interfac	е									admin	(
Authentication ONU Global ONU Port ONU VolP ONU Alarm ONU Authentication MAC List ONU Auth Action ONU Auth Action Port ID PON1 UnAuth All Deregister All Reset All ONU Action ONU U LLD Status MAC Address Unauth Deregister Reset ONU D LLD Status MAC Address Unauth Deregister Reset 1 1 Online 80:14:A8:00:87:38 UnAuth Deregister 2 -1 Otline 80:14:A8:00:CE:30 UnAuth Deregister 2 -1 Otline 80:14:A8:00:CE:30 UnAuth Deregister	Authentication ONU Global ONU Port ONU VolP ONU Alarm Authentication ONU Auth Action ONU Auth Action ONU Auth Action ONU Auth Action Port ID PON1 UnAuth All Deregister All Reset All NU Action ONU ID LLD Status MAC Address Unauth I 1 Online 80:14:A8:00:CE:30 UnAuth Deregister 2 -1 Offline 80:14:A8:00:CE:30 UnAuth Deregister 3 0 Online 80:14:A8:00:CE:8 UnAuth Deregister 4 2 Online 80:14:A8:00:CB:E8 UnAuth Deregister	ONU	S	tatus		Basic S	etting	Ар	plication	l i	Maintenance	ONU Profile	ONU	
ONU Authentication ONU Auth Action MAC List Pont ID ONU Action ONU ID LID Status MAC Address Unauth Deregister Reset 1 1 Online 80.14:A8:10:87:38 Unauth Deregister Reset 2 -1 Offine 80.14:A8:00:18:10 Unauth Deregister Reset 3 0 Online 80.14:A8:08:18:10 Unauth Deregister Reset	NU Authentication ONU Auth Automication AcC List Port ID PON1 - UnAuth All Deregister All Reset All NU Action ONU ID LLID Status MAC Address Unauth Operegister Reset 1 Online 00:14:A8:00:78:38 UnAuth I Deregister Reset 2 -1 Offine 00:14:A8:00:78:19:10 UnAuth Deregister Reset 3 0 Online 00:14:A8:00:78:18:10 UnAuth Deregister Reset 4 2 Online 00:14:A8:00:78:18:10 UnAuth Deregister Reset	CNO	Authent	icatio	n	ONU Global		ONU Port		ONU VolP	ONU Alarm			
MAC List Port ID PON1 UnAuth All Deregister All Reset All DNU Action ONU ID LLD Status MAC Address Unauth Deregister All Reset All ONU ID LLD Status MAC Address Unauth Deregister Reset 1 0 Online 80.14.A8.00.87.38 Unauth Deregister Reset 2 -1 Offline 80.14.A8.00.18.10 Unauth Deregister Reset 3 0 Online 80.14.A8.00.18.10 Unauth Deregister Reset	AC List oid List NU Action Pont D PON1 VunAuth AI Deregister AI Reset AI ONU ID LLD Status MAC Address Unauth Deregister Reset 1 0 OHI 0 01:4 A8:00:76:38 Unauth Deregister Reset 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ONU Authentication	ONU AU	th Act	tion									
Old List Port Unauth All Deregister All Reset All NU Action ONU ID LLB Status MAC Address Unauth Deregister All Reset All 1 1 Online 80.14.A8:00.EE:30 Unauth Deregister Reset 2 .1 Offline 80.14.A8:00.EE:30 Unauth Deregister Reset 3 0 Online 80.14.A8:00.EE:30 Unauth Deregister Reset	Did List Pont UnAuth Al Deregister Al Reset Al NUL Action ONU ID LLD Status MAC Address Unauth Deregister Reset 1 1 Online 80:14:A8:00:75:30 UnAuth Deregister Reset 2 -1 Offline 80:14:A8:00:75:30 UnAuth Deregister Reset 3 0 Online 80:14:A8:00:75:80 UnAuth Deregister Reset 4 2 Online 80:14:A8:00:75:80 UnAuth Deregister Reset	IAC List	ono Au											
ONU ID LLID Status MAC Address Unauth Deregister Reset 1 Online 80.14:A8.10.87:38 Unauth Deregister Reset 2 -1 Offline 80.14:A8.00:CE:30 Unauth Deregister Reset 3 0 Online 80.14:A8.08:110 Unauth Deregister Reset	ONU IDLLDStatusMAC AddressUnauthDeregistorReset100000.14:A8:00:87:30UnAuthDeregistorReset2-1Offline00.14:A8:00:CE:30UnAuthDeregistorReset30Online00.14:A8:00:CB:E8UnAuthDeregistorReset42Online00.14:A8:00:CB:E8UnAuthDeregistorReset	old List	Port ID		PO	N1	▼ UnAι	ith All Dere	gister All	Reset All				
1 Online 80:14:A8:10:87:38 UnAuth Deregister Reset 2 -1 Offline 80:14:A8:00:CE:30 UnAuth Deregister Reset 3 0 Online 80:14:A8:00:E1:0 UnAuth Deregister Reset	1Online80:14/-AB.10.87:38UnAuthDeregisterReset2-1Offine80:14/-AB.00.CE:30UnAuthDeregister-30Online80:14/-AB.08.1B:10UnAuthDeregisterReset42Online80:14/-AB.09.CB:E8UnAuthDeregisterReset		ONU ID	LLID	Status	MAC Address	Unauth	Deregister	Reset					
2 -1 Offline 80:14:A8:0D CE:30 UnAuth 3 0 Online 80:14:A8:0B:1B:10 UnAuth Deregister Reset	2 -1 Offline 80.14:A8:0D:CE:30 UnAuth 3 0 Online 80:14:A8:08:1B:10 UnAuth Deregister Reset 4 2 Online 80:14:A8:09:CB:E8 UnAuth Deregister Reset		1	1	Online	80:14:A8:10:87:38	UnAuth	Deregister	Reset					
3 0 Online 80.14/A8.08:1B:10 UnAuth Deregister Reset	3 0 Online 80.14.A8.08.1B:10 UnAuth Deregister Reset 4 2 Online 80.14.A8.09.CB:E8 UnAuth Deregister Reset		2	-1	Offline	80:14:A8:0D:CE:30	UnAuth							
	4 2 Online 80:14:A8:09:CB:E8 UnAuth Deregister Reset		3	0	Online	80:14:A8:08:1B:10	UnAuth	Deregister	Reset					
4 2 Online 80:14:A8:09:CB:E8 UnAuth Deregister Reset			4	2	Online	80:14:A8:09:CB:E8	UnAuth	Deregister	Reset					

Figure7-4 ONU Action

7.2 ONU Global

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

OLT Web Managem	ent Interface						admin	G
ONU	Status	Basic Setting	Appl	ication	Maintenance	ONU Profile	ONU	
ONO	Authentication	ONU Global	ONU Port	ONU VoIP	ONU Alarm			
Basic Info								
Upstream/Downstream	Basic Information							
Upgrade	Port ID F	PON1 -						
Manage IP	ONU ID 1	•						
SNMP								
LLID	Optical Module Inf	ormation						
FEC Mode				1				
SLA	Temperature	60 C						
Multicast	Supply Voltage	3.27 V						
MAC Age Time	Transmit BIAS	8 mA						
Active PON	Transmit Dowor	1 EC00 m10/	(1.0229.dbm)					
PON Setting	Hanshit Power	1.5005 11177	1.9550 upinj					
	Receive Power	0.0871 mW	-10.5998 dbm)					
	ONU Basic Informa	tion						
	CTC Version	0x30						
	OUI	0x11 0x11 0x11						
	RTT	81						
	Vendor ID	0x56534f4c						

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.



OLT Web Managem	ent Interface					admin 📀
	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
ONO	Authentication	ONU Global	ONU Port	ONU VoIP 0	NU Alarm	
Basic Info						
VLAN	VLAN					
Port Class	PON ID	PON1 ·				
Multicast VLAN	ONU ID	1 .				
Multicast Port	ONU Port	Port1 ·				
Monitor Status						
Monitor Current	VLAN Information					
		-				
	VLAN Mode	Transparent				
	PVID Value	0				
	Port VLAN Value					
	VLAN Configurati VLAN Mode PVID Value	on tag 100 Commt	• (1-4095)			

Figure7-6 ONU Port Configuration

7.4 ONU VoIP

Configure the HGU ONU VoIP information, it contains H248 protocol and

sip protocol configuration.

OLT Web Managen	nent Interface						admin	C>
ONU	Status	Basic Setting	Application	Maintenance		Profile	ONU	
ONO	Authentication	ONU Global	ONU Port		ONU Alarm			
Basic Info								
Global	Choose ONU							
H248 Global	PONID	PON1	-					
H248 POTS	ONU ID	3	-					
SIP Global								
SIP POTS	Global Parameter C	onfig						
Fax Modem	Voice IP Mode	Static_IP	•					
IAD Oper	Tagged Flag	Transparen	nt 👻					
	Voice Priority	7	(0-7)					
	Voice Clent VLAN	4000	(0-4095)					
	Voice Service VLAN	65535	(0-4095)					
	IAD IP Adress		(X.X.X.X)					
	IAD Net Mask		(X.X.X.X)					
	IAD Default Gateway		(X.X.X.X)					
		Commit						



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.

OLT Web Manage	ement Interface						admin	0
ONU	Status	Basic Setting	Application	Maintenan	ce ONU	Profile	ONU	
ONO	Authentication	ONU Global	ONU Port	ONU VolP	ONU Alarm			
ONU Alarm Info		41						
PON Alarm Info	ONU Alarm Informa	ation						
Port Alarm Info	Port ID F	PON1	•					
POTS Alarm Info	ONUID	1	•					
E1 Alarm Info								
	ONU Alarm							
	Alarm Type	Equipment Alarm	•					
	Alarm Name Alarm Configuration	equipn disable	nent_alarm					

Figure 7-8 ONU Alarm Information



Chapter 8 Configuration Cases

8.1 Internet With VLAN 100

OLT configuration

Step 1: Create a new VLAN.

OLT Web Managem	ent Interfa	сө						admin	C>
Basic Setting	Statu	ıs	Ba	sic Setting	Application	Maintenance	ONU Profile	ON	U
Busic octaing	VLAI	N	Port		QOS	MAC	Security		
New VLAN	New M. A								
Port VLAN	New VLA	N							
QinQ	VLAN ID		F	100	(1-4094)				
VLAN IP	Descriptio	n	5	/lan100					
				Add					
	VLAN Table								
	VLAN ID	Description	Edit	Delete					
	1	default	0						
	960	vlan960	Ø	Delete					
	1000	vlan1000	ø	Delete					
	1001	vlan1001	Ø	Delete					
	1010	vlan1010	Ø	Delete					

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

OLT Web Managem	ent Interface					admin 🕝
Pasic Sotting	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
Basic Setting	VLAN	Port	QOS	MAC	Security	
New VLAN						
Port VLAN	Port VLAN Configur	ation				
QinQ	VLAN ID	100	•			
VLAN IP	GE1	● None C Tag	C Untag			
	GE2	None C Tag	C Untag			
	GE3	None C Tag	C Untag			
	GE4	None C Tag	C Untag			
	GE5	● None C Tag	C Untag			
	GE6	None C Tag	C Untag			
	GE7	None C Tag	C Untag			
	GE8	None C Tag	C Untag			
	GE9	○ None ○ Tag	Untag			
	GE10	None C Tag	C Untag			
	GE11	None C Tag	C Untag			
	GE12	None C Tag	C Untag			
	GE13	None C Tag	C Untag			
	GE14	None C Tag	C Untag			
	GE15	None C Tag	C Untag			
	GE16	None C Tag	C Untag			
	PON1	🔿 None 🔎 Tag	C Untag			



Step 3: Configure the default VLAN ID (PVID) in untag port.

OLT Web Managem	ent Inte	erface											admir	(
Pasic Sotting	\$	Status	E	Basic Set	ting	Ар	plication		Maintena	nce	0	U Profile	0	NU
Basic Setting		VLAN		Port			QOS		MAC		Secur	rity		
GE Setup	GE Con	figuration												
PON Setup	GE CON	inguration				-								
Channel Group	Port ID		GE9		-									
Mirroring	Descript	tion]									
wintornig	Admin S	tatus	Enable	le C Disable										
	Flow Co	ntrol	C On G	Off										
	Isolate	of Olexan Deal	• Enab	le V Disable	1									
	Broadca	IST STOTTE PIOL	scion 512] (0 64-10 1	Juuuuutps)								
	Multicas	Classe Deate at	ion 0] (0 64-10])00000tps)								
	Unicast	Storm Protect	ion 512] (0 64-10 1	00000fps)								
	Ingress	Rate	0] (0 32-10 1)00000kbps)								
	Egress	Rate	0] (0 32-10 1	000000kbps)								
	MAC Lin	nit	0		(0-1638	4)								
	Default	/LAN ID	100		•									
	0514		Submit	Reset										
	GE Info	rmation												
	Port ID	Description	Admin Status	Flow Control	Isolate	Broadcast Storm	Multicast Storm	Unicast Storm	Ingress Rate	Egress Rate	MAC Limit	PVID		
	GE1		enable	off	enable	512	0	512	0	0	0	100		
	GE2		enable	off	enable	512	0	512	0	0	0	1		
	GE3		enable	off	enable	512	0	512	0	0	0	1		
	GE4		enable	off	enable	512	0	512	0	0	0	1		
	CEF		onoblo	off	anabla	510	0	510	0	0	0	4		
	GED		enable	011	endble	012	0	512	v	v	v	<u> </u>		

ONU configuration

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

ONU	Status	Basic Setting	Application	Maintenance	e ONU Profile	ONU
ONO	Authentication	ONU Global	ONU Port		ONU Alarm	
asic Info	10.00					
_AN	VLAN					
ort Class	PON ID	PON1	•			
Iticast VLAN	ONU ID	1	•			
Iticast Port	ONU Port	Port1	-			
onitor Status						
Monitor Current	VLAN Informatio	n				
	VLAN Mode	Transparent				
	PVID Value	0				
	Port VLAN Value					
	VLAN Configura	tion				
	VLAN Mode	tag	•			
	PVID Value	100	(1-4095)			

8.2 IPTV With VLAN 200

OLT configuration



Step 1: Create a new VLAN.

OLT Web Managen	nent Inte	rface										admin	G
Basic Setting	S	tatus		Basic	Setting	Applica	ation	Main	tenance	ONU	I Profile	ON	U
Basic Setting	١	/LAN		Port		QOS	;	MAC		Security	/		
New VLAN	Nov. 10.1												
Port VLAN	New VL	AN											
QinQ	VLAN ID		20	0	(1-4094)								
VLAN IP	Descriptio	DN	vla	n200									
	VLAN Ta	ible	Au	u									
	VLAN ID	Description	Edit D	Delete									
	1	default	0										
	100	vlan100	1	Delete									
	960	vlan960	/	Delete									
	1000	vlan1000	1	Delete									
	1001	vlan1001	1	Delete									
	1010	vlan1010	/	Delete									

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

OLT Web Managen	nent Interface					admin 🕞
Decis Cotting	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
ваяю зешид	VLAN	Port	QOS	MAC	Security	
New VLAN	De a MANICE - Comme					
Port VLAN	Port VLAN Configurat	ion				
	VLAN ID	200 👻				
QinQ	GE1	None C Tag C Untag				
VLAN IP	GE2	None O Tag O Untag				
	GE3	None C Tag C Untag				
	GE4	None C Tag C Untag				
	GE5	None C Tag C Untag				
	GE6	● None C Tag C Untag				
	GE7	None ○ Tag ○ Untag				
	GE8	None C Tag C Untag				
	GE9	CNone ⊙Tag CUntag				
	GE10	⊙ None ◯ Tag ◯ Untag				
	GE11	⊙ None ○ Tag ○ Untag				
	GE12	⊙ None ○ Tag ○ Untag				
	GE13	⊙ None ○ Tag ○ Untag				
	GE14	⊙ None ○ Tag ○ Untag				
	GE15	⊙ None ○ Tag ○ Untag				
	GE16	⊙ None ○ Tag ○ Untag				
	PON1	C None ☉ Tag C Untag				
	PON2	⊙ None ○ Tag ○ Untag				
	PON3	⊙ None ○ Tag ○ Untag				
	PON4	⊙ None ○ Tag ○ Untag				
	PON5	⊙ None ○ Tag ○ Untag				
	PON6	None C Tag C Untag				
	PON7	None C Tag C Untag				

Step 3: Enable the IGMP status.



OLT Web Managen	nent Interface					admin 🕞
Application	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
Application	IGMP	RSTP	ARP Proxy	DHCP	Static Route	
Global Setup	IGMP Configuration					A
Port Setup						
Port User VLAN	IGMP Status	Enable -				
Port Mrouter	Last Member Query Interval	1 (1-255s)				
Static Group	Last Member Query Respons	e 1 (1-255s)				
	General Query Packet	O Disable I Enable				
	General Query Interval	125 (10-255s))			
	Query Source IP	1.1.1.1				
		Submit Reset				

Step 4: Add the IGMP user VLAN and group VLAN

OLT Web Management Interface										
Application	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU				
Application	IGMP	RSTP	ARP Proxy	DHCP	Static Route					
Global Setup	User VI AN Configurati	on.								
Port Setup	USER VEAN CONTIGUTAT									
Port User VLAN	Port ID	PON1 -								
Port Mrouter	Group VLAN ID	200 •								
Static Group		Add								
	User VLAN Table									
	Port ID LISON AN ID	Sroup VLAN ID Delete								
	T OILD OSE VENUE	STOLD Delete								

Step 5: Add the M-router in GE port

OLT Web Managem	nent Interface					admin 🕞
Application	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
Application	IGMP	RSTP	ARP Proxy	DHCP	Static Route	
Global Setup	Add Multicast Router					
Port Setup	Add multicust fronter					
Port User VLAN	Port ID	GE9 •				
Port Mrouter	Group VEAN ID	Add				
Static Group	Multicast Router Table	_				
	Port ID Group VLAN ID D	elete				

ONU configuration

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



OLT Web Manager	ment Interface					admin 🕞
ONU	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
ONO	Authentication	ONU Global	ONU Port		ONU Alarm	
Basic Info						
VLAN	VLAN					
Port Class	PON ID	PON1 ·				
Multicast VLAN	ONU ID	2 •				
Multicast Port	ONU Port	Port1 -				
Monitor Status						
Monitor Current	VLAN Information					
	VLAN Mode					
	PVID Value	0				
	Port VLAN Value					
	VLAN Configurati	on				
	VLAN Mode PVID Vlaue	tag 200	 (1_4095) 			
		Commit	(. 1000)			

Step 7: Configuration multicast VLAN

OLT Web Manage	ment Interface					admin 🕞
	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU
ONO	Authentication	ONU Global	ONU Port	ONU VolP	ONU Alarm	ONU Private
Basic Info	Multi-est MI AN					
VLAN	MUTUCAST VLAN					
Port Class	PONID	PON1 -				
Multicast VLAN	ONUID	2 -	1			
Multicast Port	ONU Port	Port1 -				
Monitor Status						
Monitor Current	Multicast VLAN Co	nfiguration				
	Multicast VLAN	200 (1- Add	4095)			
	Multicast VLAN De	elete				
	Clear					

Step 8: Configure the IGMP VLAN tagstrip mode



OLT Web Managem	ent Interface					admin 🖙			
ONU	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU			
ONO	Authentication	ONU Global	ONU Port		ONU Alarm	ONU Private			
Basic Info									
VLAN	Multicast Port								
Port Class	PONID	PON1 -							
Multicast VLAN	ONU ID	2 -							
Multicast Port	ONU Port	Port1 -							
Monitor Status									
Monitor Current	Multicast Max Gro	oup							
	Multicast Max Group 64 (0-4096)								
	Multicast Port Info	ormation							
	Tagstrip Mode	no strip							
	Tagstrip Value								
	Multicast Port Co Tagstrip Mode	nfiguration Strip -							

8.3 VoIP With VLAN 300

OLT Configuration

Step 1: Create a new VLAN

OLT Web Managem	nent Interfa	ce							admin	C>
Basic Setting	Statu	ıs	Ba	sic Setting	Application	Maintenar	nce	ONU Profile	ON	U
Basic Octaing	VLA	N	Port		QOS	MAC		Security		
New VLAN Port VLAN	New VLA	N								
QinQ	VLAN ID			300	(1-4094)					
VLAN IP	Descriptio	n	5	/lan300						
	VLAN Tab	ble		Add						
	VLAN ID	Description	Edit	Delete						
	1	default	0							
	100	vlan100	ø	Delete						
	200	vlan200	ø	Delete						
	960	vlan960	ø	Delete						
	1000	vlan1000	ø	Delete						
	1001	vlan1001	Ø	Delete						
	1010	vlan1010	ø	Delete						

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

OLT Web Management Interface							C >
Basic Setting	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU	
	VLAN	Port	QOS	MAC	Security		
New VLAN	Port VLAN Config	juration					
Port VLAN		300					
QinQ	GE1	None C Tag (Unter				
VLAN IP	GE2	None O Tag O	Untag				
	GE3	None C Tag	Untag				
	GE4	● None C Tag C	Untag				
	GE5	● None C Tag C	Untag				
	GE6	● None C Tag C	Untag				
	GE7	⊙ None C Tag C	ੇ Untag				
	GE8	● None C Tag C	ି Untag				
	GE9	○ None © Tag O	Untag				
	GE10	● None C Tag C	ั Untag				
	GE11	● None C Tag C	0 Untag				
	GE12	● None C Tag C	0 Untag				
	GE13	● None C Tag C	0 Untag				
	GE14	● None C Tag C	ੇ Untag				
	GE15	None C Tag C	ି Untag				
	GE16	None C Tag C	Untag				
	PON1	O None Tag C	ੇ Untag				

ONU Configuration

Step 3: Configure the VoIP global parameter

OLT Web Manage	ement Interface					admin 🕝			
ONU	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU			
ONO	Authentication	ONU Global	ONU Port	ONU VolP	ONU Alarm	ONU Private			
Basic Info									
Global	Choose ONU								
H248 Global	PONID	PON5	•						
H248 POTS	ONUID	9	-						
SIP Global									
SIP POTS	Global Parameter C	Global Parameter Config							
Fax Modem	Voice IP Mode	Static_IP	•						
IAD Oper	Tagged Flag	Tag	•						
	Voice Priority	7	(0-7)						
	Voice Clent VLAN	300	(0-4095)						
	Voice Service VLAN	300	(0-4095)						
	IAD IP Adress	192.168.3	3.123 (x.x.x.x)						
	IAD Net Mask	255.255.2	255.0 (x.x.x.x)						
	IAD Default Gateway	192.168.3	3.1 (x.x.x.x)						
		Commit							

Step 4: Setup the sip configuration

OLT Web Management Interface							
ONU	Status	Basic Setting	Application	Maintenance	ONU Profile	ONU	
	Authentication	ONU Global	ONU Port		ONU Alarm	ONU Private	
Basic Info	ONU ID	4	•				
Global		_					
H248 Global	SIP Parameter Con	fig					
H248 POTS	Heartbeat Switch	Enable	-				
SIP Global	Heartbeat Cycle	30	(1-65535)				
SIP POTS	Heartbeat Count	1	(1-65535)				
Fax Modem	SIP Register Interval	0	(0-65535)				
IAD Oper	Manage Port	5060	(1-65535)				
	Out Bound Service IP	0.0.0.0					
	Out Bound Service P	ort 5060	(0-65535)				
	SIP Proxy Service IP	192.16	8.3.45				
	SIP Proxy Service Po	ort 5060	(1-65535)				
	Backup SIP Proxy Se	rvice lp 192.16	8.3.45				
	Backup SIP Proxy Se	ervice Port 5060	(1-65535)				
	SIP Register Service	IP 192.16	8.3.45				
	SIP Register Service	Port 5060	(1-65535)				
	Backup SIP Register	Service IP 192.16	8.3.45				
	Backup SIP Register	Service Port 5060	(0-65535)				
		Comn	nit				

Step 5: Fill in the user account and password

OLT Web Manager	nent Interface					admin 🕝
ONU	Status	Basic Setting Application		Maintenance	ONU Profile	ONU
ONO	Authentication	ONU Global	ONU Port		ONU Alarm	ONU Private
Basic Info						
Global	Choose ONU					
H248 Global	PONID	PON5	-			
H248 POTS	ONUID	5	•			
SIP Global	ONU VoIP Port	Pots1	•			
SIP POTS						
Fax Modem						
IAD Oper	SIP User Parameter	Config				
	User Account	12345678	3			
	User name	12345678	3			
	User Password	0000000)			
		commit				