Single PON port AirLive GPON OLT-121 WEB USER MANUAL

For FW 1.1.1 and Higher.

o °r I i ve®

V2.0

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Chapter 1 System Description

1.1 Overview

1.1.1 OLT Introduction

The Web management user manual is for the OLT 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.

Products		Single PON port GPON OLT			
Chassis	Racks	1U			
QTY		3			
Uplink Port	Copper	2*100/1000M auto-negotiation			
	SFP(Independent)	1*SFP+ (SFP+ is compatible with 10GE)			
GPON	QTY	1			
Port	Fiber Type	9/125μm SM			
Management Mode		Console, WEB, Telnet and CLI			

Table 1-1 OLT interfaces

1.1.2 OS Requirement

For OLT management, it supports or requires the following operation system.

CPU	Memory	DISK	Video Card	Operating System
Frequency	2GB	10GB	65000 color	Windows2008
above	Or above	Disk space	resolving	Windows XP
2GHz			capability	Windows 7
			1024*768	Windows 8
			and above	Windows 10

Table 1-2 Operation System requirement

1.2 Connection

Connect the OLT Uplink port to IP network. The OLT default management IP is 192.168.8.200.

Please set your PC IP to 192.168.8.X (e.g.192.168.8.123).



Chapter 2 OLT Information

2.1 Login

Follow the steps to login:

- 1. Conform "1.2 Connection" to connect;
- 2. The device default IP address is 192.168.8.200;
- 3. Open your web browser, type the device IP in the address bar;

4. Entry of the username and password will be prompted. Enter the default login User Name and Password.

The default username and password is "admin/Xpon@Olt9417#".

OLT Web Ma	nagement Interface
Username	admin
Password	•••••
Login	Reset
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Figure 2-1-1: Login

2.2 Device Information

The OLT ports connection status are shown in the top of the interface, and about the OLT basic information.

OLT Information \rightarrow **Device Information**

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 in need.



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OLT Information OLT Configuration ONU Configuration Profile Configuration System Configuration

Device Information				
Device Status				
	D PON1	E GE1	GE2	🕎 GE3

Device Basic Information

Submit Refresh			
System Name	gpon-olt	Serial Number	AT121C70002
Hardware Version	V3.1.1	Software Version	V1.0.7
MAC Address	00:4F:5B:00:00:04	Temperature	42°C
System Time	1970 /1 /1 12:17:25	Running Time	0 Days 4 Hours 17 Minutes 26 Seconds
CPU Usage	5%	Memory Usage	48%
License Limit	Unlimited	License Time	Permanent
Software Created Time	Tue, 23 May 2023 11:48:43	Device Model	GPON-OLT

It is recommended to change your default password for this device for security and safety reasons. ChangeNow

Figure 2-2-1: Device Information

Chapter 3 OLT Configuration

3.1 VLAN

OLT equipment switch engine is fully compliant with the IEEE802.1Q VLAN standard and has the following main features:

Support Port-based VLAN and IEEE802.1Q VLAN.

Support full 512 VLAN at the same time, VLAN range is 1~4094.

All switch ports, including uplink ports and downlink ports, support VLAN partition.

VLAN 1 is the system reserved VLAN, it includes all switch ports which are untag mode. Please do not use VLAN:0,1, 2, 9, 8, 10, 4000, 4005, 4012-4017, 4095, These are system reserved VLAN's.

3.1.1 Create VLAN

OLT Configuration \rightarrow VLAN

In this user interface, you can create new VLAN.

oirlive					
	VLAN VL	AN Port			
OLT Information	New VLA	N			
OLT Configuration			_		
VLAN	VLAN ID				(1-4094, format as X or X-X)
Uplink Port	Descriptio	n			
PON			Ac	id Dele	ete
MAC	VLAN Tal	ole			
IGMP	Maximun	n: 512 vlanc			
Loopback	Used: 4 v	lans			
IP Route	VLAN ID	Description	Edit	Delete	
ONU Configuration	1	vlan_1	2		
Profile Configuration	6	vlan6		T	
System Configuration	20				
	20	vianzo			
	888	vlan888	2	İ	

Figure 3-1-1: Create New VLAN

3.1.2 VLAN Port

OLT Configuration \rightarrow **VLAN** \rightarrow **VLAN Port**

Assign the ports to the VLANs that have been created. You can choose the tag or untag VLAN mode.

oirlive®										
	VLAN VL	AN Port								
OLT Information	Port VLAN Configuration									
OLT Configuration										
VLAN	VLAN ID		1		~					
Uplink Port	Port ID	Mode		Forbidden	Tag	Untag				
PON	GE1	Hybrid	~	0	0	۲				
MAC	GE2	Hybrid	~	0	\bigcirc					
IGMP	GE3	Hybrid	~	0	0	\bigcirc				
Loopback	Submit	Reset								
IP Route	Port VLAN	l Table								
ONU Configuration	VLAN ID	Tag Ports	Unt	ao Ports						
Profile Configuration	1		GE	1 GE2 GE3						
System Configuration	-	GE1 GE2	GET	,						
	0	OLI GES	UE:	<u>~</u>						
	20									
	888	GE1 GE2								

Figure 3-1-2: Add VLAN Port

3.1.3 QinQ/Translation

OLT Configuration \rightarrow VLAN \rightarrow QinQ/Translation

In this page, VLAN QinQ and VLAN translation can be configured. VLAN QinQ and translation are applied to the incoming direction of port traffic.

Figure 3-1-3: VLAN QinQ/Translation

3.1.4 P2P

OLT Configuration \rightarrow VLAN \rightarrow P2P

In this page, P2P functionality can be enabled based on VLAN.

	VLAN	VLAN Port	QinQ/Translation	P2P	DSCP	
OLT Information	P2P (Configuration	n			
OLT Configuration						
VLAN	Vlan()	1-4094)			(v	an requires ip configuration)
Uplink Port		/I AN Table	Add			
PON	FZF V					
MAC	Vlan	Delete				
QoS	1	<u>Delete</u>				
ACL	3000	Delete				
IPv6 ACL						
IGMP						

Figure 3-1-4: P2P Function

3.1.5 DSCP

OLT Configuration \rightarrow **VLAN** \rightarrow **DSCP**

In this page, you can manually configure the DSCP value of IP packets, set the DSCP mapping to a new DSCP, and support the configuration of IP DSCP mapping VLAN priority.

	VLAN V	LAN Po	rt Qi	nQ/Tran	slation	P2P	DSC	Р										
OLT Information	IP DSCP	Confic	Juratio	n														
OLT Configuration																		
VLAN	DSCP	value:	auto					(0-63.)	auto: re	store in	dscp to	autor	natic)					
Uplink Port				Subr	nit Au	ito		(0 00)			asop e	o daton						
PON																		
MAC	DSCP To	DSCP To New DSCP																
QoS	DSCP			0		8	1	6	24		32		40		48	5	6	
ACL	New DSC	P		0		8		.6	24		32		40		48		56	(0-63)
IPv6 ACL				Subn	nit													
IGMP	Notice:Su	lotice:Support DSCP-to-DSCP in IPv4.																
IPv6 MLD	IP DSCP	IP DSCP Mapping Vlan Priority Configuration																
STP	Ctatus																	
Loopback	Status			Subr	nit		•											
DHCP	DSCP			Jupin	inc			(0-63)										
DHCPv6	New COS							(0-7)										
IPv6 SLAAC	11011 000	, 		Subr	nit			(0 / /										
IP Route																		
IPv6 Route	IP DSCP	Маррі	ing Vla	n Prior	ity Tab	le												
WAN	DSCP	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
ARP Table	COS	0	0	-	0	0	0	0	0	1	1	1	1	1	1	1	1	
ONU Configuration																		
Profile Configuration	Edit							2										
System Configuration	DSCP	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
	COS	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	
	Edit	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	

Figure 3-1-5: DSCP Configuration

3.2 Uplink Port

GE ports traffic statistics and basic configuration setting.

3.2.1 Information

OLT Configuration \rightarrow Uplink Port \rightarrow Information

This user interface displays traffic statistics of uplink ports.



airli▼e®										Save 🤇		Log St	atus Ol	NU list I	.ogout
	Inform	nation (onfigurat	ion Optical Inf	ormation										
OLT Information	Traf	raffic Statistics													
OLT Configuration															
VLAN	Cle	Glear Counters Refresh													
Uplink Port	Por	t Link	Coord	Dy Dutos		Rx Packets					Tx Pac	kets		Colliciono	Errora
PON	ID	Status	Speed	KX Bytes	Packets	Unicast	Broadcast	Multicast	TX Bytes	Packets	Unicast	Broadcast	Multicast	Comsions	EITOIS
MAC	GE1	Down	-	0	0	0	0	0	0	0	0	0	0	0	0
IGMP	0.000		1000M	260500040015	420162077	270260125	20010602	2660220	74221001220	202501222	204277216	6025221	2470606		
Loopback	GEZ	Up	Full	368580049015	429102977	379308125	38810682	3000328	74231801339	293581333	284277310	0825321	2478090	0	
IP Route	GE3	Down	-	0	0	0	0	0	4213905987	45599873	1674165	38492215	5433493	0	0
ONU Configuration															
Desfile Configuration															

Figure 3-2-1: GE Traffic Statistics

3.2.2 Configuration

OLT Configuration \rightarrow Uplink Port \rightarrow Information

This user interface is used to configure port related functions and characteristic parameters of uplink port, such as port attributes, PVID, flow control, rate limit, storm suppression and so on.

airlive®										Sa	ve 🥚	Lo) Status	ONU list
••••••	Informati	ion Configu	ration Optic	al Information										
OLT Information	GE Con	figuration												
OLT Configuration														
VLAN	Submit	Reset			_									
Uplink Port	Port ID	Description	Admin Status	Speed		Flow Control	PV	ID	Storm(0 64-	-13000kbps)	Rate(0 64-1	.000000kbps)	MAC Limit	(0-16384)
PON		-		-					Broadcast	Unicast	Ingress	Egress		
MAC	GE1			Auto	~		1	~	1496	1496	0	0	0	
IGMP	GE2			Auto	~		6	~	1496	1496	0	0	0	
Loopback	GE3			10G Full	~		1	~	1496	1496	0	0	0	
IP Route														
ONUL Configuration														

г. 222	TT 1' 1 D /	0 ° .
Figure 3-2-2:	Uplink Ports	Configuration

Illustrations of each parameter:

Parameters	Illustration
Port ID	GE port has two types, copper (GE1 to GE2) and fiber SFP (GE3).
Description	Descriptions or remarks of port.
Admin Status	Active or inactive status of port. It is enabled by default.
Speed	Configuring Port Rate.
Flow Control	Enable or disable flow control function of uplink port to control congestion. It is disabled by default.
PVID	Default VLAN ID of the port.
Broadcast	Broadcast storm suppression.
Unknown Unicast	Unknown unicast storm suppression.
Ingress Rate	Port ingress rate.
Egress Rate	Port egress rate.
MAC limit	Number of MAC address can be learnt in the port.

3.2.3 Optical Information

OLT Configuration \rightarrow Uplink Port \rightarrow Optical Information

This page can be used to view the optical port temperature, voltage, current, transmitted and received optical power and other parameters

oirlive®						Save
	Informatio	n Configuration	Optical Infor	mation		
OLT Information	Optical 1	ransceiver				
OLT Configuration	·					
VLAN	Port ID	Temperature(Degree)	Voltage(V)	Bias Current(mA)	Transmit Power(dBm)	Received Power(dBm)
Uplink Port	GE3	N/A	N/A	N/A	N/A	N/A
PON	Refresh					
MAC		-				

Figure 3-2-3: Optical Information

3.3 PON

3.3.1 Information

OLT Configuration \rightarrow **PON** \rightarrow Information

This user interface is used to displays parameters of PON port, such as PON module port current temperature, Voltage, current, transmit power.

oirli v e®							
	Optical In	formation	Traffic	: Statistics	Configuration	Range	
OLT Information	Optical	Transceive	er				
OLT Configuration							
VLAN	Port ID	Temperatu	re(°C)	Voltage(V)	Bias Current(mA) Transm	nit Power(dBm)
Uplink Port	PON1	62.41	.4	3.352	8.290		7.110
PON							
MAC							
IGMP							
Loopback							

Figure 3-3-1: PON Information

3.3.2 Traffic Statistics

OLT Configuration \rightarrow **PON** \rightarrow Traffic Statistics

oirlive®									
	Optical Info	rmation Tr	affic Statisti	ics Conf	iguration	Range			
OLT Information	Traffic Sta	atistics							
OLT Configuration									
VLAN	Clear Cou	unters Refre	esh						
Uplink Port		I	Rx Packets			Tx Packets			
PON	Interface	Packets	Broadcast	Multicast	Packets	Broadcast	Multicast	Collisions	Errors
MAC	PON1	294494417	6001912	3239478	424224313	40826096	3044776	0	0
IGMP						1			
Loopback									



3.3.3 Configuration

OLT Configuration \rightarrow **PON** \rightarrow Configuration

This page is used to configure functions and characteristic parameters of the PON port, such as port attributes, storm suppression, and rate limiting.

airlive							
	Optical In	formation	Traffic Statistics	Configurat	ion Range		
OLT Information	PON Co	nfiguration					
OLT Configuration		,					
VLAN	Submit	Refresh					
Uplink Port	Port ID	Description	Admin Status	Storm(0 64-1	.000000kbps)	Rate(0 64-1	000000kbps)
PON				Broadcast	Unicast	Ingress	Egress
MAC	PON1			1496	1496	0	0
IGMP							
Loopback							



3.3.4 ALS Configuration

OLT Configuration \rightarrow **PON** \rightarrow Configuration

This page is used to configure port status. When the function is turned on and PONLOS is detected, the laser will be turned off. If the restart mode is auto, set the number of cycles to turn on the laser and the duration for how many seconds. If an ONU is found during the turning on of the laser, keep the laser on until the PONLOS signal is received again.

If it is in manual mode, after turning off the laser, it needs to be manually restarted using the no shutdown command.

	Optical Information Traffic Statistics Configuration ALS Configuration Range
OLT Information	ALS Configuration
OLT Configuration	
VLAN	Submit Refresh
Uplink Port	Port ID State Restart Mode interval(20-20000s) width(2-200s)
PON	PON1 auto • 100 2
MAC	Nation
QoS	1.In manual mode, after turning off the laser light emission, you need to execute the "no shutdown" command
ACL	on the PON port on the command line to turn on the laser for ONU registration.
IPv6 ACL	2. Jurning the ais function on or off while the laser is off also requires executing the no shutdown command on the PON port on the command line to turn the laser on for ONU registration.
IGMP	

Figure 3-3-4: ALS Configuration

3.3.5 Range

OLT Configuration \rightarrow **PON** \rightarrow **Range**

When ONU is more than 20km away from OLT, you need to configure PON distance range. The difference between minimum and maximum should not be more than 20km. The unit is 100m.

For example, ONU is 25km away from OLT, the minimum is 50 and the maximum is 250.

airli√e®							
	Optical Inf	formation	Traffic	Statistics	Configuration	Range	
OLT Information	PON Rai	nge Config	uration				
OLT Configuration							
VLAN	Submit	Refresh					
Uplink Port	Port ID	Min(10	0M)	Max(1)	00M)		
PON	PON1	0	(0-599)	200	(1-600)		
MAC							
IGMP							

Figure 3-3-5: PON Range Configuration

3.4 MAC

In this section, you can check MAC address table of OLT, set MAC aging time and add MAC address manually.

3.4.1 MAC Table

OLT Configuration \rightarrow MAC \rightarrow MAC Table

This table displays MAC addresses that OLT has learned at PON ports and GE ports.

	MAC Table	PON MAC Table	Configurati	on
OLT Information	MAC Add	ress Table		
OLT Configuration				
VLAN	Port ID	ALL	•	Coarch
Uplink Port	mac numb	ers 4		Search
PON	inde name			
MAC	Clean	Refresh		
IGMP	VLAN ID	MAC	Туре	Physical Port
Loopback	1	C8:4D:44:25:2D:C	9 Dynamic	GE 0/2
DHCP	100	00:4F:4B:B2:15:D	A Dynamic	GE 0/1
IP Route	100	00:4E:5B:00:01:25	5 Dynamic	GPON
ONU Configuration	100	00:45:48:82:15:0	Dynamic	CE 0/1
Profile Configuration	100	00.4F.4B.B2.13.D	bynamic	02 0/1

Figure 3-4-1: MAC Address Table

3.4.2 PON MAC Table

OLT Configuration → **MAC** → **PON MAC Table**

This table displays MAC addresses that OLT has learnt at PON ports.

0	MAC Tab	le PON	MAC Table	Config	uration	
OLT Information	PON M		ss Table: 1 n	acs		
OLT Configuration	10111			lucs		
VLAN	Pon ID	l	ALL		~	
Uplink Port	Refre	sh				
PON	Index		МАС		Pon:Onu	Gemport Index
MAC	1	100	00.46.55.00.	01.25	1.2	1
IGMP	1	100	00.41.50.00.	01.25	1.2	1
Loopback						
DHCP						
IP Route						
ONU Configuration						
Profile Configuration						
System Configuration						

Figure 3-4-2: PON MAC Table

3.4.3 Configuration

OLT Configuration \rightarrow MAC \rightarrow Configuration

The default MAC aging time of OLT is 300s, user can change the value between 10~1000000s. Also, user can add MAC address to the OLT manually.

airlive	D		
	MAC Table PON MAC	Table Configuration	
OLT Information	MAC Aging Configu	ration	
OLT Configuration			
VLAN	Automated Aging	Enable 🗸	
Uplink Port	Aging Time	300	(10-100000s)
PON		Submit	
MAC	Add MAC Address		
IGMP			
Loopback	MAC Address		(нн-нн-нн-нн-нн)
IP Route	Type	Static O Dynamic	
ONU Configuration	Port ID	GE1 V	
Profile Configuration		Add Delete	
System Configuration			

Figure 3-4-3: MAC Configuration

3.5 QoS

OLT Configuration \rightarrow QoS \rightarrow QoS

When bandwidth is insufficient or there is congestion in the network, queue scheduling can ensure that high priority data traffic passes through the device first. Traffic will be mapped to the queue based on its priority and transmitted within the queue.

OLT supports a total of 8 queues. The queue scheduling modes include strict priority (SP), weighted loop (WRR), and mixed mode (SP-WRR).

Strict priority scheduling ensures the bandwidth occupied by high priority traffic. Traffic with lower priority will only pass through when there is remaining bandwidth.

	QoS
OLT Information	QoS Configuration
OLT Configuration	
VLAN	Qos Status Enable V
Uplink Port	
PON	Queue ID Queue Priority
MAC	Q1 1
QoS	02 2
ACL	03 3
IPv6 ACL	
IGMP	
IPv6 MLD	Submit
STP	Qos Rules
Loopback	Access List ID (1-100)
DHCP	Queue ID (1-4)
DHCPv6	DSCP (0-63)
IPv6 SLAAC	Source MAC (HH:HH:HH:HH:HH)
IP Route	Source IP Mask
IPv6 Route	
WAN	
ARP Table	
ONU Configuration	Destination Port (0-65535)
Profile Configuration	Protocol TCP V
System Configuration	Add
	QOS KUIE TADIE
	List ID Queue ID DSCP Source MAC Source IP Source Port Destination IP Destination Port Protocol Delete

Figure 3-5-1: Qos Configuration

3.6 ACL

In order to filter packets, network devices need to set a series of rules to determine the content that needs to be filtered. These packets can only be filtered if they match the rules. Access control lists can achieve this function. The matching criteria for access control list rules can be source address, destination address, Ethernet type, VLAN, protocol port, etc. These access control list rules can also be used in other situations, such as the classification of flows in quality of service. Access control list rules can contain one or more sub rules with different matching conditions.

This device supports the following types of access control lists.

3.6.1 IP/MAC Filter

OLT Configuration \rightarrow **ACL** \rightarrow **IP/MAC Filter**

The filter is mainly based on IP/MAC addresses, including source IP address and destination IP address, source MAC address and destination MAC address.

airlive

	IP/MAC F	ilter Configura	tion							
OLT Information	Access	List Configurati	on							
OLT Configuration		-								
VLAN	Access I	List ID			(1-7999)					
Uplink Port	Filter Ac	ction	Deny O P	ermit						
PON	Filtering	Direction	Input	•						
MAC	Sou Sou	Irce MAC			(нн:нн:нн:нн	I:HH:HH)				
QoS	🗌 Sou	Irce IP			Mask					
ACL	🗌 Sou	Irce Port			(0-65535)					
IPv6 ACL	Des	stination IP			Mask					
IGMP	🗌 Des	stination Port			(0-65535)					
IPv6 MLD	Prot	tocol	ТСР	~		(0	-255)			
STP			Add							
Loopback	Access	Lists Configure	d							
DHCP	Line TD	0		D. Course Doort	Destination to	Deather the De	at Darks and	cilla de a Discation	Tillion Antion	Delate
DHCPv6	LIST ID	Source MAC	Source 1	P Source Port	Destination IP	Destination PC	rt Protocol	Filtering Direction	Filter Action	Delete
IPv6 SLAAC	1	6c:68:a4:c6:bb	a1					Input	Deny	Ū
IP Route										

Figure 3-6-1: IP/MAC Filter

3.6.2 Configuration

OLT Configuration \rightarrow ACL \rightarrow Configuration

The main configuration controls the access list status and effective period.

	IP/MAC Filter Configuration
OLT Information	Access List status
OLT Configuration	
VLAN	Access List status Disable
Uplink Port	Submit Notice: This switch is used to enable or disable the ACL at any time, does not affect the timing function
PON	Notice, this switch is used to enable of disable the ACE at any time, does not affect the driling function.
MAC	Effective Period
QoS	Effective Period 00:00 ~ 00:00 (HH:MM ~ HH:MM)
ACL	Submit Reset
IPv6 ACL	Notice: The function will be turned off if the effective and ineffective times are the same.
IGMP	

Figure 3-6-2: Configuration

3.7 IPv6 ACL

This section is about the IPv6 security configuration of OLT. IPv6 access control lists can allow or deny data transmission or access through IPv6 packets.

3.7.1 IPv6/MAC Filter

OLT Configuration \rightarrow IPv6 ACL \rightarrow IPv6/MAC Filter

The filter is mainly based on IPv6/MAC addresses, including source and destination IPv6 addresses, as well as source and destination MAC addresses.

-									
	IPv6/MAC Filter Conf	iguration							
OLT Information	Access List Configur	ation							
OLT Configuration									
VLAN	Access List ID			(1-7999)					
Uplink Port	Filter Action	O Deny	Permit	_					
PON	Filtering Direction	Input	~	·					
MAC	Source MAC			(HH:HH:HH:H	H:HH:HH)				
PIAC .	Source IPv6			Prefixlen					
005	Source Port			(0-65535)					
ACL				Deefeder					
IPv6 ACL	Destination Ipv6			Pretixien					
IGMP	Destination Port			(0-65535)					
IPv6 MLD	Protocol	TCP	~		(0-	255)			
STP		Add							
Loopback	Access Lists Configu	red							
DHCP				De l'alla de la		0.1.1		ethors and the	
DHCPv6	LIST ID Source MAC	Source IPv6	Source Port	Destination Ipv6	Destination Port	Protocol	Filtering Direction	Filter Action	Delete
IPv6 SLAAC	1	2023::33/64					Input	Deny	
IP Route									

Figure 3-7-1: IPv6/MAC Filter

3.7.2 Configuration

OLT Configuration \rightarrow **IPv6 ACL** \rightarrow **Configuration**

The main configuration controls the access list status and effective period.

	IPv6/MAC Filter Configuration
OLT Information	Access List status
OLT Configuration	
VLAN	Access List status Disable
Uplink Port	Submit Notice: This switch is used to enable or disable the ACL at any time, does not affect the timing function
PON	Notice. This switch is used to enable of disable the ACE at any time, does not affect the driving function.
MAC	Effective Period
QoS	Effective Period 00 : 00 ~ 00 : 00 (HH:MM ~ HH:MM)
ACL	Submit Reset
IPv6 ACL	Notice: The function will be turned off if the effective and ineffective times are the same.
IGMP	
IPv6 MLD	

Figure 3-7-2: Configuration

3.8 IGMP

3.8.1 Group Member

$OLT \ Configuration \rightarrow IGMP \rightarrow Group \ Member$

When there is a multicast group produced, the group will display in this table.

oirlive®						
	Group Member	Global	Port	Port User VL/	AN Port Mrouter	Static Group
OLT Information	IGMP Group M	ember				
OLT Configuration						
VLAN	Refresh					
Uplink Port	Group VLAN ID	IP Addre	ess Por	t ID Type Us	er VLAN ID	
PON		1946	10			
MAC						
IGMP						
Loopback						
IP Route						

Figure 3-8-1: Group Member

3.8.2 Global

OLT Configuration \rightarrow **IGMP** \rightarrow **Global**

IGMP basic configuration mainly contains parameters of query packet and member timeout. When IGMP status is enabled, OLT works at IGMP snooping mode. IGMP snooping is the process of listening to Internet Group Management Protocol (IGMP) network traffic. The feature allows a network switch to "listen in" on the IGMP conversation between hosts and routers. By listening to these conversations, the switch maintains a map of which devices need which IP multicast streams. Multicasts may be filtered from the ports which do not need them and thus controls which ports receive specific multicast traffic. When IGMP status is disabled, OLT works at transparent mode.

oirli v e®								
	Group Member	Global	Port	Port User VLAN	Port Mrou	iter Static Gr	oup	
OLT Information	IGMP Configu	ration						
OLT Configuration	-							
VLAN	IGMP Status			Enable	~			
Uplink Port	Member Port T	imeout		260	((10-3600s)		
PON	Query Respons	e Time		300	((10-3600s)		
PON	Last Member Q	uery Interv	al	1	((1-255s)		
MAC	Last Member Q	uery Count		2	((1-255)		
IGMP	Last Member Q	uery Respo	nse	1	((1-255s)		
Loopback	General Query	Packet		Disable Enable				
IP Route	General Query	Interval		125	(10-255s)		
ONU Configuration	Query Source IP			1.1.1.1				
Profile Configuration				Submit Reset				
System Configuration								

Figure 3-8-2: IGMP Global

3.8.3 Port

OLT Configuration \rightarrow **IGMP** \rightarrow **Port**

This configuration is used to set the maximum number of multicast groups, filter and fast leave mode.

airlive	D							
	Group Me	mber	Global	Port	Port User VLAN	Port Mrouter	Static Group	
OLT Information	Port Cor	ofigurat	tion					
OLT Configuration			1					
VLAN	Submit	Reset						
Uplink Port	Port ID	Fast Lea	ve Filter	Group	Limit(0-1024)			
PON	GE1			t	.024			
MAC	GE2				.024			
IGMP	GE3				.024			
Loopback	PON1			I	.024			
IP Route								
ONU Configuration								



3.8.4 Port User VLAN

OLT Configuration \rightarrow **IGMP** \rightarrow **Port** User VLAN

This configuration is used to configure IGMP VLAN for OLT. Generally, PON ports should be configured, and user VLAN and group VLAN are the same. If user VLAN and group VLAN are different, multicast VLAN will be translated.

airlive							
	Group Me	mber Global	Port Port	User VLAN	Port Mrouter	Static Group	
OLT Information	User VL	AN Configurat	tion				
OLT Configuration							
VLAN	Port ID		GE1	~			
Uplink Port	User VLA	AN ID	1	~			
PON	Group VI	lan id	1	~			
MAC	User VL	AN Table	Aud				
IGMP		1		1 1			
Loopback	Port ID	User VLAN ID	Group VLAN ID) Delete			
IP Route	PON1	20	20	i i i i i i i i i i i i i i i i i i i			
ONU Configuration							
Drafile Configuration							

Figure 3-8-4: IGMP Port User VLAN

3.8.5 Port Mrouter

OLT Configuration \rightarrow **IGMP** \rightarrow **Port** Mrouter

Multicast router port is used to transmit IGMP signal messages. Generally, OLT uplink ports should be set as multicast router ports.

airlive®							
	Group Member	Global	Port	Port User VLAN	Port Mrouter	Static Group	
OLT Information	Add Multicast	Router					
OLT Configuration							
VLAN	Port ID		GE1	~			
Uplink Port	Group VLAN ID		1	~			
PON	Multicast Rou	ter Table	Add				
MAC				-			
IGMP	Port ID Group	VLAN ID	Delete				
Loopback	GE1 1		İ]			
IP Route				1			
ONUL Configuration							



3.8.6 Static Group

OLT Configuration \rightarrow **IGMP** \rightarrow **Static** Group

This configuration is used to bind multicast IP address and VLAN ID.

oirli v e®								
	Group Member	Global	Port	Port User \	/LAN	Port Mrouter	Static Group	
OLT Information	Add Static Gro	pup						
OLT Configuration								
VLAN	Port ID		PON1		~	~		
Uplink Port	IP Address		<u> </u>					
PON	User VLAN ID		1 Add		~			
MAC	Static Group 1	able	Add					
IGMP								
Loopback	Port ID IP Ad	dress Us	er VLAN	ID Delete				
IP Route								
ONU Configuration								

Figure 3-8-6: IGMP Static Group

3.9 IPv6 MLD

3.9.1 Group Member

OLT Configuration \rightarrow IPv6 MLD \rightarrow Group Member

When a MLD group is generated, it will be displayed in this table.



	Group Member	Global	Port User	VLAN F	Port Po	ort Mrouter	Static Group
OLT Information	IPv6 MLD Gro	up Memb	er				
OLT Configuration							
VLAN	User VLAN ID	Group Ad	ldress Type	Version	Port ID	Group VLAN	ID
Uplink Port	Refresh						
PON							
MAC							
QoS							
ACL							

Figure 3-9-1: Group Member

3.9.2 Global

OLT Configuration \rightarrow **IPv6 MLD** \rightarrow **Global**

The basic configuration of MLD mainly includes query packet parameters and member timeout parameters. When MLD mode is enabled, OLT operates in MLD listening mode. MLD monitoring is the process of monitoring Internet group management protocol (MLD) network traffic. This feature allows network switches to "listen" to MLD conversations between hosts and routers. By monitoring these conversations, the switch maintains a mapping of which devices require which IP MLD streams. MLD can enter line filtering from ports that do not require them, thereby controlling which ports receive specific MLD traffic. When MLD status is disabled, OLT operates in transparent mode.

	Group Member Global	Port User VLAN	Port Port M	router Static Group
OLT Information	IPv6 MLD Configuration	n		
OLT Configuration	-			
VLAN	MLD Status	Enable	~	.
Uplink Port	Query interval	125		(1-255s)
PON	Query response interval	10		(1-64s)
MAC	Robustness variable	2		(1-3)
005	Last listener query count	2		(1-7)
205 ACI	Last listener query interva	al 1		(1-255s)
ACL	Send general query packe	et 🦲 Disable	O Enable	
IPv6 ACL	MLD Version	MLDv2	~	
IGMP	General Query Interval	125		(10-3600s)
IPv6 MLD	Query Source IP	fe80::1]
STP		Submit	Reset	
Loopback				
DHCP				

Figure 3-9-2: Global

3.9.3 Port User VLAN

OLT Configuration \rightarrow IPv6 MLD \rightarrow Port User VLAN

This configuration is used to configure MLD VLAN for OLT. Generally, PON ports should be configured, with the same user VLAN and group VLAN. If they are different, the MLD data VLAN will be converted and forwarded.

-						·	
	Group Memb	oer Global	Port User VLA	N Port	Port Mrouter	Static Group	
OLT Information	User VLAN	A Configurat	ion				
OLT Configuration		-					
VLAN	Port ID		GE1	~			
Uplink Port	User VLAN	ID	1	~			
PON	Group VLA		Add	•			
MAC			Add				
QoS	User VLAN	l Table					
ACL	Port ID II	ser VLAN ID	Group VLAN ID	Delete			
IPv6 ACL		SCI VERIVID					
IGMP	GE1	1	1				
IPv6 MLD	Refresh						
STP							

Figure 3-9-3: Port User VLAN

3.9.4 Port

OLT Configuration \rightarrow IPv6 MLD \rightarrow Port

This configuration is used to set the group limit, filtering, and fast departure mode for MLD ports.

			(
	Group Me	mber Gl	obal Po	ort User VLAN	Port	Port Mrouter	Static Group
OLT Information	Port Co	nfiguratio	n				
OLT Configuration							
VLAN	Port ID	Fast Leave	Group Lir	mit(0-256)			
Uplink Port	GE1		256	;			
PON	GE2		256	;			
MAC	GE3		256	;			
QoS	PON1		256	;			
ACL	Submit	Reset					
IPv6 ACL							
IGMP							
IPv6 MLD							

Figure 3-9-4: Port

3.9.5 Port Mrouter

OLT Configuration \rightarrow **IPv6 MLD** \rightarrow **Port Mrouter**

The MLD router port is used to transmit MLD signal messages. Usually, the line port on the OLT should be set as a MLD router port.



	Group Member	Global	Port Use	r VLAN	Port	Port Mrouter	Static Group
OLT Information	Add Multica	st Router					
OLT Configuration							
VLAN	Port ID	_	GE1		~		
Uplink Port	Group VLAN I	ID	1		~		
PON			Adu				
MAC	Multicast Ro	outer Table					
QoS	Dort ID Cro		Tuno	alata			
ACL	POIL ID GIO	UP VLAN ID	Type D	elete			
IPv6 ACL	GE3	1	static	Ū.			
IGMP	Refresh						
IPv6 MLD							
6 7 70							

Figure 3-9-5: Port Mrouter

3.9.6 Static Group

OLT Configuration \rightarrow IPv6 MLD \rightarrow Static Group

This configuration is used to bind MLD IPv6 addresses and VLAN ID.

	Group Member	Global	Port U	ser VLA	N Por	t Po	ort Mrout	er St	atic Group
OLT Information	Add Static Gro	oup							
OLT Configuration		-				_			
VLAN	Port ID		GE1		<u> </u>				
Uplink Port	IPV6 Address								
PON	USER VLAN ID		Add						
MAC			Add						
QoS	Static Group 1	able							
ACL	User VLAN ID	Group VI		Group	Type Ve	rsion	Port ID	Delete	
IPv6 ACL	Defreek	oroup vi			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	a sion	T OF LD	Delete	
IGMP	Refresh								
IPv6 MLD									
STP									

Figure 3-9-6: Static Group

3.10 STP

The spanning tree protocol is a second layer protocol that eliminates network loops by selectively blocking redundant network links. It also has the feature of link backup.

3.10.1 RSTP

The Fast Spanning Tree Protocol (RSTP) is defined by the IEEE 802.1w standard, which has been improved on the basis of STP to achieve fast convergence of network topology. Its "speed" is reflected in the fact that when a port is selected as the root port and designated port, the delay for it to enter forwarding state will be greatly

reduced, thereby shortening the time required for the network to ultimately reach topological stability.

3.10.1.1 Information

OLT Configuration \rightarrow **STP** \rightarrow Information

The RSTP information mainly displays the spanning tree protocol parameters of the root bridge device.

\sim							
	Information G	obal Port					
OLT Information	RSTP Informat	ion					
OLT Configuration							
VLAN		Root		Bridge			
Uplink Port	Cost	0					
PON	Port	CPU					
MAC	Priority	32768		32768			
QoS	MAC Address	ddress 00:50:C2:01:02:03 00:50:C2:01:02:03					
ACL	Hello Time	Hello Time 2s 2s					
IPv6 ACL	Max Age	20s					
IGMP	Forward Delay	15s		15s			
IPv6 MLD							
STP							
Loopback	RSTP Port Stat	us					
DHCP	Refresh						
DHCPv6	Port ID Role	State	Cost	Priority	Point To Point		
IPv6 SLAAC	GE1 Design	Forwarding	20000	128	Enable		
IP Route	Der Design	1 or war unity	20000	120	Lindbic		
IPv6 Route							

Figure 3-10-1: RSTP Information

3.10.1.2 Global

OLT Configuration \rightarrow **STP** \rightarrow **Global**

This page is used to set the parameters of the device's spanning tree protocol, including spanning tree protocol switch, priority, hello time, maximum aging time, and forwarding delay.

\mathbf{U}			
	Information Global	Port	
OLT Information	RSTP Configuration		
OLT Configuration	-		
VLAN	RSTP Status	Enable 🗸 🗸	
VERIV	Global Priority	32768	(0-61440)
Uplink Port	Helle Time		(1.10-)
PON	Hello Time	2	[(1-10s)
MAG	Max Age	20	(6-40s)
MAC	Forward Delay	15	(4-30s)
QoS	Notice: 2*(HelloTime+1) <maxage<2*(forwarddela< td=""><td>v-1)</td></maxage<2*(forwarddela<>	v-1)
ACL		Submit Reset	, -,
IPv6 ACL			
IGMP			

Figure 3-10-2: RSTP Global

3.10.1.3 Port

OLT Configuration \rightarrow **STP** \rightarrow **Port**

This page is used to set port fast spanning tree protocol parameters, including spanning tree protocol switches, priority, cost, edge ports, and point-to-point.

	Informatio	on Glo	obal Port				
OLT Information	RSTP Po	rt Conf	iguration				
OLT Configuration			-				
VLAN	Submit	Reset	t i				
Uplink Port	Port ID	Status	Priority (0-240)	Cost (0-20000000)	admin Edge	Operating Edge	Point To Point
PON	GE1	<	128	20000			
MAC	GE2		128	2000000			
QoS	022	-	120	2000000	0		
ACL	GE3		128	2000000			
IPv6 ACL	Notice: S	et 0 to (calculate path cos	t automatically.			
IGMP							

Figure 3-10-3: RSTP Port

3.11 Loopback

Loopback can detect loop ports and process loop ports.

3.11.1 Information

OLT Configuration \rightarrow Loopback \rightarrow Information

airli▼e®	Information Global Port
OLT Information	Loopback Information
OLT Configuration	
VLAN	Refresh
Uplink Port	Interface Mode Time(s) Source Interface
PON	
MAC	
IGMP	
Loopback	
IP Route	
ONU Configuration	

Figure 3-11-1: Loopback Information

3.11.2 Global

OLT Configuration \rightarrow Loopback \rightarrow Global

This page is used to enable or disable loopback detect, set the loopback range, mode, and aging time, loopback packet sending mode and packet sending interval.

airlive	°			
	Information Global	Port		
OLT Information	Loopback Configura	tion		
OLT Configuration	a de la comunitación de la comunicación de la comunicación de la comunicación de la comunicación de la comunica			
VLAN	Status	Enable	~	
Unlink Dort	Range	All	~	
оршик Рогс	Mode	auto-recovery	~	
PON	Age Time	60		(10-3600s)
MAC	Packet Send Way	Port-base	~	_ ·
IGMP	Packet Send Time	2		(range 1-720, unit:0.5s)
Loopback		Submit Reset		
IP Route				
ONU Configuration				

Figure 3-11-2: Loopback Global

3.11.3 Port

OLT Configuration \rightarrow Loopback \rightarrow Port

Loopback port configuration is used to specify the port range of loopback function. Loopback will take effect on the port when it is checked.

airlive	®
	Information Global Port
OLT Information	Loopback Port Configuration
OLT Configuration	
VLAN	Submit Reset
Uplink Port	Port ID Status
PON	GE1
MAC	GE2
IGMP	GE3 M
Loopback	
IP Route	PON1
ONU Configuration	

Figure 3-11-3: Loopback Port

3.12 DHCP

OLT can support the following DHCP functions.

- > DHCP server
- > DHCP proxy
- > DHCP relay

3.12.1 DHCP Server

3.12.1.1 Lease

OLT Configuration \rightarrow **DHCP** \rightarrow **DHCP** Server \rightarrow Lease

This table displays the MAC addresses, host names and IP addresses, and lease terms assigned to them.

	Lease Configuration
OLT Information	DHCP Server Lease
OLT Configuration	
VLAN	Refresh
Uplink Port	MAC Address IP Address Lease(s) Hostname
PON	
MAC	
QoS	
ACL	
IPv6 ACL	
IGMP	
IPv6 MLD	
STP	
Loopback	
DHCP	
DHCP Server	

Figure 3-12-1: Lease

3.12.1.2 Configuration

OLT Configuration \rightarrow **DHCP** \rightarrow **DHCP** Server \rightarrow Configuration

Sometimes devices require dynamic IP addresses, but there are no special DHCP servers in the network. These configurations can solve this problem. OLT will be a DHCP server in the network and allocate IP addresses to other devices. Before enabling the DHCP server, you must configure an IP address for the VLAN.

\sim			
	Lease Configuration		
OLT Information	DHCP Server Configur	ation	
OLT Configuration	-		
VLAN	DHCP Server	Enable 🗸	
Uplink Port	VLAN ID	1 V	
PON	DHCP Server Settings	Submit Reset	
MAC			_
QoS	Start IP Address	192.168.60.231	ļ
ACL	End IP Address	192.168.60.254	_
IPv6 ACL	Subnet Mask	255.255.255.0	
IGMP	Gateway	0.0.0.0	ļ
IPv6 MLD	Static DNS 1	0.0.0.0	ļ
STP	Static DNS 2	0.0.0	
Loophack	Static DNS 3	0.0.0	
DUCD	WINS	0.0.0	
	Client Lease Time	864000	(60-864000s)
DHCP Server		Submit Reset	
DHCP Relay			
DHCP Snooping			

Figure 3-12-2: DHCP Server Configuration

3.12.2 DHCP Relay

Due to the DHCP process using broadcast to generate request messages, servers and clients usually need to be in the same network segment. DHCP relay can solve the problem that DHCP servers and clients do not exist in the same network.

3.12.2.1 Configuration

OLT Configuration \rightarrow **DHCP** \rightarrow **DHCP** Relay \rightarrow Configuration

This page is used to configure the IP and working VLAN of DHCP relay servers.

	Configuration	Global	Port	
OLT Information	Add Relay Se	rver		
OLT Configuration				
VLAN	Server IP			
Uplink Port	VLAN ID		1 *	
PON	Polay Sorvor	Tablo	Add	
MAC	Relay Server Table			
QoS	Server IP	VLAN ID	D Delete	
ACL	192.168.1.16	6 1		
IPv6 ACL				
IGMP				
IPv6 MLD				
STP				
Loopback				
DHCP				
DHCP Server				
DHCP Relay				
DHCP Snooping				

Figure 3-12-3: DHCP Relay Configuration

3.12.2.2 Global

OLT Configuration \rightarrow **DHCP** \rightarrow **DHCP Relay** \rightarrow **Global**

This page is used to configure the Option 82 function of DHCP relay. After receiving the DHCP request message, the DHCP relay will process the message according to whether it contains Option 82 and the processing strategy and padding mode configured by the user, and forward the processed message to the DHCP server.
	Configuration Global	Port
OLT Information	DHCP Relay Settings	
OLT Configuration		
VLAN	Option82 Control	Disable Disable
Uplink Port	Option82 Strategy	Submit Reset
PON		Submit Reset
MAC	VLAN option82 Profil	e(Format Profile) Bind
QoS	VIAN Drofile Id Drofi	le Name
ACL	VLAN Prome Id From	
IPv6 ACL	VLAN ID	1 v
IGMP	Profile	~
IPv6 MLD		Add Delete
STP		
Loopback		
DHCP		
DHCP Server		
DHCP Relay		
DHCP Snooping		

Figure 3-12-4: DHCP Relay Global

3.12.2.3 Port

OLT Configuration \rightarrow **DHCP** \rightarrow **DHCP Relay** \rightarrow **Port**

This page is used to configure the Option 82 line ID and remote ID of the port.

	Configuration	Global	Port					
OLT Information	DHCP Relay	DHCP Relay Port Configuration						
OLT Configuration								
VLAN	Submit F	Reset						
Uplink Port	Port ID Opt	on82 Circu	it ID O	ption82 Remote ID				
PON	GE1							
MAC	GE2							
QoS	GE3							
ACL	PON1		Ť					
IPv6 ACL								
IGMP								
IPv6 MLD								
STP								
Loopback								
DHCP								
DHCP Server								
DHCP Relay								



3.12.3 DHCP Snooping

DHCP Snooping is a security feature of DHCP that ensures that clients obtain IP addresses from legitimate servers and record the correspondence between DHCP client IP and MAC.

3.12.3.1 Bind List

OLT Configuration \rightarrow **DHCP** \rightarrow **DHCP Snooping** \rightarrow **Bind List**

This page is used to display the correspondence information between DHCP client IP and MAC detected by DHCP.

••••••	
	Bind List Global Port Static Bind
OLT Information	DHCP Snooping Bind List
OLT Configuration	
VLAN	FlushAll FlushStatic FlushDynamic Refresh
Uplink Port	MAC Address IP Address Lease VLAN ID Port ID Type
PON	
MAC	
QoS	
ACL	
IPv6 ACL	
IGMP	
IPv6 MLD	
STP	
Loopback	
DHCP	
DHCP Server	
DHCP Relay	
DHCP Snooping	
DHCPv6	

Figure 3-12-6: Bind List

3.12.3.2 Global

$OLT \ Configuration \rightarrow DHCP \rightarrow DHCP \ Snooping \rightarrow Global$

The global configuration of DHCP Snooping mainly includes Option 82 global settings, listening VLAN configuration, and VLAN based Option 82 template (format template) binding.

	Bind List Global Port	Static Bind				
OLT Information	DHCP Snooping Configu	ration				
OLT Configuration						
VLAN	DHCP Snooping E	Enable V				
Uplink Port		Submit Reset				
PON	DHCP Snooping Settings	5				
MAC	Ontion 02 Control	<u></u>				
QoS	Option82 Control (
ACL	Overspeed Recovery					
IPv6 ACL	Overspeed Recovery	20 (2-2600s)				
IGMP	Interval					
IPv6 MLD	Binding Delete Time	Cubrait Basat				
STP	VIAN ID List	Submit Reset				
Loopback						
DHCP	List	vlan3000				
DHCP Server	VLAN ID	1 ~				
DHCP Relay		Add Delete				
DHCP Snooping	VLAN option82 Profile(F	ormat Profile) Bind				
DHCPv6						
IPv6 SLAAC	VLAN Profile Id Profile N	lame				
IP Route	VLAN ID	1 🗸				
IPv6 Route	Profile	✓				
WAN		Add Delete				
ADD Table		100 0000				

Figure 3-12-7: DHCP Snooping Global

3.12.3.3 Port

OLT Configuration \rightarrow **DHCP** \rightarrow **DHCP Snooping** \rightarrow **Port**

This interface is used to configure DHCP Snooping parameters for ports that include port types, Option 82 parameters, and rate limits.

All ports default to untrusted ports. Option 82 parameters, 'Option 82 Circuit ID' and 'Option 82 Remote ID', are valid for untrusted ports. 'Restricted speed' refers to the maximum speed at which a port can receive DHCP packets.

\sim									
	Bind List	Global	Port	Static Bind					
OLT Information	DHCP S	nooping P	ort C	onfiguration					
OLT Configuration									
VLAN	Submit	Reset							
Uplink Port	Port ID	Туре	0	ption82 Circuit	ID	Option82	Remote ID	Limit Rate(0-409	(6pps)
PON	GE1	Untrust	~					0	
MAC	GE2	Untrust	~					0	
QoS	GE3	Untrust	~					0	
ACL	PON1	Untrust	-					0	ī
IPv6 ACL									
IGMP									
IPv6 MLD									
STP									
Loopback									
DHCP									
DHCP Server									
DHCP Relay									
DHCP Snooping									

Figure 3-12-8: DHCP Snooping Port

3.12.3.4 Static Bind

OLT Configuration \rightarrow **DHCP** \rightarrow **DHCP** Snooping \rightarrow Static Bind

When a host needs a fixed IP address allocated by a DHCP server from a specific port, DHCP listening for static binding is very useful.

	Bind List Global F	Port Sta	atic Bind				
OLT Information	Add DHCP Snooping) Bind					
OLT Configuration		- 					
VLAN	MAC Address			(HI	H:HH:H	н:нн:н	H:HH)
Uplink Port	VLAN ID	1		<u>~</u>			
PON	IP Address	054					
MAC	Port ID	GE1		✓	10000	00-1	
QoS	Lease	Add			J-10000	100S)	
ACL	Static DHCP Snoopi	ng Bind 1	Table				
IPv6 ACL		_					1
IGMP	MAC Address	VLAN ID	IP Address	Port ID	Lease	Delete	
IPv6 MLD	00:00:01:00:00:99	1	192.168.1.171	GE1	1000	Ū	
STP							
Loopback							
DHCP							
DHCP Server							
DHCP Relay							
DHCP Snooping							
DHCPv6							

Figure 3-12-9: Static Bind

3.13 DHCPv6

DHCPv6 is a network protocol used to configure IPv6 addresses, IPv6 prefixes, DNS, domains, and other network parameters for hosts running on IPv6 networks.

3.13.1 DHCPv6 Server

3.13.1.1 DHCPv6 Bind Information

OLT Configuration \rightarrow DHCPv6 \rightarrow DHCPv6 Server \rightarrow DHCPv6 Bind Information

The DHCPv6 binding information displays the IPv6 address assigned to the host.

	DHCPv6 Bind Information	DHCPv6 Server Enable	Server Pool Configuratio
OLT Information	DHCPv6 Bind Informati	ion	
OLT Configuration			
VLAN	Client DUID Type Addres	ss Preferred LifeTime Valio	I LifeTime Expire Time
Uplink Port	Refresh		
PON			
MAC			
QoS			
ACL			
IPv6 ACL			
IGMP			
IPv6 MLD			
STP			
Loopback			
DHCP			
DHCPv6			
DHCPv6 Server			
DHCPv6 Relay			

Figure 3-13-1: DHCPv6 Bind Information

3.13.1.2 DHCPv6 Server Enable

OLT Configuration → **DHCPv6**→**DHCPv6 Server** → **DHCPv6 Server Enable**

Select VLAN, fill in the DHCPv6 pool name, enable the DHCPv6 service, and then add the VLAN to the table. Before enabling the DHCPv6 service, it is necessary to complete the configuration of VLAN IPv6 address and server address pool information.

	DHCPv6 Bind Information	DHCPv6 Server Enable	Server Pool Configuration
OLT Information	DHCPv6 Server Config	uration	
OLT Configuration			
VLAN	VLAN ID	1 *	
Uplink Port	Pool Name	~	(0.255)
PON	Preference Value Rapid Commit		(0-255)
MAC	Rapid Commit	Submit Reset	
QoS			
ACL	DHCPv6 DUID Configu	ration	
IPv6 ACL	Difervo Dorb comigu		
IGMP	DUID Type	llt 🗸	
IPv6 MLD	Enterprise Number		(1-2147483647)
STP	Identifier		(0-32 chars)
Loopback	DUCDUS DUID Table	Submit Reset	
DHCP	DHCPV6 DUID Table DUID	Type: Ilt	
DHCPv6	DUID	:00:01:00:01:c7:92:bc:ba	:00:50:c2:01:02:03
DHCPv6 Server			
DHCPv6 Relay	DHCPv6 Interface Info	rmation	
IPv6 SLAAC	VLAN ID Using Pool Pref	erence Value Rapid Commi	t Delete
IP Route	Refresh		
IPv6 Route	Refresh		
14/4 51			

Figure 3-13-2: DHCPv6 Server Enable

3.13.1.3 Server Pool Configuration

OLT Configuration \rightarrow **DHCPv6** \rightarrow **DHCPv6 Server** \rightarrow **Server Pool Configuration** DHCPv6 address pool specifies the range of IPv6 addresses. Here, you can also provide the effective time, preferred time, DNS, and domain for DHCPv6 clients.

\mathbf{O}					
	DHCPv6 Bind Information	DHCPv6 Server Enable	Server Pool Configuration	Prefix Delegation Configuration	
OLT Information	DHCPv6 Server Pool Se	tting			
OLT Configuration		,	~		
VLAN	Pool Name]		
Uplink Port	Start IPv6 Address		/		
PON	End IPv6 Address		/		
MAC	Valid LifeTime	172800	(60-4294967295)s		
IGMP	Preferred LifeTime	86400	60-4294967295)s(Valid life)	time must be larger or equal than Preferre	d lifetime)
IPv6 MLD	DNS Server]		
STP	ļ]		
Loopback	Domain Name				
DHCP	Domain Name				
DHCPv6			1		
DHCPv6 Server		Submit Reset	J		
DHCPv6 Relay					
IPv6 SLAAC	DHCPv6 Server Pool		Ind I fertime Development I fertime		
IP Route	Pool Name Start 1996 Ad	dress[End 1996 Address]Va	and LifeTime Preferred LifeTim	e DNS Server Domain Name Edit Delete	
IPv6 Route					
ARP Table					

Figure 3-13-3: Server Pool Configuration

3.13.1.4 Prefix Delegation Configuration

OLT Configuration \rightarrow DHCPv6 \rightarrow DHCPv6 Server \rightarrow Prefix Delegation Configuration

This page supports configuring DHCPv6 prefix proxy, which can configure the prefix information, address prefix validity time, and preferred time allocated by the DHCPv6 service.

OILI AR				
	DHCPv6 Bind Information	DHCPv6 Server Enable	Server Pool Configuration	Prefix Delegation Configuration
OLT Information	DHCPv6 Prefix Delegrat	tion Setting		
OLT Configuration				
VLAN	Pool Name	~		
Uplink Port	Prefix Delegration		/	
PON	PD ValidLifeTime		(60-429496/295)s	
MAC	PD PreferLifeTime	Cubarth Denet	(60-4294967295)S	
IGMP		Submit Reset		
IPv6 MLD	DHCPv6 Server Pool			
STP	Pool Name prefix address	Valid LifeTime Preferred I	lifeTime Delete	
Loopback				
DHCP				
DHCPv6				
DHCPv6 Server				
DHCPv6 Relay				

Figure 3-13-4: Prefix Delegation Configuration

3.13.2 DHCPv6 Relay

$OLT \ Configuration \rightarrow DHCPv6 \rightarrow DHCPv6 \ Relay \rightarrow Configuration$

This page supports dynamically obtaining network configuration parameters such as IPv6 address/prefix through DHCPv6 relay, and supports Option 37 and Option 38 functions.

	Configuration					
OLT Information	DHCPv6 Global Configuration					
OLT Configuration						
VLAN	option37 Disable					
Uplink Port						
PON	Submit					
MAC	Add DUCD & Delay Conner					
IGMP	Add DHCPV6 Relay Server					
IPv6 MLD	VLAN ID 1					
STP	Server IPv6					
Loopback	Remote id					
DHCP	Subscriber id					
DHCPv6	Add					
DHCPv6 Server	DHCPv6 Realy Server Table					
DHCPv6 Relay						
IPv6 SLAAC	VLAN ID Server IPv6 Remote id Subscriber id Delete					
IP Route						
IPv6 Route						

Figure 3-13-5: DHCPv6 Relay Configuration

3.14 IPv6 SLAAC

IPv6 networks use the ICMPv6 routing discovery protocol. When an IPv6 host connects to the network for the first time, it automatically configures based on the information obtained from route discovery/prefix discovery. Route discovery/prefix discovery refers to the ability of a host to discover local routers and obtain configuration parameters such as neighbor information and current network prefix from RA packets when connected to an IPv6 network.

3.14.1 IPv6 SLAAC

OLT Configuration \rightarrow **IPv6 SLAAC** \rightarrow **IPv6 SLAAC**

When an IPv6 host uses stateless address configuration (stateless address auto configuration), the OLT will send it an RA packet. This page is used to configure the parameters of RA messages.



	IPv6 SLAA	C IPv6 SLA	AC Prefix RDNSS							
OLT Information	IPv6 SL	AAC Configu	ration							
OLT Configuration		-			1		_			
VLAN	VLAN ID	Suppress RA	Send RA Time (1-1800s)	RA LifeTime (0-9000s)	Reachable Time (0-3600000ms)	Suppress RDNSS	м	0	Router Preference	MTU (1280-1500)
Uplink Port	1		200	600	30000				MEDIUM V	1500
PON	3000		200	600	30000					1500
MAC	Cubmit		200					-		
IGMP	Submit									
IPv6 MLD										
STP										
Loopback										
DHCP										
DHCPv6										
DHCPv6 Server										
DHCPv6 Relay										
IPv6 SLAAC										
TD Pouto										



3.14.2 IPv6 SLAAC Prefix

OLT Configuration → **IPv6 SLAAC**→**IPv6 SLAAC Prefix**

When IPv6 hosts use stateless address auto configuration, OLT can provide IPv6 prefix. The host will generate an IPv6 address with a prefix.

	IPv6 SLAAC IPv6 SLAAC Prefix RDNSS
OLT Information	IPv6 SLAAC Prefix Configuration
OLT Configuration	
VLAN	VLAN ID 1 V
Uplink Port	ND Prefix
PON	ND Prefix Length
MAC	Valid LifeTime 2592000 (0-429496/295)s
IGMP	(Valid lifetime must be
IPv6 MLD	larger or equal than
STP	Preferred lifetime)
Loopback	Add
DHCP	IPv6 SLAAC Prefix
DHCPv6	VI AN ID ND Profix Valid LifeTime Proferred LifeTime Delete
IPv6 SLAAC	Defrech
IP Route	Refresh

Figure 3-14-2: IPv6 SLAAC Prefix

3.14.3 RDNSS

OLT Configuration \rightarrow **IPv6 SLAAC** \rightarrow **RDNSS**

Recursive DNS Server (RDNSS) is a DNS server in the IPv6 network protocol. This interface supports configuring RA messages to carry recursive DNS server information.

airlive

	IPv6 SLAAC IPv6 SLAAC Prefix RDNSS
OLT Information	RDNSS Configuration
OLT Configuration	
VLAN	VLAN ID 1
Uplink Port	Sequence (0-8)
PON	Lifetime 600 (60-4294967295s)
MAC	DNSServer
IGMP	
IPv6 MLD	Notice: Lifetime must be at least or equal 3 * sent RA time
STP	Submit Reset
Loopback	
DHCP	RDNSS Table
DHCPv6	VLAN ID Sequence DNSServer DNSServer DNSServer Lifetime Delete
IPv6 SLAAC	Refresh
IP Route	

Figure 3-14-3: RDNSS

3.15 IP Route

3.15.1 VLAN IP

OLT Configuration \rightarrow IP Route \rightarrow VLAN IP

This configuration is used to configure IP address for VLAN. When the VLAN is added to a port, you can access OLT by the IP address from the port.

airlive							
	VLAN IP						
OLT Information	VLAN IP	Configuration					
OLT Configuration		V(A) 75					
VLAN	VLAN ID	ļ	1	~	_		
Uplink Port	IP Addres	s [192.168.6.111				
PON	Subnet Ma	ask	255.255.255.0				
PON			Submit Reset				
MAC	VLAN IP	Table					
IGMP							
Loopback	VLAN ID	IP Address	Subnet Mask	Delete			
IP Route	1	192.168.6.111	255.255.255.0				
ONU Configuration	6	192.168.8.111	255.255.255.0	Ū			
Profile Configuration			1				
System Configuration							

Figure 3-15-1: VLAN IP

3.15.2 Static Route

OLT Configuration \rightarrow **IP** Route \rightarrow Static Route

Static routing is a form of routing where routers use manually configured routing items. In many cases, static routing is manually configured by network administrators. Unlike dynamic routing, static routing is fixed and will not change even if the network environment is changed or reconfigured.

After configuring the VLAN IP address, adding static routing can enable communication between networks on different network segments.

	VLAN IP Statio	Route		
OLT Information	Add Static Rou	ıte		
OLT Configuration				
VLAN	Destination IP			
Uplink Port	Destination Mas	k		
PON	Gateway			
MAC	Static Route T	Add		
IGMP				
IPv6 MLD	Destination IP	Destination Mask	Gateway	Delete
STP	0.0.0.0	255.255.255.0	192.168.6.1	Ū
Loopback				
DHCP				
DHCPv6				
IPv6 SLAAC				
IP Route				

Figure 3-15-2: Static Route

3.16 IPv6 Route

3.16.1 VLAN IPv6

OLT Configuration \rightarrow **IPv6 Route** \rightarrow **VLAN IPv6** Configure IPv6 addresses for the created VLAN.

<u>airlive</u>	Si	ingle PON AirLive	GPON O	LT-121 We	b User N	/Janual	
	VLAN IPv6	IPv6 Static Ro	ute				
OLT Information	VLAN IPv	- /6 Configuration					
OLT Configuration		-					
VLAN	VLAN ID	1			<u> </u>		
Uplink Port	IPv6 Addr	ess					
PON	Prefixien						
MAC		S	ubmit	Reset			
IGMP	VLAN IPv	/6 Table					
IPv6 MLD		TDue Address		Drafielan	Delete		
STP	VLAN ID	IPV6 Address		Prenxien	Delete		
Loopback	1	fe80::250:c2ff:f	e01:203				
DHCP	0	fe80::250:c2ff:f	e01:203				
DHCPv6	0	fe80::250:c2ff:f	e01:203				
IPv6 SLAAC	0	fe80::250:c2ff:f	e01:203				
IP Route	0	fe80::250:c2ff:f	e01:203				
IPv6 Route	0	fe80::250:c2ff:f	e01:203				
ARD Table	0	4-00-050-04-6	-01-202				

Figure 3-16-1: VLAN IPv6

3.16.2 IPv6 Static Route

OLT Configuration \rightarrow **IPv6 Route** \rightarrow **IPv6 Static Route**

This page is used to manually add IPv6 static routing. Even if the network topology has changed, static routing will not alter the configuration.

<u>airlive</u>	Single PON AirLive GPON OLT-121 Web User Manual
	VLAN IPv6 IPv6 Static Route
OLT Information	Add IPv6 Static Route
OLT Configuration	
VLAN	Destination IPv6
Uplink Port	Destination Prefixien
PON	Gateway
MAC	DDA
QoS	IPv6 Static Route Table
ACL	Destination IPv6 Destination Prefixlen Gateway Delete
IPv6 ACL	6000:: 64 2000::1 ii
IGMP	
IPv6 MLD	
STP	
Loopback	
DHCP	
DHCPv6	
IPv6 SLAAC	
IP Route	
IPv6 Route	

Figure 3-16-2: IPv6 Static Route

3.17 WAN

This function is used to set the OLT working mode to three layers, which can be used as a router, with GE3 as the WAN side, PON, GE1, and GE2 as the LAN side. The OLT can perform DHCP, PPPOE, and static IP upstream for internet access.

3.17.1 WAN

OLT Configuration \rightarrow **WAN** \rightarrow **WAN**

This page is used to configure WAN and display WAN business status.

	WAN LAN	NAT	
OLT Information	WAN Status		
OLT Configuration			
VLAN	WAN Multisent Des		Enable (Only effective on port GE3)
Uplink Port	Multicast Prox	(y	
PON	WAN Connec	t Tal	ble
MAC	Mada ID Ver		Configuration Information
QoS	Mode IP ver	sion	Configuration Information
ACL	route ipv	4	Connect Mode:Static, Static IP:. Mask:. Gateway:0.0.0.0.
IPv6 ACL			
IGMP	WAN Connec	t Pa	rameter Configuration
IPv6 MLD	Mode		route 🗸
STP	IP Version		ipv4 🗸
Loopback	Connect Mod	е	Static 🗸
DHCP	ID Address		
DHCPv6	IP Address		
IPv6 SLAAC	IP NetMask		(A.B.C.D)
IP Route	Gateway		(A.B.C.D)
IPv6 Route	VLAN ID		1 (1-4094)
WAN			Submit
ARP Table			

Figure 3-17-1: WAN Status

3.17.2 LAN

OLT Configuration \rightarrow **WAN** \rightarrow **LAN**

This page is configured with LAN side IP address and DHCP server.

	WAN LAN NAT		
OLT Information			
OLT Configuration	LAN IP Address		(A.B.C.D)
VLAN	LAN Subnet Mask		(A.B.C.D)
Uplink Port	VLAN ID	1	(1-4094)
PON		Submit Reset	
MAC	DHCP Server Configur	ation	
QoS	DUCD Comme	[Feeble	
ACL	DHCP Server	Enable V	
IPv6 ACL	DHCP Server Settings	Submit Reset	
IGMP	biter beiter betangs		
IPv6 MLD	VLAN ID	1	
STP	Start IP Address	192.168.0.20	
Loopback	End IP Address	192.168.0.254	ļ
DHCP	Subnet Mask	0.0.0.0	ļ
DHCPv6	Gateway	0.0.0.0	ļ
IPv6 SLAAC	Static DNS 1	0.0.0.0	ļ
IP Route	Static DNS 2	0.0.0.0	ļ
IPv6 Route	Static DNS 3	0.0.0.0	ļ
WAN	WINS	0.0.0.0	
ARP Table	Client Lease Time	864000	(60-864000s)
ONUL Configuration		Submit Reset	
IP Route IPv6 Route WAN ARP Table ONU Configuration	Static DNS 2 Static DNS 3 WINS Client Lease Time	0.0.0.0 0.0.0.0 864000 Submit Reset]]] (60-864000s)

Figure 3-17-2: LAN

3.17.3 NAT

OLT Configuration \rightarrow **WAN** \rightarrow **NAT**

This page is used to configure the routing NAT mode for DMZ hosts.

	WAN LAN NAT	
OLT Information		
OLT Configuration	NAT Configuration	
VLAN	NAT Type	NAT4 (default)
Uplink Port		Submit Refresh
PON	NAT DMZ Hosts	
MAC	DMZ Host	disable 🗸 🗸
QoS	DMZ Host IP Address	
ACL		Submit Refresh
IPv6 ACL		
IGMP		
IPv6 MLD		
STP		
Loopback		
DHCP		
DHCPv6		
IPv6 SLAAC		
IP Route		
IPv6 Route		
WAN		

Figure 3-17-3: NAT

3.18 ARP Table

Mainly displays OLT ARP table and ARP restriction function.

3.18.1 ARP Table

OLT Configuration \rightarrow **ARP** Table \rightarrow **ARP** Table

This page displays the OLT ARP table and allows manual addition of MAC.

-	ARP Table ARP	Restriction				
OLT Information	ARP Config					
OLT Configuration	_					
VLAN	IP Address			(A.B.	C.D)	
Uplink Port	MAC Address			(HH:	HH:HH:	нн:нн:нн)
PON	Type	● Static ○	Dynamic			
MAC	Interface	Add Dolo	to	•		
QoS		Add Delet	LC			
ACL	ARP Table					
IPv6 ACL	Refresh Clea	n				
IGMP			-			1
IPv6 MLD	IP Address	MAC Address	Туре	Interface	Delete	
STP	192.168.6.124	a8:a1:59:98:eb:87	Dynamic	Vlan1	Ū	
Loopback						
DHCP						
DHCPv6						
IPv6 SLAAC						
IP Route						
IPv6 Route						
WAN						
ARP Table						

Figure 3-18-1: ARP Table

3.18.2 ARP Restriction

OLT Configuration \rightarrow **ARP** Table \rightarrow **ARP** Restriction

This page mainly configures the ARP learning rate and ARP restriction rules.

	ARP Table ARP Restric	tion	
OLT Information	ARP Rate Limit		
OLT Configuration			_
VLAN	ARP Rate	128	(pps)
Uplink Port		Submit	
PON	ARP Restriction Rules	;	
MAC	Access List ID		(1-100)
QoS	Source MAC		(HH:HH:HH:HH:HH)
ACL	Source IP		Mask
IPv6 ACL		Add	
IGMP	ARP Restriction Table	Nuu	
IPv6 MLD			
STP	List ID Source MAC	ource IP Delete	
Loopback			
DHCP			
DHCPv6			
IPv6 SLAAC			
IP Route			
IPv6 Route			
WAN			
ARP Table			

Figure 3-18-2: ARP Restriction

Chapter 4 ONU Configuration

This chapter is about the ONU management by OLT.

4.1 ONU AuthList

4.1.1 ONU List

ONU Configuration \rightarrow **ONU** AuthList \rightarrow **ONU** List

All registered ONUs will be displayed in this interface. You can check ONU using profile, Registration mode and do some operations on every ONU.

	ONU list ON	IU Status	ONU Optical	Informatio	n ON	U Versio	on Information	ONU Manual Add	ONU Allowlist	ONU Statistics	
OLT Information	ONU Authen	tication	Information								
OLT Configuration		DONI									
ONU Configuration	Port ID	PONI		~							
ONU AuthList	Search Mode	All		~							
ONU AutoFind	Search Info			Se	arch						
ONU AutoLearn	ONU Count	20/23									
ONU Upgrade	Delete All	Delete Of	fline Refresh								
Rogue ONU	ONU ID	Status	Description	Model	Profile	Mode	Info	Action			
Profile Configuration	GPON0/1:1	Online	GPON0/1-1	G04D	default	Sn	LYTBac700b76	Config Deactivate	Delete Ontical	Info Detail Info	Reboot
System Configuration	GPON0/1:2	Online	GRON0/1:2	G04D	dofault	Cn	LYTRac700b6f	Config Deactivate	Delete Optical	Info Dotail Info I	Roboot
	GPON0/1:2	Unine	GPONU/1:2	004D	uerauit	511	LTTBac/0000	Coning Deactivate	<u>Delete Optical</u>	Into Detail Into I	Kebbol

Figure 4-1-1: ONU List

4.1.1.1 Config

ONU Configuration \rightarrow **ONU AuthList** \rightarrow **ONU List** \rightarrow **Config** Configure ONU parameter information which you selected.

	ONU list ONU	Status	ONU Optica	l Informatio	n ON	U Versio	on Information	ONU Manual Ad	I ONU Allowlist	ONU Statistics	
OLT Information	ONU Authent	ication	Information								
OLT Configuration											
ONU Configuration	Port ID	PON1		~							
ONU AuthList	Search Mode	All		~							
ONU AutoFind	Search Info			Se	arch						
ONU AutoLearn	ONU Count	20/23							Click		
ONU Upgrade	Delete All D	elete Of	fline Refresh	1					CIICK		
Rogue ONU	ONU ID	Status	Description	Model	Profile	Mode	Info	Action			
Profile Configuration	GPON0/1:1	Online	GPON0/1:1	G04D	default	Sn	LYTBac700b76	Config Deactiv	ate Delete Optica	I Info Detail Info	Reboot
System Configuration	GPON0/1:2	Online	GPON0/1-2	G04D	default	Sn	LYTBac700h6f	Config Deactiv	ate Delete Ontica	I Info Detail Info	Rehoot
	0.0110/112	o	0. 0. 0/ 1/2	100.0	- ac. duit	<u> </u>	211000000		<u> delete optica</u>	Time Becchi Inte	

Figure 4-1-2: Configure ONU

4.1.1.1.1 Tcont

ONU Configuration \rightarrow **ONU AuthList** \rightarrow **ONU List** \rightarrow **Config** \rightarrow **Tcont** Create tcont ID and bind DBA profile. Tcont name is optional.



	ONU	list Ol	VU Stat	us ONI	J Optical Ir	formation	ONU Ve	ersion Infor	mation	ONU	Manual Add	ONU	U Allowlist	ONU St	atistics
OLT Information	Tron	Gem	nort	Service	PortVlan	Multicast	Port	In Host	MAC	WAN	DHCP Serv	or	Bind Mode	WIET	VOIR
OLT Configuration	rcom	. ocini	pore	Service	TOTEVIUM	Thurtrease	Tore	ip nose	TIAC		Differ Derv		bina mode		VOI
ONU Configuration	SIP	POTS	Misc	Misc2	TR069	Security	Loopba	ck Detectio	n						
ONU AuthList	ON	U Tcont	Inform	ation (P	ON:1 ONU	:24)									
ONU AutoFind	Tee	ont ID N	ame	DBA Profi	le Action	1									
ONU AutoLearn	1		ont 1	dofault1	Delete										
ONU Upgrade	1		onc_1	ueraulti	Delete										
Rogue ONU		_													
Profile Configuration	Ado	ONU TO	ont												
System Configuration	Tco	ont ID		2											
	Тсо	ont Name													
	DB	A Profile	Name	default1		~									
	Co	mmit													

Figure 4-1-3: Create Tcont

4.1.1.1.2 Gemport

ONU Configuration \rightarrow **ONU AuthList** \rightarrow **ONU List** \rightarrow **Config** \rightarrow **Gemport** Create gemport ID and bind tcont ID.

	ONU list ON	NU Statu	s ON	U Optical	Informatior		/ersion Infor	mation	ONU N	Manual Ad	id O	NU Allowlist	ONU St	atistics
OLT Information	Tcont Gem	port S	ervice	PortVlar	n Multica	st Port	Ip Host	MAC	WAN	DHCP S	erver	Bind Mode	WIFI	VOIP
OLT Configuration		Miss	Micc2	TROSO	Cocurity	Looph	ack Dotoctio							
ONU Configuration		Pilise	(0000-1	11009	> Security	Loopb	ack Detectio							
ONU AuthList	ONU Gempo	ort Into	(PON:)	L ONU:24)									
ONU AutoFind	Gemport ID	Name	Tcont	State (UpQueueMa	pId Dow	nQueueMapI	d Actio	on					
ONU AutoLearn	1	gem_1	1	Enable I	N/A	N/A		Dele	te					
ONU Upgrade		most							_					
Rogue ONU	Add ONU Ge	emport												
Profile Configuration	Gemport ID	[2											
System Configuration	TcontID		1		~	_								
	Compart Na		_			_								
	Gemport Na	ime				_								
	UpQueueMa	pId	N/A			0-3)								
	DownQueue	MapId	N/A		(0-7)								
	State	[Enable		~									
	Commit													
	ONU Gempo	ort Rate	Limit I	info										
	Gemport ID	Name	Tcont	Upstrean	n CIR Upst	ream PIR	Downstream	n CIR	Downstre	am PIR	Action			
	1	gem_1	1	0	0		0		0		<u>Delete</u>	1		
	ONU Gempo	ort Rate	Limit (Configura	tion									
	Gemport ID					1		~						
	Upstream Tr	affic Cor	nmitted	Rate Limi	it (B/s)	0			0-429496	7295)				
	Upstream Tr	affic Pea	k Rate I	Limit (B/s)	0		((0-429496	7295)				
	Downstream	n Traffic (Commit	ted Rate L	.imit (B/s)	0		((0-429496	7295)				
	Downstream	n Traffic I	Peak Ra	te Limit (E	3/s)	0		((0-429496	7295)				

Figure 4-1-4: Create gemport

4.1.1.1.3 Service

ONU Configuration \rightarrow **ONU AuthList** \rightarrow **ONU List** \rightarrow **Config** \rightarrow **Service** Create a service, set the VLAN and VLAN mode and bind one gemport ID.



S1111111111111														
	ONU	list ON	U Status	ONU Optica	al Informa	tion	ONU Ve	rsion Infor	mation	ONU I	Manual Add	ONU Allowlist	ONU St	atistics
OLT Information	Tcont	Gemp	ort Serv	vice PortVI	an Mul	ticast	Port	Ip Host	MAC	WAN	DHCP Serve	r Bind Mode	WIFI	VOIP
OLT Configuration	SIP	POTS	Misc M	isc2 TR06	9 Secu	rity	Loopba	ck Detectio	n					
ONU Configuration	ONI	I Service	Informat	ion (PON-1	ONU:24)									
ONU AuthList	0.00	5 Service	Interna		0110.24)									
ONU AutoFind	Ser	viceName	Gemport	: Vlan Mode	Vlan List	Port	Action							
ONU AutoLearn	ser	_1	1	Tag	3000	N/A	Delete							
ONU Upgrade														
Rogue ONU	Add	ONU Se	rvice											
Profile Configuration	_													
System Configuration	Ser	viceName	e ser_2											
	Ger	mport ID	1		*									
	Vla	n Mode	Tag		*									
	Vla	n List	3000		(X,	X or X	-X;0 for	all;max 12	vlans)					
	Por	tType	N/A		~									
	Co	mmit												

Figure 4-1-5: Create service

4.1.1.1.4 PortVlan

$ONU \ Configuration \rightarrow ONU \ AuthList \rightarrow ONU \ List \rightarrow Config \rightarrow PortVlan$

Set the VLAN mode of the ONU's port. For HGU, need to configure veip 1 transparent; for SFU, configure Ethernet port directly.

	ONU list	ONU Status	ONU	Optical Inform	ation ONU	Version Informa	ation	ONU M	1anual	Add O	NU Allowli:	st ONU S	Statistic	s		
OLT Information	Tcont Ger	mport Servi	ice 🌔	PortVlan M	ulticast Port	Ip Host	1AC	WAN	DHCF	Server	Bind Mo	de WIFI	VOI	P SIP	POTS	Misc
OLT Configuration	Misc2 TR)69 Securit	vII	oonback Deter	tion											
ONU Configuration	ONU Port	/lan Info (DC	N-1 (
ONU AuthList	ONO POIL			5140.24)												
ONU AutoFind	PortName	Mode	Vlan	Vlan	Default	Default	. 0	Vlan(tran	slate)	CVlan		SVIan(trar	slate)	SVlan		Action
ONU AutoLearn				Priority(tag)	Vlan(hybrid)	Priority(hybrid	0 -		,	Priority(t	ranslate)		·····,	Priority(t	ranslate)	
ONU Upgrade	veip_1	Transparent	N/A	N/A	N/A	N/A	N/	/A		N/A		N/A		N/A		<u>Delete</u>
Rogue ONU																
Profile Configuration	Add ONU	PortVlan														
System Configuration	Mode	Transparent		~												
				_												
	PortType	Eth		~												
	Port Id															
	Commit															

Figure 4-1-6: Configure port VLAN mode

4.1.1.1.5 Multicast

ONU Configuration \rightarrow **ONU AuthList** \rightarrow **ONU List** \rightarrow **Config** \rightarrow **Multicast** Set the Multicast VLAN of ONU and the Multicast VLAN mode of ONU's port.



Figure 4-1-7: Configure multicast VLAN

4.1.1.1.6 Port ONU Configuration \rightarrow ONU AuthList \rightarrow ONU List \rightarrow Config \rightarrow Port

Set the basic configuration and speed limit of the ONU LAN port. Please note that you can select the LAN port to configure on the ONU Port.

	ONU list	ONU Status	ONU Optica	Informatio	on ONU Ve	rsion Inform	nation (оло м	anual Add	ONU Allowlist	ONU Sta	atistics
OLT Information	Tcont Ger	mport Serv	rice PortVI	an Multic	ast Port	Ip Host	MAC V	VAN	DHCP Server	Bind Mode	WIFI	VOIP
OLT Configuration		Miec M	isc2 TR06) Securit	by Loonbar	k Detection						
ONU Configuration	Dant Daala			Securi		K Detection						
ONU AuthList	Port Basic	c Configurati	on (PON:1 ()NU:24)	/							
ONU AutoFind	ONU Port	[LAN1	~								
ONU AutoLearn	Z Astrolauta	Chathar										
ONU Upgrade	Admin :	Status										
Rogue ONU	Port Speed	I [auto	~	1							
Profile Configuration	MAC Limit(0-255)	0		΄ Γ							
System Configuration		l l	Submit									
	Upstream Upstream Commit Downstree Downstree Commit	Rate Limit C Rate-Limit CI Rate-Limit PI am Rate Limit am Rate-Limit am Rate-Limit	R (kbps) 0 R (kbps) 0 it Config CIR (kbps) PIR (kbps)	0								
	Port Statu	15										
	Refresh											
	Interface	Speed Status	Speed Config	Link Status	Admin Status	LOOP status	Max Frame	Ups (kb)	tream Rate-Lir ps)	mit Downstr (kbps)	eam Rate	-Limit
	LAN1	unknown	auto	down	enable	disable	1632	CIR	:0 PIR:0	CIR:0 PI	R:0	
	LAN2	unknown	auto	down	enable	disable	1632	CIR	:0 PIR:0	CIR:0 PI	R:0	

Figure 4-1-8: ONU Port Configuration

4.1.1.1.7 Ip Host

ONU Configuration \rightarrow **ONU AuthList** \rightarrow **ONU List** \rightarrow **Config** \rightarrow **Ip Host** Create IP host for ONU wan connection. It is used for ONU management.

	ONU list ONU S	tatus ONI	J Optical Info	rmation	ONU Vers	sion Inform	mation	ONU M	1anual Add	ONU Allowlist	ONU St	atistics
OLT Information	Tcont Gemport	Service	PortVlan	Multicast	Port	Ip Host	MAC	WAN	DHCP Serv	er Bind Mode	WIFI	VOIP
OLT Configuration	SIP POTS M	sc Misc2	TR069 S	ecurity	Loopback	Detection	n					
ONU Configuration	Inhost Configu	ration Info		.24)								
ONU AuthList	iphose comga		(FOR.1 OND	.24)								
ONU AutoFind	Iphost ID Desc	ription IP M	ode IP Addre	ss Mask	Gateway	DNS1 D	NS2 VI	.AN Pric	ority Action			
ONU AutoLearn												
ONU Upgrade	Iphost Config											
Rogue ONU				_								
Profile Configuration	Iphost ID	1	~									
System Configura <mark>ti</mark> on	Description											
	IP Mode	DHCP	~]								
	DNS1(A.B.C.D)											
	DNS2(A.B.C.D)											
	Commit											
	Iphost VLAN C	onfig										
	VLAN(0-4094)											
	Priority(1-15)											
	Commit											

Figure 4-1-9: Configure IP host

4.1.1.1.8 MAC

$ONU\ Configuration \rightarrow ONU\ AuthList \rightarrow ONU\ List \rightarrow Config \rightarrow MAC$

Configure the MAC counts limit based on ONU or Gemport, and 0 means there is no

limit.

This interface can also display the learned MAC addresses of each LAN port of the ONU.

0	ONU li	st ONU S	status ON	IU Optical In	formation	ONU Ve	ersion Information	ONU I	Manual Add	ONU Allowlist	ONU St	atistics
OLT Information	Tcont	Gemport	Service	PortVlan	Multicast	Port	Ip Host MAC	WAN	DHCP Serve	er Bind Mode	WIFI	VOIP
OLT Configuration	SIP	POTS M	isc Misc2	TR069	Security	Loopba	ck Detection					
ONU Configuration	ONU	MACLimit	Configura	tion (PON:	1 ONU:24)							
ONU AuthList		PIAC LININ	conngura		1 0110.24)							
ONU AutoFind	MAC	Limit(0-25	5) 0									
ONU AutoLearn	Sub	mit										
ONU Upgrade	0.00											
Rogue ONU	GEM	Mac limit	configurati	on								
Profile Configuration	gem	port MAC	Counts(0-12	8, 0 for not	limit)							
System Configuration	1	0										
	- Cubi	mit.										
	Subi	init										
	Onu	eth mac le	arned info									
	onu	Port LAN:		~								
	Refr	esh										
	Inde	x Action	Type Age	Address								

Figure 4-1-10: MAC Limit

4.1.1.1.9 WAN

$ONU \ Configuration \rightarrow ONU \ AuthList \rightarrow ONU \ List \rightarrow Config \rightarrow WAN$

ONU WAN connection is configured by private OMCI between OLT and ONU. When the connected ONU supports this function, the option "WAN" can be shown on this page.

	ONU list	ON	U Status	ON	U Optical I	information	ONU Version Infor	rmation	ONU Mai	nual Add	ONU Allowlist	ONU St	atistics
OLT Information	Tcont	Gemp	ort Se	ervice	PortVlan	Multicast	Port Ip Host	MAC	WAN	DHCP Server	r Bind Mode	WIFI	VOIP
OLT Configuration	SIP P	OTS	Misc	Misc2	TR069	Security	Loopback Detectio	n	$\mathbf{}$				
ONU Configuration	WANG	onnec	t Table	(PON-	1 ONU:2/	1)							
ONU AuthList		.onnee	- Tuble	(1011.	1 0110.24	·/							
ONU AutoFind	Index	Mode	IP	Ser	rvice	Status	MAC Address			Configurat	tion Information		
ONU AutoLearn			version	MO	ue				0.5		500 C		
ONU Upgrade								Na Na	os Enable:di: at:enable,	sable,MIU:1	500,Connect M	ade:DHC	Р,
Rogue ONU	1	route	ipv4	i	nternet	Disconnected	1C:EF:03:04:A9	:49 VL	AN Mode:Ta	g,VLAN ID:3	3000, VLAN Cos	:0,	
Profile Configuration								Bir	nd:lan1	isable,			
System Configuration							•						
	WANG	.onnec	t Paran	ieter C	.ontigura	tion							
	Mode	nuex		bri	idae								
	ID Vor	sion		lin	uye v4								
	IF Ver	51011		ip.	-								
	VLAN	Mode		Tag	g	~							
	VLAN	ID		0			(Tag:0-4095;Trans	sparent	:1-4095)				
	VLAN	Cos		0			(0-7)						
	QinQ I	Inable		Dis	sable	~							
	QinQ 1	TPID		0			(1-65534)						
	SVLAN	I ID		0			(1-4095)						
	SVLAN	l Cos		0			(0-7)						
	QoS E	nable		Dis	sable	~							
	Servic	e Mode		Int	ternet	~							
	Dort D	inding		_		1 2							
	PULLE	nung			COID1	Lanz		CIDE			CIDO		
				S	ubmit	55102 0 551	03 0 33104 0 3	5105 0	35100 0	55107 0 5	5106		
				50	Dinic								
	WAN	Connec	t runnir:	ng-con	fig								
	Subm	it											
	Index						onu running-o	config					Delete
		Conne	ect Type:	route,I	(P Version:	ipv4,Service N	1ode:internet,QoS	Enable	disable,MTU	J:1500,Conr	nect Mode:DHC	»,	
	1	Nat:e	nable, Mode:Ta	ad.VLAN	ID:3000	VLAN Cos:0.							
		QinQ Bind:	Enable:d an1	lisable,									

Figure 4-1-11: Configure WAN

4.1.1.1.10 DHCP Server

ONU Configuration \rightarrow **ONU AuthList** \rightarrow **ONU List** \rightarrow **Config** \rightarrow **DHCP Server** ONU LAN and DHCP server are configured by private OMCI between OLT and ONU. When the connected ONU supports this function, the option "DHCP Server" can be shown on this page.

	ONU list ONU Status	ONU Optical Information	ONU Version Information	ONU Manual Add	ONU Allowlist	ONU Statistics
OLT Information	Tcont Gemport Service	ce PortVlan Multicast	Port Ip Host MAC	WAN DHCP Server	Bind Mode	WIFI VOIP
OLT Configuration	SIP POTS Misc Mis	c2 TR069 Security	Loopback Detection			
ONU Configuration	DHCP Server Configura	tion (PON:1 ONU:24)				
ONU AuthList		1011 (1 011.1 0110.24)				
ONU AutoFind	LAN IP Address	192.168.1.1				
ONU AutoLearn	LAN Subnet Mask	255.255.255.0				
ONU Upgrade	DHCP Server	Enable V	(0.4004067005)			
Roque ONU	Lease Time	86400	(0-429496/295)			
Profile Configuration	Ending IP Address	192.108.1.33				
System Configuration	Pool Type	PC V				
oystem comgaration	Master DNS	202.96.128.86				
	Slave DNS	8.8.8.8				
	Gateway	192.168.1.1				
		Submit				
	LAN IPv6 Address	fe80::1				
	Prefix Mode	Static				
	Static Ipv6 Address	2099::				
	LAN Prefixlen	64	(48-64)			
	DHCP Server Ipv6	Enable 🗸 🗸				
	Preference Time	10000	(0-4294967295)			
	Valid Time	20000	(0-4294967295)			
	Beginning IPv6 Address	0001:0001:0001:0001	(НННН:НННН:НННН:НННН)(Last 64 bits of IP add	ress)	
	Ending IPV6 Address	0002:0002:0002:0002	(нннн:нннн:нннн:нннн	(Last 64 bits of IP add	ress)	
	DNSv6 Master	PC V				
	DNSv6 Slave					
	IPv6 Gateway	fe80::1				
	RA	✓ Active				
	Manage	disable 🗸				
	Other	enable 🗸 🗸				
	Max Interval	20	(1-1800)s			
	Min Interval	10	(1-1800)s			
		Submit				

Figure 4-1-12: ONU DHCP Server

4.1.1.1.11 Bind Mode

$ONU\ Configuration \rightarrow ONU\ AuthList \rightarrow ONU\ List \rightarrow Config \rightarrow Bind\ Mode$

ONU LAN bind mode is configured by private OMCI between OLT and ONU. When the connected ONU supports this function, the option "Bind Mode" can be shown on this page.

UIII VE	ONU	list Ol	NU Stat	tus ON	U Optical In	formation	ONU Ve	ersion Infor	mation	ONU	Manual Add	ONU Allowlist	ONU Sta	atistics
OLT Information	Tcont	Gem	port	Service	PortVlan	Multicast	Port	Ip Host	MAC	WAN	DHCP Server	Bind Mode	WIFI	VOIP
OLT Configuration	SIP	POTS	Misc	Misc2	TR069	Security	Loopba	ck Detectio	n			\smile		
ONU Configuration	LAN	Bind M	iode Co	onfigurat	ion (PON:	1 ONU:24)								
ONU AuthList				-										
ONU AutoFind	Port		LAN1		~									
ONU AutoLearn	Bind	Mode	N/A		~									
ONU Upgrade				Sut	omit									
Rogue ONU														
Profile Configuration														
System Configuration														

Figure 4-1-13: LAN Bind Mode Configuration

4.1.1.1.12 WIFI ONU Configuration \rightarrow ONU AuthList \rightarrow ONU List \rightarrow Config \rightarrow WIFI

ONU WIFI is configured by private OMCI between OLT and ONU. When the connected ONU supports this function, the option "WIFI" can be shown on this page.

		_											-
	ONU lis	t ONU S	tatus ONU (Optical Infor	mation	ONU Ve	rsion Inf	ormation	ONU M	1anual Add	ONU Allowlist	ONU Statistics	
OLT Information	Tcont	Gemport	Service I	PortVlan M	Multicast	Port	Ip Host	t MAC	WAN	DHCP Serv	er Bind Mode	WIFI VOIP	SIP
OLT Configuration	POTS	Misc M	isc2 TR069	Security	Loopb	ack Dete	tion					<u> </u>	
ONU Configuration	WiFi S	witch Cor	nfiguration (F	ON:1 ONU	:24)								
ONU AuthList					-								
ONU AutoFind	WiFi0	Status	enable	~	WiFi1 Sta	atus		enable		~			
ONU AutoLearn	WiFi0	Area	FCC	~	WiFi1 Are	еа	F	FCC		~			
ONU Upgrade	WiFi0	Standard	802.11ac-A/I	V/AC 🗸	WiFi1 Sta	andard	8	802.11bg	n	~			
Rogue ONU	WiFi0	Channel	auto	~			C	0 (ETS	SI/SPAIN	/RUSSIAN/C	N/World-wide:0-	13;FCC/IC/NCC:0	-
Profile Configuration	WiFi0	Transmit P	ower 20	(0-20dBm)	WiFi1 Ch	annel	1	1;FRANCE	:0,10-13	;MKK/MKK1/	/MKK2/MKK3/Glo	bal:0-14;ISREAL:	0,3-
System Configuration	Wifth	Channel [80 MHz	~	WiFi1 Tra	insmit Po	wer 💈	20 (0-20	0dBm)				
	WiFi0	EasyMesh	disable	~	WiFi1 Ch	annel Wi	ith 🗄	20 MHz	-	~			
	Statu	5 (Subr	nit				Submit					
			0001	inc									
	WiFi S	SSID Confi	iguration										
	SSID		SSID	L(WIFI0)	~								
	Name		FTTH	-5G									
	WiFi S	tatus	enabl	e	~								
	Hide S	tatus	disab	le	~								
	Netwo	rk Authenti	ication WPAF	SK/WPA2P	sk 🗸								
	Encry	ot Type	TKIP	+AES 🗸									
	Share	d Key	•••••										
			Subm	nit									

Figure 4-1-14: WIFI Configuration

4.1.1.1.13 VOIP

$ONU\ Configuration \rightarrow ONU\ AuthList \rightarrow ONU\ List \rightarrow Config \rightarrow VOIP$

This page shows WAN information of VOIP service, including IP address and VLAN. You can also operate VOIP module on this page. When the connected ONU supports VOIP, the option "VOIP" can be shown on this page.

	ONU	list Of	VU Stat	us ON	U Optical In	formation	ONU Ve	ersion Inforr	mation	ONU	Manual Add	ONU Allowlist	ONU Statistics
OLT Information	Tcont	Gem	port	Service	PortVlan	Multicast	Port	Ip Host	MAC	WAN	DHCP Serv	er Bind Mode	WIFI VOIP
OLT Configuration	SIP	POTS	Misc	Misc2	TR069	Security	Loopba	ck Detectior	n				$\mathbf{}$
ONU Configuration													
ONU AuthList	Voi	ce Wan I	[nform	ation (P	ON:1 ONU	:24)							
ONU AutoFind	Void	e IP Mod	e		Static I	P							
ONU AutoLearn	IP A	ddress			0.0.0.0	1							
ONU Upgrade	Net	work Mas ault Gate	ik wav		0.0.0.0								
Rogue ONU	Voic	e Client	VLAN		0								
Profile Configuration	Voic	e Priority	′ –		0								
System Configuration	Set	IAD Opei	ration	Reregiste	er Deregis	ster Reset							

Figure 4-1-15: Voice Wan Information

4.1.1.1.14 SIP

$ONU\ Configuration \rightarrow ONU\ AuthList \rightarrow ONU\ List \rightarrow Config \rightarrow SIP$

ONU VoIP SIP parameter can be configured on this page, including SIP server, proxy server, digit map and so on. When the connected ONU supports VOIP, the option "SIP" can be shown on this page.

	ONU list ONU Status	ONU Optical In	al Information ONU Version Information				ONU	1anual Add	ONU Allowlist ONU		atistics
OLT Information	Tcont Gemport Servi	ce PortVlan	Multicast	Port	Ip Host	MAC	WAN	DHCP Server	Bind Mode	WIFI	VOIP
OLT Configuration	SIP POTS Misc Mi	c2 TR069	Security	Loopba	ck Detectio	n					
ONU Configuration											
ONU AuthList	SIP Paramter Configur	ation (PON:1	ONU:24)								
ONU AutoFind	Manage Port		5060			(1-6553)	5)				
ONU AutoLearn	Proxy Server IP Or Name	/Port	0.0.0.0			5060	(1-655	35)			
ONU Upgrade	Backup Proxy Server IP (r Name/Port	0.0.0.0			5060	(0-655	35)			
Rogue ONU	Register Server IP Or Na	ne/Port	0.0.0.0			5060	(1-655	35)			
Profile Configuration	Backup Register Server I	P Or Name/Port	0.0.0.0			5060	(0-655	35)			
System Configuration	Out Bound Server IP Or I	lame/Port	0.0.0.0			5060	(1-655	35)			
	Register Interval		3600		(1-10000	000)				
			Submit								
	SIP Digit Map Configur	ation									
	SIP Digit Map Block	Subm	it.						ľ		

Figure 4-1-16: SIP Parameter

4.1.1.1.15 POTS

ONU Configuration \rightarrow **ONU** AuthList \rightarrow **ONU** List \rightarrow Config \rightarrow **POTS**

ONU VoIP POTS account, password and other VOIP parameters of POTS can be configured on this page; the length of SIP account and password can't be more than 16 characters, the length of SIP username can't be more than 32 characters.

When the connected ONU supports VOIP, the option "POTS" can be shown on this page.

\sim \sim \sim \sim \sim \sim \sim \sim \sim \sim	ONUL list ONUL Status			ONU Optical Information			on ONU Version Information						
	ONU lis	ONU St	atus ON	U Optical In	formation	ONU Ve	ersion Infor	mation	ONU	Manual Add	ONU Allowlist	ONU St	atistics
OLT Information	Tcont	Gemport	Service	PortVlan	Multicast	Port	Ip Host	MAC	WAN	DHCP Serv	ver Bind Mode	WIFI	VOIP
OLT Configuration	SIP	POTS Mis	c Misc2	TR069	Security	Loopba	ck Detectio	n					
ONU Configuration	VolD	lort	Dote		~								
ONU AuthList	VOIP P	ort	Pots	L	•								
ONU AutoFind	POTS	Informatio	n										
ONU AutoLearn	Port 9	Statue	Ina	ctive									
ONU Upgrade	TORES	10000	1110	cuve									
Rogue ONU	SIP U	ser Parame	eter Config	juration (F	PON:1 ONU	:24)							
Profile Configuration	Accou	nt active	🔘 Di	sable 🔿 Fr	able								
System Configuration	User A	ccount											
	User N	lame											
	User P	assword											
			Subr	nit									
	Advar	nced Param	eter Conf	iguration									
	VAD		Dis	able	~								
	Echo c	ancer asis(dB)	Ena	ibie	•	1							
	Outou	yam(ub) t abin(dB)	0			ļ							
	Dtmf r	node	Tra	nsparent	~	J							
	24111		Su	bmit									

Figure 4-1-17: POTS Configuration

4.1.1.1.16 Misc

$ONU\ Configuration \rightarrow ONU\ AuthList \rightarrow ONU\ List \rightarrow Config \rightarrow Misc$

Misc includes other features of ONUs configured by private OMCI, such as reset default, CATV control, and so on.

	ONU List ONU Status ONU Optical Info ONU Manual Add ONU Whitelist
OLT Information	Toont Gemont Service Service Port PortVian Multicast Port Johnst WAN DHCP Server BIND Mode WIFE VOIP SIP POTS
OLT Configuration	
ONU Configuration	Misc Control Operation
ONU AuthList	
ONU AutoFind	Save configuration Save
ONU AutoLearn	Restore default Restore
ONU Upgrade	IGMP configuration
Rogue ONU	
Profile Configuration	STP configuration
System Configuration	Port isolate Port isolate Enable Submit
	Speed Limit Configuration Upstream limit 0 DownStream limit 0 Submit 0 Mac Table Configuration mac age time 0 mac age time 0 0 Pon mac limit 0 0 Submit 0 0 Submit 0 0 Guardiant 0 0 Submit 0 0

Figure 4-1-18: Misc Configuration

4.1.1.1.17 Misc2

$ONU\ Configuration \rightarrow ONU\ AuthList \rightarrow ONU\ List \rightarrow Config \rightarrow Misc2$

Misc2 includes the NAT type and UPnP configuration of ONUs configured by private OMCI.

	ONU	list ON	IU Sta	us ONU Optical Information			ONU Version Information		ONU Manual Add		ONU Allowlist	ONU Statistics		
OLT Information	Tcont	Gemp	ort	Service	PortVlan	Multicast	Port	Ip Host	MAC	WAN	DHCP Serv	er Bind Mode	WIFI	VOIP
OLT Configuration	SIP	POTS	Misc	Misc2	TR069	Security	Loopba	ck Detection	n					
ONU Configuration	Mis	c2 Contr	ol Op	eration (F	PON:1 ON	U:24)								
ONU AuthList														
ONU AutoFind		J NAL IY	pe	NA	T1	~								
ONU AutoLearn	10AI	Type		Sul	hmit Refr	esh								
ONU Upgrade						0011								
Rogue ONU	ON	J UPnP C	onfig	uration										
Profile Configuration	UPn	P Status		dis	able	~								
System Configuration	MAN	V Index		1 Sul	bmit Refr	esh								

Figure 4-1-19: Misc2 Configuration

4.1.1.1.18 TR069

$ONU\ Configuration \rightarrow ONU\ AuthList \rightarrow ONU\ List \rightarrow Config \rightarrow TR069$

ONU TR069 is configured by private OMCI between OLT and ONU.

It supports configuring TR069 management parameters and STUN server configurations.



	ONU list ONU Status ONU	Optical Information	ONU Version Information	ONU Manual Add	ONU Allowlist	ONU Statistics
OLT Information	Tcont Gemport Service	PortVlan Multicast	Port Ip Host MAC	WAN DHCP Ser	ver Bind Mode	WIFI VOIP
OLT Configuration	SIP POTS Misc Misc2	TR069 Security	Loopback Detection			
ONU Configuration	Tr069 Configuration (PON:1	ONU:24)				
ONU AuthList						
ONU AutoFind	1 R069 Manage Configuratio	n				
ONU AutoLearn	Tr069 Manage Status	Disable	~			
ONU Upgrade	ACS Server Address					
Rogue ONU	ACS Server Username					
Profile Configuration	ACS Server Password					
System Configuration	Certificate	Disable	~			
,	Inform	Disable	×			
	Inform Interval Time		(0-4294967295)			
	Reverse Connection Username					
	Reverse Connection Password					
		Submit				
	TR069 Stun Configuration					
	······					
	Tr069 STUN Status	Disable	~			
	Stun Server Address					
	Stun Server Port		(1-65535)			
	Stun Server User Name					
	Stun Server Password					
		Submit				

Figure 4-1-20: TR069 Configuration

4.1.1.1.19 Security

<u>oir</u>live®

$ONU \ Configuration \rightarrow ONU \ AuthList \rightarrow ONU \ List \rightarrow Config \rightarrow Security$

ONU Security is configured by private OMCI between OLT and ONU.

It supports you to modify ONU passwords, firewall level, and device access rules. Please note that if you need to enable the device's access protocol, you need to first modify the firewall level to low or disabled.

	ONU list ONU Status	ONU Optical Information	ONU Version Information	ONU Manual Add O	NU Allowlist ONU Statistics
OLT Information	Treat Connect Co	n daa Dambidaa Multiaa			Diad Mada MUTT MOTO
	icont Gemport Se	rvice Portvian Multica	SL PORT ID HOST MAC	WAN DHCP Server	Bind Mode WIFI VOIP
OLT Configuration	SIP POTS Misc	Misc2 TR069 Security	Loopback Detection		
ONU Configuration	User Control Configu	ration (PON:1 ONU:24)			
ONU AuthList	_				
ONU AutoFind		Admin Name	admin		
ONU AutoLearn	_	Admin Password	admin123		
ONU Upgrade		User Name	user		
Rogue ONU		User Password	user123		
Profile Configuration		Submit			
System Configuration	Firewall Level				
	Firewall Level ACL Configuration	High V Submit	J		
	Protocol Control Lan	Wan Port			
	Ping 🗌 🗹	Disable 🗸			
	Telnet 🗌	Disable 🗸 23			
	FTP 🗌	Disable 💙 21			
	НТТР 🗌 🗹	Disable 🗸 80			
	HTTPS 🗌 🗹	Disable 🗸 443			
	TFTP 🗌	Disable 🗸 0			
	SSH 🗌	Disable 🖌 22			
	Submit Refresh				

Figure 4-1-21: Security Configuration

4.1.1.1.20 Loopback Detection

ONU Configuration \rightarrow ONU AuthList \rightarrow ONU List \rightarrow Config \rightarrow Loopback Detection

ONU Loopback Detection is configured by private OMCI between OLT and ONU. It supports configuring the loop detection status and parameters of the ONU.

	ONU list ONU Statu	us ONU Optical I	Information	ONU Ve	ersion Inforr	mation	ONU	Manual Add	ONU Allowlist	ONU St	atistics
OLT Information	Tcont Gemport S	Service PortVlar	n Multicast	Port	Ip Host	MAC	WAN	DHCP Serve	er Bind Mode	WIFI	VOIP
OLT Configuration	SIP POTS Misc	Misc2 TR069	Security	Loopba	ck Detectior	n					
ONU Configuration	Loopback Detectio	n Configuration	(PON:1 ONU	:24)							
ONU AuthList											
ONU AutoFind	Please note that n	ot all onu suppor	t Destinatio	I MAC I	ype,Port C	losing	l ime, A	larm and Po	rtaisloopea con	ifiguratio	on.
ONU AutoLearn	Status	enable	~								
ONU Upgrade	Check Interval	1000	(1	-60000)n	ns						
Rogue ONU	Recover Interval	60	(1	-1800)s							
Profile Configuration	Ethernet Type	fffa	(н	ннн)							
System Configuration	VLAN ID	0	(0	-4094; 0	means no v	vlan is o	onfigure	d)			
	Destination MAC Typ	e Broadcast A	ddress 🗸								
	Port Closing Time	60	(1	-1800)s							
	Alarm	enable	~								
	Portdislooped	enable	~								
		Submit Re	fresh								

Figure 4-1-22: Loopback Detection Configuration

4.1.1.2 Deactivate

ONU Configuration → **ONU** AuthList → **ONU** List → Deactivate (Activate)

Deactivate the ONU which you selected, the ONU will be disabled and the registration failed. Activate selected ONU, this ONU will register successfully.

	ONU list ONU	J Status	ONU Optica	Information	ONU	Versior	n Information	ONU Mar	ual Add	ONU Allowlist	ONU Statistics	
OLT Information	ONU Authent	tication	Information									
OLT Configuration	Port ID	PON1		~								
ONU Configuration	Search Mode	All		~								
ONU AuthList	Search Info	All		Sea	rch							
ONU AutoFind	ONU Count	20/24	ł									
ONU AutoLearn												
ONU Upgrade	Delete All	Delete O	ffline Refresh									
Rogue ONU	ONU ID	Status	Description	Model	Profile	Mode	Info	Action		1		
Profile Configuration	GPON0/1:1	Online	GPON0/1:1	G04D	default	Sn	LYTBac700b76	<u>Config</u>	Deactivat	e <u>Delete</u> Optica	al Info Detail Info	<u>Reboot</u>
System Configuration	GPON0/1:2	Offline	GPON0/1:2	unknown	default	Sn	LYTBac700b6f	Config	<u>Activate</u>	Delete Optical I	nfo Detail Info R	<u>eboot</u>
System Configuration	GPON0/1:1 GPON0/1:2	Offline	GPON0/1:1 GPON0/1:2	unknown	default	Sn	LYTBac700b76	Config	Activate	<u>Delete</u> <u>Optical</u>	info Detail Info R	eboot

Figure 4-1-23: Deactivate/Activate ONU

4.1.1.3 Delete

ONU Configuration \rightarrow **ONU** AuthList \rightarrow **ONU** List \rightarrow Delete

Delete the ONU which you selected, the ONU will be deleted and the registration failed. All the configurations related this ONU will be deleted as well.

	ONU list Of	VU Status	ONU Optica	Information	ONU	Version Ir	nformation (ONU Manu	ual Add	ONU Allo	wlist ONU	Statistics	
OLT Information	ONU Auther	ntication	Information										
OLT Configuration	Port ID	PON1		~									
ONU Configuration	Coarch Mode												
ONU AuthList	Search Info	All		Sea	rch								
ONU AutoFind	ONU Count	21/24											
ONU AutoLearn													
ONU Upgrade	Delete All	Delete Of	fline Refresh										
Rogue ONU	ONU ID	Status	Description	Model	Profile	Mode Ir	fo	Action		_			
Profile Configuration	GPON0/1:1	Online	GPON0/1:1	G04D	default	Sn Lì	TBac700b76	<u>Config</u>	<u>Deactivate</u>	<u>Delete</u>	Optical Info	Detail Info	<u>Reboot</u>
System Configuration	GPON0/1:2	Online	GPON0/1:2	G04D	default	Sn Lì	TBac700b6f	Config	<u>Deactivate</u>	Delete	Optical Info	Detail Info	<u>Reboot</u>

Figure 4-1-24: Delete ONU

4.1.1.4 Optical Info

ONU Configuration \rightarrow **ONU AuthList** \rightarrow **ONU List** \rightarrow **Optical Info** Check the Optical Information of ONU PON module which you selected.

	ONU list ONU Status ONU Optical Information ONU Version Information ONU Manual Add ONU Allowlist ONU Statistics											
OLT Information	ONU Authentication Information											
OLT Configuration	Port ID PON1 🗸											
ONU Configuration												
ONU AuthList	Search Info											
ONU AutoFind	ONU Count 21/24											
ONU AutoLearn												
ONU Upgrade	Delete All Delete Offline Refresh											
Rogue ONU	ONU ID Status Description Model Profile Mode Info Action											
Profile Configuration	GPON0/1:1 Online GPON0/1:1 G04D default Sn LYTBac700b76 Config Deactivate Delete Optical Info Detail Info Reboot											
System Configuration	GPON0/1:2 Online GPON0/1:2 G04D default Sn LYTBac700b6f Config Deactivate Delete Optical Info Detail Info Reboot											
	ONU list ONU Status ONU Optical Information ONU Version Information ONU Manual Add ONU Allowlist ONU Statistics											
OLI Configuration	Back											
ONU Configuration	Interface pon_0/1											
ONU AuthList	GEM_blocklen 48											
ONU AutoFind	Sf Threshold 5											
ONU AutoLearn	Sd Threshold 9											
Poguo ONU	Alarm enable											
Profile Configuration	Alarm disable interval 0											
Evotom Configuration	Total T-CONT number 12											
System Configuration	Piggyback DBA rpt mode 0 only											
	Rx optical level -11.04											
	Lower rx optical threshold onu internal policy											
	Upper rx optical threshold onu internal policy											
	Tx optical level 1.79											
	Lower tx optical threshold onu internal policy											
	Upper tx optical threshold onu internal policy											
	ONU response time 0											
	Power feed voltage 3.42(V)											
	Laser bias current 21.40(mA)											
	Temperature 32.35(C)											
	Distance 1(m)											

Figure 4-1-25: Optical Info of ONU

4.1.1.5 Detail Info

$ONU \ Configuration \rightarrow ONU \ AuthList \rightarrow ONU \ List \rightarrow Detail \ Info$

Check the Detail Info of the ONU which you selected.

0	ONU list ON	U Status	ONU Optica	Information	ONU	Version Informatio	on ONU Manual Add	ONU Allowlist	ONU Statistics	
OLT Information	ONU Authen	tication	Information							
OLT Configuration	Port ID	PON1		~						
ONU Configuration	Coarch Mode	All								
ONU AuthList	Search Info	All		Sea	rch					
ONU AutoFind	ONU Count	21/24	ł							
ONU AutoLearn									1	
ONU Upgrade	Delete All	Delete O	ffline Refresh							
Rogue ONU	ONU ID	Status	Description	Model	Profile	Mode Info	Action			
Profile Configuration	GPON0/1:1	Online	GPON0/1:1	G04D	default	Sn LYTBac700	0b76 <u>Config</u> <u>Deactive</u>	<u>ate</u> <u>Delete</u> <u>Optic</u>	al Info Detail Info	<u>Reboot</u>
System Configuration	GPON0/1:2	Online	GPON0/1:2	G04D	default	Sn LYTBac700	0b6f <u>Config</u> <u>Deactiv</u>	<u>ate</u> <u>Delete</u> <u>Optic</u>	al Info Detail Info	<u>Reboot</u>

Figure 4-1-26: Click Detail info

	ONU list ONU Status ON	U Optical Information	ONU Version Informat	tion ONU Manual Add ONU Allo	wlist ONU Statistics	
Information	Detail Information		Devic	e Capability		
T Configuration	Submit Back					
IU Configuration	Description	GPON0/1:1		TCONT number:	12	
ONU AuthList	Main anthrony warrian	000000000000000000000000000000000000000		GEM port number:	127	
ONU AutoFind	Main software version	GEXVI.1.0		Total priority queue number:	128	
ONU AutoLearn	Standby software version	GEXVI.I.7		up priority queue number:	96	
NU Upgrade	Vendor ID:	HWIC	!	down priority queue number:	32	
logue ONU	Version:	V1.0		Traffic scheduler number:	12	
file Configuration	SN:	LYTBac700b76		Traffic management ontion:	nriotity&rate controller	
tem Configuration	Admin Status:	unlock		Total UNI number		
	Battery monito:	false		Total ONI number:	4	
	Security mode:	aes			4	
	Product code:	0		40GE number:	0	
	Total priority queue num:	128		25GE number:	0	
	Total traffic schedule num:	12		10GE number:	0	
	Traffic management option:	priotity&rate controlled	L L	5GE number:	0	
	Operate status:	enable		2.5GE number:	0	
	Equipment ID:	G04D		GE number:	0	
	OMCC Version:	128		FE number:	3	
	Security capability:	aes		CES UNI number:	0	
	Model:	N/A		POTS UNI number:	0	
	Survival time:	N/A		Video UNI number(num:slot/port):	0:0/0	
	TotalGemPortNum:	127		WIFI UNI number:	0	
	SvsUpTime:	991592 s		XDSL UNI number:	0	
	Region code:	0		IP host number:	3	
	Product SN:	N/A		IPv6 host number	0	
	Chin info:	0		VEIP number:	0	
	Comp more	ľ .		Operation Id:	0	
				CTC spc Version:	CTC 2.0	
				CUC spc Version:	N/A	
				ONU Type:	SFU	
				Tx power supply control:	Not support	

Figure 4-1-27: Detail info of ONU

4.1.1.6 Reboot

ONU Configuration \rightarrow **ONU AuthList** \rightarrow **ONU List** \rightarrow **Reboot** Reboot ONU which you selected.

	ONU list ONU S	Status ON	U Optical Informat	ion ONU	Version In	formation (ONU Manual Add	ONU Allowlist	ONU Statistics	
OLT Information	ONU Authentic	ONU Authentication Information								
OLT Configuration	Port ID	PON1	~							
ONU Configuration	Search Mode		~							
ONU AuthList	Search Info			Search						
ONU AutoFind	ONU Count	21/24								
ONU AutoLearn										
ONU Upgrade	Delete All Del	lete Offline	Refresh							
Rogue ONU	ONU ID S	tatus Descr	ription Model	Profile	Mode In	o	Action			1
Profile Configuration	GPON0/1:1 O	online GPON	10/1:1 G04D	default	Sn LY	TBac700b76	Config Deactiv	ate Delete Optic	al Info Detail Info	<u>Reboot</u>
System Configuration	GPON0/1:2 O	online GPON	10/1:2 G04D	default	Sn LY	TBac700b6f	Config Deactiv	ate <u>Delete</u> Optic	al Info Detail Info	<u>Reboot</u>

Figure 4-1-28: Reboot ONU

4.1.2 ONU Status

ONU Configuration \rightarrow **ONU** AuthList \rightarrow **ONU** Status

This pages shows the ONU information of the activity. User can check "Last Register Time", "Last Deregister Reason" and "Active Time" of each ONU.



	ONU list ON	U Status ON	NU Optical Info	ormation C	NU Version Inf	ormation ONU Manua	I Add ONU Allowlist	ONU Statistics	
OLT Information	ONU Status	Information							
OLT Configuration	Port ID	PON1	~]					
ONU Configuration	total-24 log	aina-0 offlin	e-3_svncMit	-0 configEa	il-0 working-	-21			
ONU AuthList	total 24, log	ging 0, onin	e o, oynerne	, o, comgre	in o, working				
ONU AutoFind	Refresh								
ONU AutoLearn	ONU ID	Admin State	OMCC State	Phase State	Description	Last Register Time	Last Deregister Time	Last Deregister Reason	Alive Time
ONU Upgrade	GPON0/1:1	enable	enable	working	GPON0/1:1	1970:01:01 08:01:18	N/A	N/A	11 11:27:39
Rogue ONU	GPON0/1:2	enable	enable	working	N/A	1970:01:12 19:23:36	N/A	Manual Deactivate	00:05:21
Profile Configuration	GPON0/1:3	enable	enable	working	NEO	1970:01:01 08:01:07	N/A	N/A	11 11:27:50
System Configuration	GPON0/1:4	enable	enable	working	N/A	1970:01:01 08:01:07	N/A	N/A	11 11:27:50

Figure 4-1-29: ONU Status

4.1.3 ONU Optical Info

ONU Configuration \rightarrow **ONU** AuthList \rightarrow **ONU** Optical Info

This page displays ONU Rx and Tx power. A batch of ONU optical power information can be shown in a list. Clearly to check the register power when register issue happens.

	ONU list	ONU Status	ONU Optical Ir	nformatio	on	on ONU Version Information	ONU Version Information ONU Manual Add	on ONU Version Information ONU Manual Add ONU Allowlist
OLT Information	ONU Opt	tical Info						
OLT Configuration	Port ID	PON1		~				
ONU Configuration	ONU Gro	up ONU 1	-64	~				
ONU AuthList	Refresh							
ONU AutoFind	ONU ID	Descript	ion RX Power	TX Power				
ONU AutoLearn	GPON0/	1:1 GPON0/:	1:1 -11.04	1.79				
ONU Upgrade	GPON0/	1:2 N/A	-11.52	2.09				
Rogue ONU	GPON0/	1:3 NEO	-22.44	2.40				
Profile Configuration	GPON0/	1:4 N/A	-15.74	2.29				
System Configuration								

Figure 4-1-30: ONU Optical Info

4.1.4 ONU Version Information

ONU Configuration \rightarrow **ONU** AuthList \rightarrow **ONU** Version Information

This page displays the main and standby software versions of the ONU. You can display the version information of a batch of ONUs in the list.

						_
	ONU list	ONU Status	ONU Optical Information	ONU Version Information	ONU Manual Add	l
OLT Information	ONU Ver	sion Info				
OLT Configuration	Port ID	PON1	~			
ONU Configuration	ONU Grou	IP ONU 1-6	4 🗸			
ONU AuthList	Refresh	1				
ONU AutoFind	ONU ID	Description	Main software version	Standby software version	Version	
ONU AutoLearn	GPON0/1	:1 GPON0/1:	1 GEXv1.1.6	GEXv1.1.7	V1.0	
ONU Upgrade	GPON0/1	.:2 N/A	GEXv1.1.6	GEXv1.1.7	V1.0	
Rogue ONU	GPON0/1	1:3 NEO	1.0.36	1.0.29	V1.0	
Profile Configuration	GPON0/1	1:4 N/A	1.0.38	1.0.38	V3 21	
System Configuration	010110/1		1.0.50	1.0.50	\$3.21	

Figure 4-1-31: ONU Version Info

4.1.5 ONU Manual Add

ONU Configuration \rightarrow **ONU** AuthList \rightarrow **ONU** Manual Add

You can manually add ONU to a selected PON port. ONU will appear in the ONU list after you added.

	ONU list	ONU Status	ONU Optical Information	ONU Version Information	ONU Manual Add	ONU Allowlist	ONU Statistics
OLT Information	Add ON						
OLT Configuration		U		_			
ONU Configuration	PON Por	rt	PON1 V				
ONU AuthList	ONU ID		25	1			
ONU AutoFind	Auth Mr	odo		-			
ONU AutoLearn	Autrini	Jue		-			
ONU Upgrade	ONU Sn						
Rogue ONU	ONU Pro	ofile	default 🗸				
Profile Configuration	Submit			1			
System Configuration							

Figure 4-1-32: Add ONU Manually

4.1.6 ONU Allowlist

ONU Configuration \rightarrow **ONU** AuthList \rightarrow **ONU** Allowlist

You can set up an allowlist on this page.

Allowlist can restrict ONU registration based on SN. It allows ONUs within one or more segments to register, while other ONUs cannot register and go online.

ONU list	ONU Status	ONU Optical Information	ONU Version Inf	formation	ONU Manual Add	ONU Allowlist	ONU Statistics	
Add ON								
Add ON								
sn			ļ					
Endsn								
		Add						
ONU All	owList Table							
Index	Allowl	ist	Delete					
Clear	Refresh							
	ONU list Add ON sn Endsn ONU All Index Clear	ONU list ONU Status Add ONU Allowlist sn Endsn ONU AllowList Table Index Allowl Clear Refresh	ONU list ONU Status ONU Optical Information Add ONU Allowlist sn Endsn Add ONU AllowList Table Index Allowlist Clear Refresh	ONU list ONU Status ONU Optical Information ONU Version Information Add Add ONU AllowList Table Index Allowlist Clear Refresh	ONU list ONU Status ONU Optical Information ONU Version Information Add Add Add ONU AllowList Table Index Allowlist Clear Refresh	ONU list ONU Status ONU Optical Information ONU Version Information ONU Manual Add Add Add Add Add Add ONU AllowList Table	ONU list ONU Status ONU Optical Information ONU Version Information ONU Manual Add ONU Allowlist Add Add Image: Status and Statu	

Figure 4-1-33: ONU Allowlist

4.1.7 ONU Statistics

ONU Configuration \rightarrow ONU AuthList \rightarrow ONU Statistics

This page displays the number of incoming and outgoing packets for batch ONUs.

	ONU list	ONU Status ON	U Optical Inform	ation ONU Ve	rsion Information	ONU Manual Add	ONU Allowlist	ONU Statistics
OLT Information	ONU Statistics Info							
OLT Configuration	Port ID	PON1	~					
ONU Configuration	ONU Grou	up ONU 1-64	*					
ONU AuthList	Refresh	1						
ONU AutoFind	ONU ID	Input bytes	Input packets	Output bytes	Output packets			
ONU AutoLearn	CDONO/	1.1 1669170554	7447077	4407740922	7264425			
ONU Upgrade	GPOIND/	1:1 10081/9554	/44/3//	4407740822	7204425			
Roque ONU	GPON0/:	1:2 2126826402	11326942	17455662980	16118866			
Profile Configuration	GPON0/:	1:3 6629453487	25404833	37790728939	32987999			
Cystem Configuration	GPON0/	1:4 6204231680	29023071	53116789640	45278011			
System comgulation	GRONO/	1.5 12272206797	61990501	125002414627	112564647			

Figure 4-1-34: ONU Statistics Info

4.2 ONU AutoFind

This chapter is about the configuration and management of automatic discovery ONUs.

4.2.1 Automatic Discovery

ONU Configuration \rightarrow **ONU** AutoFind \rightarrow Automatic Discovery

All ONUs which are authenticated failed or not authenticated will be displayed in this interface. You can check the serial number of ONUs. Then click Add to authenticate ONU.

	Automat	ic Discove	ery Ag	ging Tin	ne		
OLT Information	Automatic Discovery						
OLT Configuration	Port ID PONI						
ONU Configuration	Port ID PON1					~	
ONU AuthList	Search Info Search				Search		
ONU AutoFind							
ONU AutoLearn	Refres	n Con	Irm All				
ONU Upgrade	Index	Sn		SnPw	loid	loidpw	Action
Rogue ONU	1	GPON00	1726bc	NULL	NULL	NULL	Add
Profile Configuration							
System Configuration							

Figure 4-2-1: Automatic Discovery

	Automatic Discovery	Aging Time					
OLT Information							
OLT Configuration	Add Onu						
ONU Configuration	DON Num						
ONU AuthList	PON Num						
ONU AutoFind	ONU Num	25					
ONU AutoLearn	Auth Mode	Sn 🗸					
ONU Upgrade	Onu Sn	GPON001726bc					
Rogue ONU							
Profile Configuration	ONU Profile	default 🗸					
System Configuration	Submit Back						

Figure 4-2-2: Add ONU

4.2.2 Aging Time

ONU Configuration \rightarrow **ONU** AutoFind \rightarrow Aging Time

It allows you to configure the retention time of automatically discovered ONU information. The default configuration is 5 minutes.

	Automatic Discovery Aging Time
OLT Information	Aging Time Config
OLT Configuration	
ONU Configuration	Aging Time 300 (60-3600s)
ONU AuthList	
ONU AutoFind	Commit Refresh
ONU AutoLearn	
ONU Upgrade	PON Aging Time
Rogue ONU	PON1 300
Profile Configuration	
System Configuration	

Figure 4-2-3: Aging Time

4.3 ONU AutoLearn

4.3.1 ONU AutoLearn

$ONU\ Configuration \rightarrow AutoLearn \rightarrow ONU\ AutoLearn$

ONU can automatically authenticate after enabling PON port automatic learning. At

the same time, OLT supports automatic binding templates based on PON ports. There are also plug and play enabled switches on this interface.

Note: this autolearn feature is disabled by default.

	ONO Autobeine ONO Autobeiete
OLT Information	Automatic Learn
OLT Configuration	Default ONU Profile default
ONU Configuration	
ONU AuthList	
ONU AutoFind	Default vlan 1
ONU AutoLearn	
ONU Upgrade	PON ID Enable Line Profile Srv Profile Alarm Profile Pri Profile Format Profile
Rogue ONU	
Profile Configuration	Apply Refresh
System Configuration	

Figure 4-3-1:ONU AutoLearn

4.3.2 ONU AutoBind

ONU Configuration → **AutoLearn** → **ONU AutoBind**

Input the Equipment ID and bind the profile you need *Note: you must create a profile first.*

	ONU AutoLearn	ONU AutoB	ind ONU /	AutoDelete				
LT Information	Automatic Bind	1						
LT Configuration								
NU Configuration	Equipment ID	ONU Profile	Line Profile	Service Profile	Alarm Profile	Pri Profile	Format Profile	Action
ONU AuthList								
ONU AutoFind	Select Equipme	ent ID Matc	hing Type					
ONU AutoLearn	Matabian Tura	Current Madal		ล				
ONU Upgrade	Matching Type	Exact Match	ning 🗸					
Rogue ONU	Submit							
ofile Configuration								
stem Configuration	Add ONU Autor	matic Bind						
	Equipment ID							
	ONU Profile	default	~]				
	Line Profile	vlan6	~]				
	Service Profile	tag6	~					
	Alarm Profile	alarm_prof	ile_1 🗸]				
	Pri Profile	pri_1	~					
	Format Profile	format_1	~]				
	Add Refresh							

Figure 4-3-2: Bind profile

4.3.3 ONU AutoDelete

ONU Configuration \rightarrow AutoLearn \rightarrow **ONU** AutoDelete

It supports periodic checking and deleting offline ONUs and this feature is disabled by default.



\sim				
	ONU AutoLearn	ONU AutoBind	ONU AutoDelete	
OLT Information	Offline ONU Au	to Delete Confi	guration	
OLT Configuration			-	
ONU Configuration	Auto Delete	Disable	~	mine (Chould be a multiple of five Papers 44640 mine)
ONU AuthList	Submit Rofro	ch.		innis (Should be a multiple of five. Kange.3-44040 mins.)
ONU AutoFind	Sublint Keire	511		
ONU AutoLearn				
ONU Upgrade				
Rogue ONU				
Profile Configuration				
System Configuration				

Figure 4-3-3: ONU AutoDelete

4.3.4 ONU Scheduled Reboot

ONU Configuration \rightarrow AutoLearn \rightarrow **ONU** Scheduled Reboot

Configure ONU to automatically restart based on time.

•••••••								
	ONU AutoLearn	ONU AutoBi	nd ONU Auto	Delete	ONU Schedule	d Reboot	ONU Pre Conf	igure
OLT Information	Current Time							
OLT Configuration	Sun Con 20 454							
ONU Configuration	Sun Sep 29 15:.	34:03 2024						
ONU AuthList	ONU Schedule	d Reboot Co	nfiguration					
ONU AutoFind	ONU Scheduled	Reboot ena	ble	~				
ONU AutoLearn	Port ID	POP	11		1 - 1 1 1			
ONU Upgrade	Schedule Reboo	t Eiv	Time (Monthly)	(1	1 of 1-3 of 1,2)			
Rogue ONU	Fix Time (Month	lv) 1)av (0	Hour	0	✓ Minute
Profile Configuration		Sul	mit Delete	a, c	•		<u> </u>	
System Configuration								
AC controller	ONU Reboot Ta	able						
	ONU ID Reboo	t Types Rebo	ot Time Action					

Figure 4-3-4: ONU Scheduled Reboot

4.3.5 ONU Pre-Configure

ONU Configuration \rightarrow AutoLearn \rightarrow ONU Pre-Configure

Manually add a pre-registration configuration to the ONU list in PON, and when the ONU is registered with that ID, it will automatically bind the configuration settings.

	ONU AutoLearr	ONU Aut	oBind ON	U AutoDelete	ONU Schedule	ed Reboot	ONU Pre Conf	igure
OLT Information	Add ONU Pre	e Configure						
OLT Configuration								
ONU Configuration	Port ID	PON1		*				
ONU AuthList	ONU ID			(1 or 1-3 o	r 1,2)			
ONU AutoFind	ONU Profile	default		~				
ONU AutoLearn								
ONU Upgrade	Line Profile	line_1		~				
Rogue ONU	Service Profi	e service		~				
Profile Configuration	Submit De	lete						
System Configuration	ONU Pre Cor	figure Tab	0					
AC controller	ond the cor	inguic rub						
	Clean Refr	esh						
	ONU ID	ONU Profile	Line Profile	Service Profile	Alarm Profile	Pri Profile	Format Profile	Action
	GPON0/1:2	default	line_1	service	N/A	N/A	N/A	Ū

Figure	4-3-5.	ONU	Pre-C	onfigure
1 iguic	ч-л-л.	0110	110-0	oninguic

4.4 ONU Upgrade

ONU firmware can be upgraded by OLT. OLT supports manual upgrade and automatic upgrade.

4.4.1 UpLoad Image

ONU Configuration \rightarrow **ONU** Upgrade \rightarrow **ONU** Image

Upload ONU firmware image which you need, the image will upload to OLT's RAM.

	UpLoad Image	Manual Upgrade	Upgrade Status	Auto Upgrade	Auto Upgrade Status			
OLT Information	Firmware Upl	oad						
OLT Configuration	-							
ONU Configuration	Select File: Ch	loose File No file ch	iosen					
ONU AuthList	Opioad							
ONU AutoFind								
ONU AutoLearn								
ONU Upgrade								
Rogue ONU								
Profile Configuration								
System Configuration								

Figure 4-4-1: Upload image

4.4.2 Manual Upgrade

ONU Configuration \rightarrow **ONU** Upgrade \rightarrow Manual Upgrade

Select the ONU image and the ONU that needs upgrade, click Commit button to start upgrading. You can upgrade the same ONU model under one PON port each time.
\mathbf{O}					
	UpLoad Image	Manual Upgrade	Upgrade Status	Auto Upgrade	Auto Upgrade Status
OLT Information	Select ONU Fi	rmware			
OLT Configuration					
ONU Configuration	Firmware Nam	e Select Action			
ONU AuthList					
ONU AutoFind	Upgrade ONU	Firmware			
ONU AutoLearn	DON TO	[DONI]			
ONU Upgrade	PONID	PONI			
Rogue ONU	ONU ID		x or x-y		
Profile Configuration	Upgrade Mode	Mix	~		
System Configuration	Commit				

Figure 4-4-2: Manual Upgrade

4.4.3 Upgrade Status

ONU Configuration \rightarrow **ONU** Upgrade \rightarrow Upgrade Status

When ONU is upgrading, the upgrading status will be shown on this page.

	UpLoad Image	Manual Upg	rade	Upgrade Stati	s Auto Upgrade	
OLT Information	Upgrade Info					
OLT Configuration			_			
ONU Configuration	Selected PON	0 ONU Acti	on			
ONU AuthList	File	Abo	<u>t</u>			
ONU AutoFind						
ONU AutoLearn	Upgrade Prog	ress				
ONU Upgrade	Refresh					
Rogue ONU	PON ONU AC	tion Status	Process	Fail Reason	Commit Time	
Profile Configuration						
System Configuration						

Figure 4-4-3: ONU Upgrade Status

4.4.4 Auto Upgrade

ONU Configuration → **ONU** Upgrade → Auto Upgrade

After uploaded the ONU firmware image, configured automatic upgrade conditions, once the ONU which has the same equipment ID and different software version comes online, they will be upgraded automatically.

Each type of ONU has its own equipment ID, which you can check in ONU detail info.

Note: please upload the ONU firmware in advance on the upload image interface



	UpLoad Image	Manual Upgrade	Upgrade Status	Auto Upgrade	Auto Upgrade Status
OLT Information	Quick Activati	ion ONU Equipme	nt ID		
OLT Configuration	-		1		
ONU Configuration	Equipment ID				
ONU AuthList					
ONU AutoFind	Submit				
ONU AutoLearn	Add ONU Auto	o Upgrade			
ONU Upgrade					
Rogue ONU	Equipment ID				
Profile Configuration	Software Versi	ion			
System Configuration					
	Select ONU Fi	rmware select			
	Add Reset				
	ONU Auto Up <u>o</u>	grade Information	ı		
	Equipment ID	Software Version	Image Name Dele	te	

Figure 4-4-4: Auto Upgrade

4.4.5 Auto Upgrade Status

ONU Configuration → **ONU** Upgrade → Auto Upgrade Status

When ONU is auto upgrading, the upgrading status will be shown on this page.

	UpLoad Image	Manual Upgrade	Upgrade Status	Auto Upgrade	Auto Upgrade Status
OLT Information	Auto Upgrade	Status			
OLT Configuration	total-0, waitin	g-0, running-0, f	inish-0		
ONU Configuration	Refresh			Clean	
ONU AuthList	PON ONU Sta	atus Progress Fail	Reason Action	PON ON	U Status Progress Fail Reason Commit Time Action
ONU AutoFind					
ONU AutoLearn					
ONU Upgrade					
Rogue ONU					
Profile Configuration					
System Configuration					

Figure 4-4-5: Auto Upgrade Status

4.5 Rogue ONU

ONU Configuration \rightarrow Rogue **ONU**

After enabled rogue ONU detection, if there is a rogue ONU trying to register, it will appear in the list.

0	Rogue ON	IU Configur	ation				
OLT Information	Rogue (ONU Detec	t Configuration				
OLT Configuration	PON	Detect stat	e Measurement	Alloc to scar	Auto shutdown	Operation	Algorithm
ONU Configuration	PON 1	disable	silent	all	manual	reboot	Early Dete
ONU AuthList							
ONU AutoFind	Change	Configura	tion				
ONU AutoLearn	chunge	Conngara	cion				
ONU Upgrade	Commi	t					
Rogue ONU	PON	PON 1 ~					
Profile Configuration	Detect	state 🛛	isable	~			
System Configuration	Measur	ement S	ilent	~			
	Alloc to	scan A		~			
	Auto sh	utdown [isable	~			
	Shutdo	wn type 🔽	eboot	~			
	Algorith	im E	arly Rogue Detec	tior 🗸			

PON ONU Keywords Time State

Figure 4-5-1: Rogue ONU detect

Chapter 5 Profile Configuration

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

5.1 ONU Profile

The ONU profile is used for ONU authorization, and each type of ONU must specify only one ONU profile when authorization. The ONU profile specifies the capability of this ONU.

5.1.1 Information

Profile Configuration \rightarrow **ONU** profile \rightarrow **Information**

The table displays ONU profile list. You can also do some operations, such as deleting and checking details info.

airlive	®					
	Information	Add Profile				
OLT Information	ONU Profi	ile				
OLT Configuration						
ONU Configuration	Refresh					
Profile Configuration	Profile ID	Profile Name	Max Tcont	Max Gemport	Max Veip	Actio
ONU Profile	0	default	255	255	1	<u>Detai</u>
DBA Profile						
Line Profile						
Service Profile						
Alarm Profile						
Pri Profile						
IGMP Profile						
Format Profile						
Bind Profile						
System Configuration						

Figure 5-1-1: ONU profile list

5.1.2 Add Profile

Create a new ONU profile what you need. Generally, ONU has two different types. SFU type (only using bridge mode):

Usually, only need to set correct eth port and POTS port number of ONU, others can be kept default.

oirli v e®		
OLT Information	Information Add Profile	
OLT Configuration	Profile ID	1
ONU Configuration	Profile Name	onu_profile_1
Profile Configuration	Description	onu_profile_1
ONU Profile DBA Profile	Max Tcont	8
Line Profile	Max Gemport	32
Service Profile	Max eth	1
Alarm Profile Pri Profile	Max pots	0
IGMP Profile	Max Iphost	2
Format Profile	Max Ipv6host	0
Bind Profile	Max Veip	0
oystem comgaration	Service ability	Disable 🗸
	Service ability N:1	yes 🗸
	Service ability 1:M	yes 🗸
	Service ability 1:P	yes 🗸
	Wifi mgmt via non OMC	Disable 🗸
	Omci send mode	async 🗸
	Default multicast range	none 🗸

Figure 5-1-2: Add SFU profile

HGU type (with the routing wan connection mode):

For HGU type, need to set correct eth port and POTS port number, and set Veip to be 1, keep others default.

OLT InformationAdd ProfileOLT ConfigurationProfile ID1ONU ConfigurationProfile ID1Profile Configurationonu_profile_1ONU ProfileDescriptiononu_profile_1DBA ProfileMax Tcont8Line ProfileMax Gemport32Service ProfileMax eth4Alarm ProfileMax pots2IGMP ProfileMax Iphost0Bind ProfileService abilityDisableSystem ConfigurationService ability 1:MyesYesYesYesService ability 1:PYesYesWifi mgmt via non OMCIDisableOmci send modeasyncYes	airlive						
OLT Information Commute OLT Configuration Profile ID 1 ONU Configuration onu_profile_1 Profile Configuration Description onu_profile_1 DBA Profile Max Tcont 8 Line Profile Max Gemport 32 Service Profile Max eth 4 Alarm Profile Max pots 2 IGMP Profile Max Ipv6host 0 Bind Profile Max Veip 1 System Configuration Service ability N:1 yes Service ability 1:P yes v Service ability 1:P yes v Service ability 1:P Disable v		I	nformation	Add Profile			
OLT ConfigurationProfile ID1ONU Configurationonu_profile_1Profile Configurationonu_profile_1ONU ProfileDescriptiononu_profile_1DBA ProfileMax Tcont8Line ProfileMax Gemport32Service ProfileMax eth4Alarm ProfileMax pots2IGMP ProfileMax Iphost2Format ProfileMax Iphost0Bind ProfileMax Veip1System ConfigurationService ability N:1yesService ability 1:MyesvService ability 1:PyesvWifi mgmt via non OMCIDisablevOmci send modeasvncv	OLT Information		Commit				
ONU ConfigurationProfile Nameonu_profile_1Profile ConfigurationDescriptiononu_profile_1ONU ProfileMax Tcont8DBA ProfileMax Gemport32Service ProfileMax eth4Alarm ProfileMax pots2IGMP ProfileMax Iphost2Format ProfileMax Veip1System ConfigurationService ability N:1yesService ability 1:PyesvService ability 1:PyesvWifi mgmt via non OMCIDisablevOmci send modeasvncv	OLT Configuration		Profile ID		1		
Profile ConfigurationDescriptiononu_profile_1ONU ProfileMax Tcont8DBA ProfileMax Gemport32Service ProfileMax eth4Alarm ProfileMax pots2IGMP ProfileMax Iphost2Bind ProfileMax Veip1System ConfigurationService ability N:1yesService ability 1:PyesvService ability 1:PyesvWifi mgmt via non OMCIDisablevOmci send modeasyncv	ONU Configuration		Profile Name		onu_profile_1		
ONU ProfileMax Tcont8Line ProfileMax Gemport32Service ProfileMax eth4Alarm ProfileMax eth4Pri ProfileMax pots2IGMP ProfileMax Iphost2Format ProfileMax Ipv6host0Bind ProfileMax Veip1System ConfigurationService abilityDisableService ability N:1yesyesService ability 1:PyesyesWifi mgmt via non OMCIDisableyesOmci send modeasyncyes	Profile Configuration		Description		onu profile 1		
DBA ProfileMax Tcont8Line ProfileMax Gemport32Service ProfileMax eth4Alarm ProfileMax pots2IGMP ProfileMax Iphost2Format ProfileMax Ipv6host0Bind ProfileMax Veip1System ConfigurationService abilityDisableService ability N:1yesvService ability 1:MyesvService ability 1:PyesvWifi mgmt via non OMCIDisablevOmci send modeasyncv	ONU Profile				[
Line ProfileMax Gemport32Service ProfileMax eth4Alarm ProfileMax pots2IGMP ProfileMax Iphost2Format ProfileMax Ipv6host0Bind ProfileMax Veip1System ConfigurationService abilityDisableService ability N:1yesvService ability 1:MyesvService ability 1:PyesvWifi mgmt via non OMCIDisablevOmci send modeasyncv	DBA Profile		Max Tcont		8		
Service ProfileMax eth4Alarm ProfileMax pots2Pri ProfileMax Iphost2IGMP ProfileMax Iphost0Bind ProfileMax Veip1System ConfigurationService abilityDisableService ability N:1yesService ability 1:MService ability 1:PyesService ability 1:PWifi mgmt via non OMCIDisableServiceOmci send modeasyncService	Line Profile	_	Max Gemport		32		
Alarm Profile Max pots 2 Pri Profile Max Iphost 2 IGMP Profile Max Iphost 0 Bind Profile Max Veip 1 System Configuration Service ability Disable ✓ Service ability N:1 yes ✓ Service ability 1:M yes ✓ Service ability 1:P yes ✓ Wifi mgmt via non OMCI Disable ✓	Service Profile		Max eth		4		
IGMP Profile Max Iphost 2 Format Profile Max Ipv6host 0 Bind Profile Max Veip 1 System Configuration Service ability Disable Service ability N:1 yes v Service ability 1:M yes v Service ability 1:P yes v Wifi mgmt via non OMCI Disable v	Alarm Profile		Max nots		2		
IGMP Profile Max Iphost 2 Format Profile Max Ipv6host 0 Bind Profile Max Veip 1 System Configuration Service ability Disable • Service ability N:1 yes • Service ability 1:M yes • Service ability 1:P yes • Wifi mgmt via non OMCI Disable • Omci send mode async •		L					
Format Profile Max Ipv6host 0 Bind Profile Max Veip 1 System Configuration Service ability Disable ✓ Service ability N:1 yes ✓ Service ability 1:M yes ✓ Service ability 1:P yes ✓ Wifi mgmt via non OMCI Disable ✓	IGMP Profile		Max Iphost		2		
Bind Profile System Configuration Max Veip Service ability Disable Service ability N:1 Service ability 1:M Service ability 1:P Vifi mgmt via non OMCI Disable Omci send mode	Format Profile		Max Ipv6host	:	0		
System Configuration Imax veip Imax veip Service ability Disable Service ability N:1 yes Service ability 1:M yes Service ability 1:P yes Wifi mgmt via non OMCI Disable Omci send mode Imax veip	Bind Profile	Г	Max Voin		1		
Service ability Disable Service ability N:1 yes Service ability 1:M yes Service ability 1:P yes Wifi mgmt via non OMCI Disable Omci send mode async	System Configuration	L	Max veip				
Service ability N:1 yes Service ability 1:M yes Service ability 1:P yes Wifi mgmt via non OMCI Disable Omci send mode async			Service ability	/	Disable	~	
Service ability 1:M yes Service ability 1:P yes Wifi mgmt via non OMCI Disable Omci send mode async			Service ability	/ N:1	yes	~	
Service ability 1:P yes Wifi mgmt via non OMCI Disable Omci send mode async			Service ability	/ 1:M	yes	~	
Wifi mgmt via non OMCI Disable			Service ability	/ 1:P	yes	~	
Omci send mode			Wifi mgmt via	non OMCI	Disable	~	
			Omci send m	ode	async	~	
Default multicast range none			Default multion	ast range	none	~	

Figure 5-1-3: Add HGU profile

5.2 DBA Profile

DBA is a bandwidth allocation strategy that changes uplink bandwidth assigned to each T-CONT in real time according to the instant service status of each ONU. There are five BW types supported and make sure that fixed <= assured <= max.

5.2.1 DBA Profiles

Profile Configuration \rightarrow **DBA Profile** \rightarrow **DBA Profiles**

The table displays DBA profile list. You can also do some operations, such as delete and modify.

airlive®								
	DBA Profiles	Add Profile						
OLT Information	DBA Profi	le						
OLT Configuration								
ONU Configuration	Refresh							
Profile Configuration	Profile ID	Profile Name	Profile Type	Fixed(Kbps)	Assured(Kbps)	Maximum(Kbps)	Action	
ONU Profile	0	default	1	10000				
DBA Profile	128	default1	3		1024	1024000	Delete	Modify
Line Profile								
Service Profile								
Alarm Profile								
Pri Profile								
IGMP Profile								
Format Profile								
Bind Profile								
System Configuration								

Figure 5-2-1: DBA profile list

5.2.2 Add Profile

$Profile \ Configuration \rightarrow DBA \ Profile \rightarrow \ Add \ profile$

There are five types of DBA profile. In general, we use type3.

	Delay	Applicable T-CONT Types							
BW Type	Type Sensitive		Type 2	Туре 3	Туре 4	Type 5			
Fixed	Yes	V				V			
Assured	No		V	V		V			
Maximum	No			√	√	√			

oirlive®

OLT Information
OLT Configuration
ONU Configuration
Profile Configuration
ONU Profile
DBA Profile
Line Profile
Service Profile
Alarm Profile
Pri Profile
IGMP Profile
Format Profile
Bind Profile
System Configuration

DBA Profiles Add Profile

Add Profile

Profile ID	1
Profile Type	Type_3
Profile Name	dba_1
Assured(Kbps)	(128 - 1200960Kbps)
Maximum(Kbps)	(128 - 1244160Kbps)

Commit

Figure 5-2-2: Add DBA profile

5.3 Line Profile

Line profile is used to configure the ANI side services of ONU such as t-cont, gem-port, service-port, and so on.

5.3.1 Line Profile

Profile Configuration \rightarrow **Line Profile** \rightarrow **Line Profile**

The table displays Line profile list. You can also do some operations, such as delete and modify.

oirlive®			
	Line Profile	Add Profile	
OLT Information	Line Profil	e	
OLT Configuration			
ONU Configuration	Refresh		
Profile Configuration	Profile ID	Profile Name	Action
ONU Profile	1	vlan6	Details & Modify Delete
DBA Profile			
Line Profile			
Service Profile			
Alarm Profile			
Pri Profile			
IGMP Profile			
Format Profile			
Bind Profile			
System Configuration			

Figure 5-3-1: Line Profile list

5.3.2 Add Profile

Profile Configuration \rightarrow Line profile \rightarrow Add profile

Create a new line profile, set the profile name.

airlive®	
	Line Profile Add Profile
OLT Information	Add Profile
OLT Configuration	
ONU Configuration	Profile ID 2
Profile Configuration	Profile Name line_2
ONU Profile	Add
DBA Profile	
Line Profile	
Service Profile	
Alarm Profile	
Pri Profile	
IGMP Profile	
Format Profile	
Bind Profile	
System Configuration	

Figure 5-3-2: Add Line Profile

5.3.3 Display or Modify Line Profile Info

Profile Configuration \rightarrow **Line Profile** \rightarrow **Line Profile** \rightarrow **Details & Modify** In the interface of line profile list, click Details&Modify to edit the profile.

••••••			
	Line Profile	Add Profile	
OLT Information	Line Profi	le	Click
OLT Configuration			
ONU Configuration	Refresh		
Profile Configuration	Profile ID	Profile Name	Action
ONU Profile	1	vlan6	Details & Modify Delete
DBA Profile	2	line_2	Details & Modify Delete
Line Profile	3	line_3	Details & Modify Delete
Service Profile			
Alarm Profile			
Pri Profile			
IGMP Profile			
Format Profile			
Bind Profile			
System Configuration			

Figure 5-3-3: Modify Line Profile

5.3.3.1 Tcont

Profile Configuration \rightarrow Line Profile \rightarrow Line Profile \rightarrow Details & Modify \rightarrow Tcont

Add Tcont ID and bind DBA profile.

airli▼e®	
	Line Profile Add Profile
OLT Information	Tcont Gemport Service Multicast Vlan
OLT Configuration	Tront Information(Line Brofile:2)
ONU Configuration	
Profile Configuration	Tcont ID Name DBA Profile Action
ONU Profile	1 tcont_1 default1 Delete
DBA Profile	<u> </u>
Line Profile	Add Tcont
Service Profile	
Alarm Profile	Tcont ID 2 (1 ~~ 255)
Pri Profile	Tcont Name
IGMP Profile	DRA Brofile Name I default1
Format Profile	
Bind Profile	Add
System Configuration	

Figure 5-3-4: Add Tcont

5.3.3.2 Gemport

Add gemport ID and bind tcont ID.

You can also limit the forwarding speed according to the Gemport ID.

airli√e°										
	Line Profile Add Profile									
OLT Information	Tcont Gemp	ort S	ervice	Mul	ticast Vlan					
OLT Configuration	Comport Inf	o(Line)	Drofilo	2)						
ONU Configuration	Gemport In	otrine	rome	2)						
Profile Configuration	Gemport ID	Name	Tcont	COS	Downstream	State	UpQueueMapId	DownQueueMapId	Action	
ONU Profile	1	gem_1	1	N/A	default	Enable	N/A	N/A	<u>Delete</u>	
DBA Profile										
Line Profile	Add Gemport									
Service Profile							_			
Alarm Profile	Gemport ID		2			(1~~25	5)			
Pri Profile	Tcont ID		1		~					
IGMP Profile	Gemport Nar	me				1	-			
Format Profile	Gempore ivan	iii c]	_			
Bind Profile	COS		N/A			(0-7)				
System Configuration	Downstream	Traffic	defaul	t	~					
	UpQueueMap	oId	N/A			(0-3)				
	DownQueue	1apId	N/A			(0-7)				
	State		Enable		~					
	Add									

Figure 5-3-5: Add Gemport

Pri Profile	ONU Gemport Rate Limit Info									
IGMP Profile										
Format Profile	Gemport ID	Semport ID Name Tcont Upstream CIR Up			Upst	tream PIR	Downstream CIR	Downstream PIR	Action	
Bind Profile	1	gem_1	1	0	0		0	0	Delete	
System Configuration		rt Data	l imit (Configuration						
ONU Gemport Rate Limit Configuration										
	Gemport ID					1 ~				
	Upstream Traffic Committed Rate Limit (B/s)					0				
	Upstream Tr	affic Peal	k Rate	Limit (B/s)		0	(0-4294967295)			
	Downstream Traffic Committed Rate Limit (B/s)					0 (0-4294967295				
	Downstream Traffic Peak Rate Limit (B/s)					0	(0-4294967295)			
	Commit									

Figure 5-3-6: ONU Gemport Rate Limit Configuration

5.3.3.3 Service

Profile Configuration \rightarrow Line Profile \rightarrow Line Profile \rightarrow Details & Modify \rightarrow Service

Add service, set the VLAN mode and VLAN ID and bind one Gemport ID.

oirlive®									
	Line Profile A	dd Profile							
OLT Information	Tcont Gempo	rt Servi	ce Multica	ast Vlan					
OLT Configuration									
ONU Configuration	ServiceInformation(Line Profile:2)								
Profile Configuration	ServiceName	Gemport	Vlan Mode	Vlan List	Port	Action			
ONU Profile	ser_1	1	Tag	6	N/A	<u>Delete</u>			
DBA Profile									
Line Profile	AddService								
Service Profile									
Alarm Profile	ServiceName	ser_2							
Pri Profile	Gemport ID	1		~					
IGMP Profile	Vlan Mode	Тал		~					
Format Profile	Vian Pioue								
Bind Profile	Vlan List	6		(X,X	(or X	-X;0 for	all;max 12 vlans)		
System Configuration	Port Type	N/A		~					
	Add								

Figure 5-3-7: Add Service

5.3.3.4 Multicast VLAN

Profile Configuration \rightarrow Line Profile \rightarrow Line Profile \rightarrow Details & Modify \rightarrow Multicast Van

Set the Multicast VLAN of ONU.

oirli v e®								
••••••	Line Pro	ofile Ad	d Profile					
OLT Information	Tcont	Gempor	t Service	Mult	ticast Vlan			
OLT Configuration	Multi							
ONU Configuration	MUILICAST VLAN LIST(LINE PROTIIE:2)							
Profile Configuration	Line I	Profile ID	Line Profile	e Name	Vlan List	Action		
ONU Profile	2		line_2		N/A	Delete All		
DBA Profile								
Line Profile	Add/I	Del Multi	cast Vlan ((max 1)	2 vlans)			
Service Profile								
Alarm Profile	Mvlar	n List			(100	,103 or 105	5-108)	
Pri Profile	Add	Delete						
IGMP Profile								
Format Profile								
Bind Profile								
System Configuration								

Figure 5-3-8: Configure Multicast VLAN

5.4 Service Profile

The service configuration file is used to configure the UNI side and multicast of the ONU.

5.4.1 Service Profile

The table displays service profile list. You can also do some operations, such as delete and modify.

oirlive®							
	Service Profi	iles Add Pro	file				
OLT Information	Service Pr	ofile					
OLT Configuration							
ONU Configuration	Refresh						
Profile Configuration	Profile ID	Profile Name	Action				
ONU Profile	1	tag6	Details & Modify	<u>Delete</u>			
DBA Profile	2	transparent6	Details & Modify	<u>Delete</u>			
Line Profile							
Service Profile							
Alarm Profile							
Pri Profile							
IGMP Profile							
Format Profile							
Bind Profile							
System Configuration							

Figure 5-4-1: Service Profile List

5.4.2 Add Profile

Profile Configuration \rightarrow **Service Profile** \rightarrow **Add Profile** Add a new service profile, set the profile name.

airli▼e®	
	Service Profiles Add Profile
OLT Information	Add Profile
OLT Configuration	
ONU Configuration	Profile ID 3
Profile Configuration	Profile Name srv_3
ONU Profile	Add
DBA Profile	
Line Profile	
Service Profile	
Alarm Profile	
Pri Profile	
IGMP Profile	
Format Profile	
Bind Profile	
System Configuration	

Figure 5-4-2: Add Service profile

5.4.3 Display or Modify Line Profile Info

Profile Configuration \rightarrow **Service Profile** \rightarrow **Service Profile** \rightarrow **Details & Modify** In the interface of service profile list, click Details&Modify to edit the profile.

	Service Profi	iles Add Pro	file
OLT Information	Service Pr	ofile	
OLT Configuration			/
ONU Configuration	Refresh		
Profile Configuration	Profile ID	Profile Name	Action
ONU Profile	1	tag6	Details & Modify Delete
DBA Profile	2	transparent6	Details & Modify Delete
Line Profile	3	srv_3	Details & Modify Delete
Service Profile			
Alarm Profile			
Pri Profile			
IGMP Profile			
Format Profile			
Bind Profile			
System Configuration			

Figure 5-4-3: Modify service profile

5.4.3.1 PortVlan

$\begin{array}{l} \mbox{Profile Configuration} \rightarrow \mbox{Service Profile} \rightarrow \mbox{Service Profile} \rightarrow \mbox{Details \& Modify} \\ \rightarrow \mbox{PortVlan} \end{array}$

Set the VLAN mode of the ONU's port. For HGU, need to configure veip 1 transparent; for SFU, configure Ethernet port directly.

airlive®								Save 🔴	Log	Status ONU list	Logout
OLT Information OLT Configuration ONU Configuration	Service Profiles Add Profile PartVlan Multicast VLAN Strip Port Iphost Config PortVlan Info(Service Profile:1)										
Profile Configuration	Port Name	Mode	Vlan	Vlan Priority(tag)	Default Vlan(hybrid)	Default Priority(hybrid)	CVlan(translate)	CVIan Priority(translate)	SVIan(translate)	SVIan Priority(translate)	Action
ONU Profile	eth_0/1	Tag	6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Delete
Line Profile	eth_0/2	Tag	6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Delete
Service Profile	eth_0/3	Tag	6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Delete
Alarm Profile	eth_0/4	Tag	6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Delete
Pri Profile											
IGMP Profile	Add Port	Vlan									
Format Profile											
Bind Profile	Mode	Transp	parent	~							
System Configuration	PortType	Eth		~							
	Port ID										
	Commit										

Figure 5-4-4: Port VLAN mode

5.4.3.2 Multicast Vlan Strip

 $\begin{array}{l} \mbox{Profile Configuration} \rightarrow \mbox{Service Profile} \rightarrow \mbox{Service Profile} \rightarrow \mbox{Details \& Modify} \rightarrow \mbox{Multicast VLAN Strip} \end{array}$

Set the multicast VLAN mode of ONU's port.

	Service Profiles Add Profile
OLT Information	PortVlan Multicast VI AN Strip Port Inhost Config
OLT Configuration	Multicast VI AN List (Service Profile:1)
ONU Configuration	
Profile Configuration	Vlan Mode Port Action
ONU Profile	
DBA Profile	Add/Del Multicast Strip
Line Profile	
Service Profile	Strip Eth Number
Alarm Profile	
Pri Profile	Confirm
IGMP Profile	
Format Profile	
Bind Profile	
System Configuration	

Figure 5-4-5: Port Multicast VLAN Mode

5.4.3.3 Port

$\begin{array}{l} \mbox{Profile Configuration} \rightarrow \mbox{Service Profile} \rightarrow \mbox{Service Profile} \rightarrow \mbox{Details \& Modify} \\ \rightarrow \mbox{Port} \end{array}$

Set the rate negotiation mode of the ONULAN interface. You can also choose whether to enable ports or not, and even limit the rates of different LAN ports.

	Service Profiles Add Profile
OLT Information	PortVlan Multicast VLAN Strip Port Inhost Config
OLT Configuration	Port Pacie Configuration (Convice Profile:1)
ONU Configuration	
Profile Configuration	ONU Port LAN1 V
ONU Profile	Admin Status
DBA Profile	
Line Profile	Port Speed auto
Service Profile	Submit
Alarm Profile	
Pri Profile	Upstream Rate Limit Config
IGMP Profile	
Format Profile	Upstream Rate-Limit CIR (kbps) 0
Bind Profile	Upstream Rate-Limit PIR (kbps) 0
System Configuration	Commit
	Downstream Rate Limit Config
	Downstream Rate-Limit CIR (kbps) 0
	Downstream Rate-Limit PIR (kbps) 0
	Commit

Figure 5-4-6: Port Basic Configuration

5.4.3.4 Iphost Config

$\begin{array}{l} \mbox{Profile Configuration} \rightarrow \mbox{Service Profile} \rightarrow \mbox{Service Profile} \rightarrow \mbox{Details \& Modify} \\ \rightarrow \mbox{Iphost Config} \end{array}$

Add Iphost for ONU wan connection. Iphost is used for ONU management.



		_									
	Service Prof	iles Add P	rofile								
OLT Information	PortVlan Multicast VLAN Strip Port Iphost Config										
OLT Configuration	Inhest Configuration Info (Comice Profile:1)										
ONU Configuration											
Profile Configuration	Iphost ID	Description	IP Mode	IP Address	Mask	Gateway	DNS1	DNS2	VLAN	Priority	Action
ONU Profile											
DBA Profile	Iphost Co	nfig									
Line Profile					1						
Service Profile	Iphost ID										
Alarm Profile	Descriptio	n]						
Pri Profile	IP Mode	DHC	D		1						
IGMP Profile	IF Houe		F		-						
Format Profile	DNS1(A.B	.C.D)									
Bind Profile	DNS2(A.B	.C.D)									
System Configuration	Commit				1						
	Ipnost VL	AN CONTIG									
	VLAN(0-4	904)									
	Priority(1-	15)									
	Commit										

Figure 5-4-7: Iphost Config

5.5 Alarm Profile

Alarm profile is used to configure the parameters of ONU alarm.

5.5.1 Profile Info

Profile Configuration \rightarrow **Alarm Profile** \rightarrow **Profile Information** The table displays alarm profile list.

airli√e®						2	ave
	Profile Inform	mation Add Pro	ofile				
OLT Information	Alarm Pro	file					
OLT Configuration							
ONU Configuration	Refresh		200500 AND				
Profile Configuration	Profile ID	Profile Name	State	Rx Power Alarm Threshold	Tx Power Alarm Threshold	Sf Threshold/Sd Threshold	Action
ONU Profile	1	alarm_profile_1	enable	-27 ~~ -8	1 ~~ 5	5/9	Delete
DBA Profile							
Line Profile							
Service Profile							
Alarm Profile							
Pri Profile							
IGMP Profile							
Format Profile							
Bind Profile							
System Configuration							

Figure 5-5-1: Alarm Profile List

5.5.2 Add Profile

Profile Configuration \rightarrow **Alarm Profile** \rightarrow **Add Profile**

Add new alarm profile, set the threshold of alarm generation.

airlive®		
	Profile Informatio	n Add Profile
OLT Information	Create Alarm P	Profile
OLT Configuration		
ONU Configuration	Alarm Name	alarm_profile_2
Profile Configuration	Alarm State	Enable 🗸
ONU Profile	Rx Low Power	-27 (-27 ~~ -8)dBm
DBA Profile		
Line Profile	RX High Power	-8 (-27 ~~ -8)dBm
Service Profile	Tx Low Power	1 (1 ~~ 5)dBm
Alarm Profile	Tx High Power	5 (1 ~~ 5)dBm
Pri Profile		
IGMP Profile	Sf Threshold	5 (3 ~~ 8)
Format Profile	Sd Threshold	9 (4 ~~ 10)
Bind Profile	Commit	
System Configuration		

Figure 5-5-2: Add Alarm Profile

5.6 Pri Profile

Pri Profile is the profile which the parameters are configured by private OMCI, including WAN, SIP, WIFI, CATV, DHCP Server, and so on.

5.6.1 Pri Profile

Profile Configuration \rightarrow Pri Profile \rightarrow Pri Profile

The table displays private profile list. You can also do some operations, such as delete and modify.

airli▼e®			
	Pri Profile	Add Profile	
OLT Information	Pri Profile		
OLT Configuration			
ONU Configuration	Refresh		
Profile Configuration	Profile ID	Profile Name	Action
ONU Profile	1	pri_1	Details & Modify Delete
DBA Profile			
Line Profile			
Service Profile			
Alarm Profile			
Pri Profile			
IGMP Profile			
Format Profile			
Bind Profile			
System Configuration			

Figure 5-6-1: Pri Profile

5.6.2 Add Profile

Profile Configuration \rightarrow **Pri Profile** \rightarrow **Add profile** Add a private profile, set the profile name.

airlive®		
	Pri Profile Ad	d Profile
OLT Information	Add Profile	
OLT Configuration		1
ONU Configuration	Profile ID	2
Profile Configuration	Profile Name	pri_2
ONU Profile	Add	
DBA Profile		
Line Profile		
Service Profile		
Alarm Profile		
Pri Profile		
IGMP Profile		
Format Profile		
Bind Profile		
System Configuration		

Figure 5-6-2: Add Pri Profile

5.6.3 Display or Modify Pri Profile Info

Profile Configuration \rightarrow **pri Profile** \rightarrow **pri Profile** \rightarrow **Details & Modify** In the interface of pri profile list, click Details&Modify to edit the profile.

	Dri Drofilo	Add Profile	
OLT Information	Dri Drofilo	Add Frome	
OLT Configuration	Pri Prome		1
ONU Configuration	Refresh		
Profile Configuration	Profile ID	Profile Name	Action
ONU Profile	1	pri_1	Details & Modify Delete
DBA Profile			
Line Profile			
Service Profile			
Alarm Profile			
Pri Profile			
IGMP Profile			
Format Profile			
Bind Profile			
System Configuration			

Figure 5-6-3: Modify Pri Profile

5.6.3.1 WAN

Profile Configuration \rightarrow **pri Profile** \rightarrow **pri Profile** \rightarrow **Details & Modify** \rightarrow **WAN** Add IPv4 single-stack WAN connection for Pri Profile.

oirli v e®		Save
	Pri Profile Add Profile	
OLT Information	WAN WAN IDv4/v6 DHCP Service WIFI SIP POTS Misc Misc? Security Loopha	ck Detection TR069
OLT Configuration	WAN Connect Table (Dei Deoffici 1)	
ONU Configuration		
Profile Configuration	Index Mode Service Mode Configuration Information Delete	
ONU Profile	WAN Connect Darameter Configuration	
DBA Profile		
Line Profile	WAN Index NEW 🗸	
Service Profile	WAN Connect Mode bridge	
Alarm Profile		
Pri Profile		
IGMP Profile	QoS Enable V	
Format Profile	Service Mode Internet 🗸	
Bind Profile		
System Configuration	Port Binding Lan1 Lan2 Lan3 Lan4 Lan5 Lan6 Lan7 Lan8	
	SSID1 SSID2 SSID3 SSID4 SSID5 SSID6 SSID7 SSID8	

Figure 5-6-4: WAN Configuration

5.6.3.2 WAN IPv4/v6

Profile Configuration \rightarrow pri Profile \rightarrow pri Profile \rightarrow Details & Modify \rightarrow WAN IPv4/v6

Add IPv4/IPv6 dual-stack WAN connections for Pri Profile.

oirlive®										Save	•
	Pri Profile Add Profile										
OLT Information	WAN WAN IPv4/v6	DHCP Service	WIFT	SIP	POTS	Misc	Misc2	Security	Loopback Detection	TR069	
OLT Configuration	WAN Connect Table/							,			
ONU Configuration	WAN Connect Table(PIT PIONE.1)									
Profile Configuration	Index Mode IP Versi	on Service Mode	e Config	uratio	n Informa	tion De	elete				
ONU Profile	WAN Connect Daram	ator Configurat	ion								
DBA Profile	WAN Index			~							
Line Profile	Made	bridge		-							
Service Profile	IR Version	inv4		-							
Alarm Profile	IP VEISION	ipv4		•							
Pri Profile	VLAN Mode	Disable		~							
IGMP Profile				_							
Format Profile	MTU	1500		(57	6-1500)						
Bind Profile	QoS Enable	Disable		~							
System Configuration	Service Mode	Internet		~							
	Port Binding	Lan1 SSID1 Submit	Lan2 🗌 SSID2 🗌	Lan3	C Lan 3 C SSI	4 🗆 Li D4 🗆 S	an5 🗌 SID5 🗌	Lan6 🗌 La SSID6 🗍 S	n7 🗌 Lan8 SID7 🗌 SSID8 🗌 SSI	D9 🗆 SSIC	010

Figure 5-6-5: WAN IPv4/v6 Configuration

5.6.3.3 DHCP Service

 $\label{eq:profile} \begin{array}{l} \mbox{Profile} \rightarrow \mbox{pri Profile} \rightarrow \mbox{Details \& Modify} \rightarrow \mbox{DHCP} \\ \mbox{Service} \end{array}$

Configure IPv4/v6 DHCP server parameters for Pri Profile.

oirlive®												Save	•
	Pri Pro	ofile Add Pro	ofile										
OLT Information	WAN	WAN IDV4/		Sonico	WIET	SID	DOTS	Misc	Misc2	Security	Loophack Detection	TP060	
OLT Configuration	DUC		6	The service wirit Sip POTS Misc Misc Security I								11(005	
ONU Configuration	DHC	DHCP Server Configuration(Pri Profile: 1)											
Profile Configuration		_ [1					- 0				
ONU Profile		Type	Active						Config	uration cont	tent		
DBA Profile			_	LAN IP A	ddress								
Line Profile		HCP Server		LAN Sub	net Mask		-						
Service Profile				DHCP Se	rver		Disable		`				
Alarm Profile				LAN IPv6	Address								
Pri Profile				Prefix Mo	ode		Stat	ic					
IGMP Profile				Static Ip	v6 Addre	55				(10.51)			
Format Profile		UCD Conver			ixien rvor Invé		Disable		~	(48-64)			
Bind Profile		Ipv6		RA	iver ipvo	,		/0	•				
System Configuration				Manage			disable		~				
				Other			disable		~				
				Max Inte	Max Interval					(1-1800)	S		
				Min Inter	val					(1-1800)	S		
	Sub	mit											

Figure 5-6-6: DHCP Service

5.6.3.4 WIFI

Profile Configuration \rightarrow **pri Profile** \rightarrow **pri Profile** \rightarrow **Details & Modify** \rightarrow **WIFI** Configure WiFi parameters for Pri Profile.

airli▼e®								Save	۲	Log	Status	ONU list	Logout
	Pri Profile Add Profile	1											
OLT Information	WAN WAN TPy4/y6	DHCP Service WIEI	SID DOTS	Misc	Misc2	Security	Loophack Detection	TR069					
OLT Configuration	WiEi Switch Configu	ration(Dri Drofilo:1)	511 1015	THOU	111562	Security	Loopbuck Detection	11005					
ONU Configuration	wiri Switch Conngu	ration(FITFIOIne.1)											
Profile Configuration	WiEi0 Statue	anabla								WiFi1 Status	er	nable	~
ONU Profile	WiFi0 Area	ETSI								WiFi1 Area	E	rsi	~
DBA Profile	WiFi0 Standard	802.11ban	~ ~							WiFi1 Standar	d 80	02.11ac-A/N	/AC/ax 🗸
Line Profile	uniate et al.	0 (ETSI/SPAIN/RU	 SSIAN/CN/Wo	rld-wide	:0-13:FC0	C/IC/NCC:0-	-11:FRANCE:0.10-			WiFi1 Channe	a	ito	~
Service Profile	WIFIO Channel	13;MKK/MKK1/MKK2/M	KK3/Global:0	14;ISRE	AL:0,3-13	3;0:auto)				WiFi1 Transmi	t Power	0 (0-2)dBm)
Alarm Profile	WiFi0 Transmit Power	0 (0-20dBm)								Width	80) MHz	~
Pri Profile	WiFi0 Channel Width	40 MHz	~							WiFi1 EasyMe	sh er	nable	~
IGMP Profile		Submit								Status		Submit	
Format Profile												Submit	
Bind Profile	WiFi SSID Configura	tion											
System Configuration	SSID	SSID1(WIFI0)	~										
	Name	input WIFI Name	-										
	WiFi Status	disable	~										
			_										
		Submit											

Figure 5-6-7: WIFI Configuration

5.6.3.5 SIP

Profile Configuration \rightarrow **pri Profile** \rightarrow **pri Profile** \rightarrow **Details & Modify** \rightarrow **SIP** Configure SIP parameters for Pri Profile.

	Pri Pro	ofile Add Profile	e								
OLT Information	WAN	WAN IPv4/v6	DHCP Service	WIFI	SIP	POTS	Misc	Misc2	Security	Loopback Detection	TR069
OLT Configuration	CTD /	Deventer Carf		61							
ONU Configuration	SIPI	Paramter Conn <u>c</u>	juration(Pri Pro	me:r)							
Profile Configuration	Mana	age Port		506	50			(1-65535	5)		
ONU Profile	Proxy	y Server IP Or Na	me/Port	0.0	.0.0			5060	(1-65535)		
DBA Profile	Back	up Proxy Server I	IP Or Name/Port	0.0	.0.0			0	(0-65535)		
Line Profile	Regis	ster Server IP Or	Name/Port	0.0	.0.0			5060	(1-65535)		
Service Profile	Back	Backup Register Server IP Or Name/Port				0.0.0.0			(0-65535)		
Alarm Profile	Out E	Bound Server IP (Dr Name/Port	0.0	0.0.0.0			5060	(1-65535)		
Pri Profile	Regis	ster Interval		360	00			(1-10000	000)		
IGMP Profile				Su	bmit						
Format Profile	SIP	Digit Map Config	guration								
Bind Profile											
System Configuration											
	SIP D	Digit Map Block									
			Subn	nit							

Figure 5-6-8: SIP Configuration

5.6.3.6 POTS

Profile Configuration \rightarrow **pri Profile** \rightarrow **pri Profile** \rightarrow **Details & Modify** \rightarrow **POTS** Configure POTS parameters for Pri Profile.



	Pri Pro	file Add Profile	2								
OLT Information	WAN	WAN IPv4/v6	DHCP Service	WIFT	SIP	POTS	Misc	Misc2	Security	Loophack Detection	TR069
OLT Configuration		100111111111	Differ Dervice		7	1013	Thoe	111502	becanty	Loopback Detection	11005
ONU Configuration	POTS	Port	Pots1	~	<u> </u>						
Profile Configuration	SIP	Jser Parameter	Configuration(Pri Profi	le:1)						
ONU Profile	Accou	unt active		nable							
DBA Profile	User	Account		nable							
Line Profile	User	Name			-						
Service Profile	User	Password			-						
Alarm Profile			Submit		_						
Pri Profile											
IGMP Profile	Adva	inced Paramete	r Configuration								
Format Profile	VAD		Disable		~						
Bind Profile	Echo	cancel	Disable		~						
System Configuration	Input	t gain(dB)	0								
	Outp	ut gain(dB)	0								
	Dtmf	mode	Transparent		~						
			Submit								

Figure 5-6-9: POTS Configuration

5.6.3.7 MISC

Profile Configuration \rightarrow **pri Profile** \rightarrow **pri Profile** \rightarrow **Details & Modify** \rightarrow **MISC** Some misc configurations, including CATV switches, speed limits, limit the number of MAC learning, and so on.

<u> </u>											
	Pri Pro	file Add Profile	9								
OLT Information	WAN	WAN IPv4/v6	DHCP Service	WIFI	SIP	POTS	Misc	Misc2	Security	Loophack Detection	TR069
OLT Configuration			bildr bernee		011	1010	THOU	THOLE	Decancy	Loopbaan Detection	11005
ONU Configuration	Misc	Control Operat	ion(Pri Profile:1	L)							
Profile Configuration											
ONU Profile	CAT	/ Configuration	CATV Enal	ole Sub	mit						
DBA Profile	IGM	P Config	IGMP Enal	ole Sub	mit						
Line Profile	CTD	Carfie		- Cuba		_					
Service Profile	SIP	Coning	U STP Enabl	e_Subn	iit	_					
Alarm Profile	Port	Isolate	Port Isolat	e Enable	Subr	nit					
Pri Profile											
IGMP Profile	Spee	d Limit Confia									
Format Profile	Upstr	eam limit	0								
Bind Profile	Down	stream limit	0								
System Configuration	Sub	mit									
	MAC	Table Config									
	mac A	Age Time	0								
	Pon n	nac limit	0								
	Lan n	nac limit	0								
	Sub	mit									

Figure 5-6-10: MISC Configuration

5.6.3.8 MISC2

Profile Configuration \rightarrow **pri Profile** \rightarrow **pri Profile** \rightarrow **Details & Modify** \rightarrow **MISC2** Some misc configurations, including NAT Type and UPnP Status.



- ··· · · · -	Pri Pro	file Add Profile	9								
OLT Information	WAN	WAN IPv4/v6	DHCP Service	WIFT	SIP	POTS	Misc	Misc2	Security	Loophack Detection	TR069
OLT Configuration	Mino	Control Oner	tion (Dri Drofile)	1)	011	1010	11100	THOOL	occurre,	Loopback Detection	11005
ONU Configuration	MISC	2 Control Opera	Ition(PTI PTome	1)							
Profile Configuration	ONU	NAT Type	NATA								
ONU Profile	NAT I	уре	Submit Ref	roch	•						
DBA Profile			Subilit	reali							
Line Profile	ONU	UPnP Configura	ation								
Service Profile	UPnP	Status	disable		~						
Alarm Profile	WAN	Index	1 Cubrait Dat	and a large	\sim						
Pri Profile			Submit Rei	resn							
IGMP Profile											
Format Profile											
Bind Profile											
System Configuration											

Figure 5-6-11: MISC2 Configuration

5.6.3.9 Security

Profile Configuration \rightarrow pri Profile \rightarrow pri Profile \rightarrow Details & Modify \rightarrow Security

Configure security parameters for Pri Profile.

	Pri Profile Add Profile	
OLT Information	WAN WAN IPv4/v6 DHCP Service WIFI SIP POTS Misc Misc2 Security Loopback Detect	ion TR069
OLT Configuration		
ONU Configuration		
Profile Configuration	Admin Name	
ONU Profile	Admin Password	
DBA Profile	User Name	
Line Profile	User Password	
Service Profile	Submit	
Alarm Profile	Firewall Level	
Pri Profile		
IGMP Profile	Firewall Level Disable	
Format Profile	Submit	
Bind Profile		
System Configuration	ACL Configuration	
	Protocol Ping 🗸	
	Control Disable 🗸	
	Submit	
	ACL Table	
	Protocol Type Control Lan Wan IPv4 IPv6 Port Delete	
	Refresh	

Figure 5-6-12: Security Configuration

5.6.3.10 Loopback Detection

Profile Configuration \to pri Profile \to pri Profile \to Details & Modify \to Loopback Detection

Configure Loopback Detection parameters for Pri Profile.



	Pri Pro	file Add Profile	2								
OLI Information	WAN	WAN IPv4/v6	DHCP Service	WIFI	SIP	POTS	Misc	Misc2	Security	Loopback Detection	TR069
OLT Configuration	Loop	hack Detection	Configuration()	Dei Deofi	lou1)						
ONU Configuration	LOOP	Dack Detection	Configuration(i	PITPION	ie.1)						
Profile Configuration	Statu	s	enable		•						
ONU Profile	Check	k Interval	1000		(1-60	0000)ms					
DBA Profile	Recov	ver Interval	60		(1-18	300)s					
Line Profile	Ether	net Type	fffa		(HHF	IH)					
Service Profile	VLAN	ID	0		(0-40	094; 0 m	eans no	vlan is co	onfigured)		
Alarm Profile	Desti	nation MAC Type	Broadcast A	ddress '	-						
Pri Profile	Port (Closing Time	60		(1-18	300)s					
IGMP Profile	Alarm	ı	enable	•	<u>·</u>						
Format Profile	Portd	islooped	enable		~						
Bind Profile			Submit Ref	resh							
System Configuration											

Figure 5-6-13: Loopback Detection Configuration

5.6.3.11 TR069

Profile Configuration \rightarrow **pri Profile** \rightarrow **pri Profile** \rightarrow **Details & Modify** \rightarrow **TR069** Configure TR069 parameters for Pri Profile.

	Pri Profil	ile Add Profile	9										
OLT Information	WAN	WAN IPv4/v6	DHCP S	ervice	WIFT	SIP	POTS	Misc	Misc2	Security	Loopba	ack Detection	TR069
OLT Configuration	TROGO	Configuration	/Dri Droj	file:1)						,			
ONU Configuration	TROOS	comgaration	ILENTEIO	ine.1)									
Profile Configuration		-			_								
ONU Profile		Type		Active					Config	uration cont	ent		
DBA Profile					Tr06	9 Mana	ige Statu	s	Dis	able	~	ļ	
Line Profile					ACS	Server	Address						
Service Profile					ACS	Server	Usernan	ne					
Alarm Profile	TROC	0 Maraa 6 6		_	ACS	Server	Passwor	d	D.				
Pri Profile	TROS	9 Manage Confi	guration		Cert	ificate			Dis	sable	~		
IGMP Profile					Info	rm Inte	erval Time	-	Dis	able		(0-429496729	95)
Format Profile					Reve	erse Co	nnection	- Usernar	ne			(0 12515072.	,
Bind Profile					Reve	erse Co	nnection	Passwor	rd				
System Configuration					-	0.071	Chattan			- h l -		1	
					Stur	9 510	v Status r Addroce		Dis	able	•	ļ	
	TRO	160 Stup Config	uration		Stur	Serve	r Port	,				(1-65525)	
		Jos Stan Conny	uración		Stur	1 Serve	r User Na	me				(1 00000)	
					Stur	n Serve	r Passwo	rd					
	Subm	hit											

Figure 5-6-14: TR069 Configuration

5.7 IGMP Profile

5.7.1 IGMP Profile

Profile Configuration \rightarrow **IGMP Profile** \rightarrow **IGMP Profile**

The table displays IGMP profile list. You can also do some operations, such as delete and modify.

oirli v e®		
	IGMP Profile Add Profi	le
OLT Information	IGMP Profile	
OLT Configuration		
ONU Configuration	Refresh	-
Profile Configuration	Profile ID Profile Nam	e Action
ONU Profile	1 igmp_1	Details & Modify Delete
DBA Profile		
Line Profile		
Service Profile		
Alarm Profile		
Pri Profile		
IGMP Profile		
Format Profile		
Bind Profile		
System Configuration		

Figure 5-7-1: IGMP Profile list

5.7.2 Add Profile

Profile Configuration \rightarrow **IGMP Profile** \rightarrow **Add profile** Add new IGMP profile, set the profile name.

oirlive		
	IGMP Profile	Add Profile
OLT Information	Add Profile	
OLT Configuration		
ONU Configuration	Profile ID	2
Profile Configuration	Profile Name	igmp_2
ONU Profile	Add	
DBA Profile		
Line Profile		
Service Profile		
Alarm Profile		
Pri Profile		
IGMP Profile		
Format Profile		
Bind Profile		
System Configuration		

Figure 5-7-2: Add Profile

5.7.3 Display or Modify IGMP Profile Info

Profile Configuration \rightarrow **IGMP Profile** \rightarrow **IGMP Profile** \rightarrow **Details & Modify** In the interface of IGMP profile list, click Details&Modify to edit the profile.

	IGMP Profile Add Profile
OLT Information	IGMP Profile
OLT Configuration	
ONU Configuration	Refresh
Profile Configuration	Profile ID Profile Name Action
ONU Profile	1 igmp_1 <u>Details & Modify</u> <u>Delete</u>
DBA Profile	
Line Profile	
Service Profile	
Alarm Profile	
Pri Profile	
IGMP Profile	
Format Profile	
Bind Profile	
System Configuration	

Figure 5-7-3: Modify IGMP profile

5.7.3.1 Config

Profile Configuration \rightarrow IGMP Profile \rightarrow IGMP Profile \rightarrow Details & Modify \rightarrow Config

Set IGMP/MLD protocol parameters as required.

airli√e®			
	IGMP Profile Add Profile	9	
OLT Information	Config		
OLT Configuration	Comp Configuration (1)		
ONU Configuration	IGMP Configuration(10	SMP Profile:1)	
Profile Configuration	IGMP Version	IGMP v2 🗸	
ONU Profile	IGMP Mode	snooping 🗸	
DBA Profile	Fast Leave	disable 🗸	
Line Profile	Upstream tag control	transparent 🗸	_
	IGMP Rate limit	0	(0-4294967294)
Service Profile	Robustness	0	(0-255)
Alarm Profile	Proxy IP	0.0.00	(x.x.x.x)
Pri Profile	Query Interval	0	(0-4294967294)
IGMP Profile	Query Maxresp	0	(0-4294967294)
Format Profile	Query Last Interval	0	(0-4294967294)
Bind Profile	Downstream tag control	transparent 🗸	
System Configuration	NonMatch Group	discard 🗸	
		Submit	

Figure 5-7-4: IGMP Configuration

5.8 Format Profile

Format profile is mainly used to configure the DHCP option format of ONU.

5.8.1 Format Profile

Profile Configuration \rightarrow **Format Profile** \rightarrow **Format Profile**

The table displays Format profile list. You can also do some operations, such as delete and modify.

airli▼e							
	Format Profi	le Add Profi	le				
OLT Information	Format Pr	ofile					
OLT Configuration							
ONU Configuration	Refresh						
Profile Configuration	Profile ID	Profile Name	Action				
ONU Profile	1	format_1	Details & Modify Delete				
DBA Profile							
Line Profile							
Service Profile							
Alarm Profile							
Pri Profile							
IGMP Profile							
Format Profile							
Bind Profile							
System Configuration							

Figure 5-8-1: Format Profile list

5.8.2 Add Profile

Profile Configuration \rightarrow **Format Profile** \rightarrow **Add profile** Add new format profile, set the profile name.

airlive®		
	Format Profile	Add Profile
OLT Information	Add Profile	
OLT Configuration		
ONU Configuration	Profile ID	2
Profile Configuration	Profile Name	format_2
ONU Profile	Add	
DBA Profile		
Line Profile		
Service Profile		
Alarm Profile		
Pri Profile		
IGMP Profile		
Format Profile		
Bind Profile		
System Configuration		

Figure 5.8-2: Add Format Profile

5.8.3 Display or Modify Format Profile Info

Profile Configuration \rightarrow **Format Profile** \rightarrow **Format Profile** \rightarrow **Details & Modify** In the interface of Format profile list, click Details&Modify to edit the profile.

	Format Profile Add Profile
OLT Information	Format Profile
OLT Configuration	
ONU Configuration	Refresh
Profile Configuration	Profile ID Profile Name Action
ONU Profile	1 format_1 <u>Details & Modify</u> <u>Delete</u>
DBA Profile	
Line Profile	
Service Profile	
Alarm Profile	
Pri Profile	
IGMP Profile	
Format Profile	
Bind Profile	
System Configuration	

Figure 5-8-3: Modify Format profile

5.8.3.1 Config

$\begin{array}{l} \mbox{Profile Configuration} \rightarrow \mbox{Format Profile} \rightarrow \mbox{Format Profile} \rightarrow \mbox{Details \& Modify} \\ \rightarrow \mbox{Config} \end{array}$

Set DHCP option parameters as required.

oirli v e®		
	Format Profile	Add Profile
OLT Information	Config	
OLT Configuration	Switch Configu	ration
ONU Configuration	Switch Conligu	
Profile Configuration	Option82	enable 🗸
ONU Profile	Option18	disable 🗸
DBA Profile	Option37	disable 🗸
Line Profile	PPPoE Plus	disable 🗸
Service Profile		Submit
Alarm Profile	Format Type Co	onfiguration
Pri Profile	Format Type	custom 🗙
IGMP Profile	ronnac type	Submit
Format Profile		
Bind Profile	Circuit ID / Ren	note ID Configuration
System Configuration	ID Circuit I	D V
	Tedau	
	Index	
	Type cvlan	~
	Submit	
	Circuit ID / Ren	note ID Table
	ID	Туре
	Circuit ID	cvlan
	Refresh	

Figure 5-8-4: Format Profile Configuration

5.9 Bind Profile

Profile Configuration \rightarrow **Bind Profile**

After profile is configured, it is necessary to bind it to ONU.

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	Profile Bind	d l						
OLT Information	ONU Pro	file Bind						
OLT Configuration		DON						
ONU Configuration	Port ID	PON		•				
Profile Configuration	Refresh							
ONU Profile	ONU ID	ONU Profile	Line Profile	Service Profile	Alarm Profile	Pri Profile	Format Profile	Bind
DBA Profile	1	default	(ID: 1)	(ID: 1)	N/A	N/A	N/A	<u>Config</u>
Line Profile	2	default	(ID: 1)	(ID: 1)	N/A	N/A	N/A	<u>Config</u>
Service Profile	3	default	N/A	N/A	N/A	N/A	N/A	<u>Config</u>
Alarm Profile	4	default	N/A	N/A	N/A	N/A	N/A	<u>Config</u>
Pri Profile	5	default	N/A	N/A	N/A	N/A	N/A	Config
IGMP Profile	6	default	N/A	N/A	N/A	N/A	N/A	Config
Format Profile	7	default	N/A	N/A	N/A	N/A	N/A	Config
Bind Profile	8	default	N/A	N/A	N/A	N/A	N/A	Config
System Configuration	9	default	N/A	N/A	N/A	N/A	N/A	Config
	10	default	(ID: 1)	(ID: 1)	N/A	N/A	N/A	<u>Config</u>
	11	default	(ID: 1)	(ID: 1)	N/A	N/A	N/A	<u>Config</u>
	12	default	(ID: 1)	(ID: 1)	N/A	N/A	N/A	<u>Config</u>
	13	default	(ID: 1)	(ID: 2)	N/A	N/A	N/A	<u>Config</u>
	14	default	(ID: 1)	(ID: 1)	N/A	N/A	N/A	<u>Config</u>
	15	default	(ID: 1)	(ID: 1)	N/A	N/A	N/A	<u>Config</u>
	16	default	(ID: 1)	(ID: 1)	N/A	N/A	N/A	<u>Config</u>
	17	default	(ID: 1)	(ID: 1)	N/A	N/A	N/A	Config

Figure 5-9-1: Bind profile

airli▼e®						Save	۲	L
OLT Information	Profile Bind	d file Binding Config (PON	:1 ONU:1)					
OLT Configuration	ONU ID	Line Profile	Service Profile	Alarm Profile	Pri Profile	Format P	rofile	
ONU Configuration	1	vlan6 🗸	tag6 🗸	N/A 🗸	N/A V	N/A		~
Profile Configuration	Commit		I <u></u>					
ONU Profile								
DBA Profile								
Line Profile								
Service Profile								
Alarm Profile								
Pri Profile								
IGMP Profile								
Format Profile								
Bind Profile								
System Configuration								

Figure 5-9-2: Select Profile

Chapter 6 System Configuration

This chapter is about the global management of OLT.

6.1 System Log

6.1.1 System Log

System Configuration → System Log

This page displays OLT system alarms and events.



Figure 6-1-1: System Log

6.1.2 Alarm

System Configuration \rightarrow System Log \rightarrow Alarm

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

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	System Log Alarm Thresh	old Alarm								
OLT Information	Alarm Configuration									
OLT Configuration										
NU Configuration	Submit Reset									
rofile Configuration	Туре	Print	Record	Trap	Remote	Туре	Print	Record	Trap	Remote
System Configuration	FAN					Download File Failed				
System Log	Upload File Failed					Upgrade File Failed				
Device Management	Port Updown					Port Loopback				
User Management	PON Deregister					PON Register Failed				
Gateway	PON Disable				V	PON Txpower High				
DNS	PON Txpower Low					PON Txbias High				
System Time	PON Txbias Low					PON Vcc High				
Mirror	PON Vcc Low					PON Temp High				
Login Management	PON Temp Low					PON Los	V			
	ONU Deregister					ONU Link Lost				
	ONU Illegal Register				v	ONU Auth Failed	>	V		
	ONU MAC Conflict				V	ONU Loid Conflict	>	V		
	ONU Critical Event				V	ONU Dying Gasp	V	V		
	ONU Link Fault					ONU Link Event				
	ONU Event Notific					Reset				
	Config Save					Config Erase	 Image: A set of the			
	Download File Success					Upload File Success				
	Upgrade File Success				V	PON Register				

Figure 6-1-2: Alarm

options	Illustration
Print	Alarm and event show in console and telnet, but not show in syslog, EMS and remote log server.
Record	Alarm and event show in syslog, but not show in console, telnet, EMS and remote log server.
Trap	Alarm and event show in EMS, but not show in console, telnet, syslog and remote log server.
Remote	Alarm and event show in remote log server, but not show in console, telnet, syslog and EMS.

6.1.3 Threshold Alarm

$System \ Configuration \rightarrow System \ Log \rightarrow Threshold \ Alarm$

This page is used to configure OLT temperature threshold, CPU-usage threshold and memory- usage threshold, PON optical threshold.

airlive							
	System Log Alarm	Threshold	Alarm				
OLT Information	Threshold Alarm Co	nfiguratio	n				
OLT Configuration	-			-			
ONU Configuration	T UL (00)	Print	Record	Irap	Remote	Alarm Threshold	Clear Threshold
Profile Configuration	Temp Hign (°C)					0.00	0.00
System Configuration	Temp Low (°C)					0.00	0.00
System Log	CPU Usage High (%)					0.00	0.00
Device Management	MEM Usage High (%)					0.00	0.00
User Management	Submit Reset						
Gateway							
DNS	PON Optical Alarm C	onfigurat	ion				
System Time	Port ID PON1	L .	~			_	
Mirror	Туре	State	Alarm Thre	eshold (Clear Threshold	t	
Login Management	Tx Power High (dBm)		0.00		0.00		
	Tx Power Low (dBm)		0.00		0.00		
	Tx Bias High (mA)		0.00		0.00		
	Tx Bias Low (mA)		0.00		0.00		
	Vcc High (V)		0.00		0.00		
	Vcc Low (V)		0.00		0.00		
	Temp High (°C)		0.00		0.00		
	Temp Low (°C)		0.00		0.00		

Submit Reset



6.2 Device Management

6.2.1 Firmware Upgrade

System Configuration → Device Management → Firmware Upgrade

You can upgrade the OLT firmware on this page. OLT will reboot automatically with the new firmware after upgraded when you select the option "Reboot After Upgrade".

	Firmware Upgrade	Device Reboot	Config File				
OLT Information	Firmware Upgrade						
OLT Configuration							
ONU Configuration	Current Firmware Version: V1.0.6 Reboot After Lingrade:						
Profile Configuration	Select File: Choose File No file chosen						
System Configuration	Upgrade						
System Log							
Device Management							
User Management							
Gateway							
DNS							
System Time							
Mirror							
Login Management							

Figure 6-2-1: Firmware Upgrade

6.2.2 Device Reboot

System Configuration \rightarrow Device Management \rightarrow Device Reboot

You can reboot the entire system on this page. Please do save the configuration before reboot.

oirlive®	Firmware Unerado	Dovice Poheet	Config File					
OLT Information		Device Rebool	Coning File					
OLT Configuration	Click Reboot Click Reboot button to reboot the device.							
ONU Configuration								
Profile Configuration								
System Configuration								
System Log								
Device Management	Mon Jan 12 18:01:42 1970							
User Management								
Gateway								
DNS								
System Time								
Mirror								
Login Management								

Figure 6-2-2: Device Reboot

6.2.3 Config File

System Configuration \rightarrow Device Management \rightarrow Config File
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You can backup configuration, restore configuration, restore factory defaults and save configuration on this page.

airli▼e®		
	Firmware Upgrade D	evice Reboot Config File
OLT Information	Config File	
OLT Configuration		
ONU Configuration	Backup Configuration	Download
Profile Configuration		All existing configuration will be overwritten.
System Configuration		The device will reboot after restore is completed!
System Log	Restore Configuration	Select File: 洗择文件 未洗择文件
Device Management		
User Management		Restore
Gateway		Click Restore to load the factory defaults.
DNS	Load Factory Defaults	The device will reboot after restore is completed!
System Time	,	Restore
Mirror		
Login Management	Cove Configuration	Press the button below to save configuration.
	Save configuration	Save



6.2.4 Advance Config File

System Configuration \rightarrow Device Management \rightarrow Advance Config File You can automatically backup files on this page.

	Firmware Upgrade	Device Reboot	Config File	Advance Config File		
OLT Information	Current Time					
OLT Configuration	T 1 4 07 00 4					
ONU Configuration	Inu Jan 1 07:28:1	3 1970				
Profile Configuration	Auto Save Config	uration				
System Configuration	Auto Save comig					
System Log	Auto Save Status	Fix-Time (N	1onthly) 🗸			
Device Management	Fix Time (Monthly)	1	✓ Day	0 V Hou	r 0	✓ Minute
User Management		Submit I	Reset			

Figure 6-2-4: Advance Config File Configuration

6.3 User Management

System Configuration \rightarrow User Management

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

airlive®	Save (
••••••	User Manage
OLT Information	Add User
OLT Configuration	
ONU Configuration	User Name
Profile Configuration	User Password
System Configuration	User Role Normal
System Log	Add Reset
Device Management	Notice:
User Management	 The password must contain at least 6 characters. The password must contain at least two of the following combinations digit, unpercase letter, lowercase letter, Special characters
Gateway	$(.: - _ / @ ! ~ # $^ & * () + = ? \ [[}]; ' " < , > `).$
DNS	3.The password can not be any user name.
System Time	
Mirror	User Name User Role Edit Delete
Login Management	admin admin 🗾

Figure 6-3-1: User Manage

6.4 SNMP

6.4.1 SNMPV1/V2

System Configuration \rightarrow SNMP \rightarrow SNMPV1/V2

This page is used to configure SNMP V1/V2 parameters for OLT management. It is not recommended to modify the default community name in the following image, as it may cause the network management system to be unable to manage and configure it.

	SNMPV1/V2	SNMPV3	Remote	Server	7	
OLT Information	Add Communi	itv				
OLT Configuration						
ONU Configuration	Community Na	me	d Oala			
Profile Configuration	Access Right	Kea	a-Oniy		•	
System Configuration	Community Ta	able				
System Log					1	
Device Management	Community Na	ame Acce	ess Right	Delete		
User Management	public	Rea	d-Only	Ū		
SNMP	private	Rea	l-Write	Ū	1	
Gateway					1	
DNS	Add Trap					
System Time	Host IP					
FAN	UDP Port	162			(1-65535)	
Mirror	Community Na	me pub	lic			
Login Management	SNMP Version	1			~	
SSH		Add				
Diagnose	Trap Table					
	Host IP	UDP Port	SNMP \	/ersion	Community Name	Delete
	192.168.6.66	162	1		public	İ

Figure 6-4-1: SNMPV1/V2

6.4.2 SNMPv3

System Configuration → SNMP→ SNMPV3

This page is used to configure SNMP V3 parameters for OLT management.

	SNMPV1/V2 SNMPV3 Remote Server
OLT Information	Add View
OLT Configuration	
ONU Configuration	View Name
Profile Configuration	Subtree (Type:Object Identifier)
System Configuration	Add
System Log	View Table
Device Management	
User Management	View Name Subtree View Type Delete
SNMP	Add Group
Gateway	
DNS	Group Name
System Time	Access Level No Auth
FAN	Write View
Mirror	Natify View
Login Management	
SSH	Group Table
Diagnose	·
	Group Name Access Level Read View Write View Notify View Delete
	Add User
	User Name
	Group Name
	Auth Type None 🗸
	Auth Password
	Private Type Vone V
	Private Password
	User Table
	User Name Group Name Auth Type Private Type Delete

Figure 6-4-2: SNMPv3

6.4.3 Remote Server

$System \ Configuration \rightarrow SNMP \rightarrow Remote \ Server$

This page is used to configure AirLive EMS, VINCE server IP.

<u>airlive</u>	Si	ngle PON A	irLive GPON OLT-:	121 Web	User Manual
airlive					
	SNMPV1/V2	SNMPV3	Remote Server		
OLT Information	Remote Ser	rver Config	uration		
OLT Configuration		-			
ONU Configuration	Remote Serv	/er	Enable	~	
Profile Configuration	Server Slave Server		192.168.6.66		(Connected)
System Configuration	INCE SN				
System Log			Submit		
Device Management					
User Management					
SNMP					

Figure 6-4-3: Remote Server

6.5 Gateway

System Configuration \rightarrow Gateway

This page is used to configure the OLT gateway in case of that the OLT needs to access Internet or any Layer 3 network.

airli▼e®	
	Gateway
OLT Information	Gateway
OLT Configuration	
ONU Configuration	Gateway 192.168.6.1
Profile Configuration	Submit Reset
System Configuration	
System Log	
Device Management	
User Management	
Gateway	
DNS	
System Time	
Mirror	
Login Management	

Figure 6-5-1: Gateway Configuration

6.6 DNS

DNS is used for domain name resolution. When OLT need to visit a site or a destination by domain, take NTP server for example, DNS is required.

6.6.1 IPv4 DNS

System Configuration \rightarrow DNS \rightarrow IPv4 DNS

This page is used to configure IPv4 DNS.

oirlive®	IPv4 DNS	
OLT Information	IPv4 DNS Config	uration
OLT Configuration	-	
ONU Configuration	Master DNS	202.96.128.86
Profile Configuration	Slave DNS	8.8.8.8
System Configuration		Submit Reset
System Log		
Device Management		
User Management		
Gateway		
DNS		
System Time		
Mirror		
Login Management		

Figure 6-6-1: IPv4 DNS

6.7 System Time

6.7.1 RTC

System Configuration \rightarrow System Time \rightarrow RTC

This page is used to set OLT system time. RTC stands for Real-Time Clock, it provides clock signal to the system. There is no battery inside OLT, so the time will not be saved after powered off.

<u>airlive</u>

oirlive®	RTC NT	ГР				
OLT Information	Date Se	tting				
OLT Configuration						
ONU Configuration	Year	Month	Day	Hour	Minute	Second
Profile Configuration	1970	1	12	17	47	18
System Configuration	Submit	Reset				
System Log						
Device Management						
User Management						
Gateway						
DNS						
System Time						
Mirror						
Login Management						

Figure 6-7-1: RTC Setting

6.7.2 NTP

System Configuration \rightarrow System Time \rightarrow NTP

This page is used to configure NTP server. OLT will synchronize time with the NTP server at a given time.

airlive®		
	RTC NTP	
OLT Information	NTP Configuration	
OLT Configuration		
ONU Configuration	Enable NTP Synchronization	Enable
Profile Configuration	Davlight Saving Time	(GPT+08:00) Beijing, Chongqing, Hong Kong, Orumqi
System Configuration	Master NTP Server	ntp.aliyun.com
System Log	Slave NTP Server	
Device Management	Current Time	1970 / 1 / 12 17:50:19
User Management		Submit Reset
Gateway		
DNS		
System Time		
Mirror		
Login Management		

Figure 6-7-2: NTP Configuration

6.8 FAN

System Configuration \rightarrow FAN

This page is used to configure the working mode of the fan.

	FAN	
OLT Information	FAN Configuration	
OLT Configuration		
ONU Configuration	FAN Temperature	35 (20-80)
Profile Configuration	FAN Mode	Open Oclose OAuto
System Configuration		
System Log		
Device Management		
User Management		
SNMP		
Gateway		
DNS		
System Time		
FAN		
Mirror		

Figure 6-8-1: FAN

6.9 Mirror

System Configuration \rightarrow Mirror

Port mirror is usually used for troubleshooting. It can forward incoming and outgoing packets from the source port to the destination port.

airlive®							
	M	irror					
OLT Information	I	Mirror Confi	gura	ation			
OLT Configuration			-				_
ONU Configuration		Destination P	ort	GE3			<u> </u>
Profile Configuration	- -	Port ID		Mirrored		Direction	_
System Configuration		GE1			B	oth 🗸	
System Log		GE2			Both 🗸		
Device Management		GE3			B	oth 🗸	
User Management		PON1		✓	В	oth 🗸	
Gataway						Submit	
DNS	I	Airror Table	•				
Sustan Time							
System Time		Destination	Port	Source Port	Туре	Delete	
Mirror		GE3		PON1	Both	T	
Login Management	L						

Figure 6-9-1: Mirror Configuration

6.10 Login Management

6.10.1 Login Access List

System Configuration → Login Management → Login Access List

This page is used to configure access rights for management. You can configure access rights for Telnet, Web, according to source IP address.

oirli v e®					
	Login Access List	Service Port	Login Con	figuration	Telnet Management
OLT Information	Login Access St	atus			
OLT Configuration					
ONU Configuration	Login Access Sta	tus Disable		~	
Profile Configuration		Submi			
System Configuration	Login Access Li	st Configuratio	on		
System Log	Filter Action	Den	v O Permit		
Device Management	Protocol	Telnet		~	
User Management	Source IP				
Gateway	IP Mask				
DNS		Add			
System Time	Login Access Li	st			
Mirror	Clean				
Login Management	Filter Action Bro	atocol Source I	D ID Mack	Delete	
	The Action Pro		IF Mask	Delete	

Figure 6-10-1: Login Access List Configuration

6.10.2 Service Port

System Configuration \rightarrow Login Management \rightarrow Service Port

This page is used to set Web, Telnet Port.

airlive®				
	Login Access List	Service Port	Login Configuration	Telnet Management
OLT Information	Service Port			
OLT Configuration				
ONU Configuration	Web Port	443	(1-	65535)
Profile Configuration	Telnet Port	23 Submit	(1-	65535)
System Configuration		Subilit	Neset	
System Log				
Device Management				
User Management				
Gateway				
DNS				
System Time				
Mirror				
Login Management				

Figure 6-10-2: Service Port Configuration

6.10.3 Login Configuration

System Configuration \rightarrow Login Management \rightarrow Login Configuration This page is used to set login timeout and verification code switch.

oirli v e®				
	Login Access List	Service Port	Login Configuration	Telnet Management
OLT Information	Web Configurat	ion		
OLT Configuration				
ONU Configuration	Login Timeout	10	(1	-30 minutes)
Profile Configuration	Verification Code	Disable	Reset	
System Configuration		Dubinit		
System Log				
Device Management				
User Management				
Gateway				
DNS				
System Time				
Mirror				
Login Management				

Figure 6-10-3: Login Configuration

6.10.4 Telnet Management

System Configuration -> Login Management -> Telnet Management

This page displays the current telnet connection information. You can see the host IP

address and user name information that are currently accessing the OLT through telnet.

airli▼e						
	Login Access	ervice Po	t Login Co	nfiguration	Telnet Management	
OLT Information	Telnet Logi					
OLT Configuration	_		_	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		
ONU Configuration	User Name	Vty Index Remote Connecter			Delete	
Profile Configuration	admin	ttyp0	yp0 192.168.8.178		Ū	
System Configuration						
System Log						
Device Management						
User Management						
Gateway						
DNS						
System Time						
Mirror						
Login Management						

Figure 6-10-4: Telnet Management

6.11 SSH

6.11.1 SSH Enable

System Configuration \rightarrow SSH \rightarrow SSH Enable

This page is used to configure SSH protocol related parameters.

	SSH Enable					
OLT Information	SSH Enab	le				
OLT Configuration						
ONU Configuration	SSH Statu:	S	Enable		~	
Profile Configuration	Auth Retrie	Auth Retries		6		(0-6)
System Configuration	Timeout		120			(1-120)
System Log	Max Startups		3			(1-5)
Device Management	Max Sessio	Max Sessions		3		(1-12)
User Management			Submit	Reset		_
SNMP	CCH Kow 1	[ahlo				
Gateway	SSH Key I	able				
DNS	Key type	Encryption	Key data			
System Time		algorithm	itey ada			
FAN	RSA	ssh-rsa	AAAAB3Nza	C1yc2EAAA	ADAG	QABAAABgQDAq0tGiYzRv6krvFRTN
Mirror	50000	ecdsa-				
Login Management	ECDSA	nistp256		HNNLXNOYT	Itom	IZOHAYINI YAAAAIDMIZOHAYINI YAAA
SSH	ED35510	ssh-				
Diagnose	ED25519	ed25519	AAAACSNZ		-JAA	AATAOIKTII+ESTTUKVUFVOCYKUQS
	Refresh					

Figure 6-11-1:SSH Enable

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6.12 Diagnose

6.12.1 PING Diagnose

System Configuration→ Diagnose→ PING Diagnose

This page supports diagnosing network connections using the PING command. PING supports IPv4 and IPv6 addresses.

olli €6							
	PING Diagnose	Tracert Dia	gnose				
OLT Information	Ping Diagnosis						
OLT Configuration	Destination ID A						
ONU Configuration	Or Host Name	adress					
Profile Configuration	IP type	IP	v4		~		
System Configuration		S	ubmit	Reset			
System Log	Ping Test Resu	IT					
Device Management							
User Management							
SNMP							
Gateway							
DNS							
System Time							
FAN							
Mirror							
Login Management							
SSH							
Diagnose							

Figure 6-12-1:PING Diagnose

6.12.2 Tracert Diagnose

System Configuration→ Diagnose→ Tracert Diagnose

This page supports using Tracert commands for route tracing to diagnose network connections.

The routing tracking function supports IPv4 and IPv6 addresses.



Figure 6-12-2:Tracert Diagnose

Thank You!