



AP214H GPON ONT

User Manual

Revision C



ACT 214H GPON HGU ONT

User Manual

ACT Document Number: ACT 214H GPON HGU ONT

User Manual Revision C

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This document is produced to assist professional and properly trained personnel with installation and maintenance issues for the product. The capabilities, system requirements and/or compatibility with third-party products described herein are subject to change without notice.

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Revision History

Revision	Date	Reason for Change
Α	12/17/2018	Initial release
В	01/07/2019	Updated pictures
С	04/09/2019	Minor updates



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Chapter 1 Product Introduction

1.1 Product Description

AP214H GPON ONT is designed as HGU (Home Gateway Unit) in different FTTH solutions. The carrier-class FTTH application provides data service access. It is based on mature and stable, cost-effective XPON technology. XPON can switch automatically with EPON and GPON mode when it accesses to the EPON OLT or GPON OLT. It adopts high reliability, easy management, configuration flexibility and good quality of service (QoS) guarantees to meet the technical performance of the module of Telecom EPON CTC3, and GPON Standard of ITU-TG.984.



Figure 1-1: AP214H GPON ONT

1.2 Special Features

- Support EPON and GPON Mode
- Support ONU auto-discovery/Link detection/remote upgrade of software
- WAN connections support Route and Bridge mode
- Route mode supports PPPoE/DHCP/ static IP
- Support WIFI Interface and multiple SSID
- Support QoS and DBA
- Support port vlan configuration
- Support Firewall function and IGMP snooping multicast feature
- Support LAN IP and DHCP Server configuration;
- Support Port Forwarding and Loop-Detect
- Support TR069 remote configuration and maintenance
- Support Pots interface for VoIP Service
- Support CATV interface for Video Service
- Specialized design for system breakdown prevention to maintain stable system



1.3 Technical Parameters

Item Description

PON Interface 1 G/EPON port (EPON PX20+ and GPON Class B+) Receiving sensitivity: ≤-27 dBm

Transmitting optical power: 0 dBm to +4 dBm

Transmission distance: 20 km

Wavelength TX: 1310 nm, RX: 1490 nm

SC/UPC Connector

Optical Interface (SC/APC Connector for CATV)

1 FXS, RJ11 connectors

Support: G.711/G.723/G.726/G.729 codec Support: T.30/T.38/G.711 Fax mode, DTMF Relay

POTS interface Line testing according to GR-909

LAN Interface LAN port for GE and FE automatic adaptive mode. Full/Half, RJ45 connector

CATV Interface RF, optical power: +2 to -18dBm Optical reflection loss: ≥45dB

Optical receiving wavelength: 1550±10nm

RF frequency range: 47 to 1000MHz, RF output impedance: 75Ω RF output level: 78dBμV

AGC range: 0 to -15dBm MER: ≥32dB@-15dBm

Wireless Compliant with IEEE802.11b/g/n, Operating frequency: 2.400-2.4835GHz Support MIMO, Rate

up to 300Mbps, 2T2R, 2 external antenna 5dBi, Support: multiple SSID

Channel: Auto

Modulation type: DSSS, CCK and OFDM

Encoding scheme: BPSK, QPSK, 16QAM and 64QAM

Push-Button 3, For Function of Reset, WLAN, WPS

Temperature: 0 °C to +50 °C

Operating Condition Humidity: 10 % to 90 %(non-condensing)

Temperature: -30 °C to +60 °C

Storing Condition Humidity: 10 % to 90 %(non-condensing)

Power Supply DC 12V/1A

Power Consumption ≤6W

Dimension 155mm×92mm×34mm(L×W×H)

Net Weight ≤0.24Kg

Table 1: Technical parameters



1.4 Application Chart

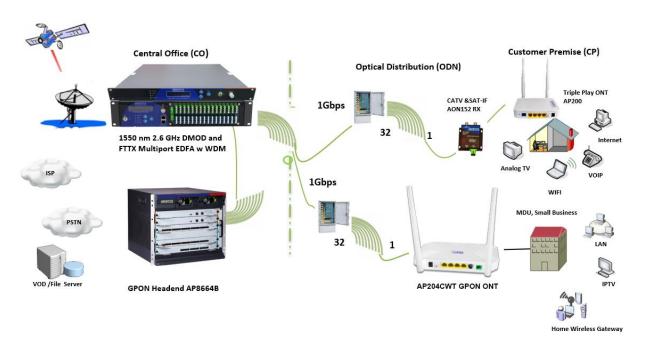


Figure 1-2: Application chart

1.5 Panel Description

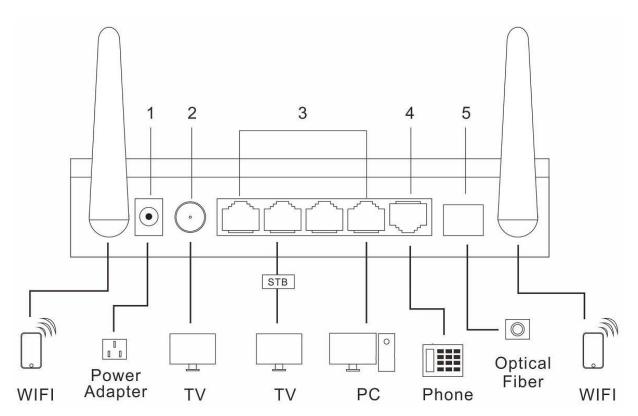


Figure 1-3: Rear View for multiple port



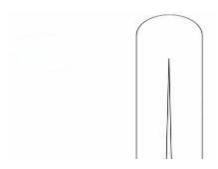


Figure 1-4: Push button Panel

WIFE WES POWER LOS FOR TANE DANK LANG LANGETXST ROBBIAL WORK

Figure 1-5: LED Panel

LED	Status	Description
POWER	On	The device is powered up.
	Off	The device is powered down.
	On	The device has registered to the PON system.
PON	Blink	The device is registering the PON system.
	Off	The device registration is incorrect.
LOS	Blink	The device doses not receive optical signals.
	Off	The device has received optical signal.
SYS	On	The device system runs normally.
	Off	The device system runs abnormally.
	On	The WIFI interface is up.
WIFI	Blink	The WIFI interface is sending or/and receiving data (ACT).
	Off	The WIFI interface is down.
WPS	Blink	The WIFI interface is securely establishing a connection.
	Off	The WIFI interface does not establish a secure connection.
FXS	On	Phone has registered to the SIP Server.
	Blink	Phone has registered and data transmission (ACT).
	Off	Phone registration is incorrect.
	On	Ethernet connected properly (LINK).
LAN1 to LAN4	Blink	Ethernet is sending or/and receiving data (ACT).
	Off	Ethernet connection exception or not connected.
Worn (CATV)	On	Input optical power is higher than 3dbm or lower than -13dbm
	Off	Input optical power is between -13dbm and 3dbm
Normal (CATV)	On	Input optical power is between -13dbm and 3dbm
	Off	Input optical power is higher than 3dbm or lower than -13dbm
		Table 2: Panel Lights Description



Chapter 2 Quick Installation

2.1 Standard Packing Contents

When you receive our products, please check carefully to make sure that our products whether have some defects or not. If something wrong with shippings, please contact carrier; other damage or lack of some parts, please contact with dealer.

Contents	Description
ONU	1 pcs
Power Adapter	1 pcs
User Manual	1 pcs (Optional)

Table 3: Packing Contents



Figure 2-1: Actual package content

2.2 Quick Installation

- Connecting the optical fiber cable to the unit.
- Remove the protective cap of the optical fiber.
- Clean the end of the optical fiber with an optical fiber end cleaner.
- Remove the protective cap of the ONU optical interface (PON interface). Connect the fiber to the PON port on the unit.

Note: When measuring the optical power before connecting to the ONU, it is recommended to use a PON Inline Power Meter. The receiver optical power should be between -7dbm and -28 dbm by using 1490nm.

While connecting, please note:



- Keep the optical connector and the optical fiber clean.
- Make sure there are no tight bends in the fiber and that the bending diameter is greater than 6cm. Otherwise, the optical signal loss may be increased, to the extent that signal may be unavailable.
- Cover all optic ports and connectors with protective cap to guard against dust and moisture when the fiber is not used.
- Apply power to the unit. If the product has the power button, please push the power button before used.
- After the ONU is power ON, Indicators should light up as for normal operation. Check whether
 the PON interface status LED (PON) is on continuously. If it is, the connection is normal;
 otherwise there is either problem of the physical connection or the optical level at either end.
 This may be caused by either too much or too little attenuation over the optical fiber. Please
 refer to the Panel Lights Description for normal LED activity.
- Check all signal levels and services on all the ONU communication ports.

Unit Installation Adjustment

Installing the ONU on a horizontal surface (Bench top)

Put the ONU on a clean, flat, sturdy bench top. You must keep the clearance for all sides of the unit to more than 10cm for heat dissipation.



Chapter 3 Configuration

After finishing the basic connection configuration, you can use its basic function. In order to satisfy individuation service requirements, this charter provides the user parameter modification and individuation configuration description.

3.1 Login

The device is configured by the web interface. The following steps will enable you to login:

- 1. Conform "2.2 Quick Installation" to install;
- 2. The device management default IP address is 192.168.1.1;
- 3. Open your web browser, type the device IP in address bar;
- 4. Entry of the user name and password will be prompted. Enter the default login user name and password.

By default, there are two user levels for management. Administration level user name is "superadmin", password is "superadmin". Normal user level user name is "admin", password is "ascent".

The Administration account is able to access and modify all settings of ONU. It also can modify user account's username and password.

The normal account can only be used to view configurations, status and configure few parameters.

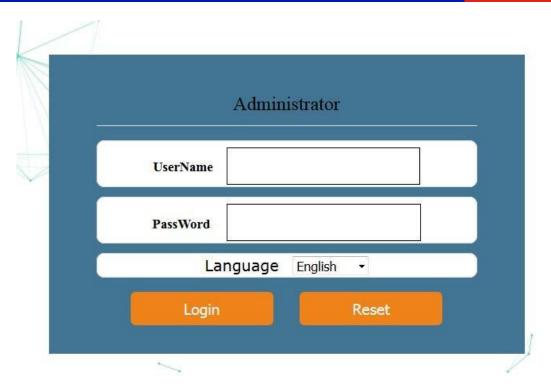


Figure 3-1: Login

3.2 Status

This part shows the main information of device and the active status about major services.

3.2.1 Device Information

This page shows the basic information about device, such as Device Type, PON MODE, Device Model, PON MAC /SN, Software Version, Register State.





Figure 3-2: Device Information

3.2.2 Network Info

3.2.2.1 IPv4 WAN Connection Information

This page shows IPv4 WAN connection information you have configured.

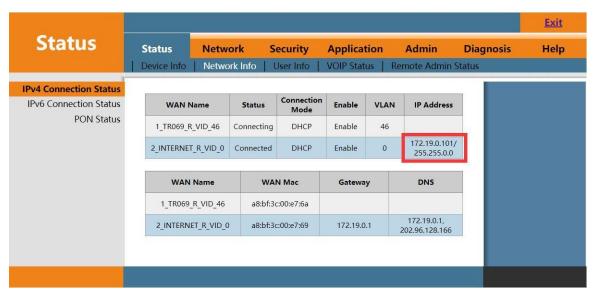


Figure 3-3: IPv4 WAN Information

3.2.2.2 IPv6 WAN Connection Information

This page shows IPv6 WAN connection information you have configured.

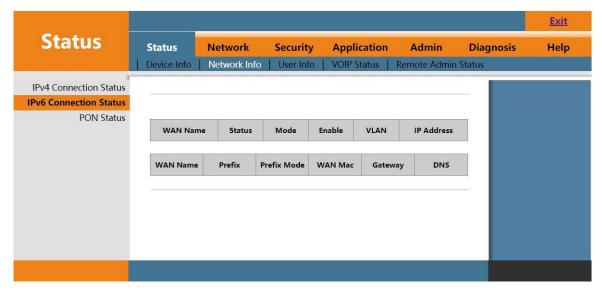


Figure 3-4: IPv6 WAN information

3.2.2.3 PON Information

This page shows the PON information, including Optical module information, Link Status, Performance statistics.



Figure 3-5: PON Status



3.2.3 User Information

3.2.3.1 LAN Interface Information

This page shows the Ethernet port information, including LAN Link Information, Transceiver statistics.

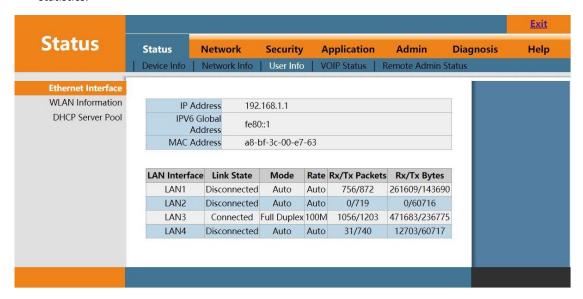


Figure 3-6: LAN Interface Information

3.2.3.2 WLAN Interface Information

This page shows the WLAN Interface information, including basic WIFI information and WIFI Client information.



Figure 3-7: WLAN Interface Information



3.2.3.3 DHCP Pool Information

This page shows the DHCP Pool Information, including the dhcp client information.

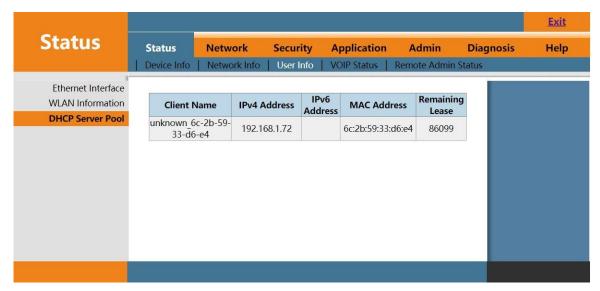


Figure 3-8: DHCP Pool Information

3.2.4 VoIP Status

3.2.4.1 Phone Register Status

This page shows the register status of POTS1.Attention, you need to configure the part of VoIP Configuration.Otherwise, it couldn't be registered.



Figure 3-9: Phone Register Status



3.2.4.2 Phone Number Information

This page shows the Phone number you had configured, if you haven't configured the phone number, it would be blank in this part.



Figure 3-10: Phone Number Information

3.2.5 Remote Admin Status

3.2.5.1 TR069 Connection Status

This page shows the TR069 Inform Status and Remote Connection status.



Figure 3-11: TR069 Connection Status



3.2.5.2 TR069 Configuration Status

This page shows the TR069 Configuration Status.

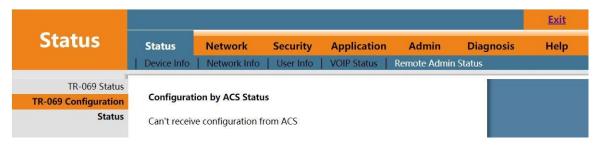


Figure 3-12: TR069 Configuration Status

3.3 Network

3.3.1 WAN Configuration

This page allows the user to configure WAN connections. You can add/delete/modify WAN connections here. The device default settings about TR069 WAN and Route_Internet WAN Connections .

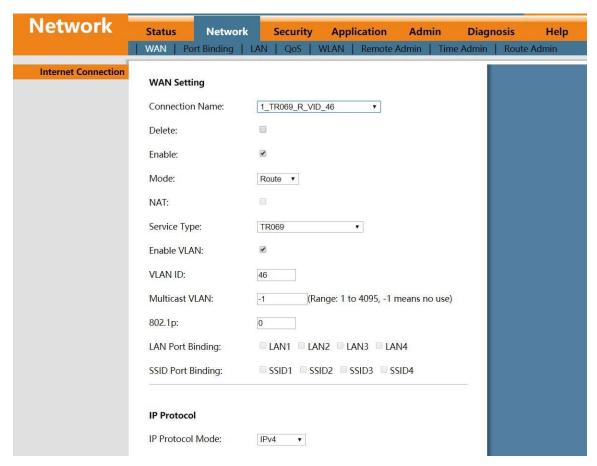


Figure 3-13: WAN Setting



Parame	ter	Description
Connection Name		The list of WAN connection name that would be created according to
		the detail WAN Configuration.
		If you want to create a new WAN connection, please select "Create a
		new WAN connection" and input other Parameter at the same time and
		then click "OK" button. If you want to edit WAN connection, please
		select the wan connect name you want to edit
		and change some Parameter and then click "OK" button.
Delete		If you want to delete one connection, please select the wan connection
		you want to delete and then check "Delete" option.
Enable		Enable or Disable the WAN Connection you have choosed.
Mode		Route/Bridge. The device works on route mode with this WAN connection.
NAT		If you select Route WAN Connection, the NAT option is default enable.If
		you select Bridge WAN connection, the NAT option is default disable.
		Checked indicates the NAT Function is enabled.
Service ⁻	Гуре	Service mode indicates what the wan connection is used for. There are
		INTERNET, TR069, Other and VoIP for choosing.
VLAN	Enable VLAN	Checked indicates the packets are transmitted by the PON port take
		VLAN tag. Unchecked indicates the packets are transmitted by the PON
		port don't take VLAN tag.
	VLAN ID	Input the VLAN ID you want to set. Range is 0 to 4094. Input 0
		means don't use any VLAN.
Multicas	st VLAN	Input the VLAN ID you want to set, according to the IPTV Configuration.
		This option default value is -1, means no use.
802.1P		Select VLAN priority you want to set. Range is 0 to 7.
LAN Por	t Binding	Checked the LAN Port indicates that lan interface would act with this
		wan connection Route or Bridge.
SSID Port Binding		Checked the SSID Port indicates that lan interface would act with this
_		wan connection route or bridge.
IP Protocol Mode		IPv4, IPv6, IPv4/IPv6
MTU		Max transfer unit. Default Value (in Byte): 1500(static/DHCP) or
		1492(PPPoE).
WAN IP Mode		IPoE/PPPoE/Static
PPPoE	Username	PPPOE account.
	Password	PPPOE password.
	Keep Alive Time	The PPP Link maintenance time. This parameter value default is 60S.
	PPPoE Mode	Continous or Connect on Demand
	Service Name	This option is not required generally, but if the PPPoE Server checks the
		option, you should input according to ISP.



3.3.2 Port Binding

3.3.2.1 Binding Mode

This page supports the LAN or SSID binding mode based on VLAN. Users could deploy different VLAN configuration according to actual demands.

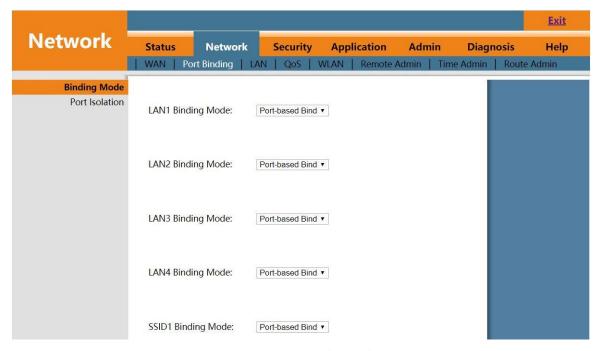


Figure 3-14: Port Binding Mode

3.3.2.2 Port Isolation

This page allows the user to deploy whether ports need communicate with each other. If the Port Isolation function is enabled, all the ports cann't access each other.

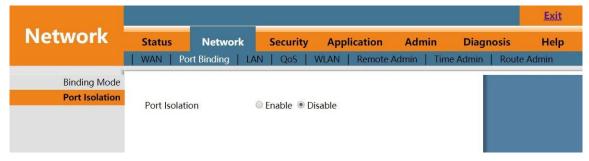


Figure 3-15: Port Isolation



3.3.3 LAN Configuration

3.3.3.1 LAN IPv4 Address Settings

This page supports the management of the ONU's IPv4 address, DHCP Server management, including address distribution and relevant parameters distribution, such as lease time, address pool range, dns distribution.

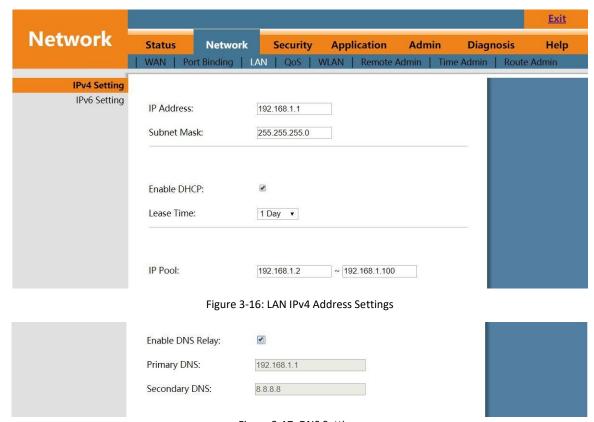


Figure 3-17: DNS Settings

Parameter	Description
IP Address	LAN IP address.
Subnet Mask	LAN IP Subnet Mask.
Enable DHCP	Enable ONU DHCP Server.
Lease Time	Lease time of the ONU DHCP Server
IP Pool	The address range of DHCP Pool
Enable DNS Relay	Whether to enable DNS Realy
Primary DNS	The Primary DNS of DHCP Server
Secondary DNS	The Secondary DNS of DHCP Server



3.3.3.2 LAN IPv6 Settings

This page supports the management of the LAN IPv6 address, including LAN IPv6 Address Settings, LAN IPv6 DHCP configuration, RA Configuration

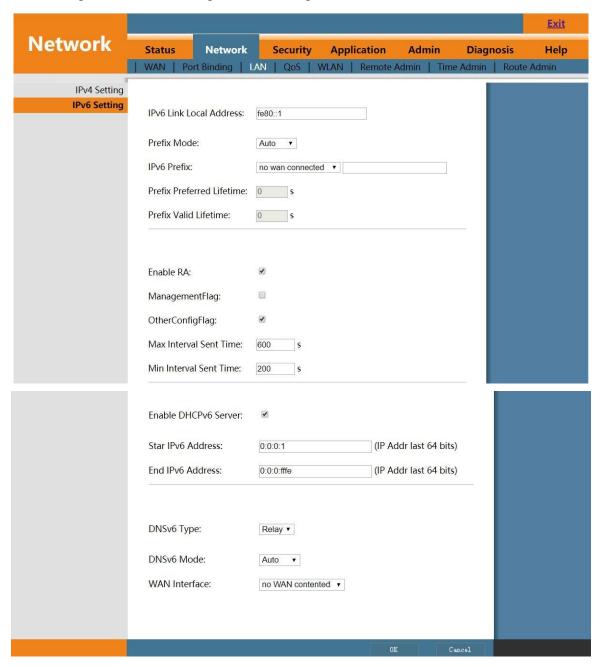


Figure 3-18: LAN IPv6 Address Settings



3.3.4.1 QoS Configuration

3.3.4.1 QoS Settings

This page allows the user to configure QoS (quality of service) parameters, including enable option, uplink Bandwidth, Rule template and Scheduling Police.

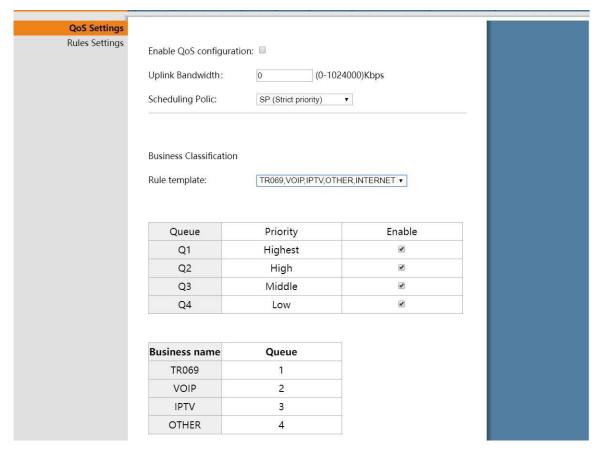


Figure 3-19: QoS Settings

Parameter	Description
Enable QoS Configuration	Enable or Disable QoS function
Uplink Bandwidth	The Max rate of uplink transmission
Scheduling Policy	SP/WRR/CAR
Rule Template	The various template about different services

3.3.4.2 Rule Settings

This page allows the user to deploy detail Queues through flow classification, such as LAN Port, Ethernet Type, Protocol, Vid, Source Mac, Destination Mac, Source IP, Destination IP, Source Port, Destination Port and etc...



Rules Settings	Classification rules	
	LAN Port:	All ▼
	Ethernet Type:	IPv4 ▼
	Protocol:	All ▼
	Tos/Dscp:	Dscp ▼
	Tos/Dscp:	
	Tci:	
	Vid:	
	Pbit:	
	Source MAC:	
	Destination MAC:	
	Source Start IP:	
	Source End IP:	
	Destination Start IP:	
	Destination End IP:	
	Source Start Port:	
	Source End Port:	
	Destination Start Port:	

Figure 3-20: Rules Settings

3.3.5 WLAN Configuration

This page allows the user to deploy WLAN (WiFi) Configuration, including WLAN Enable option, SSID Name, Encryption options.

Parameter	Description
Enable	Checked indicates that WLAN function is enabled. Unchecked indicates
	that WLAN function is disabled.
Mode Selection	The Standard of WLAN Mode: B, G, N, B/G, B/G/N
Band Width	20MHz, 20/40MHz
SSID List	SSID1, SSID2, SSID3, SSID4. Support multiple SSID. SSID1 enable,
	SSID2/SSID3/SSID4 disable
SSID Name	WiFi name
SSID Broadcast	Enable indicates that WLAN client could find the SSID Disable indicates
	that WLAN client couldn't find the SSID



Encryption Open, WEP, WPA/WPA2 Personal, WPA/WPA2 Enterprise

WPA Password The password of SSID

WPS Enable Enable or disable WPS function

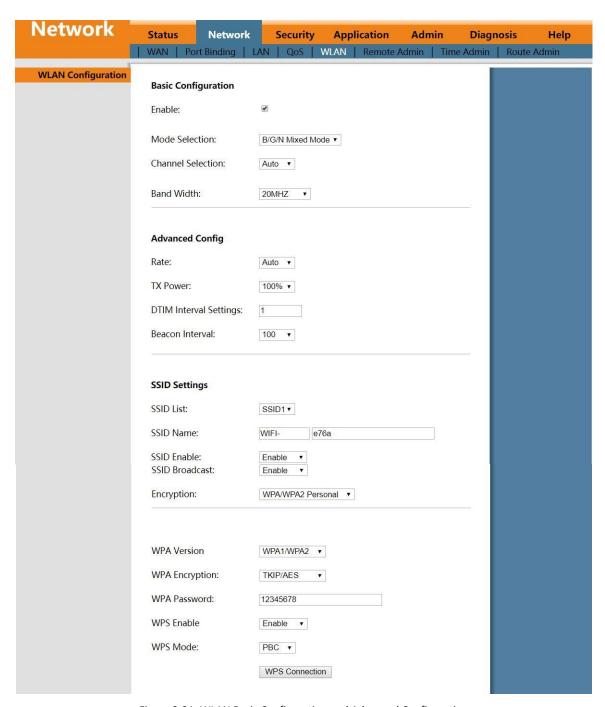


Figure 3-21: WLAN Basic Configuration and Advanced Configuration



3.3.6 Remote Admin

This page allows the user to deploy TR069 Remote Management Configuration, including Server Address, Server User Name, Server Password, Client Username, Client Password and Cycle Reporting Interval, enable or disable Cycle Reporting.

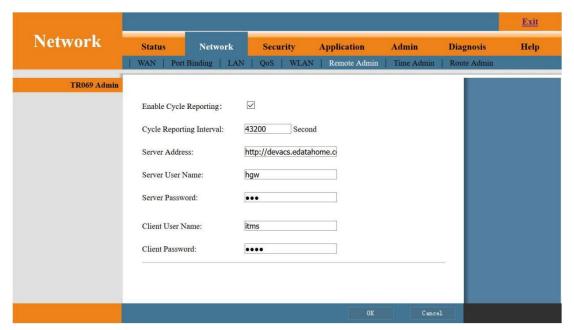


Figure 3-22: TR069 Configuration

3.3.7 Time Configuration

This page allows the user to configure NTP Client function. For this, the user can get current time from the NTP Server.



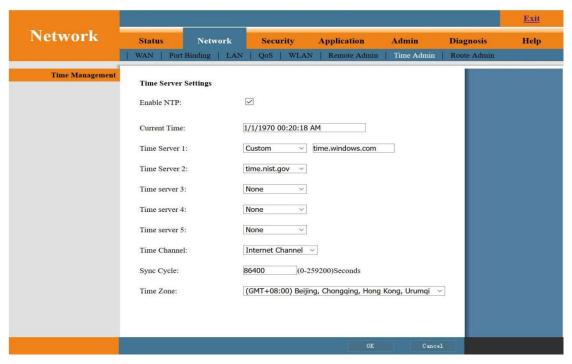


Figure 3-22: Time Admin

3.3.8 Route Configuration

This page allows the user to configure statics route function. For this, the user could deploy more options about network.



Figure 3-23: Static Route Configuration



3.4 Security

3.4.1 Firewall

3.4.1.1 Security Level

This page allows the user to set the level of the firewall. Low, Medium, High, three options are Available.



Figure 3-24: Security Level

3.4.1.2 Attack Protection Setting

This page allows the user to set the protection against DOS attacks.



Figure 3-25: Attack Protection Configuration



3.4.2 MAC Filter

This page allows the user to set the relevant parameters of the MAC filter function,

including black-list and white-list. The black-list indicates that forbidden access, white-list indicates that allow access.

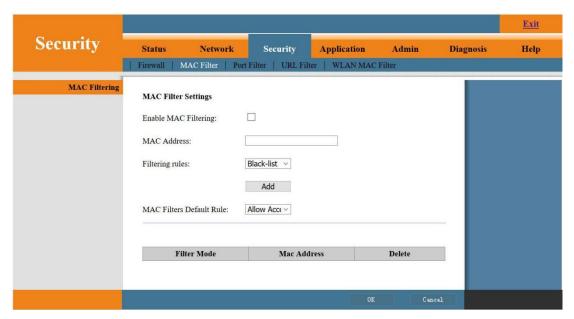


Figure 3-26: MAC Filter

3.4.3 Port Filter

This page allows the user to set the port filtering function. The rules are based on Source IP range and Destination IP range



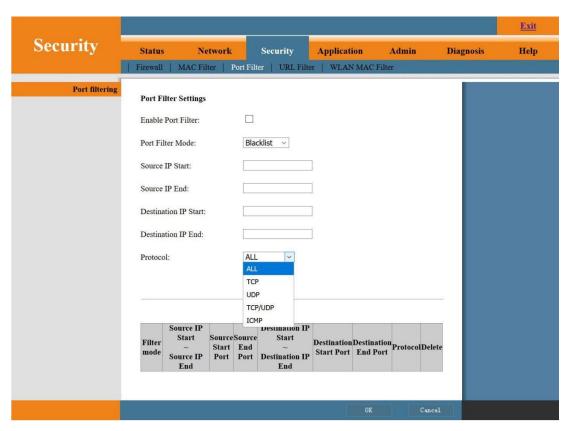


Figure 3-27: Port Filter

3.4.4 URL Filter

This page allows the user to set the URL filter function (Attention, it supports http website not https website).



Figure 3-28: URL Filter



3.4.5 WLAN MAC Filter

This page allows the user to set the WLAN MAC filter function. If the wifi client mac address is in the black-list, it couldn't get access on the internet.



Figure 3-29: WLAN MAC Filter

3.5 Application

3.5.1 DDNS Configuration

This page allows the user to set DDNS function.

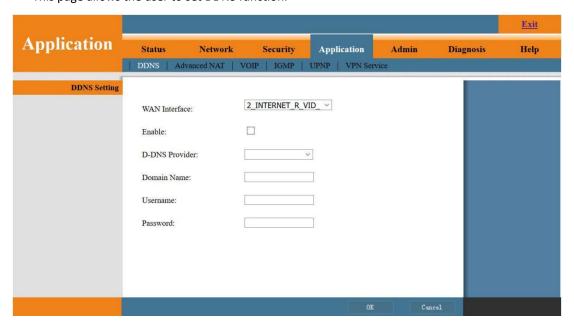


Figure 3-30: DDNS Configuration



3.5.2 Advanced NAT Configuration

This page allows the user to set Advanced NAT function, including ALG Configuration,

DMZ Settings, Virtual Host Settings. (Attention , there are some different description about Virtual Host Settings, such as Port Forwarding , Port Mapping)

3.5.2.1 ALG Configuration



Figure 3-31: ALG Configuration

3.5.2.2 DMZ Configuration



Figure 3-32: DMZ Configuration



3.5.2.3 Virtual Host Settings Configuration

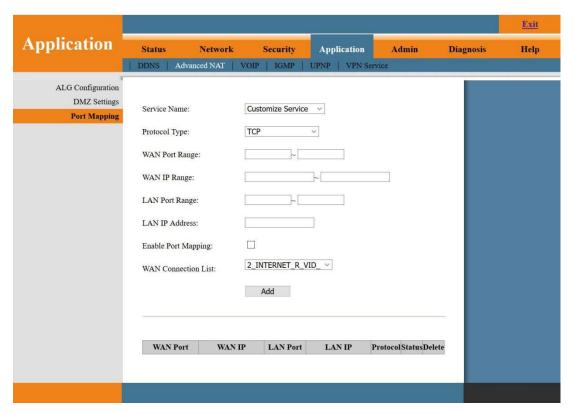


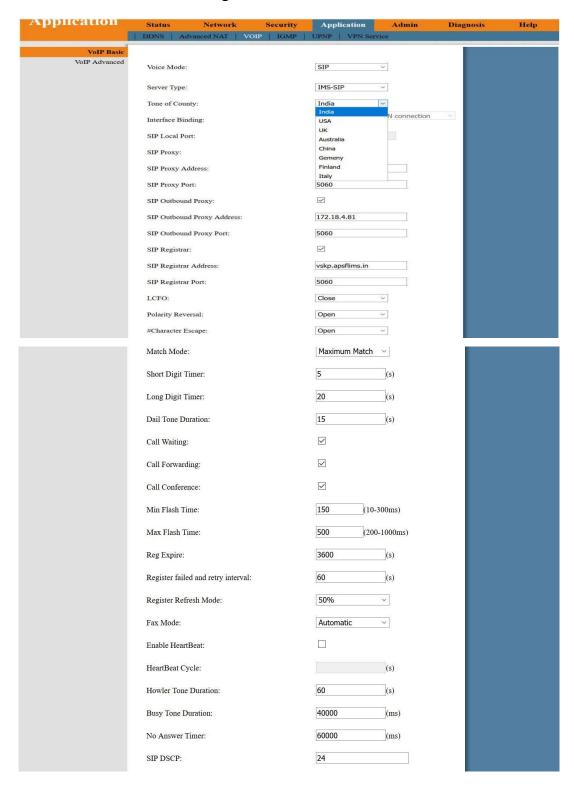
Figure 3-33:Virtual Host Settings Configuration

3.5.3 VOIP Configuration

This page allows the user set VOIP Configuration, including two parts, Basic and Advance configuration.



3.5.3.1 VOIP Basic Configuration





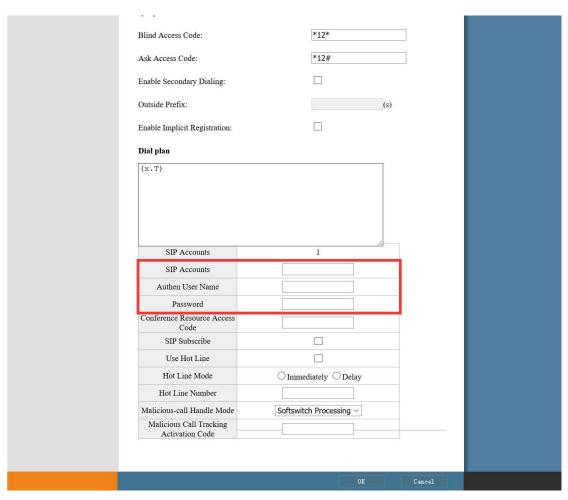


Figure 3-34: VOIP Basic Configuration



3.5.3.2 VOIP Advanced Configuration

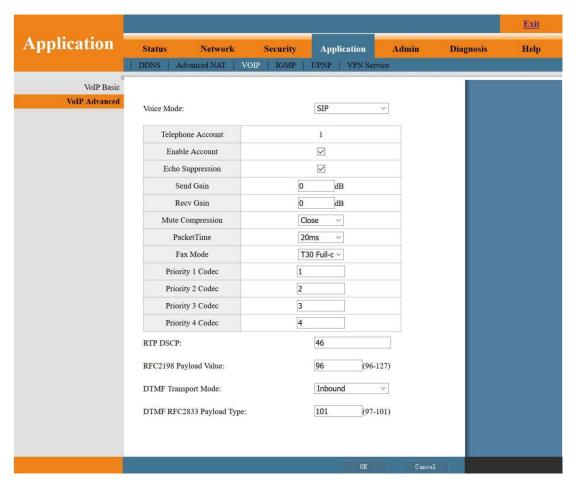


Figure 3-35: VOIP Advanced Configuration

3.5.4 IGMP Configuration

This page allows the user to set IGMP SNOOPING, IGMP Proxy, MLD Configuration, MLD Proxy Configuration



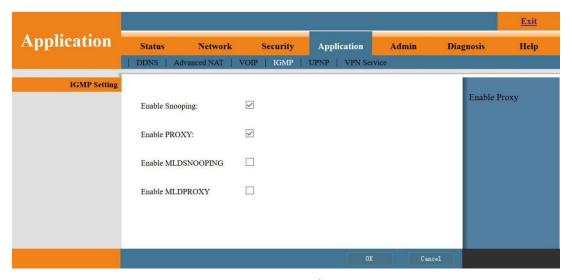


Figure 3-36: IGMP Configuration

3.5.5 UPNP Configuration

This page allows the user to set UPNP function. If enable UPNP, the device would open Port Mapping automatically according to what the client used.



Figure 3-37: UPNP Configuration



3.5.6 VPN Service

This page allows the user to set VPN Client configuration , including the parameters Protocol Type, Server address, Username and Password.

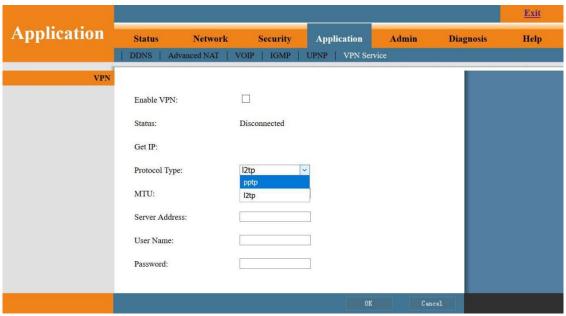


Figure 3-38: VPN Service Setting

3.6 Admin

3.6.1 User Management

This page allows the user to change normal account password.

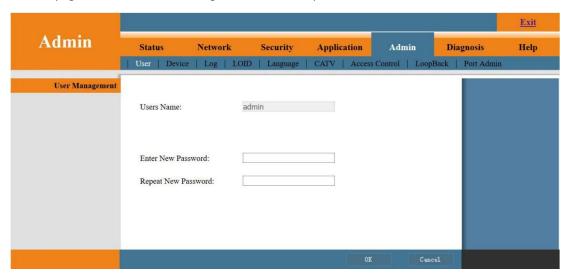


Figure 3-39: User management



3.6.2 Device Management

3.6.2.1 Software Upgrade

This page allows the user to update the software of the device. Click the "Choose File" button to select the software and then click the "Upgrade" button to update. When the device upgrade successed, it would reboot automatically. The whole process of upgrade will take 3 minutes.

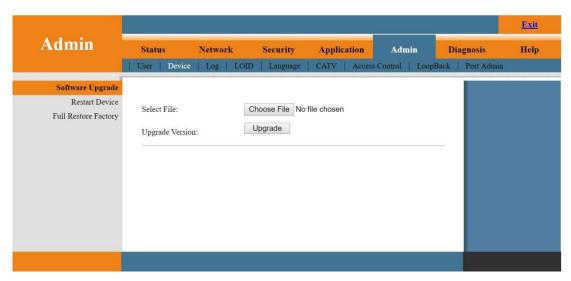


Figure 3-40: Software Upgrade

3.6.2.2 Reboot

This page allows the user to reboot the device. After reboot, the normal configuration wouldn't be changed. The whole process of reboot will take 1-2 minutes.



Figure 3-41: Restart Device



3.6.2.3 Restore Default

This page allows the user to restore the device. After restore the device, the whole configuration would be changed to default configuration. The whole process of restore factory will take 1-2 minutes.



Figure 3-42: Restore Default

3.6.3 Log File Configuration

3.6.3.1 Log Level

This page allows the user to different level about Write Level and Display Level. There are many available options, such as Emergency, Alert, Critical, Error, Warning, Notice, Informational, Debug.

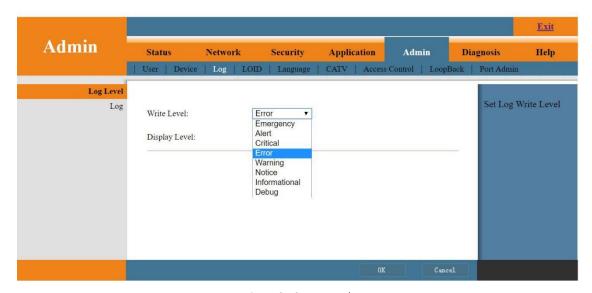


Figure 3-43: Log Level



3.6.3.2 Log

This page shows the device running status according to the log display level.



Figure 3-44: Log

3.6.4 LOID

This page allows the user to set the LOID and Password, this is other mode for OLT Authorize



Figure 3-45: LOID Configuration

3.6.5 Language

This page allows the user to choose the language between English and Sample Chinese.



Figure 3-46: Language Setting

3.6.6 CATV

This page allows the user to get the current CATV information and set Output Level Attention value, RF Switch On/Off.



Figure 3-47: CATV Information

3.6.7 Access Control

This page allows the user to set the access control function, including three access services (telnet, http, Ping) from LAN and WAN side. User also can modify the port about WAN access.

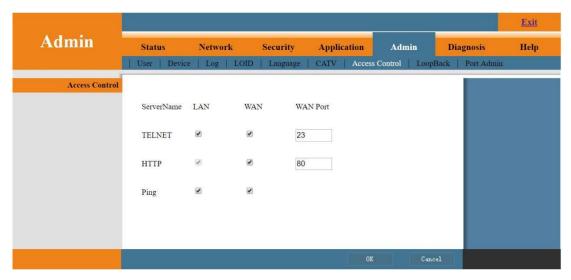


Figure 3-48: Access Control

3.6.8 LoopBack

This page allows the user to set the Loop Detection, including Sending Interval, Loopback Recovery Time.

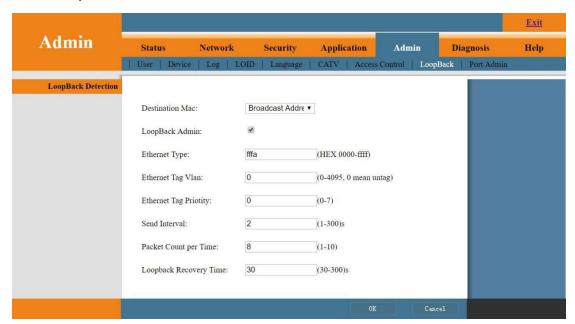


Figure 3-49: Loopback Detection

3.6.9 Port Admin

This page allows the user to set the Port configuration. If the lan port is enabled, user can connect the device by cable. Otherwise, if the lan port is disabled, user cann't connect the device by cable.

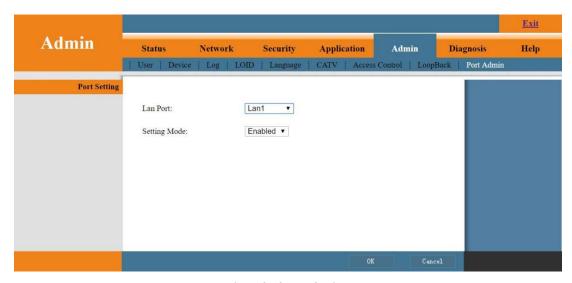


Figure 3-50: Port Setting

3.7 Diagnosis

3.7.1 Network Diagnosis

3.7.1.1 PING/Tracert Test

This page shows about the ping test. Users can diagnose connection status between ONU and other devices.

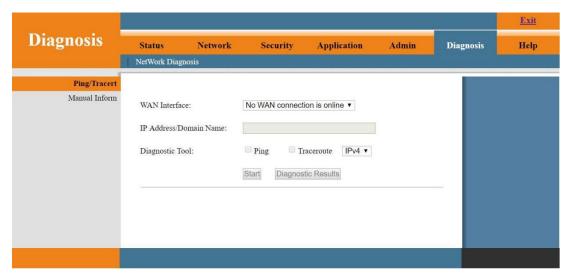


Figure 3-51: PING Diagnosis

Parameter	Illustration
WAN Interface	Select the WAN Connection interface you want to test.
IP Address or Domain Name	Input the destination IP address or domain name you want to ping.
Diagnostic Tool	Select the way between Ping and Traceroute



3.7.1.2 Manually Inform

This page allows the user to test tr069 inform function.

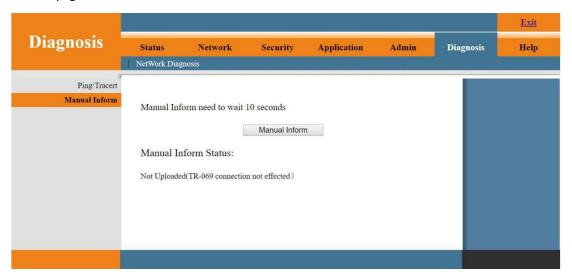


Figure 3-52: Manually Inform Use Tr069

3.8 Help

The Help information of ONU displays instruction and prompt of each web UI.

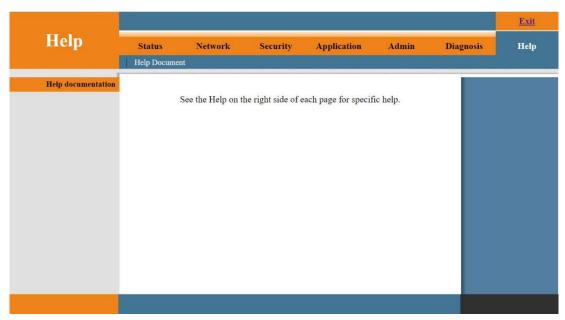


Figure 3-53: Help information



Chapter 4 Examples

4.1 Internet Service

There are two configuration methods for Internet service. One works on Bridge WAN and another works on Route WAN.

4.1.1 Requirement

4.1.1.1 Scenario 1:

Client binds on bridge mode, service VLAN is 10. User client gets IP address from DHCP Server.

4.1.1.2 Scenario 2:

Client binds on route mode, service VLAN is 10. ONU gets IP address by PPPoE.

4.1.2 Steps

For scenario 1 and scenario 2, it needs to configuring VLAN in OLT side and WAN connection in ONU web.

4.1.2.1 Bridge and Route mode for Internet service

In this example, we take Huawei MA5680T for example, to introduce how to configure Internet service.

Huawei MA5680T Configurations

1. Create VLAN

MA5680T(config)#vlan 10 smart

2. Configure uplink port's VLAN

MA5680T(config)#port vlan 10 0/19 1

MA5680T(config)#interface giu 0/19

MA5680T(config-if-giu-0/19)#native-vlan 1 vlan 10

3. Configure DBA profile

MA5680T(config)#dba-profile add profile-id 12 profile-name test type3 assure 102400 max 899968

4. Configure line profile

MA5680T(config)#ont-lineprofile epon profile-id 11 profile-name test

MA5680T(config-epon-lineprofile-11)#llid dba-profile-id 12



MA5680T(config-epon-lineprofile-11)#commit

5. Configure service profile

MA5680T(config)#ont-srvprofile epon profile-id 6 profile-name test

MA5680T(config-epon-srvprofile-6)#ont-port eth 4

MA5680T(config-epon-srvprofile-6)#commit

6. Authorize ONU

MA5680T(config)#interface epon 0/5

MA5680T(config-if-epon-0/5)#ont add 1 0 mac-auth a8bf-3c00-e76a oam ont-lineprofile-id 11 ont-srvprofile-id 6

7. Configure service-port

MA5680**T(config)#service-por**t 27 vlan 10 epon 0/5/1 ont 0 multi-service user-vlan 10

8. Configure ONU bridge mode or Route mode by ONU web

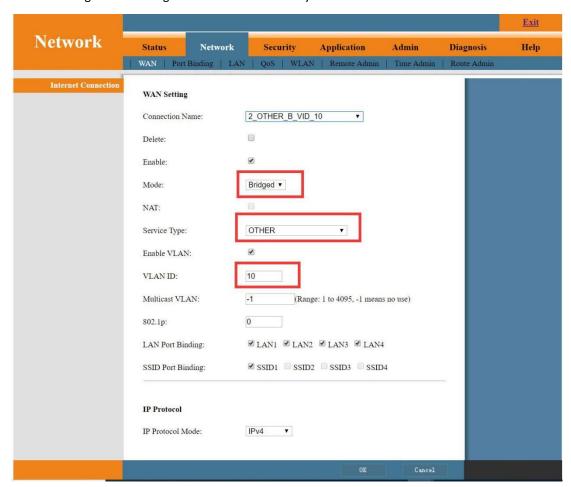


Figure 4-1: Bridge Mode

Attention:

If you choose bridge mode, please binds correct LAN interface.



- Bridge Internet service for client get the IP Address by PPPoE, if client get the IP Address by DHCP, it would get the IP from LAN DHCP Server.
- Bridge Other service for client get the IP Address by DHCP/PPPoE from ISP

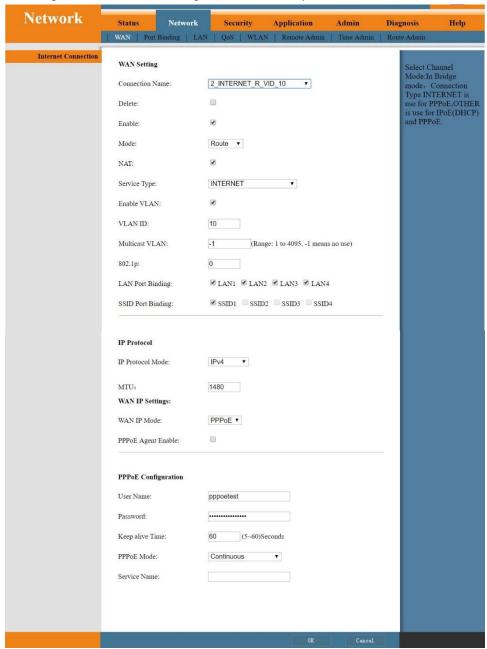


Figure 4-2: Route Mode for PPPoE

Attention:

- If you choose Route mode, please check the service is Internet, otherwise the WAN Connection get the IP address, the user client could not surf the internet.
- Please enable LAN DHCP Server, otherwise user client couldn't get the IP address from LAN DHCP Server.



Chapter 5 FAQ

1. After power, why are all the lights lit?

Reasons:

- a. Power connection errors;
- b. Power is not normal.

Solution:

- a. Check that the power cable is connected;
- b. The rear panel of the power supply is turned on.
- 2. Why does LED of LAN not light?

Reasons:

- a. Network cable is damaged or loose connection;
- b. Cable type errors;
- c. Long lines outside the allowable range.

Solution:

- a. Replace the network cable, and pay attention to the standard Ethernet cable must be parallel or crossing lines.
- 3. Why is LED of LOS always blinking?

Reasons:

- a. Fiber failure;
- b. Center office equipment failure.

Solution:

- a. Inspect fiber is connected property, is connected to the correct connector, optical power is normal;
- b. Contact your operator.
- 4. Why does LED of PON flashes instead of always on?

Reasons:

- a. Fiber optic connector is loose;
- b. Central office equipment failure;
- c. Fiber optic connector is dust.

Solution:

a. Inspect fiber is connected property;



- b. Cotton ball with alcohol swabbing fiber optic connectors;
- c. Contact your operator.
- 5. Why does ONU stop working after working for a long time?

Reasons:

- a. Power supply is not working properly;
- b. The equipment from overheating.

Solution:

- a. Check if there is contact with abnormal voltage is too high or too low;
- b. Check the ambient conditions, vents are nominal ventilation.







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