

## WIFI ONU WEB Configuration

### Single band ONU and Dualband ONU

Brief Introduction

V1.03

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## 1 LAN Setting

Select "LAN" in the navigation bar. On the open page, you can configure the

LAN side. Manage IP addresses and subnet masks. as the picture shows:

The screenshot displays the web interface for LAN configuration. The top navigation bar includes 'Status', 'Network', 'Security', 'Application', 'Manage', and 'Diagnose'. Under 'Network', 'LAN' is selected. The left sidebar shows 'IPv4 Config' and 'IPv6 Config'. The main content area is titled 'Local network configuration' and contains the following settings:

- DHCP on and off of the user side of the initial IP address, lease time (1 minute, 1 hour, 1 day, 1 week), DHCP address range setting, DHCP working mode (DHCP server) setting.
- IP address: 192.168.1.1
- Subnet Mask: 255.255.255.0
- Disable DHCP Server
- Enable DHCP Server
- dhcpstartaddr: 192.168.1.2

The IP address of the LAN-side device must be in the same network segment

as the configured management IP address to access the ONT device through the Web interface for query and configuration management.

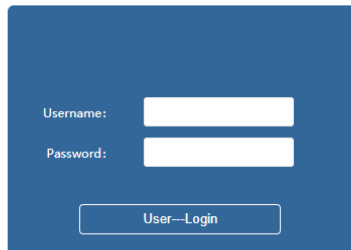
You can use the manual setting method to set the IP address of the device connected to the LAN side to be on the same network segment as the management IP address. Or start the DHCP server and set the IP address of the DHCP address pool on the same network segment as the management IP address.

### 1.1,Login ONU

ONU IP:192.168.1.1

User name:superadmin

Password:superadmin



Username:

Password:

User—Login

### 1.2.ONU WEB

Model: Dualband-XPON-ONU Welcome! [Exit](#)

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[Status](#)   [Network](#)   [Security](#)   [Application](#)   [Manage](#)   [diagnose](#)

[Device Info](#)   [Network Info](#)   [User Info](#)   [voice Info](#)   [Remote status](#)

**Device Info**

<b>Device model:</b>	Dualband-XPON-ONU
<b>Device ID:</b>	249493HWTC08061110
<b>GPON SN:</b>	HWTC08061110
<b>Hardware Version:</b>	V1.0
<b>Software Version:</b>	V1.0.06
<b>OLT Registration Status:</b>	Registration Normal
<b>ONT ID:</b>	0
<b>RMS Registration Status:</b>	Registration normal
<b>Device Access Type:</b>	Gpon Auto mode
<b>Transmitted optical power:</b>	2.9dBm
<b>Received optical power:</b>	-14.7dBm

## 2 WLAN

### 2.1 Basic Settings

Select "WLAN" in the navigation bar.

You can set the basic parameters of the wireless network, you can set the WIFI

SSID and Channel Width.

Other parameters are recommended to use the default configuration

The screenshot displays the 'WLAN configure' page in a web interface. The top navigation bar includes 'Status', 'Network', 'Security', 'Application', 'Manage', and 'Diagnose'. Under 'Network', 'WLAN2.4G' is selected. The left sidebar shows 'WLAN configure' and 'WLAN share'. The main content area contains the following settings:

- Function switch:
- Mode selection: 802.11b/g/n blend
- Channel selection: Auto
- Transmit power regulation: 100%
- SSID index: SSID-1
- SSID enable:
- SSID name: COMMON-HGU
- Bandwidth mode selection: 20 MHZ
- rate: Auto
- Protection interval: Short
- Beacon Beacon frame transmission interval: 100 (Range: 20~1024)
- RTS / CTS boundary: 2347 (Range: 1500~2347)
- Dividing boundary: 2346 (Range: 256~2346, Even number only)
- DTIM Interval: 1 (Range: 1~255)
- Broadcast cancelled:
- security setting: WPA-PSK/WPA2-PSK
- Encryption / authentication configuration: TKIP+AES
- WPA pre authentication shared key: [Redacted]
- WPS enable:
- WPS mode: Start WPS

**Tips:**  
When the security mode is set to WPA / WPA2, the transmitted data is encrypted,  
The key can be set from 8 bits to 63 bits by the user. Operating system support required,

Status		Network		Security		Application		Manage		Diagnose	
WAN		Binding		LAN		QoS		WLAN2.4G		WLAN5G	
Remote		Route									

**WLAN configure**

Function switch:  enable  Disable

Mode selection:

Channel selection:

Transmit power regulation:

SSID\_INDEX:

SSID:

BeaconInterval:  (Range: 20~1024)

RTS/CTS limit:  (Range: 1500~2347)

Dividing boundary:  (Range: 256~2346, Even number only)

DTIM interval:  (Range: 1~255)

Bandwidth mode selection:

Extended channel:

Protection interval:

MCS:

VHT bandwidth:

VHT protection interval:

Broadcast enable:  enable  Disable

security setting:

Encryption / authentication configuration:

WPA pre authentication shared key:  (8-63 characters or 64 hexadecimal strings)

WPS enable:  enable  Disable

WPS mode:

### 3 WAN

Select "WAN" in the navigation bar. On the page that opens, check Enable VLAN to create a WAN connection.

The screenshot displays the WAN configuration page in the SmartFiber web interface. The navigation bar at the top includes Status, Network, Security, Application, Manage, and Diagnose. The Network section is active, showing options for WAN, Binding, LAN, QoS, WLAN2.4G, WLAN5G, Remote, and Route. The WAN configuration form includes the following fields and options:

- Connection Name: 2\_OTHER\_B\_VID\_ (dropdown menu)
- Mode: Route (dropdown menu)
- Service: OTHER (dropdown menu)
- Binding options:  LAN1,  LAN2,  LAN3,  LAN4,  SSID-1,  SSID-5
- DHCP Server Enable:
- Link mode: PPPoE (dropdown menu)
- IPversion:  IPv4,  IPv6,  IPv4/IPv6
- VLAN Mode: TRANSPARENT (dropdown menu)
- Multicast VLAN[1-4094]: [ ]
- MTU[1280-1492]: 1492
- Enable NAT:
- Username: [ ]
- Password: [ ]
- Service name: [ ]
- PPPoE routing bridge mixed mode enabled:
- IPv6 WAN Information Acquisition Method: SLAAC (dropdown menu)
- PD Enable:

Buttons: Add, Delete, Apply, Canle.





Configure the routing mode WAN parameter description as shown in the table

● PON WAN

Parameter	Description
Enable VLAN	Whether to enable the VLAN function.
VLAN ID	VLAN ID, in the range of 1 to 4094. The value of the VLAN ID set here needs to be with the OLT  The user ID of the user side is the same.
802.1p_Mark	The value of 802.1p, in the range of 0 to 7.
Channel Mode	Bridge : bridge mode  IPOE: router mode ,DHCP client WAN  PPPOE: router mode ,PPPOE WAN
	6rd: IPv6 Rapid Deployment
Enable QoS:	QoS setting
Admin Status:	Enable or disable the WAN

Connection Type:	Choose according to business needs: OTHER (for bridge mode) TR069、 INTERNET、 TR069_INTERNET、 VOICE、 VOICE_TR069、 VOICE_INTERNET、 VOICE_INTERNET_TR069
disable Lan dhcp	Disable Lan dhcp It is recommended to use the default value
MTU:	Maximum Transmission Unit It is recommended to use the default value
Default Route:	Only one WAN can be setted to default route
Enable MLD-Proxy::	Enable this if the WAN need to run IPTV
IP Protocol:	IPv4 IPv6 IPv4/IPv6 It is recommended to use the default value

	If you are using IPv6, this parameter can be configured to IPv4/IPv6
--	--

## ● WAN IP Settings:

Fixed IP : you need to configure all fixed IP parameters here.

DHCP: Dynamic Host Configuration Protocol, No need to set parameters. PPPoE: You need to configure the PPPoE username and password. Other parameters are recommended to use the default value.

## ● Port Mapping:

Set the mapping between WAN and LAN interfaces and WiFi interfaces.

Binding options:  LAN1  LAN2  LAN3  LAN4  
 SSID-1  
 SSID-5

## 🚩 WAN Configuration suggestions:

**Broadband Settings—Route:** The ONT is used as a gateway device. The IP address of the ONT can be obtained in three ways: DHCP, Static, and PPPoE. The IP address of the device connected to the user side is obtained through the

DHCP address pool of the ONT or manually.

**Broadband Settings—Bridge:** The ONT does not obtain the IP address assigned

by the upper device, nor can it manually set the static IP address.

At this time, it is used as a relay device, and data is not processed. There are three ways to obtain the IP address of the device connected to the user side.

Do not set for DHCP, PPPoE or manual.

I When the user-side IP address is selected as the DHCP mode, you need to set the DHCP relay. After the setting is successful, the user side is configured.

The IP address can be obtained from the upper device.

I When the IP address of the user is selected as the PPPoE mode, the IP address of the user is obtained through the upper-layer PPPoE authentication.

## 4 Configuring services on the WEB page

### Precondition:

The Layer 2 service flow of the OLT and the ONT has been opened through the OLT command line or OLT Equipment Management System.

### 4.1 Configure the Internet service

Key data plan		
Item	Data	Remark
Layer 3 routing	Service list: INTERNET Connection type: PPPoE VLAN ID: 100 (to be consistent with the user-side VLAN ID configured on the OLT) IP address acquisition method: PPPoE (user name: user, password: 111111) 802.1p priority: 0 NAT function: On Bind port: LAN1 WLAN0(LAN1 is a three-layer mode LAN)	The service type needs to choose INTERNET or a combination with INTERNET. The PPPoE username and password are the same as those of the upper BRAS.

Status		Network		Security		Application		Manage		Diagnose	
WAN		Binding		LAN		QoS		WLAN2.4G		WLAN5G	
Remote		Route									
<b>Network setting</b>		Connection Name:		2_OTHER_B_VID_						<a href="#">Add</a>	
Mode:		Route		Enable:		<input checked="" type="checkbox"/>					
Service:		INTERNET									
Binding options:		<input type="checkbox"/> LAN1 <input type="checkbox"/> LAN2 <input type="checkbox"/> LAN3 <input type="checkbox"/> LAN4		<input type="checkbox"/> SSID-1		<input type="checkbox"/> SSID-5					
DHCP Server Enable:		<input checked="" type="checkbox"/>									
Link mode:		PPPoE									
IPversion:		<input type="radio"/> IPv4 <input type="radio"/> IPv6 <input checked="" type="radio"/> IPv4/IPv6									
VLAN Mode:		TRANSPARENT									
Multicast VLAN[1-4094]:		<input type="text"/>									
MTU[1280-1492]:		1492									
Enable NAT:		<input checked="" type="checkbox"/>									
Username:		<input type="text" value="13686800918"/>									
Password:		<input type="password" value="....."/>									
Service name:		<input type="text"/>									
PPPoE routing bridge mixed mode enabled:		<input type="checkbox"/>									
IPv6 WAN Information Acquisition Method:		SLAAC									
PD Enable:		<input checked="" type="checkbox"/>									
prefix mode:		<input checked="" type="radio"/> Auto <input type="radio"/> Manual									
DS-Lite enable:		<input type="checkbox"/>									
		<a href="#">Delete</a>									

## 4.2 Configuring Layer2 IPTV services

Key data plan		
Item	Data	Remark
Layer 2 bridging IPTV service	Service list: INTERNET Connection type: bridged VLAN ID: 100 (to be consistent with the user-side VLAN ID configured on the OLT) 802.1p priority: 0 NAT function: OFF Bind port: LAN2 (LAN2 is a layer 2 mode LAN)	IPTV Box connected to LAN2 can get a address from the DHCP server above the OLT ONU is only bridging the data



**Status**   **Network**   **Security**   **Application**   **Manage**   **Diagnose**

WAN   Binding   LAN   QoS   WLAN2.4G   WLAN5G   Remote   Route

**Network setting**

Connection Name: 2\_INTERNET\_B\_VID\_100 Add

Mode: Bridge   Enable:

Service: INTERNET

Binding options:  LAN1    LAN2    LAN3    LAN4  
 SSID-1  
 SSID-5

DHCP Server Enable:

IPversion:  IPv4    IPv6    IPv4/IPv6

bridgeMode: IP\_Bridged

EnableDHCPRealy:

VLAN Mode: TAG

VLAN ID[1-4094]: 100

802.1p[0-7]:  Enable   0

Multicast VLAN[1-4094]:

MTU[1280-1500]: 1492

Delete

Apply   Canle

Connection Name	Connection status	IP Address	Subnet Mask
1_TR069_R_VID_46	Connecting	-	-
2_INTERNET_B_VID_100	Connected	-	-

Connection Name	Connection status	IP Acquisition Method
1_TR069_R_VID_46	automatic	DHCP
2_INTERNET_B_VID_100	automatic	-

Connection Name	VLAN/priority	MAC Address
1_TR069_R_VID_46	46/7	24:94:93:10:EA:CD
2_INTERNET_B_VID_100	100/0	-

Connection Name	Default Gateway	Preferred DNS	Standby DNS
1_TR069_R_VID_46	-	-	-
2_INTERNET_B_VID_100	-	-	-

### 4.3 Configuring Layer3 IPTV Services

Key data plan		
Item	Data	Remark
Layer 3 route IPTV service	Service list: INTERNET Connection type: IPOE VLAN ID: 100 (to be consistent with the user-side VLAN ID configured on the OLT) 802.1p priority: 0 NAT function: ON IGMP-Proxy:ON MLD-Proxy:ON Bind port: LAN3 (LAN3 is a layer 3 mode LAN)	IPTV Box connect to LAN3

	Status	Network	Security	Application	Manage	Diagnose
	WAN	Binding	LAN	QoS	WLAN2.4G	WLAN5G
					Remote	Route

**Network setting**

Connection Name:  Add

Mode:  Enable:

Service:

Binding options:  LAN1  LAN2  LAN3  LAN4  
 SSID-1  
 SSID-5

DHCP Server Enable:

Link mode:

IPversion:  IPv4  IPv6  IPv4/IPv6

DHCP Get an IP address automatically from ISP.  
 Static Configure a static IP to you through ISP.

VLAN Mode:

VLAN ID[1-4094]:

802.1p[0-7]:  Enable

Multicast VLAN[1-4094]:

MTU[1280-1500]:

Enable NAT:

IPv6 WAN Information Acquisition Method:

PD Enable:

prefix mode:  Auto  Manual

DS-Lite enable:

Delete Apply Canle

#### 4.4 Configuring VoIP services

Key data plan		
Item	Data	Remark
Layer 3	Service list: VOICE_INTERNET Connection type: IPOE VLAN ID: 100 (to be consistent with the user-side VLAN ID configured on the OLT) 802.1p priority: 0 NAPT function: ON VoIP Server Info:IP,PORT,ID>Password	

Status		Network		Security		Application		Manage		Diagnose	
WAN		Binding		LAN		QoS		WLAN2.4G		WLAN5G	
<b>Network setting</b>											
Connection Name:		2_INTERNET_B_VID_100						<input type="button" value="Add"/>			
Mode:		Route						Enable: <input checked="" type="checkbox"/>			
Service:		VOIP									
Link mode:		IPoE									
IPversion:		<input type="radio"/> IPv4 <input type="radio"/> IPv6 <input checked="" type="radio"/> IPv4/IPv6									
<input checked="" type="radio"/> DHCP		Get an IP address automatically from ISP.									
<input type="radio"/> Static		Configure a static IP to you through ISP.									
VLAN Mode:		TAG									
VLAN ID[1-4094]:		100									
802.1p[0-7]:		<input checked="" type="checkbox"/> Enable 0									
MTU[1280-1500]:		1500									
IPv6 WAN Information Acquisition Method:		SLAAC									
<input type="button" value="Delete"/>											
						<input type="button" value="Apply"/>		<input type="button" value="Canle"/>			

Status		Network		Security		Application		Manage		Diagnose	
DDNS		NATset		VOIP		IGMP		UPnP			
<b>VOIP Configuration</b>											
<b>Basic Configuration</b>											
Outbound Proxy Server Address:	<input type="text" value="10.2.2.1"/>	(IP/Domain name)									
Outbound Proxy Server Port:	<input type="text" value="5060"/>	(1-65535)									
Secondary Outbound Proxy Server	<input type="text" value="10.2.2.1"/>	(IP/Domain name)									
Secondary Outbound Proxy Server Port:	<input type="text" value="5060"/>	(1-65535)									
Registrar Server Address:	<input type="text"/>	(IP/Domain name)									
Registrar Server Port:	<input type="text" value="5060"/>	(1-65535)									
Secondary Registrar Server:	<input type="text"/>	(IP/Domain name)									
Secondary Registrar Server Port:	<input type="text" value="5060"/>	(1-65535)									
Register server address:	<input type="text"/>	(IP/Domain name)									
Register server port number:	<input type="text" value="5060"/>	(1-65535)									
Alternate register server address:	<input type="text"/>	(IP/Domain name)									
Alternate register server port number:	<input type="text" value="5060"/>	(1-65535)									
Domain name attribute:	<input type="text"/>	(IP/Domain name)									
Alternate domain name properties:	<input type="text"/>	(IP/Domain name)									
transport protocol:	<input type="text" value="UDP"/>	▼									
DigitMapEnable:	<input checked="" type="checkbox"/>										
digitmap:	<input type="text" value="x.T"/>										
Session update cycle:	<input type="text" value="30"/>	(Unit: minutes)									
The interval between registration retries:	<input type="text" value="30"/>	(Unit: seconds)(1-65534)									
Registration cycle:	<input type="text" value="3600"/>	(Unit: seconds)(1-65534)									

## 4.5 Configing TR-069 Management

Key data plan		
Item	Data	Remark
TR-069 Layer 3	Service list: INTERNET_TR069 Connection type: IPOE VLAN ID: 100 (to be consistent with the user-side VLAN ID configured on the OLT) 802.1p priority: 0 NAPT function: ON ACS Server Info:URL , username,password Local Client Info need to configure on ACS:username password	

**Status**   **Network**   **Security**   **Application**   **Manage**   **Diagnose**

WAN   Binding   LAN   QoS   WLAN2.4G   WLAN5G   Remote   Route

**Network setting**

Connection Name: 2\_INTERNET\_B\_VID\_100 Add

Mode: Route Enable:

Service: TR069\_INTERNET

Binding options:  LAN1  LAN2  LAN3  LAN4  
 SSID-1  
 SSID-5

DHCP Server Enable:

Link mode: IPoE

IP version:  IPv4  IPv6  IPv4/IPv6  
 DHCP Get an IP address automatically from ISP.  
 Static Configure a static IP to you through ISP.

VLAN Mode: TAG

VLAN ID[1-4094]: 100

802.1p[0-7]:  Enable 0

Multicast VLAN[1-4094]:

MTU[1280-1500]: 1500

Enable NAT:

IPv6 WAN Information Acquisition Method: SLAAC

PD Enable:

prefix mode:  Auto  Manual

D5-Lite enable:

Delete

Apply Cancel



**Status** **Network** **Security** **Application** **Manage** **Diagnose**

WAN Binding LAN QoS WLAN2.4G WLAN5G Remote Route

**Management server**

**Authentication**

Cycle notification  Disable  enable

Cycle notification interval[0 - 2147483647]:

Server domain name / IP address and port:

Username:

Password:

ConnectionRequestUsername:

ConnectionRequestPassword:

Password authentication mode  Disable  enable

Enable certificate function  Disable  enable  
(Gateway did not load certificate file!)

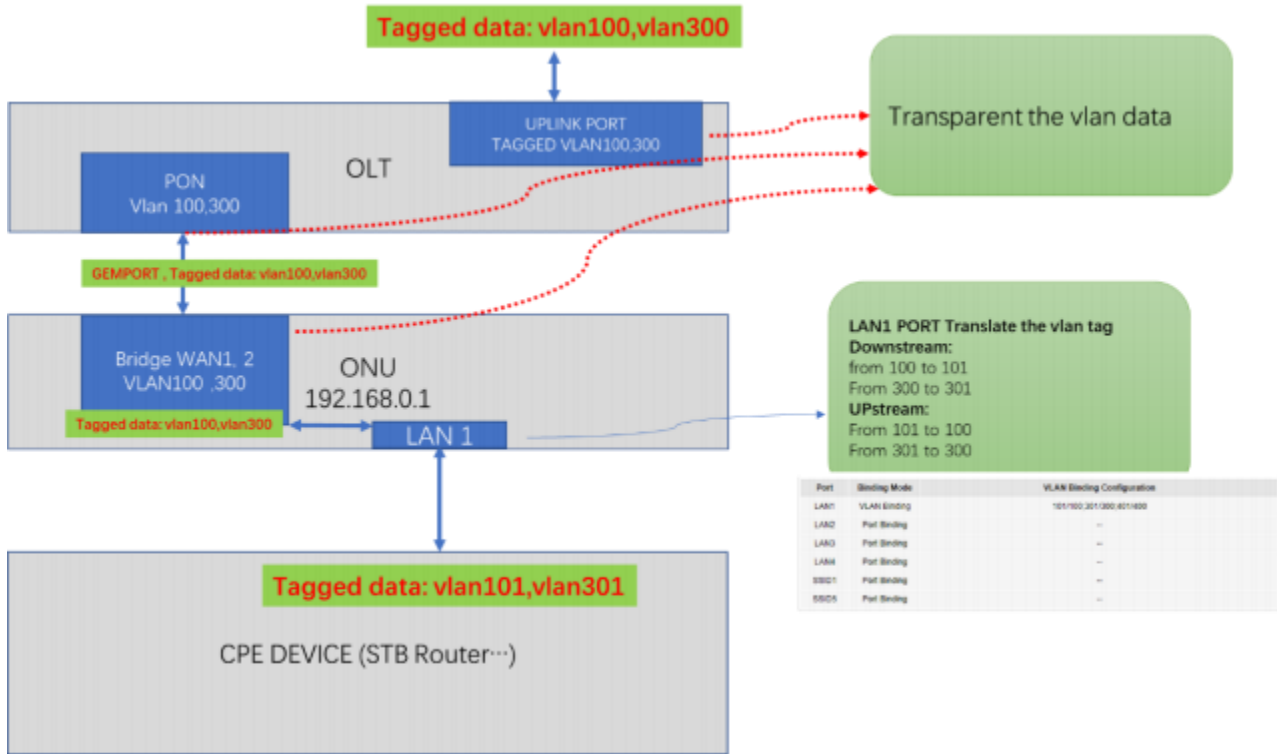
File path [maximum 128 characters]:

certificate file does not exist, please upload first!

### 4.6 Configuring vlan transparent transmit

You may need to upgrade the corresponding FW version.

Data transmission diagram:



You can add more WAN , configured to Bridged mode , **do not set port mapping of WAN.**

The screenshot displays the 'Network setting' page in the SmartFiber web interface. The 'WAN' tab is selected, and a configuration for a connection named '2\_INTERNET\_B\_VID\_100' is shown. The 'Mode' is set to 'Bridge' and the 'Service' is 'INTERNET'. The 'VLAN ID[1-4094]' is set to '100'. The 'bridgeMode' is 'IP\_Bridged'. The 'VLAN Mode' is 'TAG'. The '802.1p[0-7]' is set to 'Enable' with a value of '0'. The 'MTU[1280-1500]' is '1492'. There are 'Add', 'Delete', 'Apply', and 'Cancel' buttons.

Step 2 – Set LAN VLAN Mapping

Model: Dualband-XPON-ONU Welcome! [Logout](#)

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**Status**   **Network**   **Security**   **Application**   **Manage**   **Diagnose**

WAN   Binding   LAN   QoS   WLAN2.4G   WLAN5G   Remote   Route

**binding configure**

You can do VLAN binding. The VLAN values are set in m1/n1 VLAN pairs, where M1 represents the user-side vlan, N1 represents the interface vlan, and groups of VLAN pairs are separated by commas.

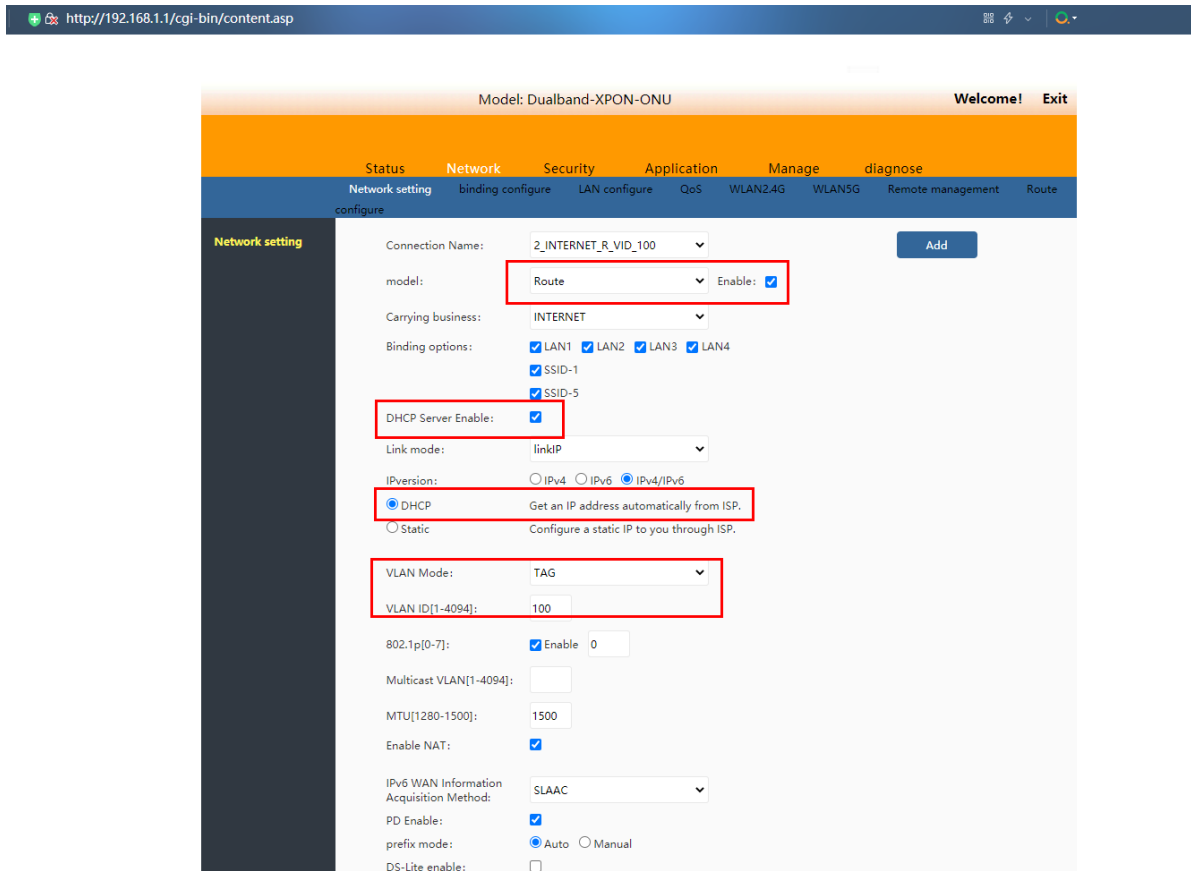
prot	binding mode	VLAN binding
LAN1	Port Binding	--
LAN2	Port Binding	--
LAN3	Port Binding	--
LAN4	Port Binding	--
SSID-1	Port Binding	--
SSID-5	Port Binding	--

**VLAN Binding Configuration**

You can undertake the operation of the VLAN binding, the value of the VLAN Settings in m1 / n1 VLAN on way. m1 represents the user side of the VLAN, n1 represents the interface of the VLAN, multiple sets of VLAN in separated by commas.

## 4.7 WAN remote

Config onu route mode.



Check wan ip

http://192.168.1.1/cgi-bin/content.asp

Model: Dualband-XPON-ONU Welcome! Exit

[Status](#)   [Network](#)   [Security](#)   [Application](#)   [Manage](#)   [diagnose](#)

[Device Info](#)   [Network Info](#)   [User Info](#)   [voice Info](#)   [Remote status](#)

**IPv4 Connection**

Connection Name	Connection status	IP Address	Subnet Mask
1_TR069_R_VID_46	Connecting	-	-
2_INTERNET_R_VID_100	Connected	192.168.0.7	255.255.255.0

**IPv6 Connection**

Connection Name	Connection status	IP Acquisition Method
1_TR069_R_VID_46	automatic	DHCP
2_INTERNET_R_VID_100	automatic	DHCP

**PON Connection**

Connection Name	VLAN/priority	MAC Address
1_TR069_R_VID_46	46/7	-
2_INTERNET_R_VID_100	100/0	A6:88:08:06:11:12

Connection Name	Default Gateway	Preferred DNS	Standby DNS
1_TR069_R_VID_46	-	-	-
2_INTERNET_R_VID_100	192.168.0.1	192.168.0.1	-

Wan remote:

Browser address bar: <http://192.168.0.7/cgi-bin/content.asp>

Model: Dualband-XPON-ONU Welcome! [Exit](#)

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Status   Network   Security   Application   Manage   diagnose

Device Info   Network Info   User Info   voice Info   Remote status

**IPv4 Connection**

IPv6 Connection

PON Connection

Connection Name	Connection status	IP Address	Subnet Mask
1_TR069_R_VID_46	Connecting	-	-
2_INTERNET_R_VID_100	Connected	192.168.0.7	255.255.255.0

Connection Name	Connection status	IP Acquisition Method
1_TR069_R_VID_46	automatic	DHCP
2_INTERNET_R_VID_100	automatic	DHCP

Connection Name	VLAN/priority	MAC Address
1_TR069_R_VID_46	46/7	-
2_INTERNET_R_VID_100	100/0	A6:8B:08:06:11:12

Connection Name	Default Gateway	Preferred DNS	Standby DNS
1_TR069_R_VID_46	-	-	-
2_INTERNET_R_VID_100	192.168.0.1	192.168.0.1	-