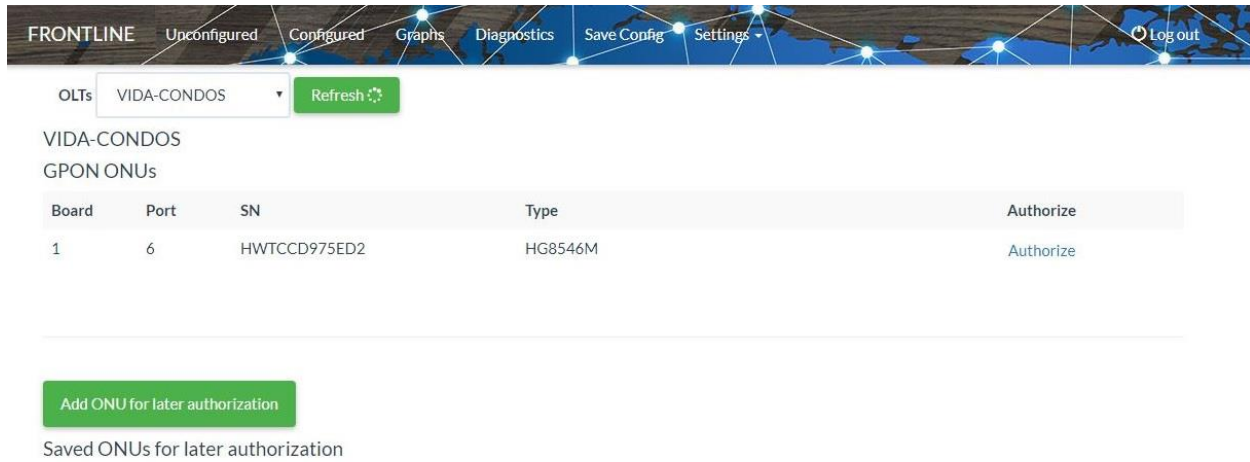


*****Internet Setup*****

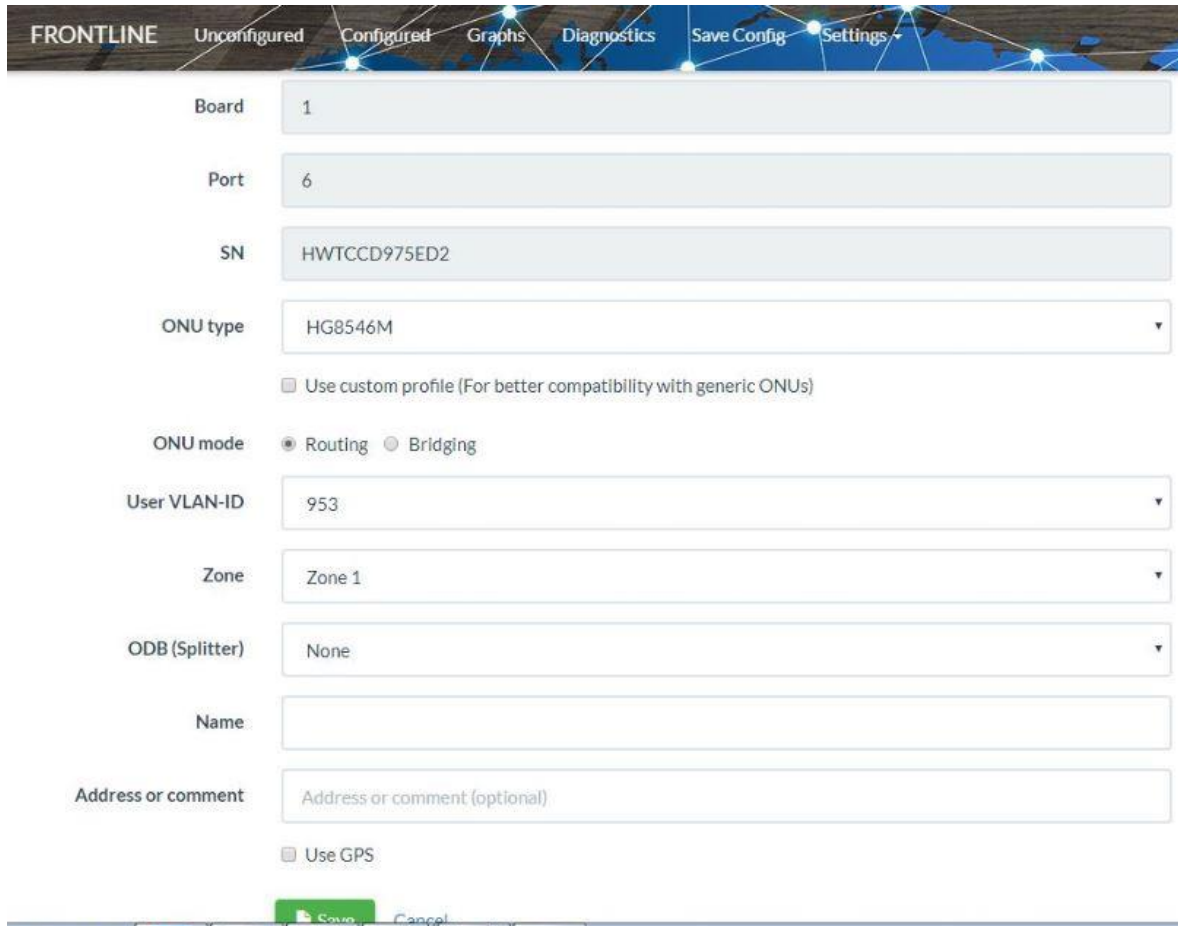
1. After you setup the fibre modem you will see the Modem information under the **Unconfigured** Tab in SmartOLT.



The screenshot shows the 'Unconfigured' tab in the SmartOLT interface. At the top, there's a navigation bar with 'FRONTLINE', 'Unconfigured', 'Configured', 'Graphs', 'Diagnostics', 'Save Config', and 'Settings'. Below this, there's a dropdown menu for 'OLTs' set to 'VIDA-CONDOS' and a 'Refresh' button. The main content area is titled 'VIDA-CONDOS GPON ONUs' and contains a table with columns: Board, Port, SN, Type, and Authorize. The table has one row with values: Board 1, Port 6, SN HWTCCD975ED2, Type HG8546M, and Authorize. Below the table, there's a green button 'Add ONU for later authorization' and a text label 'Saved ONUs for later authorization'.

Board	Port	SN	Type	Authorize
1	6	HWTCCD975ED2	HG8546M	Authorize

2. On this page you can add Alias name under the **Name**,
User VLAN-ID: Select the Vlan for internet
ONU Mode: Select Routing
Click the **SAVE** Button.



The screenshot shows the 'Add ONU for later authorization' form in the SmartOLT interface. The form has the following fields and options:

- Board**: 1
- Port**: 6
- SN**: HWTCCD975ED2
- ONU type**: HG8546M (dropdown menu)
- ☐ Use custom profile (For better compatibility with generic ONUs)
- ONU mode**: ☒ Routing ☐ Bridging
- User VLAN-ID**: 953 (dropdown menu)
- Zone**: Zone 1 (dropdown menu)
- ODB (Splitter)**: None (dropdown menu)
- Name**: (empty text field)
- Address or comment**: Address or comment (optional) (text field)
- ☐ Use GPS

At the bottom, there are 'Save' and 'Cancel' buttons.

3. In order for the internet to work select **Setup-via ONU webpage**

FRONTLINE Unconfigured Configured Graphs Diagnostics Save Config Settings

OLT: VIDA-CONDOS
Board: 1
Port: 6
ONU: gpon-onu_0/1/6:0
SN: HWTCCD975ED2
ONU type: HG8546M
Zone: Zone 1
ODB (Splitter): None
Name: Test_621
Address or comment: None
Authorization date: 2020-01-06 13:02:14 History

Status: Online
ONU/OLT Rx signal: -13.62 dBm / -15.76 dBm
Attached VLANs: 953
ONU mode: Routing - WAN vlan: 953
Mgmt IP: Inactive
WAN setup mode: **Setup via ONU webpage**

Status: Get status Show running-config SW info LIVE!

Traffic/Signal: gpon-onu_0/1/6:0 daily traffic

bits per second

Upload Current: -nan Maximum: -nan
Download Current: -nan Maximum: -nan

Speed profiles

Service-port ID	User-VLAN	Download	Upload	Action
4	953	1G	1G	Configure

4. Select the options as described below.

Update ONU mode

WAN VLAN-ID: 953 - Internet

After changing the WAN VLAN-ID, please check the Ethernet ports settings and update VLANs as desired.

ONU mode: ☒ Routing ☐ Bridging

WAN mode: ☐ Setup via ONU webpage

Settings for original ZTE ONUs:

☒ DHCP ☐ Static IP ☐ PPPoE

Close Update

5. Refresh the page and Now you will see the IP assigned to the modem.

FRONTLINE

Unconfigured

Configured

Graphs

Diagnostics

Save Config

Settings

OLTVIDA-CONDOS

Board1

Port6

ONUgpon-onu_0/1/6:0

SNHWTCCD975ED2

ONU typeHG8546M


ZoneZone 1

ODB (Splitter)None

NameTest_621

Address or commentNone

Authorization date2020-01-06 13:02:14 History



StatusOnline

ONU/OLT Rx signal-13.58 dBm / -15.79 dBm

Attached VLANs953

ONU modeRouting - WAN vlan: 953

Mgmt IPInactive

WAN setup modeDHCP - 38.117.116.4

Status

Get status


Show running-config

SW info

LIVE!

Traffic/Signal

gpon-onu_0/1/6:0 daily traffic



Upload

Current: -nan

Maximum: -nan

Download

Current: -nan

Maximum: -nan

Speed profiles

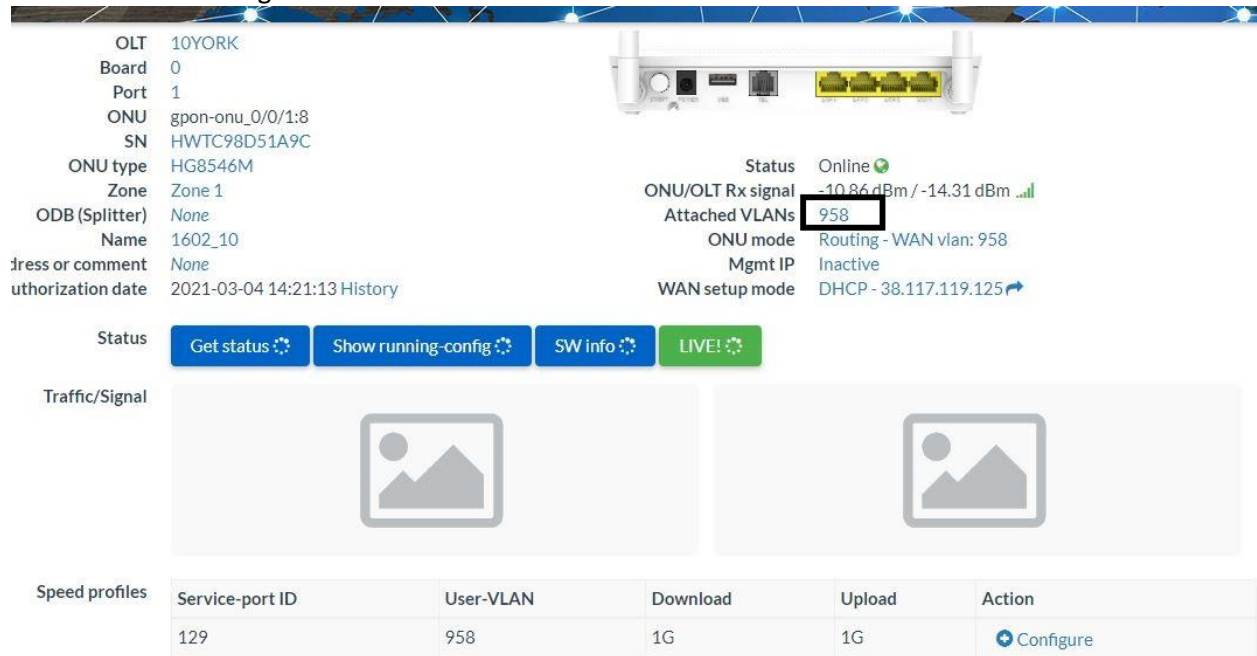
Service-port ID	User-VLAN	Download	Upload	Action
4	953	1G	1G	Configure

Ethernet ports




Port	Speed	Mode	Link
1	1000	Full	Up
2	1000	Full	Up
3	1000	Full	Up
4	1000	Full	Up

*****VOIP Setup for D900/Yealink*****



1. After creating Internet services click on **Attached VLANs**




OLT: 10YORK
Board: 0
Port: 1
ONU: gpon-onu_0/0/1:8
SN: HWTC98D51A9C
ONU type: HG8546M
Zone: Zone 1
ODB (Splitter): None
Name: 1602_10
Address or comment: None
Authorization date: 2021-03-04 14:21:13 History

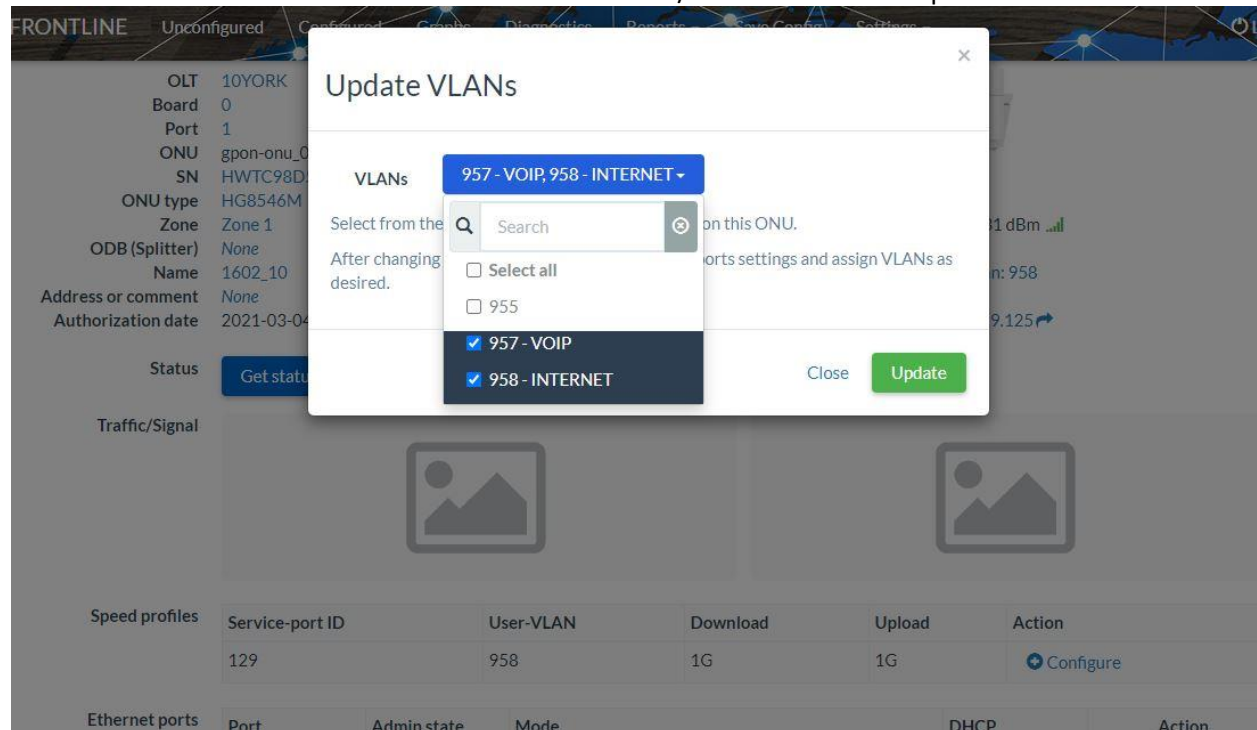
Status: Online 
ONU/OLT Rx signal: -10.86 dBm / -14.31 dBm 
Attached VLANs: **958**
ONU mode: Routing - WAN vlan: 958
Mgmt IP: Inactive
WAN setup mode: DHCP - 38.117.119.125 

Buttons: Get status, Show running-config, SW info, LIVE!

Traffic/Signal:  



Service-port ID	User-VLAN	Download	Upload	Action
129	958	1G	1G	 Configure

2. Now select VLAN associated with VOIP for D900/Yealink Phone and update it.



Update VLANs


VLANs: 957 - VOIP, 958 - INTERNET

Select from the  Search  on this ONU.

After changing, you can select the ports settings and assign VLANs as desired.

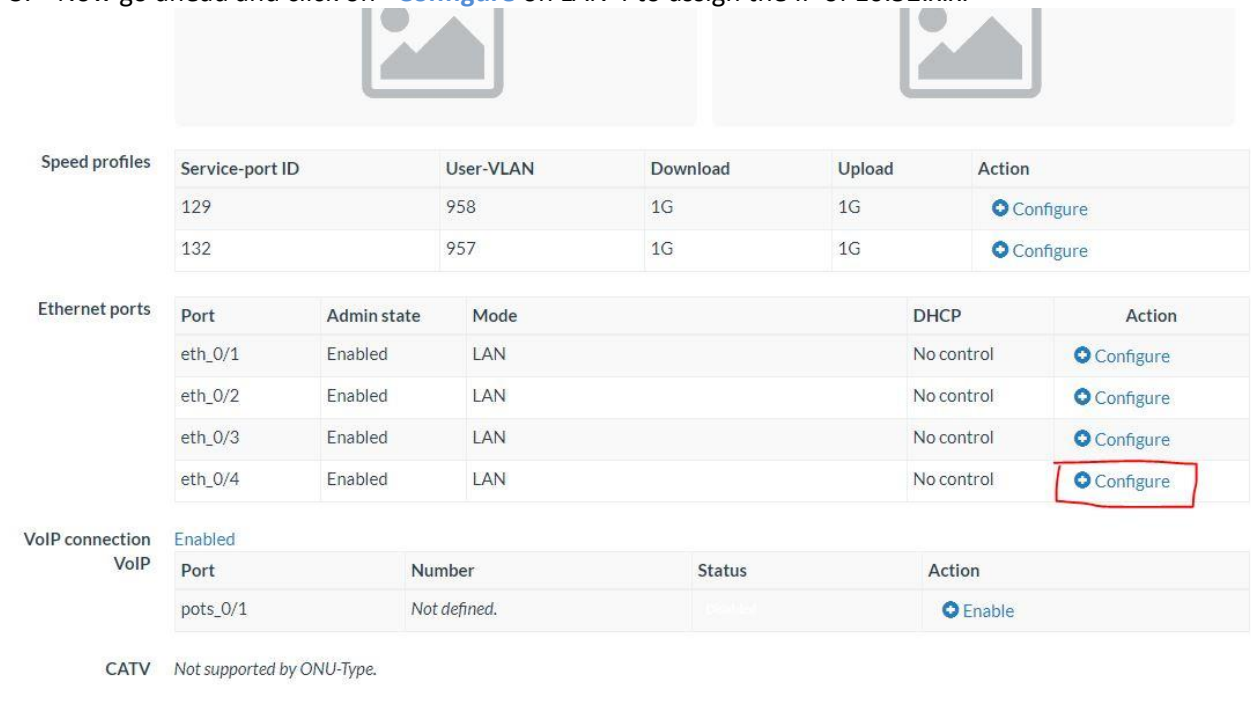
☐ Select all
☐ 955
☒ 957 - VOIP
☒ 958 - INTERNET

Buttons: Close, Update

Service-port ID	User-VLAN	Download	Upload	Action
129	958	1G	1G	 Configure

Port	Admin state	Mode	DHCP	Action
------	-------------	------	------	--------

3. Now go ahead and click on **+Configure** on LAN 4 to assign the IP of 10.52.x.x.



The screenshot displays the network configuration interface. At the top, there are two placeholder images for speed profiles. Below them, the 'Speed profiles' section contains a table with columns: Service-port ID, User-VLAN, Download, Upload, and Action. The table lists two profiles: 129 (User-VLAN 958, 1G download/upload) and 132 (User-VLAN 957, 1G download/upload), each with a '+ Configure' link. The 'Ethernet ports' section contains a table with columns: Port, Admin state, Mode, DHCP, and Action. It lists four ports (eth_0/1 to eth_0/4), all with 'Enabled' admin state and 'LAN' mode. The DHCP column shows 'No control' for all ports. The '+ Configure' link for eth_0/4 is highlighted with a red rectangle. The 'VoIP connection' section shows 'VoIP' as 'Enabled' and a table with columns: Port, Number, Status, and Action. It lists 'pots_0/1' with 'Not defined' number and 'Control' status, with an '+ Enable' link. At the bottom, a note states 'CATV Not supported by ONU-Type.'

Service-port ID	User-VLAN	Download	Upload	Action
129	958	1G	1G	+ Configure
132	957	1G	1G	+ Configure

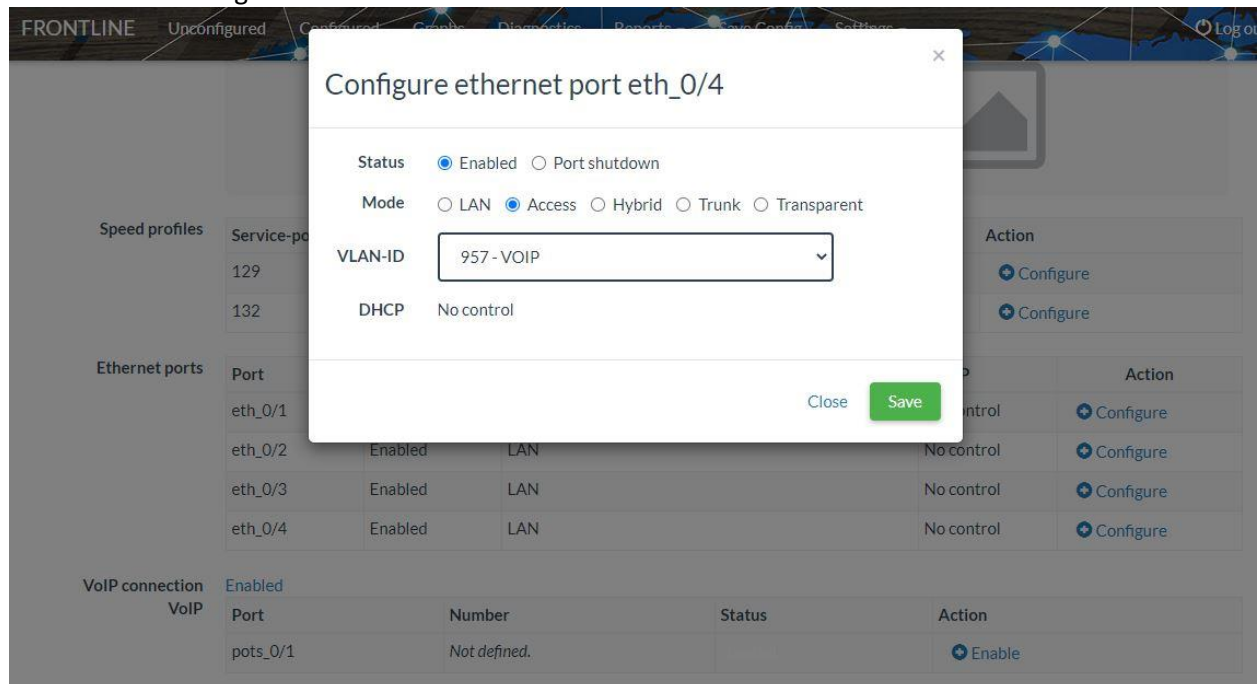
Port	Admin state	Mode	DHCP	Action
eth_0/1	Enabled	LAN	No control	+ Configure
eth_0/2	Enabled	LAN	No control	+ Configure
eth_0/3	Enabled	LAN	No control	+ Configure
eth_0/4	Enabled	LAN	No control	+ Configure

VoIP connection: Enabled

Port	Number	Status	Action
pots_0/1	Not defined.	Control	+ Enable

CATV Not supported by ONU-Type.

4. Make the changes as mentioned below.



The screenshot shows the 'Configure ethernet port eth_0/4' dialog box. The 'Status' is set to 'Enabled' (radio button selected). The 'Mode' is set to 'Access' (radio button selected). The 'VLAN-ID' is set to '957 - VOIP' (dropdown menu). The 'DHCP' is set to 'No control'. The dialog box has 'Close' and 'Save' buttons. The background shows the same network configuration interface as the previous screenshot, but it is dimmed.

Configure ethernet port eth_0/4

Status: ☒ Enabled ☐ Port shutdown

Mode: ☐ LAN ☒ Access ☐ Hybrid ☐ Trunk ☐ Transparent

VLAN-ID: 957 - VOIP

DHCP: No control

Close Save

5. In the **WAN** tab select **4_INTERNET_R_VID_956** AND disable the **LAN4** for VOIP connection

	Connection Name	VLAN/Priority	Protocol Type
<input type="checkbox"/>	2_VOIP_R_VID_956	956/2	IPv4
<input type="checkbox"/>	3_OTHER_B_VID_52	52/7	IPv4
<input checked="" type="checkbox"/>	4_INTERNET_R_VID_958	958/0	IPv4
<input type="checkbox"/>	5_TR069_R_VID_956	956/2	IPv4

Basic Information

Enable WAN: ☒

Encapsulation Mode: ☒ IPoE ☐ PPPoE

Protocol Type: IPv4

WAN Mode: Route WAN

Service Type: INTERNET

Enable VLAN: ☒

VLAN ID: 958 *(1-4094)

802.1p Policy: Use the specified value

802.1p: 0

MTU: 1500 (1-1540)

Binding Options: ☒ LAN1 ☒ LAN2 ☒ LAN3 ☐ LAN4 ☒ SSID1 ☐ SSID2 ☐ SSID3 ☐ SSID4

IPv4 Information

IP Acquisition Mode: ☐ Static ☒ DHCP ☐ PPPoE

Enable NAT: ☒

NAT type: Port-restricted cone NAT

Vendor ID: dsiforum.org (consists of 0-64 characters.)

User ID: (option 61; consists of 0-64 characters.)

Enable DNS Override: ☐

Multicast VLAN ID: (0-4094; 0 indicates untagged VLAN.)

Apply Cancel

6. In the **LAN** tab disable the **LAN4** this will broadcast 10.52.X.X IP on **LAN 4** of modem.

HG8546M Logout

Status WAN **LAN** IPv6 WLAN Security Route Forward Rules Network Application Voice System Tools Bundle

LAN Port Work Mode LAN > LAN Port Work Mode

LAN Host Configuration

DHCP Server Configuration

DHCP Server Option Configuration

DHCP Static IP Configuration

On this page, you can configure LAN ports as Layer 3 ports by selecting the corresponding check boxes. The Layer 3 ports will be assigned as HG ports.

☒ LAN1 ☒ LAN2 ☒ LAN3 ☐ LAN4

Apply Cancel

*****Voice (Analog) phone line*****

1. Click on **Disabled** under “VoIP Connection” for Voice setup

The screenshot displays a network configuration page. At the top, there are two placeholder images for profile pictures. Below them, the 'Speed profiles' section contains a table with columns: Service-port ID, User-VLAN, Download, Upload, and Action. The table lists two profiles: 129 (User-VLAN 958) and 132 (User-VLAN 957), both with 1G download and upload speeds, and a 'Configure' link. The 'Ethernet ports' section contains a table with columns: Port, Admin state, Mode, DHCP, and Action. It lists four ports (eth_0/1 to eth_0/4), all with 'Enabled' admin state, 'LAN' mode, 'No control' DHCP, and a 'Configure' link. The 'VoIP connection' section shows 'CATV' as the connection type and 'Disabled' as the status, with a note 'Not supported by ONU-Type.' Below this are five buttons: 'Reboot', 'Resync config', 'Restore defaults', 'Disable ONU', and 'Delete'.

Service-port ID	User-VLAN	Download	Upload	Action
129	958	1G	1G	Configure
132	957	1G	1G	Configure

Port	Admin state	Mode	DHCP	Action
eth_0/1	Enabled	LAN	No control	Configure
eth_0/2	Enabled	LAN	No control	Configure
eth_0/3	Enabled	LAN	No control	Configure
eth_0/4	Enabled	LAN	No control	Configure

VoIP connection: **Disabled**
CATV: Not supported by ONU-Type.

[Reboot](#) [Resync config](#) [Restore defaults](#) [Disable ONU](#) [Delete](#)

2. In this screen do the changes as mentioned below, also keep a note of VLAN associated with Voice which is **956** in this case.

The screenshot shows a dialog box titled 'Update Management and VoIP IP'. It contains the following settings: 'Mgmt IP' is set to 'DHCP' (radio button selected); 'Service-port ID' is set to '130'; 'VLAN-ID' is set to '956 - VOICE' (dropdown menu); 'VoIP connection' is set to 'Enabled (general switch)' (radio button selected); and 'Attach VoIP to' is set to 'WAN' (radio button selected). At the bottom, there is a note: 'After enabling the VoIP connection, go to the VoIP ports settings and assign VoIP phone numbers as desired.' and two buttons: 'Close' and 'Update'.

Update Management and VoIP IP

To add more IPs go to [Menu->Settings->Management IPs.](#)

Mgmt IP ☐ Inactive ☐ Static IP ☒ DHCP

Service-port ID 130

VLAN-ID 956 - VOICE

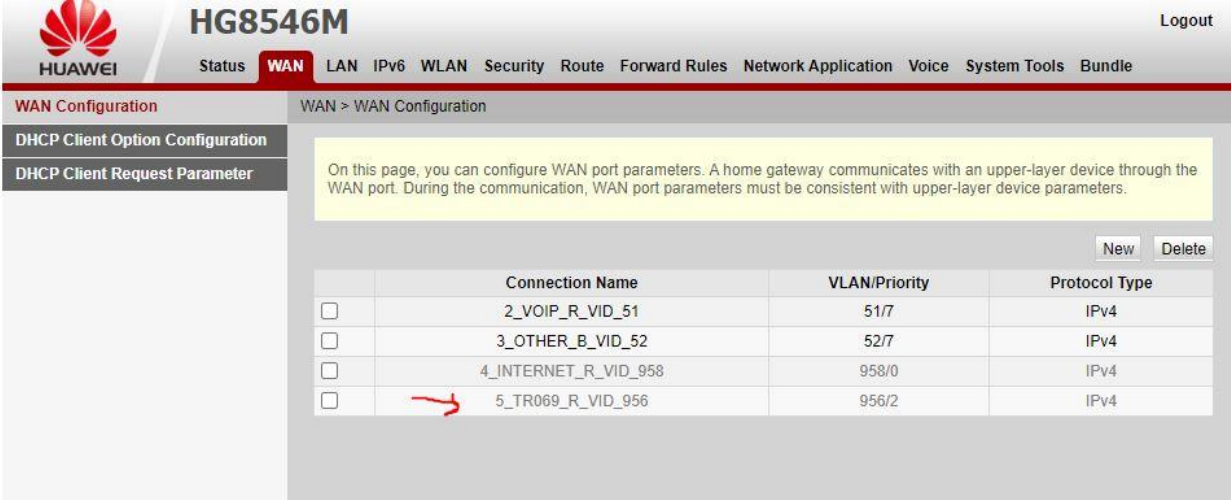
VoIP connection ☐ Disabled ☒ Enabled (general switch)

Attach VoIP to ☐ Mgmt ☒ WAN

After enabling the VoIP connection, go to the VoIP ports settings and assign VoIP phone numbers as desired.

[Close](#) [Update](#)

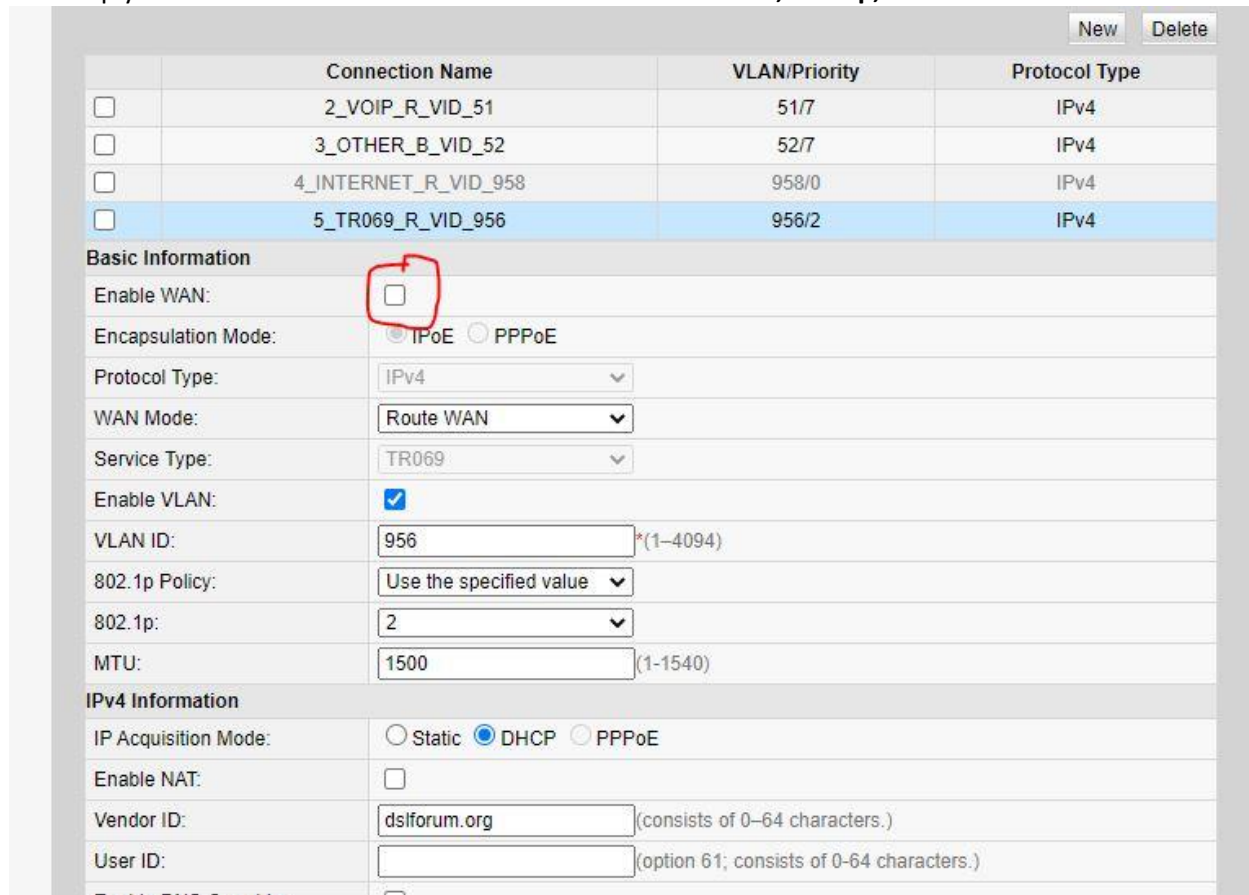
3. Login to the modem using 192.168.1.1. Navigate to the **WAN** tab and select **5_TR069_R_VID_956**



On this page, you can configure WAN port parameters. A home gateway communicates with an upper-layer device through the WAN port. During the communication, WAN port parameters must be consistent with upper-layer device parameters.

	Connection Name	VLAN/Priority	Protocol Type
<input type="checkbox"/>	2_VOIP_R_VID_51	51/7	IPv4
<input type="checkbox"/>	3_OTHER_B_VID_52	52/7	IPv4
<input type="checkbox"/>	4_INTERNET_R_VID_958	958/0	IPv4
<input type="checkbox"/>	5_TR069_R_VID_956	956/2	IPv4

4. Simply disable the **Enable WAN** and make a note of **VLAN ID, 802.1p, and Vendor ID**



	Connection Name	VLAN/Priority	Protocol Type
<input type="checkbox"/>	2_VOIP_R_VID_51	51/7	IPv4
<input type="checkbox"/>	3_OTHER_B_VID_52	52/7	IPv4
<input type="checkbox"/>	4_INTERNET_R_VID_958	958/0	IPv4
<input type="checkbox"/>	5_TR069_R_VID_956	956/2	IPv4

Basic Information

Enable WAN: ☐

Encapsulation Mode: ☒ IPoE ☐ PPPoE

Protocol Type: IPv4

WAN Mode: Route WAN

Service Type: TR069

Enable VLAN: ☒

VLAN ID: 956 (1-4094)

802.1p Policy: Use the specified value

802.1p: 2

MTU: 1500 (1-1540)

IPv4 Information

IP Acquisition Mode: ☐ Static ☒ DHCP ☐ PPPoE

Enable NAT: ☐

Vendor ID: dsforum.org (consists of 0-64 characters.)

User ID: (option 61; consists of 0-64 characters.)

- Go to **2_VOIP_R_VID_51** and copy the field (**VLAN ID, 802.1p, and Vendor ID**) from previous step

New Delete

	Connection Name	VLAN/Priority	Protocol Type
<input type="checkbox"/>	2_VOIP_R_VID_51	51/7	IPv4
<input type="checkbox"/>	3_OTHER_B_VID_52	52/7	IPv4
<input type="checkbox"/>	4_INTERNET_R_VID_958	958/0	IPv4
<input type="checkbox"/>	5_TR069_R_VID_956	956/2	IPv4

Basic Information

Enable WAN:

☒

Encapsulation Mode:

☒ IPoE ☐ PPPoE

Protocol Type:

IPv4

WAN Mode:

Route WAN

Service Type:

VOIP

Enable VLAN:

☒

VLAN ID:

956

*(1-4094)

802.1p Policy:

Use the specified value

802.1p:

2

MTU:

1500

(1-1540)

IPv4 Information

IP Acquisition Mode:

☐ Static ☒ DHCP ☐ PPPoE

Enable NAT:

☐

Vendor ID:

dslforum.org

(consists of 0-64 characters.)

User ID:

(option 61; consists of 0-64 characters.)

Enable DNS Override:

☐

Apply

Cancel

- Under the **Status** click **WAN Information** and make note of this information.

HG8546M
Logout

Status

WAN LAN IPv6 WLAN Security Route Forward Rules Network Application Voice System Tools Bundle

WAN Information

VoIP Information

WLAN Information

Smart WiFi Coverage

Eth Port Information

DHCP Information

Optical Information

Device Information

Remote Manage

User Device Information

Service Provisioning Status

Cloud Platform Status

Status > WAN Information

On this page, you can query the connection and line status of the WAN port.

IPv4 Information

WAN Name	Status	IP Address	VLAN/Priority	Connected
2_VOIP_R_VID_956	Connected	10.52.36.39	956/2	AlwaysOn
3_OTHER_B_VID_52	Connected	--	52/7	AlwaysOn
4_INTERNET_R_VID_958	Connected	38.117.119.126	958/0	AlwaysOn
5_TR069_R_VID_956	Disconnected	--	956/2	AlwaysOn

7. Proceed to Voice tab:

N LAN IPv6 WLAN Security Route Forward Rules Network Application **Voice** System Tools

Voice > VoIP Basic Configuration

On this page, you can set basic SIP parameters.

Basic Profile Parameters(SIP)

Outbound Proxy Server Address: (IP or domain)

Outbound Proxy Server Port: (0-65535)

Address of the Standby Outbound Proxy Server: (IP or domain)

Port of the Standby Outbound Proxy Server: (0-65535)

Address of the Primary Proxy Server: (IP or domain)

Port of the Primary Proxy Server: (0-65535)

Address of the Standby Proxy Server: (IP or domain)

Port of the Standby Proxy Server: (0-65535)

Home Domain: (IP or domain)

Local Port: (0-65535)

Digitmap:

Digitmap Matching Mode:

Registration Period: (1-65534s)

Signaling Port: (Select the name of the WAN that will carry the voice signaling messages.)

Media Port: (Select the name of the WAN that will carry the voice media. The name is the same as the signaling port name when it is empty.)

Region:

Basic User Parameters(SIP)

1. Change the address of the primary proxy server to 10.50.2.15
2. Signaling port and media port to 2_VoIP.
3. Change Region to Canada.

8. Change the Basic User Parameters to the following:

Enable user

Registration user name and authentication name to the phone number that is assigned:

Use the password provided by Telecom

Basic User Parameters(SIP)

New Delete

No.	URI	Registration User Name	Authentication User Name	Password	Associated POTS Port
1	--	6479433844	6479433844	*****	1

Enable User: ☒

URI: (URI)

Registration User Name: (phone number)

Associated POTS Port:

Authentication User Name: (The length must be between 0-64.)

Password: (The length must be between 0-64. Double-Click to select all.)

Apply Cancel

9. Please also navigate to VoIP information tab below you should be able to see the line as registered and Idle as the picture blew:

WAN Information	Status > VoIP Information						
VoIP Information	On this page, you can query status information of voice users and reset the voice function.						
WLAN Information	No.	URI	User Name (Phone Number)	Associated POTS Port	User Status	Call Status	Registry Error
Smart WiFi Coverage	1	--	6479433844	1	Up	Idle	--
Eth Port Information	Restart VoIP						
DHCP Information							
Optical Information							
Device Information							

Please make test calls for outgoing and incoming calls to your mobile phone to make sure of call quality.

The line should now be registered and ready.

NOTE: If you need any help with this do not hesitate to reach out to me on ppatel@rally.ca / 647-922-7027 and I will configure the setup in modem.