

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

- 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 are tabs for FRONTLINE, Unconfigured (which is selected), Configured, Graphs, Diagnostics, Save Config, Settings, and Logout. Below the tabs, there's a dropdown menu for 'OLTs' set to 'VIDA-CONDOS' and a 'Refresh' button. The main area displays 'VIDA-CONDOS GPON ONUs' with a table:

Board	Port	SN	Type	Authorize
1	6	HWTCCD975ED2	HG8546M	Authorize

Below the table is a green button labeled 'Add ONU for later authorization'. A note says 'Saved ONUs for later authorization'.

- 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' configuration form. The top navigation bar includes FRONTLINE, Unconfigured, Configured, Graphs, Diagnostics, Save Config, Settings, and Logout. The form fields are as follows:

Board	1
Port	6
SN	HWTCCD975ED2
ONU type	HG8546M
<input type="checkbox"/> Use custom profile (For better compatibility with generic ONUs)	
ONU mode	<input checked="" type="radio"/> Routing <input type="radio"/> Bridging
User VLAN-ID	953
Zone	Zone 1
ODB (Splitter)	None
Name	
Address or comment	Address or comment (optional)
<input type="checkbox"/> Use GPS	

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

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

The screenshot shows the configuration interface for an ONU named 'VIDA-CONDOS'. The 'Configured' tab is selected. On the right, there's a small image of an ONU device with ports labeled LAN1 through LAN4. Below the device image, the status is shown as 'Online' with signal strength '-13.62 dBm / -15.76 dBm'. The 'WAN setup mode' section contains a link 'Setup via ONU webpage' which is highlighted with a black rectangle. At the bottom, there are several buttons: 'Get status', 'Show running-config', 'SW info', and 'LIVE!'.

Address or comment	Value
Authorization date	2020-01-06 13:02:14 History

Traffic/Signal

gpon-onu_0/1/6:0 daily traffic

bits per second

0.0 1.0

Sun 18:00 Mon 00:00 Mon 06:00 Mon 12:00

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.

The screenshot shows the FRONTLINE web interface for managing an Optical Network Unit (ONU). The top navigation bar includes links for FRONTLINE, Unconfigured, Configured, Graphs, Diagnostics, Save Config, and Settings. Below the navigation is a photograph of a silver ONU device with various ports and status indicators.

ONU Configuration:

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:

Status	Online
ONU/OLT Rx signal	-13.58 dBm / -15.79 dBm
Attached VLANs	953
ONU mode	Routing - WAN vlan: 953
Mgmt IP	Inactive
WAN setup mode	DHCP - 38.117.116.4

Traffic/Signal:

gpon-onu_0/1/6:0 daily traffic

bits per second

Sun 18:00 Mon 00:00 Mon 06:00 Mon 12:00

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	Link Status	Speed	Duplex	MAC Address
LAN1	Up	1000	Full	00:0C:29:00:00:01
LAN2	Up	1000	Full	00:0C:29:00:00:02
LAN3	Up	1000	Full	00:0C:29:00:00:03
LAN4	Up	1000	Full	00:0C:29:00:00:04

*****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 (green)
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

Speed profiles	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.

FRONTLINE Upconfigured Configured Graphs Diagnostics Reports Save Configuration Software

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: Get status Show running-config SW info LIVE!

Traffic/Signal:

Speed profiles:

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

Ethernet ports:

Port	Admin state	Mode	DHCP	Action

Update VLANs dialog box:

VLANs: 957-VOIP, 958-INTERNET

Select from the list below and click 'Update' to apply these settings on this ONU.

After changing desired.

Select all
 955
 957-VOIP
 958 - INTERNET

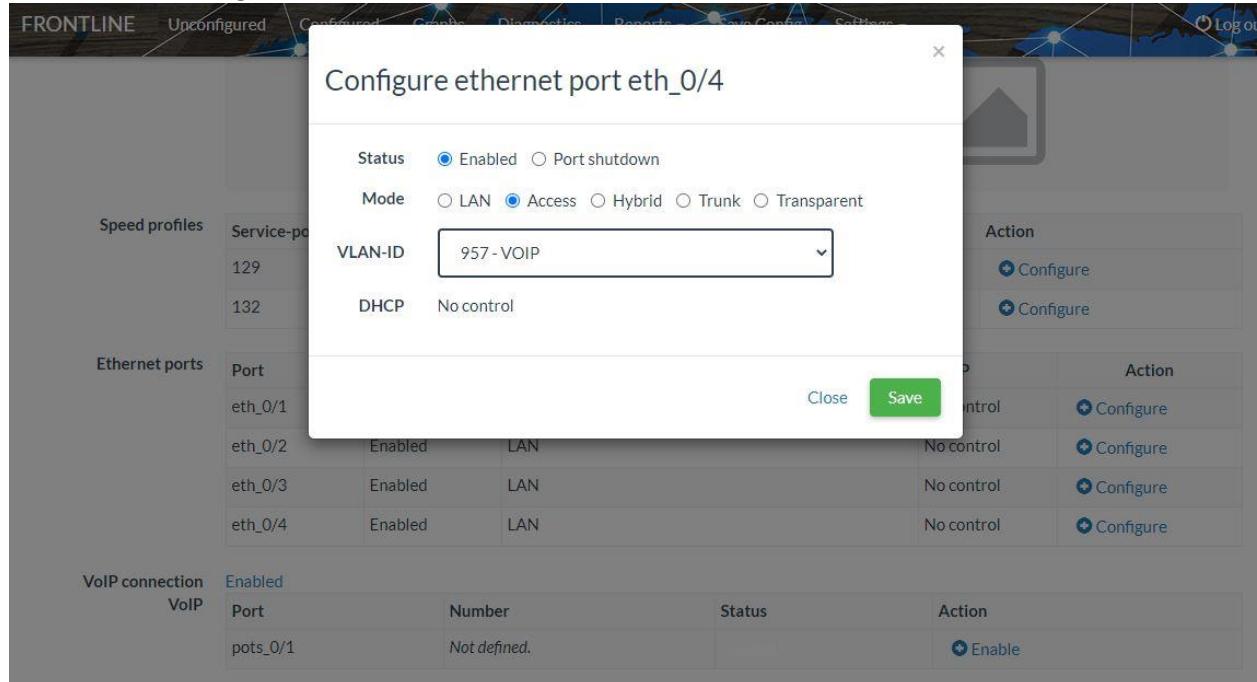
Close Update

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

The screenshot shows the configuration interface for an ONU. It includes the following sections:

- Speed profiles:** A table with columns: Service-port ID, User-VLAN, Download, Upload, Action. It lists two entries: 129 (User-VLAN 958) and 132 (User-VLAN 957).
- Ethernet ports:** A table with columns: Port, Admin state, Mode, DHCP, Action. It lists four ports: eth_0/1 (Enabled, LAN, No control), eth_0/2 (Enabled, LAN, No control), eth_0/3 (Enabled, LAN, No control), and eth_0/4 (Enabled, LAN, No control). The "Configure" button for eth_0/4 is highlighted with a red box.
- VoIP connection:** A table with columns: VolP, Port, Number, Status, Action. It lists one entry: pots_0/1 (Not defined, Enabled).
- CATV:** A note stating "Not supported by ONU-Type."

4. Make the changes as mentioned below.



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 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:	<input checked="" type="checkbox"/>
Encapsulation Mode:	<input checked="" type="radio"/> IPoE <input type="radio"/> PPPoE
Protocol Type:	IPv4
WAN Mode:	Route WAN
Service Type:	INTERNET
Enable VLAN:	<input checked="" type="checkbox"/>
VLAN ID:	958 *(1-4094)
802.1p Policy:	Use the specified value
802.1p:	0
MTU:	1500 (1-1540)
Binding Options:	<input checked="" type="checkbox"/> LAN1 <input checked="" type="checkbox"/> LAN2 <input checked="" type="checkbox"/> LAN3 <input type="checkbox"/> LAN4

IPv4 Information

IP Acquisition Mode:	<input type="radio"/> Static <input checked="" type="radio"/> DHCP <input type="radio"/> PPPoE
Enable NAT:	<input checked="" type="checkbox"/>
NAT type:	Port-restricted cone NAT
Vendor ID:	dslforum.org (consists of 0-64 characters.)
User ID:	(option 61; consists of 0-64 characters.)
Enable DNS Override:	<input type="checkbox"/>
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 Host 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.

<input checked="" type="checkbox"/> LAN1	<input checked="" type="checkbox"/> LAN2	<input checked="" type="checkbox"/> LAN3	<input type="checkbox"/> LAN4
--	--	--	-------------------------------

Apply **Cancel**

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

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

The screenshot shows the device's configuration interface. At the top, there are two icons representing speed profiles. Below them are two tables: "Speed profiles" and "Ethernet ports".

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

Ethernet ports	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

- 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 the "Update Management and VoIP IP" configuration dialog box. It contains the following fields:

- Mgmt IP:** Radio buttons for Inactive, Static IP, and DHCP. The "DHCP" option is selected.
- Service-port ID:** Set to 130.
- VLAN-ID:** A dropdown menu set to "956 - VOICE".
- VoIP connection:** Radio buttons for Disabled and Enabled (general switch). The "Enabled (general switch)" option is selected.
- Attach VoIP to:** Radio buttons for Mgmt and WAN. The "WAN" option is selected.

Below the form, a note states: "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

HG8546M

Logout

WAN Configuration

DHCP Client Option Configuration

DHCP Client Request Parameter

WAN > WAN Configuration

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**

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: (highlighted with a red box)

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: dslforum.org (consists of 0-64 characters.)

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

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

	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:	<input checked="" type="checkbox"/>
Encapsulation Mode:	<input checked="" type="radio"/> IPoE <input type="radio"/> PPPoE
Protocol Type:	IPv4
WAN Mode:	Route WAN
Service Type:	VOIP
Enable VLAN:	<input checked="" type="checkbox"/>
VLAN ID:	956 <small>(1-4094)</small>
802.1p Policy:	Use the specified value
802.1p:	2
MTU:	1500 <small>(1-1540)</small>

IPv4 Information

IP Acquisition Mode:	<input type="radio"/> Static <input checked="" type="radio"/> DHCP <input type="radio"/> PPPoE
Enable NAT:	<input type="checkbox"/>
Vendor ID:	dsiforum.org <small>(consists of 0-64 characters.)</small>
User ID:	<input type="text"/> <small>(option 61; consists of 0-64 characters.)</small>
Enable DNS Override:	<input type="checkbox"/>

Apply **Cancel**

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

HG8546M
Logout

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[WAN Information](#)
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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:

Basic Profile Parameters(SIP)

Outbound Proxy Server Address: (IP or domain)
 Outbound Proxy Server Port: 5060 (0-65535)
 Address of the Standby Outbound Proxy Server:
 Port of the Standby Outbound Proxy Server: 5060 (0-65535)
 Address of the Primary Proxy Server: 10.50.2.15 (IP or domain)
 Port of the Primary Proxy Server: 5060 (0-65535)
 Address of the Standby Proxy Server:
 Port of the Standby Proxy Server: 5060 (0-65535)
 Home Domain:
 Local Port: 5060 *(0-65535)
 Digitmap: [xABCD].S|[xABCD]#
 Digitmap Matching Mode: Min
 Registration Period: 600 (1-65534s)
 Signaling Port: 2_VOIP_R_VID_792 Select the name of the WAN that will carry the voice signaling messages.
 Media Port: 2_VOIP_R_VID_792 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: Canada

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)					
No.	URI	Registration User Name	Authentication User Name	Password	Associated POTS Port
<input type="checkbox"/>	1	6479433844	6479433844	*****	1
Enable User: <input checked="" type="checkbox"/> URI: <input type="text"/> 6479433844 (URI) Registration User Name: <input type="text"/> 6479433844 (phone number) Associated POTS Port: <input type="text"/> 1 Authentication User Name: <input type="text"> 6479433844 (The length must be between 0-64.) Password: <input type="text"/> ***** (The length must be between 0-64. Double-Click to select all.) </input>					
<input type="button"/> Apply <input type="button"/> 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 below:

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

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 p Patel@rally.ca / 647-922-7027 and I will configure the setup in modem.