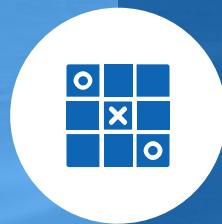




High Availability Local Networks



# HALNy NETWORKS

## ONT HALNy HGU WEB Configuration

# List of items

I. Interoperability (IOP)

---

II. WAN concept

---

III. Supported Service Scenario

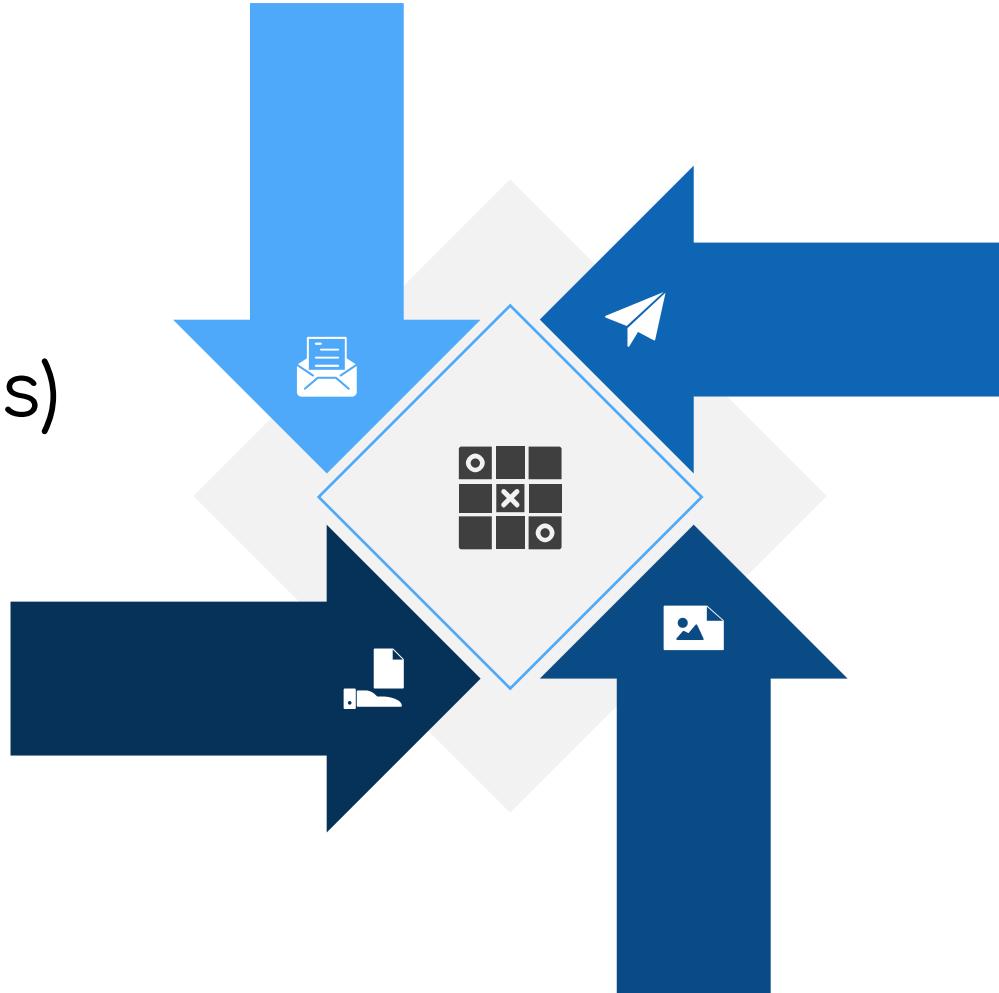
1. ONT Configuration (Bridge Mode – only INTERNET: 1-4/WIFI)
  2. ONT Configuration (Bridge Mode - INTERNET: 1-4/WIFI, VOIP interface)
  3. ONT Configuration (Bridge Mode – INTERNET: 1-2/WIFI, IPTV: 3-4, VOIP interface)
  4. ONT Configuration (Router Mode – only INTERNET: 1-4/WIFI)
  5. ONT Configuration (Router Mode – INTERNET: 1-4/WIFI, VOIP interface)
  6. ONT Configuration (Router Mode – INTERNET: 1-2/WIFI, IPTV: 3-4, VOIP interface)
  7. ONT Configuration (Router Mode – Rate-Limit)
  8. ONT Configuration (Remote management)
- 



# I. Interoperability (IOP)

IOP with different OLT vendors:

- HUAWEI
- DASAN
- ZTE
- CISCO (ALTICE Labs)
- ZHONE
- ALU / NOKIA
- RAISECOM
- ZYXEL



High Availability Local Networks

# II. WAN Concept



ONT should support minimum up to 6 WAN interfaces:



## WAN 0

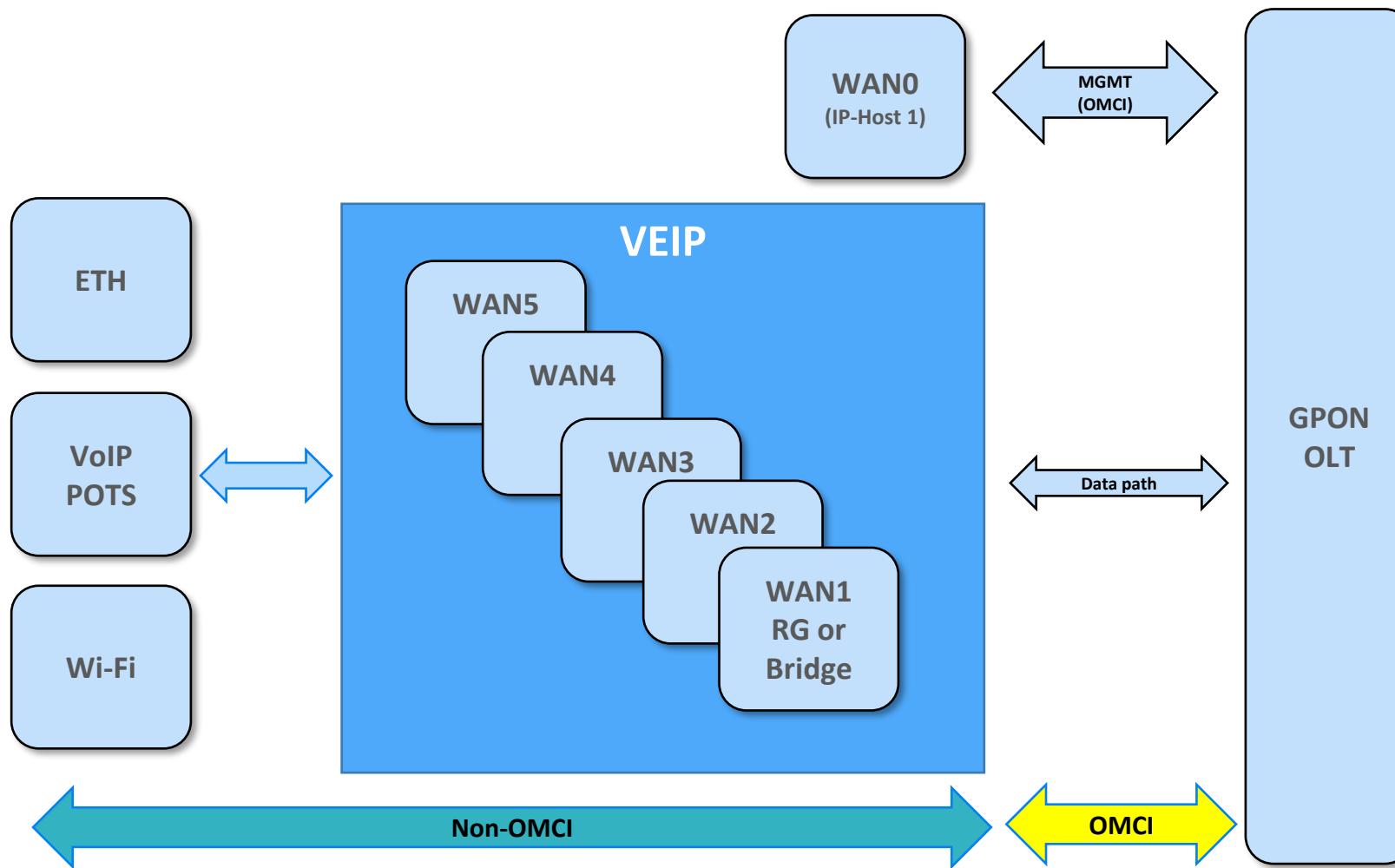
- o Used for remote management/monitoring (WEB, SSH, SNMP) and provisioning (DHCP, TR-069),
- o DHCP Client or Static IP,
- o Always available – no matter of ONT VEIP configuration.



## WAN 1 – WAN 5

- o Part of VEIP interface (Virtual Ethernet Interface Point),
- o Used for services (Internet, IPTV, VOIP),
- o Controlled by WEB, provisioning or backup file,
- o All UNI and SSID interfaces are belonged to one VEIP and it cannot be controlled by OMCI,
- o Each WAN can be set as bridge or router.

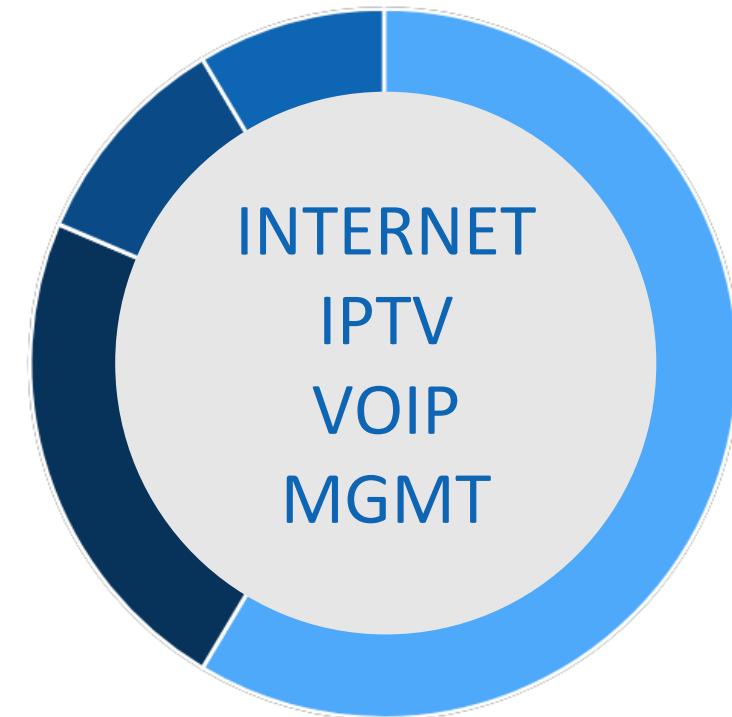
# II. WAN Concept



# III. SUPPORTED SERVICE SCENARIO

## ONT Web Access

1. ONT Configuration (Bridge Mode – only INTERNET: 1-4/WIFI)
2. ONT Configuration (Bridge Mode - INTERNET: 1-4/WIFI, VOIP interface)
3. ONT Configuration (Bridge Mode – INTERNET: 1-2/WIFI, IPTV: 3-4, VOIP interface)
4. ONT Configuration (Router Mode – only INTERNET: 1-4/WIFI)
5. ONT Configuration (Router Mode – INTERNET: 1-4/WIFI, VOIP interface)
6. ONT Configuration (Router Mode – INTERNET: 1-2/WIFI, IPTV: 3-4, VOIP interface)
7. ONT Configuration (Router Mode – Rate-Limit)
8. ONT Configuration (Remote management)



# ONT Web Access

## Web Access via Network Connection

You can access the device's Web GUI interface remotely in the same network. You should know the device's IP address for web access.

You can check IP address from OLT side - configured on ONT IP-HOST-1

```
SWITCH(config-gpon-olt[1])# show onu ip-host 1
```

---

```
OLT : 1, ONU : 1, Host : 1(0x0000)
```

---

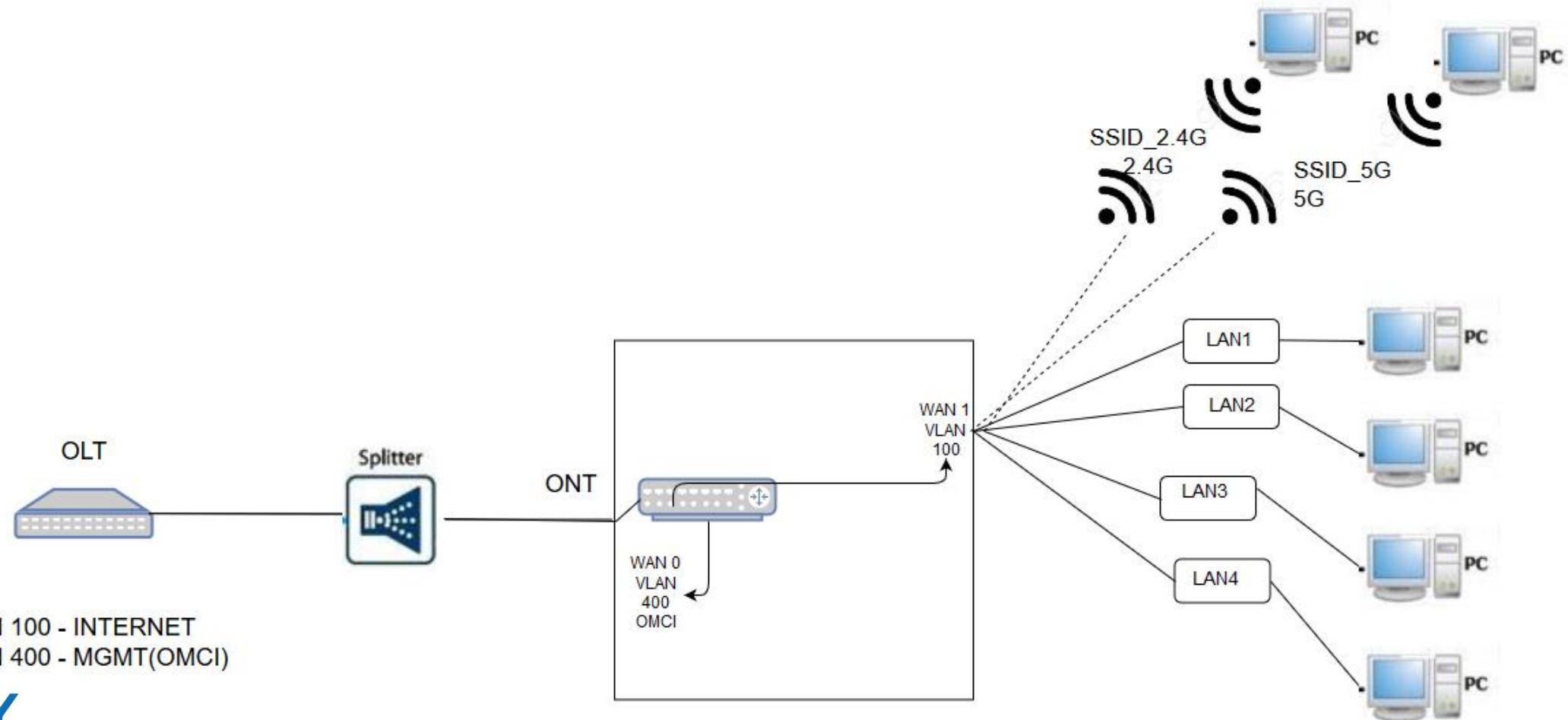
```
IP Option      : DHCP
MAC Address   : e0:5a:9f:6x:xx:xx
Current IP     : 10.10.10.2
Current Mask   : 255.255.255.0
Current Gateway : 10.10.10.254
Current Primary DNS :
Current Secondary DNS :
Domain name   :
Host name     :
```

1. Connect your PC to the network accessible to the device.
2. Open a web browser, and enter `http://IP_ADDRESS` in a URL field, and then press Enter.
3. Type LOGIN/PASSWORD in each field, and log into the system by clicking OK.



## 1. Bridge Mode – only INTERNET: 1-4/WIFI

- WAN1 – Bridge mode
- VLAN configuration on WAN0
- LAN1-LAN4, SSID1\_2.4G, SSID1\_5G assigned to WAN1 (access ports)

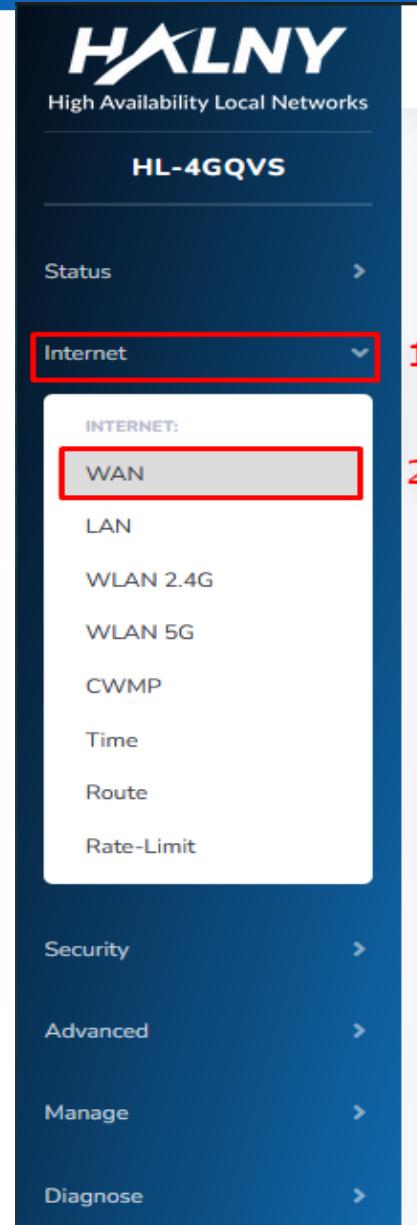




## 1. Bridge Mode – only INTERNET: 1-4/WIFI

### 1. Create WAN Interface for INTERNET:

1. Go to Internet Tab
2. Go to the WAN
3. Choose Wan
4. Set Gateway Type: Bridge
5. Set Status: Activated
6. Set mapping for Internet interface
7. Choose VLAN Gateway Type: **Tag**, Set **VLAN-ID** and **802.1p** value
8. Save settings



The screenshot shows the 'Internet Connection' configuration page. It includes fields for Transfer Mode (set to PON, with Switch as an option), Connection Name (set to 1\_WAN), Gateway Type (set to Bridge), and Status (set to Activated). Below these are sections for Binding Option (checkboxes for LAN1, LAN2, LAN3, LAN4, SSID1, SSID2, SSID3, SSID4, SSIDAC1, SSIDAC2, SSIDAC3, SSIDAC4) and Protocol Version (radio buttons for IPv4, IPv6, and IPv4/IPv6, with IPv4 selected). A large red box highlights the 'VLAN Gateway Type: TAG', 'VLAN ID [1-4094]: 100', and '802.1p [0-7]: 0' fields. At the bottom are 'SAVE' and 'Cancel' buttons, with the 'SAVE' button also highlighted by a red box.

Internet Connection

Internet Connection

Transfer Mode: PON  
Switch

After mode-switch device configuration is restore to default!

Connection Name: 1\_WAN

Gateway Type: Bridge

Status: Activated

Binding Option:

<input checked="" type="checkbox"/> LAN1	<input checked="" type="checkbox"/> LAN2	<input checked="" type="checkbox"/> LAN3	<input checked="" type="checkbox"/> LAN4
<input checked="" type="checkbox"/> SSID1	<input type="checkbox"/> SSID2	<input type="checkbox"/> SSID3	<input type="checkbox"/> SSID4
<input checked="" type="checkbox"/> SSIDAC1	<input type="checkbox"/> SSIDAC2	<input type="checkbox"/> SSIDAC3	<input type="checkbox"/> SSIDAC4

Protocol Version:

IPv4  IPv6  IPv4/IPv6

VLAN Gateway Type: TAG

VLAN ID [1-4094]: 100

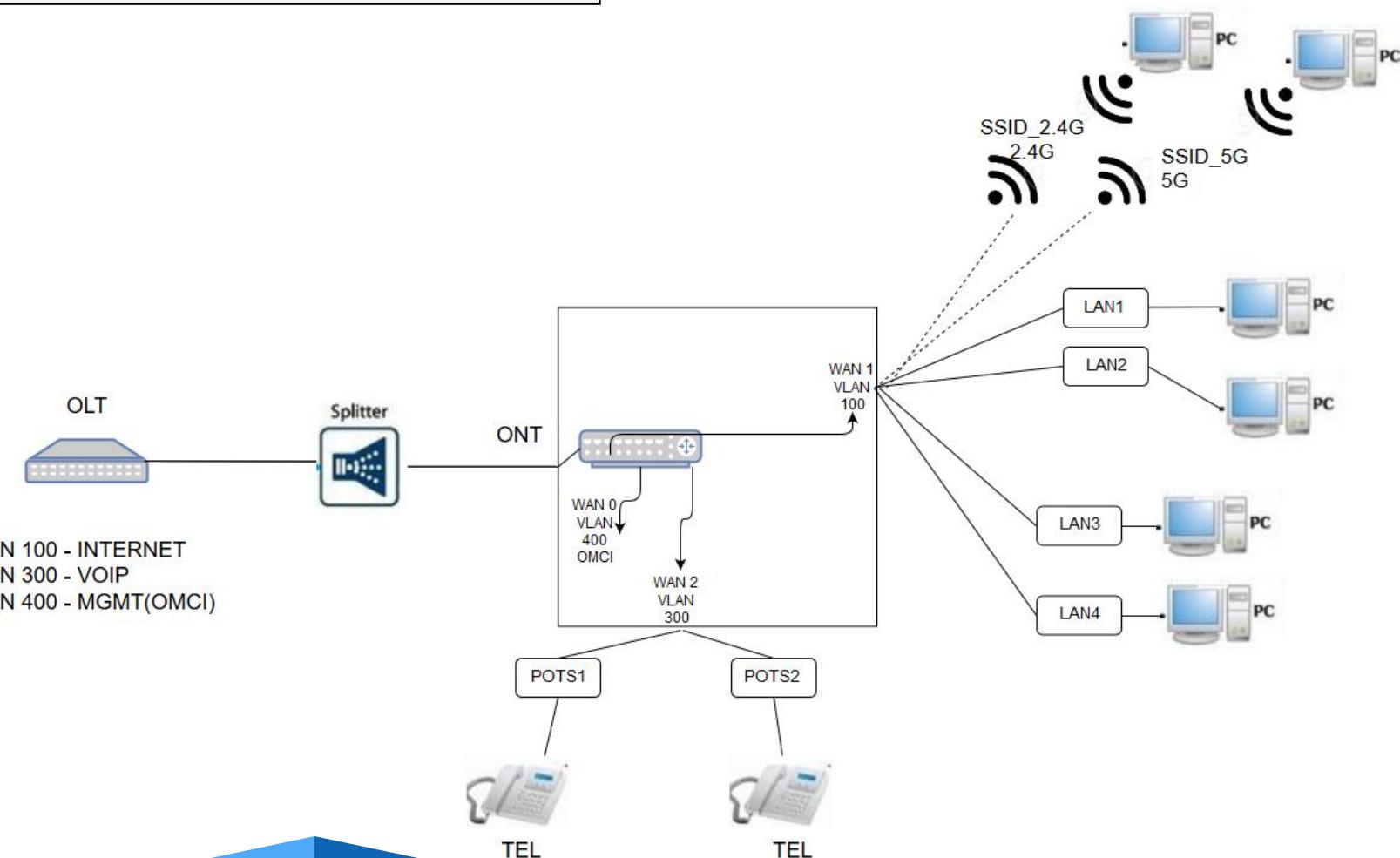
802.1p [0-7]: 0

SAVE Cancel



## 2. Bridge Mode – INTERNET: 1-4/WIFI, VOIP interface

- **WAN1 – VLAN 100 – INTERNET Bridge mode**
  - LAN1 - LAN4, SSID1\_2.4G, SSID1\_5G assigned to WAN1 (access ports)
- **WAN2 – VLAN 300 – IP Interface (Static IP / DHCP Client)**
  - POTS1, POTS2 assigned to WAN2





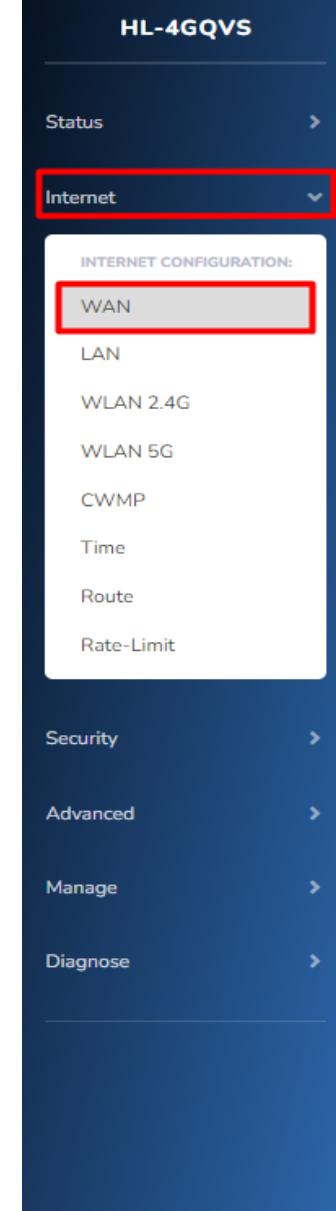
## 2. Bridge Mode – INTERNET: 1-4/WIFI, VOIP interface

1. Create WAN Interface for INTERNET – the same as in topic:

*Bridge Mode – only INTERNET: 1-4/WIFI*

2. Create second WAN interface for VOIP:

1. Go to Internet Tab
2. Go to the WAN
3. Choose Wan
4. Set Gateway Type: **Route**
5. Set Type: **VOICE**
6. Set Link Mode: **Connect via IP**
7. Set Status: **Activated**
8. Set Protocol Version: **IPv4**
9. Set IPv4 Addressing Type: **DHCP**
10. Choose VLAN Gateway Type: **Tag**, Set **VLAN-ID** and **802.1p** value
11. Save settings



Internet Connection

Transfer Mode: PON **Switch**

After mode-switch device configuration is restore to default!

1 Connection Name: 3\_WAN **3**

2 Gateway Type: Route **4**

Service Type: VOICE **5**

Link Mode: Connect via IP **6**

Status:  Activated  Deactivated **7**

Binding Option:

Protocol Version:

IPv4  IPv6  IPv4/IPv6 **8**

IPv4 Addressing Type:

DHCP (Get an IP automatically from ISP) **9**

Static (Set a static IP from ISP)

VLAN Gateway Type: TAG **10**

VLAN ID [1-4094]: 300

802.1p [0-7]: 6

MTU [576-1500]: 1500

Option 60:  Activated  Deactivated

Option 82:  Activated  Deactivated

11 **SAVE** **CANCEL**



## 2. Bridge Mode – INTERNET: 1-4/WIFI, VOIP interface

### 3. Basic VOIP configuration:

1. Go Advanced tab
2. Go VoIP Setup
3. Choose Protocol: SIP
4. Set [SIP register Server address](#)
5. Enable POTS port
6. Refresh page to check Register Status
7. Set [authentication name, password](#) for VoIP account
8. Save settings

The image shows two screenshots of a device's web-based configuration interface.

**Left Screenshot (Advanced Tab):**

- Shows the main navigation menu with options like Status, Internet, Security, Advanced, ADVANCED CONFIGURATION:, DDNS, Advanced NAT, UPNP, VoIP Setup (highlighted), IGMP/MLD, EasyMesh, Manage, and Diagnose.
- A red box highlights the "Advanced" tab in the top navigation bar.
- A red box highlights the "VoIP Setup" option in the list below.

**Right Screenshot (Basic VoIP Configuration):**

- Shows the "Basic VoIP" tab selected.
- Fields include:
  - Protocol: SIP (highlighted by a red box, labeled 3)
  - Binding Interface Name: 3\_WAN
  - Select Region: ETS-ETSI
  - Register Server: 10.192.168.149 (highlighted by a red box, labeled 4)
  - Register Server Port: 5060
- Status indicators:
  - Port Enable Setting: Enable (highlighted by a red box, labeled 5)
  - Registration Status: Registered (highlighted by a red box, labeled 6)
  - Display name: 50054 (highlighted by a red box, labeled 7)
  - Account: 50054
  - Password: \*\*\*\*\*
- Buttons:
  - SAVE (highlighted by a red box, labeled 8)

Please use ETSI for POLAND settings!

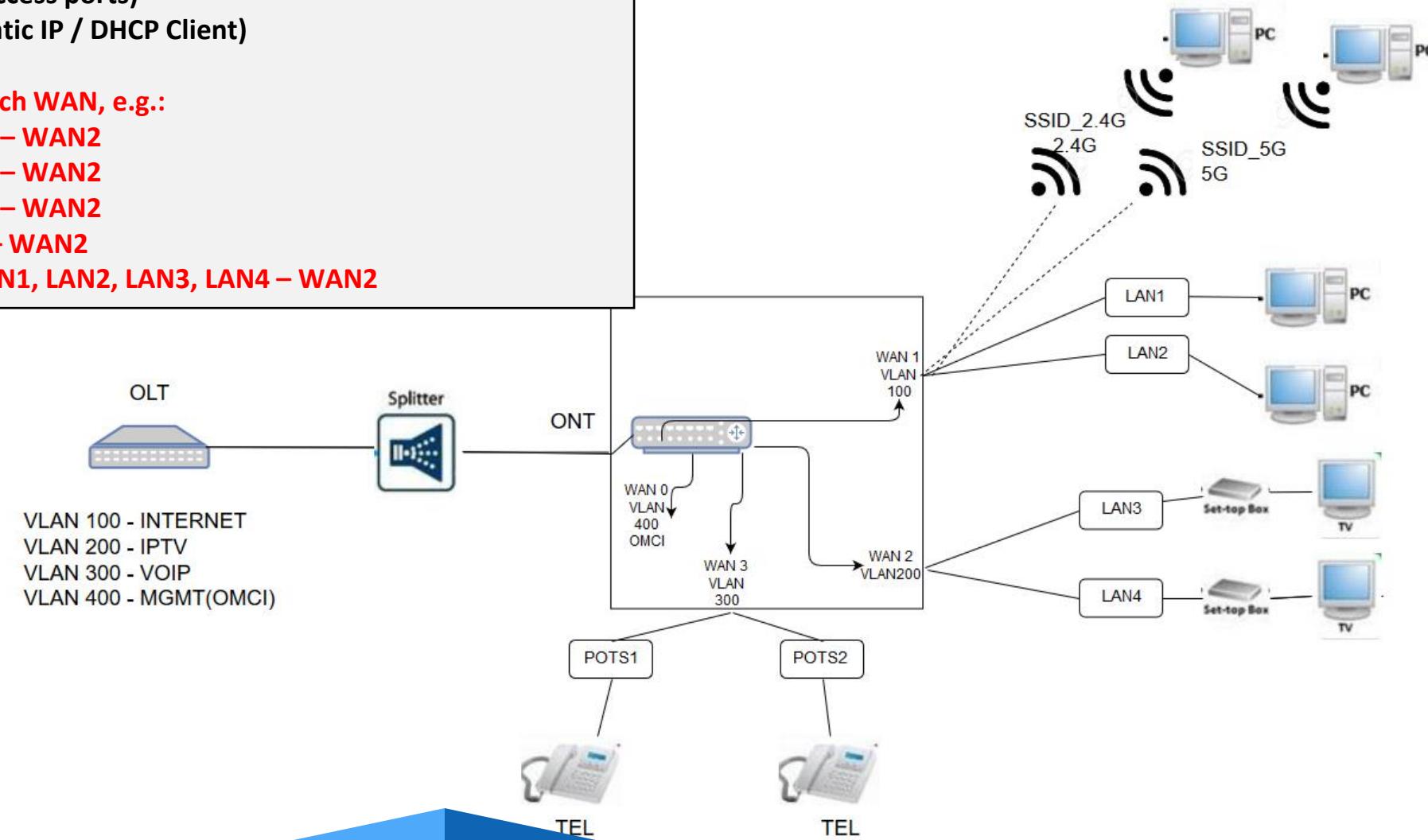


### 3. Bridge Mode – INTERNET: 1-2/WIFI, IPTV: 3-4, VOIP interface

- WAN1 – VLAN 100 – INTERNET Bridge mode
  - LAN1, LAN2, SSID1\_2.4G, SSID1\_5G assigned to WAN1 (access ports)\*
- WAN2 – VLAN 200 – IPTV Bridge mode (IGMP snooping enabled)
  - LAN3, LAN4 assigned to WAN2 (access ports) \*
- WAN3 – VLAN 300 – IP Interface (Static IP / DHCP Client)
  - POTS1, POTS2 assigned to WAN3

\* Different LAN ports number assigned to each WAN, e.g.:

- LAN1 – WAN1 | LAN2, LAN3, LAN4 – WAN2
- LAN1, LAN2 – WAN1 | LAN3, LAN4 – WAN2
- LAN1, LAN2, LAN3 – WAN1 | LAN4 – WAN2
- LAN1 – WAN1 | LAN2, LAN3, LAN4 – WAN2
- SSID1\_2.4G, SSID1\_5G – WAN1 | LAN1, LAN2, LAN3, LAN4 – WAN2





### 3. Bridge Mode – INTERNET: 1-2/WIFI, IPTV: 3-4, VOIP interface

1. Create WAN Interface for INTERNET – the same as in topic:

*Bridge Mode – only INTERNET: 1-4/WIFI*

2. Create WAN Interface for VoIP – the same as in topic:

*Bridge Mode - INTERNET: 1-4/WIFI,  
VOIP interface*

3. Create WAN Interface for IPTV:

1. Go to Internet Tab
2. Go to the WAN
3. Choose Wan
4. Set Gateway Type: Bridge
5. Set Status: Activated
6. Set mapping for Internet interface
7. Choose VLAN Gateway Type: **Tag**, Set **VLAN-ID** and **802.1p** value
8. Save settings



Internet Connection

Internet Connection

Transfer Mode: PON **Switch** 1

After mode-switch device configuration is restore to default!

Connection Name: 3\_WAN 3

Gateway Type: Bridge 4

Status:  Activated  Deactivated 5

**Binding Option:**

<input type="checkbox"/> LAN1	<input type="checkbox"/> LAN2	<input checked="" type="checkbox"/> LAN3	<input checked="" type="checkbox"/> LAN4
<input type="checkbox"/> SSID1	<input type="checkbox"/> SSID2	<input type="checkbox"/> SSID3	<input type="checkbox"/> SSID4
<input type="checkbox"/> SSIDAC1	<input type="checkbox"/> SSIDAC2	<input type="checkbox"/> SSIDAC3	<input type="checkbox"/> SSIDAC4

6

**Protocol Version:**

IPv4  IPv6  IPv4/IPv6

VLAN Gateway Type: TAG 7

VLAN ID [1-4094]: 200

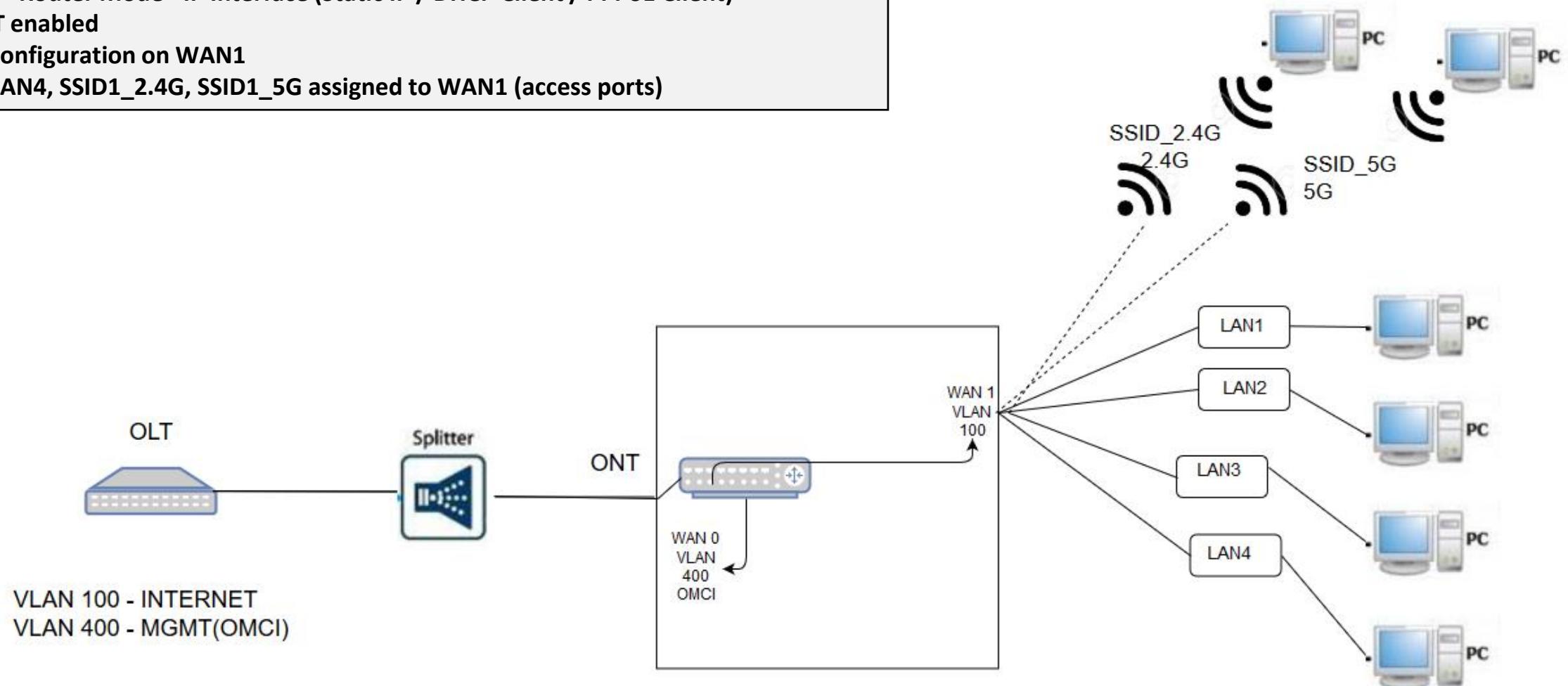
802.1p [0-7]: 4

8 SAVE Cancel



## 4. Router Mode – only INTERNET: 1-4/WIFI

- WAN1 – Router Mode - IP Interface (Static IP / DHCP Client / PPPoE Client)
  - NAT enabled
- VLAN configuration on WAN1
- LAN1-LAN4, SSID1\_2.4G, SSID1\_5G assigned to WAN1 (access ports)

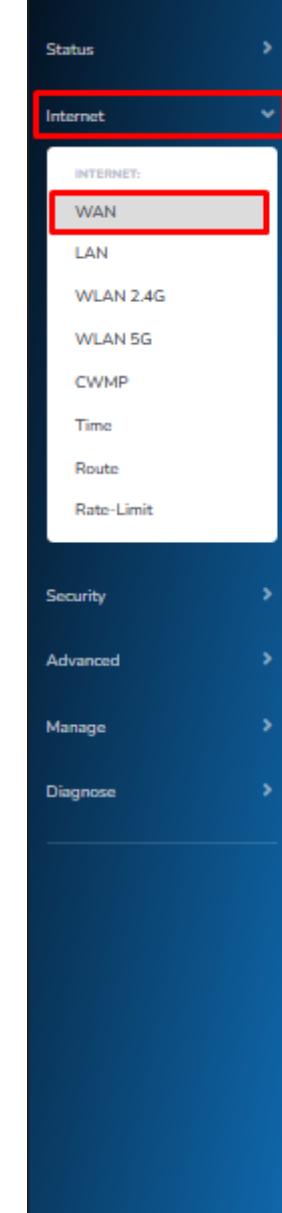




## 4. Router Mode – only INTERNET: 1-4/WIFI

### 1. Create WAN Interface for INTERNET:

1. Go to Internet Tab
2. Go to the WAN
3. Choose Wan
4. Set Gateway Type: **Route**
5. Set Type: **INTERNET**
6. Set Link Mode: **Connect via IP**
7. Set Status: **Activated**
8. Enable NAT
9. Set mapping for Internet interface
10. Set Protocol Version: **IPv4**
11. Set IPv4 Addressing Type: **DHCP**
12. Choose VLAN Gateway Type: **Tag**, Set **VLAN-ID** and **802.1p** value
13. Save settings



1 Transfer Mode: PON  
Switch  
After mode-switch device configuration is restore to default!

2 Connection Name: 1\_WAN  
Gateway Type: Route  
Service Type: INTERNET  
Link Mode: Connect via IP  
Status: Activated (radio button selected) 7  
Enable NAT: Yes (radio button selected) 8

3 Binding Option:  
LAN1, LAN2, LAN3, LAN4  
SSID1, SSID2, SSID3, SSID4  
SSIDAC1, SSIDAC2, SSIDAC3, SSIDAC4 9

4 Protocol Version:  
IPv4 (radio button selected) 10  
IPv6  
IPv4/IPv6

5 IPv4 Addressing Type:  
DHCP (Get an IP automatically from ISP) 11  
Static (Set a static IP from ISP)

6 VLAN Gateway Type: TAG  
VLAN ID [1-4094]: 100  
802.1p [0-7]: 0  
MTU [576-1500]: 1500 12

7 Option 60: Deactivated  
Option 82: Deactivated

8 SAVE Cancel 13



## 4. Router Mode – only INTERNET: 1-4/WIFI

### 1. Create WAN Interface for INTERNET - *PPPoE*:

1. Go to Internet Tab
2. Go to the WAN
3. Choose Wan
4. Set Gateway Type: **Route**
5. Set Type: **INTERNET**
6. Set Link Mode: **Connect via PPP**
7. Set Status: **Activated**
8. Enable NAT
9. Set mapping for Internet interface
10. Set Protocol Version: **IPv4**
11. Enter PPP user name and password
12. Choose VLAN Gateway Type: **Tag**, Set **VLAN-ID** and **802.1p** value
13. Save settings

The screenshot shows the 'Internet Connection' configuration page for the HL-4GQVS device. The page is divided into several sections:

- Transfer Mode:** PON (selected) / Switch (button)
- Internet Connection Settings (1-13):**
  - Connection Name: 1\_WAN (3)
  - Gateway Type: Route (4)
  - Service Type: INTERNET (5)
  - Link Mode: Connect via PPP (6)
  - Status: Activated (7)
  - Enable NAT: Yes (8)
- Binding Option:** LAN1, LAN2, LAN3, LAN4, SSID1, SSID2, SSID3, SSID4, SSIDAC1, SSIDAC2, SSIDAC3, SSIDAC4 (9)
- Protocol Version:** IPv4 (selected) / IPv6 / IPv4/IPv6 (10)
- User Authentication:** User Name: test158 (11), Password: ..... (11)
- VLAN Configuration:** VLAN Gateway Type: TAG (selected) / IP (12), VLAN ID [1-4094]: 100 (12), 802.1p [0-7]: 0 (12), MTU [128-1492]: 1492 (12)
- Advanced Options:** Option 60: Deactivated, Option 82: Deactivated
- Buttons:** SAVE (13) / Cancel



## 4. Router Mode – only INTERNET: 1-4/WIFI

### 1. Create WAN Interface for INTERNET - *Static IP:*

1. Go to Internet Tab
2. Go to the WAN
3. Choose Wan
4. Set Gateway Type: Route
5. Set Type: INTERNET
6. Set Link Mode: Connect via IP
7. Set Status: Activated
8. Enable NAT
9. Set mapping for Internet interface
10. Set Protocol Version: IPv4
11. Set IPv4 Addressing Type: Static
12. Set IP address, mask, Gateway, DNS
13. Choose VLAN Gateway Type: Tag, Set VLAN-ID and 802.1p value
14. Save settings

The screenshot shows the configuration interface for Router Mode. On the left, a sidebar lists tabs: Status, Internet (selected), WAN, LAN, WLAN 2.4G, WLAN 5G, CWMP, Time, Route, and Rate-Limit. Below the sidebar are sections for Security, Advanced, Manage, and Diagnose.

The main configuration area is divided into several sections:

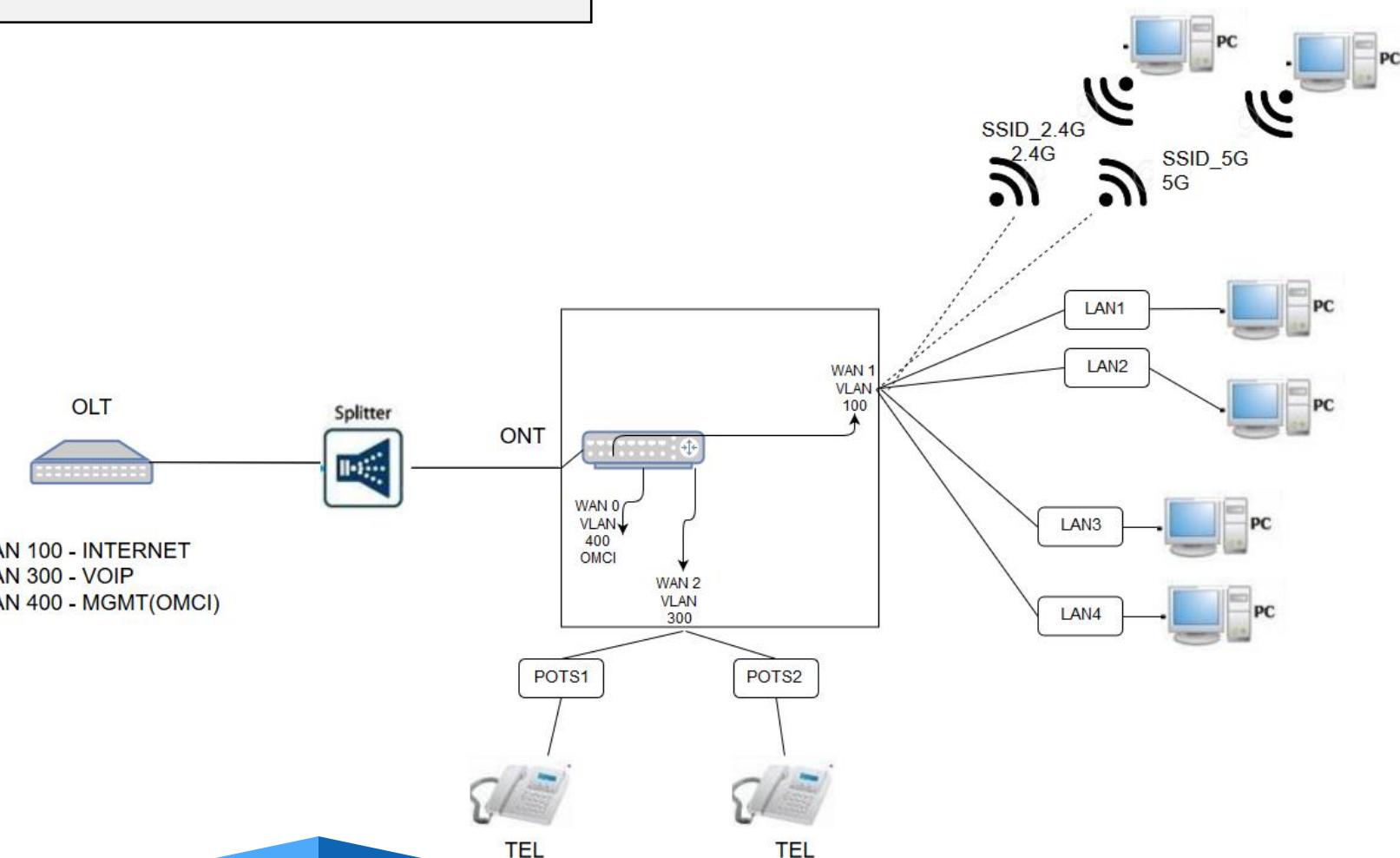
- Transfer Mode:** PON (selected) Switch
- Connection Name:** 1\_WAN 3
- Gateway Type:** Route 4
- Service Type:** INTERNET 5
- Link Mode:** Connect via IP 6
- Status:** Activated (radio button selected) 7
- Enable NAT:** Yes (radio button selected) 8
- Binding Option:** A grid of checkboxes for LAN1 through LAN4 and SSID1 through SSIDAC4. Most checkboxes are checked, except for SSID2, SSID3, SSID4, and SSIDAC2. 9
- Protocol Version:** IPv4 (radio button selected) 10
- IPv4 Addressing Type:** Static (radio button selected) 11
- IP Address:** 192.168.1.2 12
- Subnet Mask:** 255.255.255.0
- Default Gateway:** 192.168.1.1
- Primary DNS Server:** 8.8.8.8
- Secondary DNS Server:** 8.8.4.4
- VLAN Gateway Type:** TAG 13
- VLAN ID [1-4094]:** 100
- 802.1p [0-7]:** 0
- MTU [576-1500]:** 1500
- Option 60:** Deactivated (radio button selected)
- Option 82:** Deactivated (radio button selected)
- Buttons:** SAVE (green checkmark icon) 14, Cancel (red X icon)

A note at the top right says: "After mode-switch device configuration is restore to default!"



## 5. Router Mode – INTERNET: 1-4/WIFI, VOIP interface

- **WAN1 – VLAN 100 – Router Mode - IP Interface (Static IP / DHCP Client / PPPoE Client)**
  - LAN1, LAN2, LAN3, LAN4, SSID1\_2.4G, SSID1\_5G assigned to WAN1 (access ports)
  - NAT enabled
- **WAN2 – VLAN 300 – IP Interface (Static IP / DHCP Client)**
  - POTS1, POTS2 assigned to WAN2





## 5. Router Mode – INTERNET: 1-4/WIFI, VOIP interface

1. Create WAN Interface for INTERNET – the same as in topic:  
*Router Mode – only INTERNET: 1-4/WIFI*

2. Create second WAN interface for VOIP:

1. Go to Internet Tab
2. Go to the WAN
3. Choose Wan
4. Set Gateway Type: **Route**
5. Set Type: **VOICE**
6. Set Link Mode: **Connect via IP**
7. Set Status: **Activated**
8. Set Protocol Version: **IPv4**
9. Set IPv4 Addressing Type: **DHCP**
10. Choose VLAN Gateway Type: **Tag**, Set **VLAN-ID** and **802.1p** value
11. Save settings

The screenshot shows the HALNY HL-4GQVS web interface. On the left, a sidebar menu includes Status, Internet (highlighted with a red box), INTERNET CONFIGURATION (WAN, LAN, WLAN 2.4G, WLAN 5G, CWMP, Time, Rate-Limit), Security, Advanced, Manage, and Diagnose. The main right panel is titled "Internet Connection". It contains several configuration sections with numbered callouts:

- Internet Connection**: Transfer Mode: PON (highlighted with a red box). Callout 1.
- Connection Name:** 3\_WAN (highlighted with a red box). Callout 2.
- Gateway Type:** Route (highlighted with a red box). Callout 4.
- Service Type:** VOICE (highlighted with a red box). Callout 5.
- Link Mode:** Connect via IP (highlighted with a red box). Callout 6.
- Status:** Activated (highlighted with a red box). Callout 7.
- Binding Option:** (empty)
- Protocol Version:** IPv4 (highlighted with a red box). Callout 8.
- IPv4 Addressing Type:** DHCP (Get an IP automatically from ISP) (highlighted with a red box). Callout 9.
- VLAN Gateway Type:** TAG (highlighted with a red box). Callout 10.
- VLAN ID [1-4094]:** 300
- 802.1p [0-7]:** 6
- MTU [576-1500]:** 1500
- Option 60:** Deactivated (highlighted with a red box)
- Option 82:** Deactivated (highlighted with a red box)

At the bottom right are "SAVE" and "Cancel" buttons.



## 2. Bridge Mode – INTERNET: 1-4/WIFI, VOIP interface

### 3. Basic VOIP configuration:

1. Go Advanced tab
2. Go VoIP Setup
3. Choose Protocol: SIP
4. Set [SIP register Server address](#)
5. Enable POTS port
6. Refresh page to check Register Status
7. Set [authentication name, password](#) for VoIP account
8. Save settings



Protocol:	SIP	3
Binding Interface Name:	3_WAN	
Select Region:	ETS-ETSI	
Please use ETSI for POLAND settings!		
Register Server:	10.192.168.149	4
Register Server Port:	5060	
Port Enable Setting	Enable	5
Registration Status	Registered	6
Display name	500	7
Account	500	
Password	•••	
<input checked="" type="checkbox"/> SAVE		8

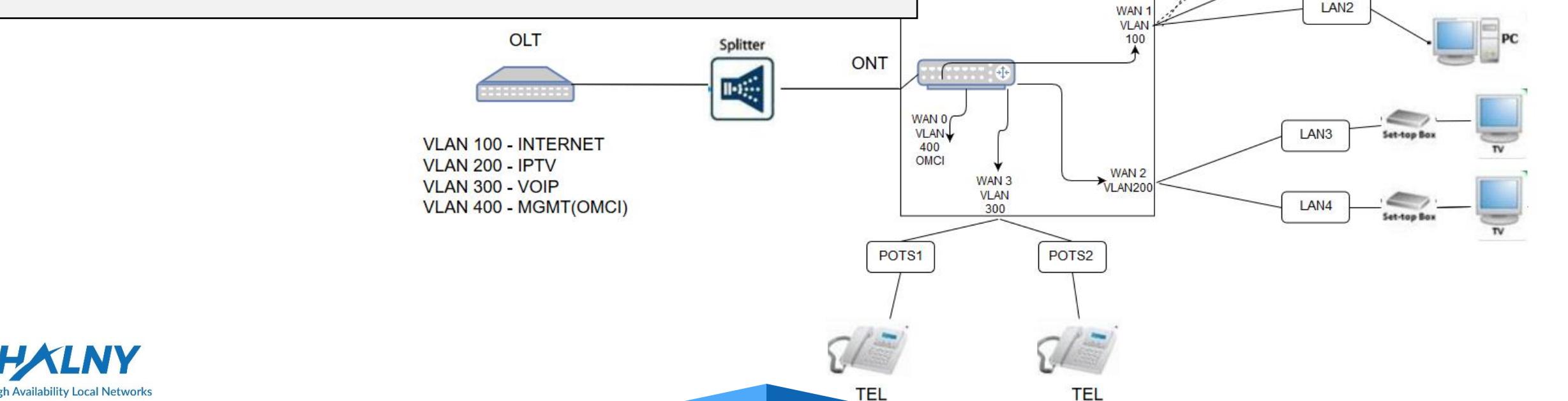


## 6. Router Mode – INTERNET: 1-2/WIFI, IPTV: 3-4, VOIP interface

- WAN1 – VLAN 100 – Router Mode - IP Interface (Static IP / DHCP Client / PPPoE Client)
  - LAN1, LAN2, SSID1\_2.4G, SSID1\_5G assigned to WAN1 (access ports)\*
  - NAT enabled
- WAN2 – VLAN 200 – IPTV Bridge mode (IGMP snooping enabled)
  - LAN3, LAN4 assigned to WAN2 (access ports) \*
- WAN3 – VLAN 300 – IP Interface (Static IP / DHCP Client)
  - POTS1, POTS2 assigned to WAN3

\* Different LAN ports number assigned to each WAN, e.g.:

- LAN1 – WAN1 | LAN2, LAN3, LAN4 – WAN2
- LAN1, LAN2 – WAN1 | LAN3, LAN4 – WAN2
- LAN1, LAN2, LAN3 – WAN1 | LAN4 – WAN2
- LAN1 – WAN1 | LAN2, LAN3, LAN4 – WAN2
- SSID1\_2.4G, SSID1\_5G – WAN1 | LAN1, LAN2, LAN3, LAN4 – WAN2





## 6. Router Mode – INTERNET: 1-2/WIFI, IPTV: 3-4, VOIP interface

1. Create WAN Interface for INTERNET – the same as in topic:

*Router Mode - only INTERNET: 1-4/WIFI/*

2. Create WAN Interface for VoIP – the same as in topic:

*Router Mode - INTERNET: 1-4/WIFI,  
VOIP interface*

3. Create WAN Interface for IPTV:

1. Go to Internet Tab
2. Go to the WAN
3. Choose Wan
4. Set Gateway Type: **Bridge**
5. Set Status: **Activated**
6. Set mapping for Internet interface
7. Choose VLAN Gateway Type: **Tag**, Set **VLAN-ID** and **802.1p** value
8. Save settings



Internet Connection

Internet Connection

Transfer Mode: PON (Switch)

Connection Name: 2\_WAN (3)

Gateway Type: Bridge (4)

Status: Activated (5)

Binding Option:

<input type="checkbox"/> LAN1	<input type="checkbox"/> LAN2	<input checked="" type="checkbox"/> LAN3	<input checked="" type="checkbox"/> LAN4
<input type="checkbox"/> SSID1	<input type="checkbox"/> SSID2	<input type="checkbox"/> SSID3	<input type="checkbox"/> SSID4
<input type="checkbox"/> SSIDAC1	<input type="checkbox"/> SSIDAC2	<input type="checkbox"/> SSIDAC3	<input type="checkbox"/> SSIDAC4

Protocol Version:

IPv4 (selected) IPv6 IPv4/IPv6

VLAN Gateway Type: TAG (7)

VLAN ID [1-4094]: 200

802.1p [0-7]: 4

SAVE Cancel

After mode-switch device configuration is restore to default!

6

8

This part of the screenshot shows the "Internet Connection" configuration page. It includes fields for Transfer Mode (set to PON, with "Switch" highlighted in green), Connection Name (set to 2\_WAN), Gateway Type (set to Bridge), and Status (set to Activated). Under "Binding Option", there are four rows of checkboxes for LAN and SSID mappings, with rows 3 and 4 checked. In the "Protocol Version" section, "IPv4" is selected. The "VLAN Gateway Type" is set to "TAG". The "VLAN ID" is set to 200, and the "802.1p" value is set to 4. At the bottom, there are "SAVE" and "Cancel" buttons.



## 7. Rate-limit configuration

Rate-limit is set per CoS value. Before setting rate-limit value, 802.1p bit has to be set correctly, from range 0-7. For example:

WAN1 – Internet CoS ->0

WAN2 – IPTV CoS ->4

WAN3 – VoIP CoS ->6

1. Go to Internet Tab
2. Go to the WAN
3. Choose Wan
4. Choose VLAN Gateway Type: **Tag**, Set **VLAN-ID** and **802.1p** value
5. Save settings

VLAN Gateway Type:	TAG
VLAN ID:	100
802.1p:	0
MTU:	1500

Option 60:  Activated  Deactivated

Option 82:  Activated  Deactivated

**SAVE** **Cancel**

VLAN Gateway Type:	TAG
VLAN ID:	200
802.1p:	4

**SAVE** **Cancel**

VLAN Gateway Type:	TAG
VLAN ID:	300
802.1p:	6
MTU:	1500

Option 60:  Activated  Deactivated

Option 82:  Activated  Deactivated

**SAVE** **Cancel**



## 7. Rate-limit configuration

Rate-limit 500/100 Mbit/s settings for Internet WAN0 with CoS=0  
corresponding configuration from previous slide

traffic-profile HL-4GMV\_RL create

tcont 1

gemport 1/1-1/8

dba-profile DBA

tcont 2

gemport 2/1

dba-profile DBA

mapper 1

gemport count 8

mapper 2

gemport count 1

bridge 1

ani mapper 1

uni virtual-eth 1

multicast-profile HL-4GMV-200

bridge 2

ani mapper 2

link ip-host-config 1

ip-host-config 1

ip address dhcp

extended-vlan-tagging-operation MGMT

apply

Rate-Limit

Rate Limit:  Enable  Disable

Type:  (PON mode - DASAN OLT)

Set by:  ONT

- Set by ONT means that Rate-Limit was configured via WWW/XML /TR-069 on the ONT
- Set by OLT means that Rate-Limit was configured via OMCI on the OLT. Set by OLT has higher priority, so disable ONT rate-limit settings if enabled.
- Set by OLT is supported by DASAN and ZYXEL OLTs

Each Cos entry is related to the COS value set on WAN Interface settings.  
Set value in Mb/s (0 - default unlimited)

#	DOWNSTREAM	UPSTREAM
COS0	500	100
COS1	0	0
COS2	0	0
COS3	0	0
COS4	0	0
COS5	0	0
COS6	0	0
COS7	0	0

SAVE



## 8. Remote management – access to the ONT via WAN IP

Configuration of remote management via WAN ip address

Create WAN Interface for INTERNET:

1. Go [Security Tab](#)
2. Go [ACL Tab](#)
3. Enable remote web management
4. Choose WAN Interface
5. Set port
6. Also you may disable/enable LAN access to the ONT
7. Press [SAVE](#) to apply changes
8. Activate White list and insert network allowed to
9. Press [SET](#) to apply

The screenshot shows two pages of the HALNY HL-4GMVR web interface. On the left, the 'Security' tab is selected in the sidebar, with the 'ACL' sub-tab highlighted. On the right, the 'ACL Filter' page is displayed.

**ACL Filter (Right Panel):**

- Remote Web Management:**
  - Status:  Activated  Deactivated 3
  - WAN Interface: **1\_WAN** 4
  - Port Number: **3000** 5
  - Port Number (I HTTPS): **22910**
  - Activated for N Days (optional): [empty field]
- Web Access to Device:**
  - WWW LAN Access:  Yes  No 6
  - HTTPS Access:  Yes  No
- Buttons:** 7 ✓ SAVE Cancel

**Remote MGMT Filter (Bottom Panel):**

- White List:  Activated  Deactivated
- Allow: **192.168.88.0 / 23** 8
- Rule number: **1**
- Buttons:** 9 ✓ SET Delete

Rule Number	IP Address
1	192.168.88.0



# THANK YOU



High Availability Local Networks