

# APPLICATION WHITE PAPER —GPON APP NOTE/EXAMPLE

Version V1.2

Release Date :2018-11-26

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## DBA profile

| Item        | Description    | Example                       |
|-------------|----------------|-------------------------------|
| DBA profile | The DBA of ONU | Assured :10M<br>Maximum :100M |

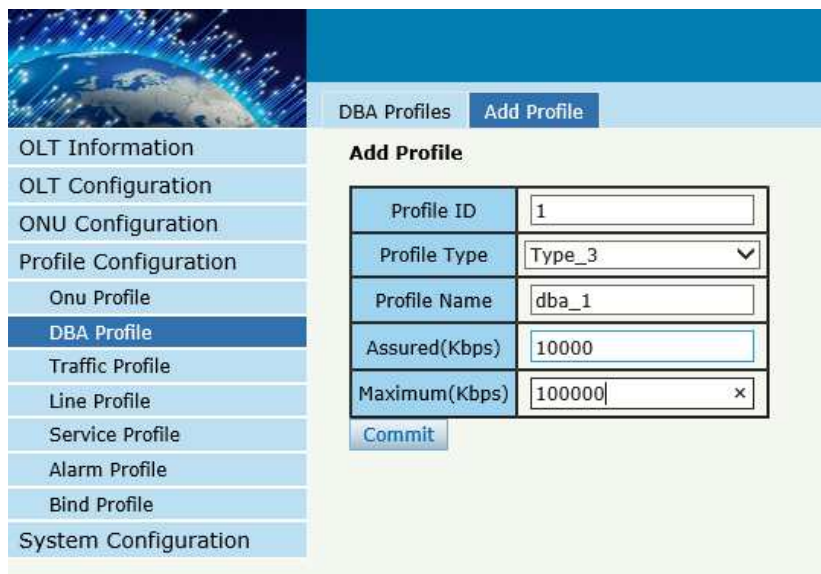
### By CLI -----

```
gpon-olt(config)# profile dba
```

```
gpon-olt(profile-dba:1)# type 3 assured 10000 maximum 100000
```

```
gpon-olt(profile-dba:1)# commit
```

### By Web -----



| Add Profile             |        |
|-------------------------|--------|
| Profile ID              | 1      |
| Profile Type            | Type_3 |
| Profile Name            | dba_1  |
| Assured(Kbps)           | 10000  |
| Maximum(Kbps)           | 100000 |
| <button>Commit</button> |        |

## SFU Authorization

### Planning Data

| Item     | Description             | Example      |
|----------|-------------------------|--------------|
| ONU Type | The type of onu         | V2801ZG      |
| ONU SN   | ONU serial number       | GPON00000015 |
| OLT PON  | The PON port of OLT     | GPON 0/1     |
| Equipid  | The Equipment id of ONU | V2801ZGV8.0  |

### ONU Manual authorize

#### By CLI -----

```
gpon-olt(config)# profile onu name V2801ZG

gpon-olt(profile-onu:3)# port-num eth 1

gpon-olt(profile-onu:3)# commit

gpon-olt(profile-onu:3)# exit

gpon-olt(config)# show onu auto-find

gpon-olt(config)# interface gpon 0/1

gpon-olt(config-pon-0/1)# onu add 1 profile V2801ZG sn GPON00000015
```

#### By Web -----

1、Create ONU profile for 1GE ONU



Information

Add Profile

OLT Information

OLT Configuration

ONU Configuration

Profile Configuration

Onu Profile

DBA Profile

Traffic Profile

Line Profile

Service Profile

Alarm Profile

Bind Profile

System Configuration

Onu Profiles Modify

|                         |         |
|-------------------------|---------|
| Profile ID              | 1       |
| Profile Name            | V2801ZG |
| Description             | 1GE SFU |
| Max tcont               | 8       |
| Max gempport            | 32      |
| Max eth                 | 1       |
| Max pots                | 0       |
| Max iphost              | 2       |
| Max ipv6host            | 0       |
| Max veip                | 0       |
| Service Ability         | Disable |
| Service ability N:1     | yes     |
| Service ability 1:M     | yes     |
| Service ability 1:P     | yes     |
| Wifi mgmt via non OMCI  | Disable |
| Omci send mode          | async   |
| Default multicast range | none    |

Commit

2, Find the ONU of Autofind lists and perform authorization operations on it



Automatic Discovery

OLT Information

OLT Configuration

ONU Configuration

ONU AuthList

ONU AutoFind

ONU AutoLearn

ONU Upgrade

Rogue ONU

Profile Configuration

System Configuration

Automatic Discovery

Port ID

PON1

| ONU ID    | Sn           | State   | Action                                          |
|-----------|--------------|---------|-------------------------------------------------|
| GPON0/1:1 | RTLG00000015 | Unknown | <a href="#">Add</a> <a href="#">Detail Info</a> |

Refresh

3, Select the 1GE ONU template

Automatic Discovery

**Add Onu**

|             |              |
|-------------|--------------|
| PON Number  | 1            |
| ONU Number  | 1            |
| Auth Mode   | Sn           |
| Onu Sn      | RTL000000015 |
| ONU Profile | V2801ZG      |

Submit Back

If ONU is successfully registered, working will be shown here

Automatic Discovery

**ONU Status Info**

Port ID PON1

| ONU ID    | Admin State | OMCC State | Phase State |
|-----------|-------------|------------|-------------|
| GPON0/1:1 | Enable      | Enable     | working     |

Refresh

## ONU automatic authorize

By CLI -----

```
gpon-olt(config)# profile onu name V2801ZG
```

```
gpon-olt(profile-onu:3)# port-num eth 1
```

```
gpon-olt(profile-onu:3)# commit
```

```
gpon-olt(profile-onu:3)# exit
```

```
gpon-olt(config)# show onu auto-find detail-info
```

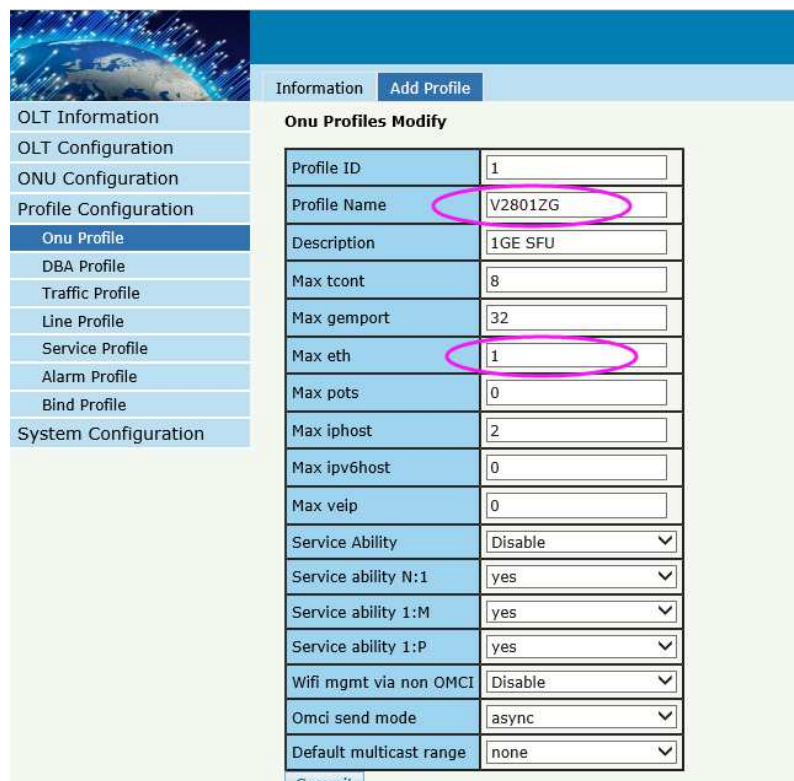
```
gpon-olt(config)# onu auto-learn bind onu-profile V2801ZGV8.0 V2801ZG
```

```
gpon-olt(config)# interface gpon 0/1
```

```
gpon-olt(config-gpon-0/1)# onu auto-learn
```

By Web -----

1、Create ONU profile for 1GE ONU



| Onu Profiles Modify     |         |
|-------------------------|---------|
| Profile ID              | 1       |
| Profile Name            | V2801ZG |
| Description             | 1GE SFU |
| Max tcont               | 8       |
| Max gempport            | 32      |
| Max eth                 | 1       |
| Max pots                | 0       |
| Max iphost              | 2       |
| Max ipv6host            | 0       |
| Max veip                | 0       |
| Service Ability         | Disable |
| Service ability N:1     | yes     |
| Service ability 1:M     | yes     |
| Service ability 1:P     | yes     |
| Wifi mgmt via non OMCI  | Disable |
| Omci send mode          | async   |
| Default multicast range | none    |

2, Equipment ID binding ONU profile

- OLT Information
- OLT Configuration
- ONU Configuration
  - ONU AuthList
  - ONU AutoFind
  - ONU AutoLearn
  - ONU Upgrade
  - Rogue ONU
- Profile Configuration
- System Configuration

ONU AutoLearn

ONU AutoBind

Automatic Bind

| Equipment ID | ONU Profile | Line Profile | Srv Profile | Alarm Profile | Action                 |
|--------------|-------------|--------------|-------------|---------------|------------------------|
| V2801ZGV8.0  | V2801ZG     | N/A          | N/A         | N/A           | <a href="#">Delete</a> |

Add ONU Auto Bind

Equipment ID

V2801ZGV8.0

ONU Profile

V2801ZG

Add

Refresh

3, enable automatic learn mode of PON port

- OLT Information
- OLT Configuration
- ONU Configuration
  - ONU AuthList
  - ONU AutoFind
  - ONU AutoLearn
  - ONU Upgrade
  - Rogue ONU
- Profile Configuration
- System Configuration

ONU AutoLearn

ONU AutoBind

Automatic Learn

| PON ID |         | Default ONU Profile |
|--------|---------|---------------------|
| PON1   | Enable  | default             |
| PON2   | Disable | default             |
| PON3   | Disable | default             |
| PON4   | Disable | default             |
| PON5   | Disable | default             |
| PON6   | Disable | default             |
| PON7   | Disable | default             |
| PON8   | Disable | default             |

Apply

Refresh

If ONU is successfully registered, working will be shown here

- OLT Information
- OLT Configuration
- ONU Configuration
  - ONU AuthList
  - ONU AutoFind
  - ONU AutoLearn
  - ONU Upgrade
  - Rogue ONU
- Profile Configuration
- System Configuration

Automatic Discovery

ONU Status Info

Port ID

PON1

| ONU ID    | Admin State | OMCC State | Phase State |
|-----------|-------------|------------|-------------|
| GPON0/1:1 | Enable      | Enable     | working     |

Refresh

# HGU Authorization

## Planning Data

| Item     | Description             | Example      |
|----------|-------------------------|--------------|
| ONU Type | The type of onu         | HG326RGW     |
| ONU SN   | ONU serial number       | GPON000010E0 |
| OLT PON  | The PON port of OLT     | GPON 0/1     |
| Equipid  | The Equipment id of ONU | IGD          |

## ONU Manual authorize

### By CLI -----

```
gpon-olt(config)# profile onu name HG326RGW

gpon-olt(profile-onu:3)# port-num veip 1

gpon-olt(profile-onu:3)# commit

gpon-olt(profile-onu:3)# exit

gpon-olt(config)# show onu auto-find

gpon-olt(config)# interface gpon 0/1

gpon-olt(config-pon-0/1)# onu add 1 profile HG326RGW sn GPON000010E0
```

### By Web -----

- 1、Create ONU profile for 4GE HGU



OLT Information

OLT Configuration

ONU Configuration

Profile Configuration

**ONU Profile**

DBA Profile

Traffic Profile

Line Profile

Service Profile

Alarm Profile

Bind Profile

System Configuration

Information

Add Profile

### ONU Profile Modify

|                         |             |
|-------------------------|-------------|
| Profile ID              | 3           |
| Profile Name            | HG326RGW    |
| Description             | description |
| Max tcont               | 8           |
| Max gempport            | 32          |
| Max eth                 | 1           |
| Max pots                | 0           |
| Max lphost              | 2           |
| Max lpv6host            | 0           |
| Max veip                | 1           |
| Service ability         | Disable     |
| Service ability N:1     | yes         |
| Service ability 1:M     | yes         |
| Service ability 1:P     | yes         |
| Wifi mgmt via non OMCI  | Disable     |
| Omci send mode          | async       |
| Default multicast range | none        |

2, Find the ONU of Autofind lists and perform authorization operations on it



OLT Information

OLT Configuration

ONU Configuration

ONU AuthList

**ONU AutoFind**

ONU AutoLearn

ONU Upgrade

Rogue ONU

Profile Configuration

System Configuration

Automatic Discovery

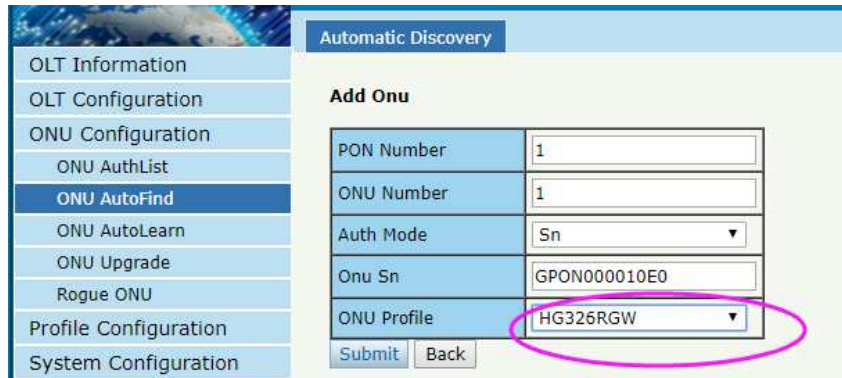
### Automatic Discovery

Port ID PON1

| ONU ID    | Sn           | State   | Action                                          |
|-----------|--------------|---------|-------------------------------------------------|
| GPON0/1:1 | GPON000010E0 | Unknown | <a href="#">Add</a> <a href="#">Detail Info</a> |

Refresh

3, Select the ONU template



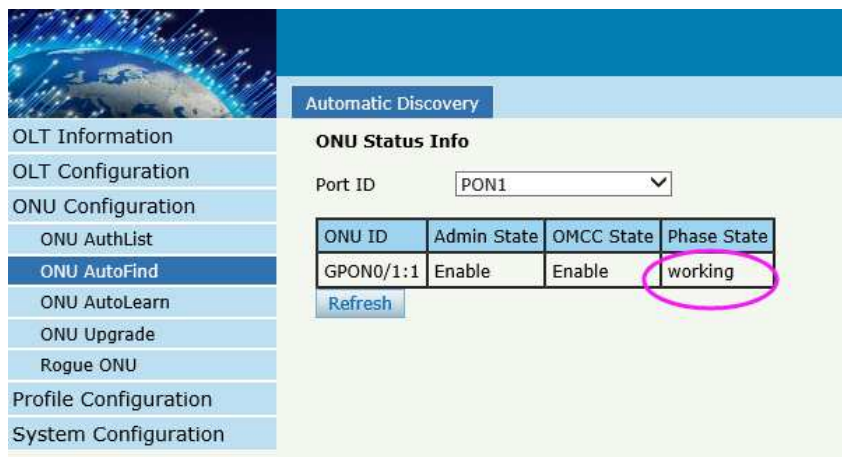
**Automatic Discovery**

**Add Onu**

|             |              |
|-------------|--------------|
| PON Number  | 1            |
| ONU Number  | 1            |
| Auth Mode   | Sn           |
| Onu Sn      | GPON000010E0 |
| ONU Profile | HG326RGW     |

Submit Back

If ONU is successfully registered, working will be shown here



**Automatic Discovery**

**ONU Status Info**

Port ID PON1

| ONU ID    | Admin State | OMCC State | Phase State |
|-----------|-------------|------------|-------------|
| GPON0/1:1 | Enable      | Enable     | working     |

Refresh

## ONU automatic authorize

By CLI -----

```
gpon-olt(config)# profile onu name HG326RGW
```

```
gpon-olt(profile-onu:3)# port-num veip 1
```

```
gpon-olt(profile-onu:3)# commit
```

```
gpon-olt(profile-onu:3)# exit
```

```
gpon-olt(config)# show onu auto-find detail-info
```

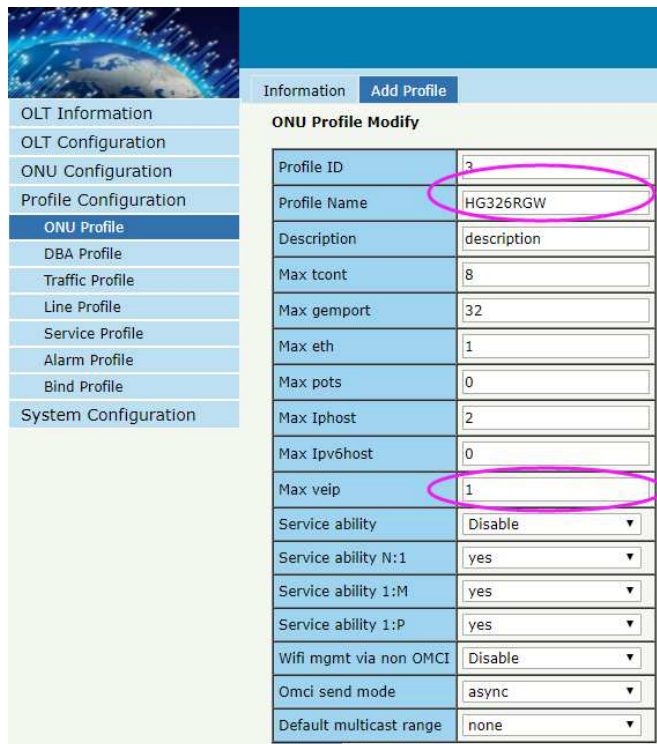
```
gpon-olt(config)# onu auto-learn bind onu-profile IGD HG326RGW
```

```
gpon-olt(config)# interface gpon 0/1
```

```
gpon-olt(config-gpon-0/1)# onu auto-learn
```

#### By Web -----

- 1、 Create ONU profile for 4GE HGU



| ONU Profile Modify      |             |
|-------------------------|-------------|
| Profile ID              | 3           |
| Profile Name            | HG326RGW    |
| Description             | description |
| Max tcont               | 8           |
| Max gemport             | 32          |
| Max eth                 | 1           |
| Max pots                | 0           |
| Max lphost              | 2           |
| Max lpv6host            | 0           |
| Max veip                | 1           |
| Service ability         | Disable     |
| Service ability N:1     | yes         |
| Service ability 1:M     | yes         |
| Service ability 1:P     | yes         |
| Wifi mgmt via non OMCI  | Disable     |
| Omci send mode          | async       |
| Default multicast range | none        |

- 2, Equipment ID binding ONU profile

OLT Information

OLT Configuration

ONU Configuration

ONU AuthList

ONU AutoFind

ONU AutoLearn

ONU Upgrade

Rogue ONU

Profile Configuration

System Configuration

ONU AutoLearn

ONU AutoBind

Automatic Bind

| Equipment ID | ONU Profile | Line Profile | Service Profile | Alarm Profile | Action |
|--------------|-------------|--------------|-----------------|---------------|--------|
|--------------|-------------|--------------|-----------------|---------------|--------|

Add ONU Auto Bind

Equipment ID

IGD

ONU Profile

HG326RGW

Add

Refresh

3, enable automatic learn mode

OLT Information

OLT Configuration

ONU Configuration

ONU AuthList

ONU AutoFind

ONU AutoLearn

ONU Upgrade

Rogue ONU

Profile Configuration

System Configuration

ONU AutoLearn

ONU AutoBind

Automatic Learn

| PON ID | Enable  | Default ONU Profile |
|--------|---------|---------------------|
| PON1   | Enable  | default             |
| PON2   | Disable | default             |
| PON3   | Disable | default             |
| PON4   | Disable | default             |
| PON5   | Disable | default             |
| PON6   | Disable | default             |
| PON7   | Disable | default             |
| PON8   | Disable | default             |

Apply

Refresh

If ONU is successfully registered, working will be shown here

OLT Information

OLT Configuration

ONU Configuration

ONU AuthList

ONU AutoFind

ONU AutoLearn

ONU Upgrade

Rogue ONU

Profile Configuration

System Configuration

Automatic Discovery

ONU Status Info

Port ID

PON1

| ONU ID    | Admin State | OMCC State | Phase State |
|-----------|-------------|------------|-------------|
| GPON0/1:1 | Enable      | Enable     | working     |

Refresh

## Automatic Configure the ONU By Profile

Create a line profile and srv profile. When the ONU online, it can be bound the corresponding line profile and srvprofile according to the Equipment id.

### Planning Data

| Item         | Description             | Example              |
|--------------|-------------------------|----------------------|
| ONU Type     | The type of onu         | 2801ZG               |
| ONU SN       | ONU serial number       | GPON000000C0         |
| OLT PON      | The PON port of OLT     | GPON 0/1             |
| Equipment id | The Equipment id of ONU | V2801ZGV8.0          |
| Tcont        | Tcont                   | 1                    |
| Gemport      | Gemport                 | 1                    |
| Service      | The onu Service         | Vlan 100             |
| Service-port | The onu service-port    | Vlan 100<br>Mode tag |

### Automatic configure onu

#### By CLI -----

```
gpon-olt(config)# profile onu name V2801ZG

gpon-olt(profile-onu:3)# port-num eth 1

gpon-olt(profile-onu:3)# commit

gpon-olt(profile-onu:3)# exit

gpon-olt(config)# profile dba name dba_1

gpon-olt(profile-dba:4)# type 3 assured 10000 maximum 100000

gpon-olt(profile-dba:4)# exit

gpon-olt(profile-dba:4)# commit

gpon-olt(config)# profile line name line1

gpon-olt(profile-line:1)# tcont 1 dba dba_1

gpon-olt(profile-line:1)# gemport 1 tcont 1
```

```
gpon-olt(profile-line:1)# service 1 gempport 1 vlan 100

gpon-olt(profile-line:1)# service-port 1 gempport 1 uservlan 100 vlan 100

gpon-olt(profile-line:1)# commit

gpon-olt(profile-line:1)# exit

pon-olt(config)# profile srv name srv1

gpon-olt(profile-srv:1)# portvlan eth 1 mode hybrid def_vlan 100

gpon-olt(profile-srv:1)# commit

gpon-olt(profile-srv:1)# exit

gpon-olt(config)# onu auto-learn bind onu-profile V2801ZG8.0 V2801ZG

gpon-olt(config)# onu auto-learn bind line-profile V2801ZGV8.0 line1

gpon-olt(config)# onu auto-learn bind srv-profile V2801ZGV8.0 srv1

gpon-olt(config)# interface gpon 0/1

gpon-olt(config-pon-0/1)# onu auto-learn

gpon-olt(config-pon-0/1)#exit
```

**By Web** -----

1、 Create ONU profile for 1GE ONU



Information

Add Profile

OLT Information

OLT Configuration

ONU Configuration

Profile Configuration

Onu Profile

DBA Profile

Traffic Profile

Line Profile

Service Profile

Alarm Profile

Bind Profile

System Configuration

Onu Profiles Modify

|                         |         |
|-------------------------|---------|
| Profile ID              | 1       |
| Profile Name            | V2801ZG |
| Description             | 1GE SFU |
| Max tcont               | 8       |
| Max gempport            | 32      |
| Max eth                 | 1       |
| Max pots                | 0       |
| Max iphost              | 2       |
| Max ipv6host            | 0       |
| Max veip                | 0       |
| Service Ability         | Disable |
| Service ability N:1     | yes     |
| Service ability 1:M     | yes     |
| Service ability 1:P     | yes     |
| Wifi mgmt via non OMCI  | Disable |
| Omci send mode          | async   |
| Default multicast range | none    |

Commit

2, Equipment ID bind ONU profile



ONU AutoLearn

ONU AutoBind

OLT Information

OLT Configuration

ONU Configuration

ONU AuthList

ONU AutoFind

ONU AutoLearn

ONU Upgrade

Rogue ONU

Profile Configuration

System Configuration

Automatic Bind

| Equipment ID | ONU Profile | Line Profile | Srv Profile | Alarm Profile | Action                 |
|--------------|-------------|--------------|-------------|---------------|------------------------|
| V2801ZGV8.0  | V2801ZG     | N/A          | N/A         | N/A           | <a href="#">Delete</a> |

Add ONU Auto Bind

Equipment ID

V2801ZGV8.0

ONU Profile

V2801ZG

Add

Refresh

3, create line profile

OLT Information

OLT Configuration

ONU Configuration

Profile Configuration

Onu Profile

DBA Profile

Traffic Profile

Line Profile

Service Profile

Alarm Profile

Bind Profile

System Configuration

Line Profile

Add Profile

Add Profile

Profile ID

1

Profile Name

line\_1

Add

OLT Information

OLT Configuration

ONU Configuration

Profile Configuration

Onu Profile

DBA Profile

Traffic Profile

Line Profile

Service Profile

Alarm Profile

Bind Profile

System Configuration

Line Profile

Add Profile

Line Profiles

| Profile ID | Profile Name | Action                                           |
|------------|--------------|--------------------------------------------------|
| 1          | line_1       | <div>Detail &amp; Modify</div> <div>Delete</div> |

Refresh

4, create tcont



Line Profile

Add Profile

OLT Information

OLT Configuration

ONU Configuration

Profile Configuration

Onu Profile

DBA Profile

Traffic Profile

Line Profile

Service Profile

Alarm Profile

Bind Profile

System Configuration

Tcont

Gemport

Service

ServicePort

Multicast Vlan

Tcont Info

| Tcont ID | Name | Dbp Profile | Action |
|----------|------|-------------|--------|
| 1        | 1    | dba_1       |        |

Add Tcont

|                  |       |           |
|------------------|-------|-----------|
| Tcont ID         | 1     | (1 ~ 255) |
| Tcont Name       | 1     |           |
| Dbp Profile Name | dba_1 |           |

Add

5, create gemport



Line Profile

Add Profile

OLT Information

OLT Configuration

ONU Configuration

Profile Configuration

Onu Profile

DBA Profile

Traffic Profile

Line Profile

Service Profile

Alarm Profile

Bind Profile

System Configuration

Tcont

Gemport

Service

ServicePort

Multicast Vlan

Gemport Info

| Gemport ID | Name    | Tcont | Cos | Upstream | Downstream | State  | UpQueueMapId | DownQueueMapId | Action |
|------------|---------|-------|-----|----------|------------|--------|--------------|----------------|--------|
| 1          | default | 1     | N/A | default  | default    | Enable | N/A          | N/A            |        |

Add Gemport

|                    |         |         |
|--------------------|---------|---------|
| Gemport ID         | 1       | (1~255) |
| TcontID            | 1       |         |
| Gemport Name       | default |         |
| Cos                | N/A     | (0-7)   |
| Upstream Traffic   | default |         |
| Downstream Traffic | default |         |
| UpQueueMapId       | N/A     | (0-3)   |
| DownQueueMapId     | N/A     | (0-7)   |
| State              | Enable  |         |

Add

6 create service



Line Profile

Add Profile

OLT Information

OLT Configuration

ONU Configuration

Profile Configuration

Onu Profile

DBA Profile

Traffic Profile

Line Profile

Service Profile

Alarm Profile

Bind Profile

System Configuration

Tcont

Gemport

Service

ServicePort

Multicast Vlan

Service Info

| Service Name | Gemport | Vlan Mode | Vlan List | Cos List | Port | Action |
|--------------|---------|-----------|-----------|----------|------|--------|
|--------------|---------|-----------|-----------|----------|------|--------|

Add Service

|                |                                                         |  |  |  |  |  |
|----------------|---------------------------------------------------------|--|--|--|--|--|
| Service Name   | <input type="text" value="1"/>                          |  |  |  |  |  |
| Gemport ID     | <input type="text" value="1"/>                          |  |  |  |  |  |
| Vlan Mode      | <input type="text" value="Tag"/>                        |  |  |  |  |  |
| Vlan List      | <input type="text" value="100"/> (X,X or X-X;0 for all) |  |  |  |  |  |
| Cos List       | <input type="text" value="N/A"/> (X,X or X-X;)          |  |  |  |  |  |
| Port Type      | <input type="text" value="N/A"/>                        |  |  |  |  |  |
| <div>Add</div> |                                                         |  |  |  |  |  |

## 7、create service-port



Line Profile

Add Profile

OLT Information

OLT Configuration

ONU Configuration

Profile Configuration

Onu Profile

DBA Profile

Traffic Profile

Line Profile

Service Profile

Alarm Profile

Bind Profile

System Configuration

Tcont

Gemport

Service

ServicePort

Multicast Vlan

Service Port Info

| Service Port | Vport | BeginVid | EndVid | OuterVid | Innervid | UserPrio | Etype | Vlan | Cos | SVlan | SCos | Mode | Enable | Description | Action |
|--------------|-------|----------|--------|----------|----------|----------|-------|------|-----|-------|------|------|--------|-------------|--------|
|--------------|-------|----------|--------|----------|----------|----------|-------|------|-----|-------|------|------|--------|-------------|--------|

Add Service Port

|                 |                                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|----------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Service Mode    | <input type="text" value="Cvlan"/>     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Service-Port ID | <input type="text" value="1"/> (1~128) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Gemport ID      | <input type="text" value="1"/>         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| User Vlan       | <input type="text" value="100"/>       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Translate Vlan  | <input type="text" value="100"/>       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Translate Cos   | <input type="text" value="N/A"/> (0-7) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Translate Svlan | <input type="text" value="N/A"/>       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Translate Scos  | <input type="text" value="N/A"/> (0-7) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Description     | <input type="text" value="N/A"/>       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <div>Add</div>  |                                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## 8、create service profile

Service Profiles **Add Profile**

**Add Profile**

Profile ID:

Profile Name:

**Add**

Service Profiles **Add Profile**

**Service Profiles**

| Profile ID | Profile Name | Action                                                      |
|------------|--------------|-------------------------------------------------------------|
| 1          | srv_1        | <a href="#">Details &amp; Modify</a> <a href="#">Delete</a> |

**Refresh**

## 9、create service profile

Service Profiles **Add Profile**

PortVlan Multicast Vlan Strip Iphost config

**PortVlan Info(Service Profile:1)**

| Port Name | Mode | Vlan | Vlan Pri(tag) | Default Vlan(hybrid) | Default Pri(hybrid) | CVlan(translate) | CVlanPri(translate) | SVlan(translate) | SVlan Pri(translate) |
|-----------|------|------|---------------|----------------------|---------------------|------------------|---------------------|------------------|----------------------|
|           | Tag  | 100  | (1-4094)      |                      |                     |                  |                     |                  |                      |

**Add PortVlan**

Mode:

Port Type:

Port Id:

Vlan:  (1-4094)

Vlan Pri:  (0-7)

**Commit**

## 10、bind profile



ONU AutoLearn

ONU AutoBind

OLT Information

OLT Configuration

ONU Configuration

ONU AuthList

ONU AutoFind

ONU AutoLearn

ONU Upgrade

Rogue ONU

Profile Configuration

System Configuration

Automatic Bind

| Equipment ID | ONU Profile | Line Profile | Srv Profile | Alarm Profile | Action |
|--------------|-------------|--------------|-------------|---------------|--------|
|--------------|-------------|--------------|-------------|---------------|--------|

Add ONU Auto Bind

|              |             |             |         |              |        |             |       |
|--------------|-------------|-------------|---------|--------------|--------|-------------|-------|
| Equipment ID | V2801ZGV8.0 | ONU Profile | V2801ZG | Line Profile | line_1 | Srv Profile | srv_1 |
|--------------|-------------|-------------|---------|--------------|--------|-------------|-------|

Add Refresh

11, enable automatic learn mode



ONU AutoLearn

ONU AutoBind

OLT Information

OLT Configuration

ONU Configuration

ONU AuthList

ONU AutoFind

ONU AutoLearn

ONU Upgrade

Rogue ONU

Profile Configuration

System Configuration

Automatic Learn

| PON ID | Enable  | Default ONU Profile |
|--------|---------|---------------------|
| PON1   | Enable  | default             |
| PON2   | Disable | default             |
| PON3   | Disable | default             |
| PON4   | Disable | default             |
| PON5   | Disable | default             |
| PON6   | Disable | default             |
| PON7   | Disable | default             |
| PON8   | Disable | default             |

Apply Refresh

## Show/Delete the ONU

### Show the ONU status

By CLI -----

```
gpon-olt(config-pon-0/1)# show onu state
```

|          |             |            |             |              |         |
|----------|-------------|------------|-------------|--------------|---------|
| OnuIndex | Admin State | OMCC State | Phase State | Config State | Channel |
|----------|-------------|------------|-------------|--------------|---------|

1/1/1:1      enable      enable      working      succeeded      1(GPON)

By Web -----

| ONU ID    | Admin State | OMCC State | Phase State |
|-----------|-------------|------------|-------------|
| GPON0/1:1 | Enable      | Enable     | working     |

## Delete the ONU status

By CLI -----

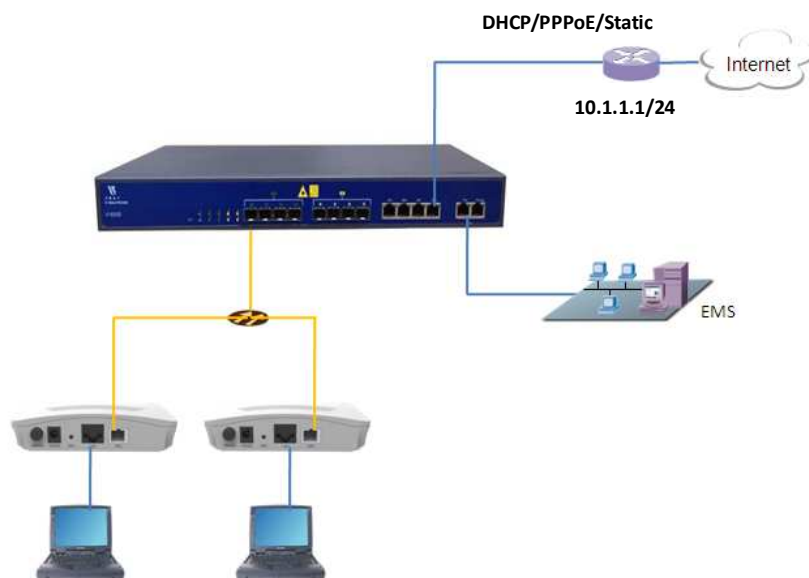
```
gpon-olt(config-pon-0/1)# no onu 1
```

By Web -----

| ONU ID    | ONU Profile | Auth Mode | Auth Info    | Action                                               |
|-----------|-------------|-----------|--------------|------------------------------------------------------|
| GPON0/1:1 | VZ801ZG     | Sn        | GPON000010E6 | Delete Config Modify Optical Info Detail Info Reboot |

## Case 1 SFU Bridge

### Network Diagram



### Planning Data

| Item            |              | Description                                                  | Example      |
|-----------------|--------------|--------------------------------------------------------------|--------------|
| ONU Information | Slot No.     | The number of the slot actually used.                        | 0            |
|                 | PON No.      | The number of the actually used PON port.                    | 1            |
|                 | ONU Auth No. | Configure according to the network planning of the operator. | 1            |
|                 | ONU Type     | The type of the ONU.                                         | 2801ZG       |
|                 | ONU SN       | ONU serial number                                            | GPON000000C0 |
|                 | OLT PON      | The PON port of OLT                                          | GPON 0/1     |

|     |                       |                                                                     |                                                                                                   |
|-----|-----------------------|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
|     | Equipid               | The Equipment id of ONU                                             | V2801ZGV8.0                                                                                       |
| OLT | Service Uplink VLAN   | The VLAN ID of the uplink port service.                             | VLAN mode = UNTAG<br>PVID = 100                                                                   |
|     | Service Uplink port   | Configure according to the number of the actually used uplink port. | GE8                                                                                               |
| ONU | Service LAN port      | The number of the actually used ONU port.                           | LAN1                                                                                              |
|     | Tcont                 | The onu Tcont                                                       | Tcont=1                                                                                           |
|     | Gemport               | The onu Gemport                                                     | Gemport=1                                                                                         |
|     | Dbas                  | The ONU dba profile                                                 | Dbas name= dba_1<br>Dbas type = 3                                                                 |
|     | Service vlan          | The vlan of ONU service.                                            | Service Vlan = 100                                                                                |
|     | Service-port uservlan | The vlan of onu service-port                                        | Service-port vlan =100                                                                            |
|     | Portvlan              | The vlan of onu port                                                | Portvlan=100<br>Mode=hybrid                                                                       |
|     | If DHCP mode          | The router use DHCP assign ip to PC.                                | Gateway = 10.1.1.1<br>IP Range<br>10.1.1.2-10.1.1.254<br>IP Mask = 255.255.255.0<br>DNS = 8.8.8.8 |
| PC  | If PPPoE mode         | The router use PPPoE assign ip to PC.                               | IP Range<br>10.1.1.2-10.1.1.254<br>IP Mask = 255.255.255.0<br>User name = test<br>Password = test |
|     | If Static mode        | The router use Static assign ip to PC.                              | Gateway = 10.1.1.1<br>IP = 10.1.1.100<br>IP Mask = 255.255.255.0<br>DNS = 8.8.8.8                 |

## Configuring the OLT

By CLI -----

```
gpon-olt(config)# vlan 100
```

```
gpon-olt(config-vlan-100)# exit
```

```
gpon-olt(config)# interface gigabitethernet 0/8
```

```
gpon-olt(config-if-ge0/8)# switchport hybrid vlan 100 untagged
```

```
gpon-olt(config-if-ge0/8)# switchport hybrid pvid vlan 100
```

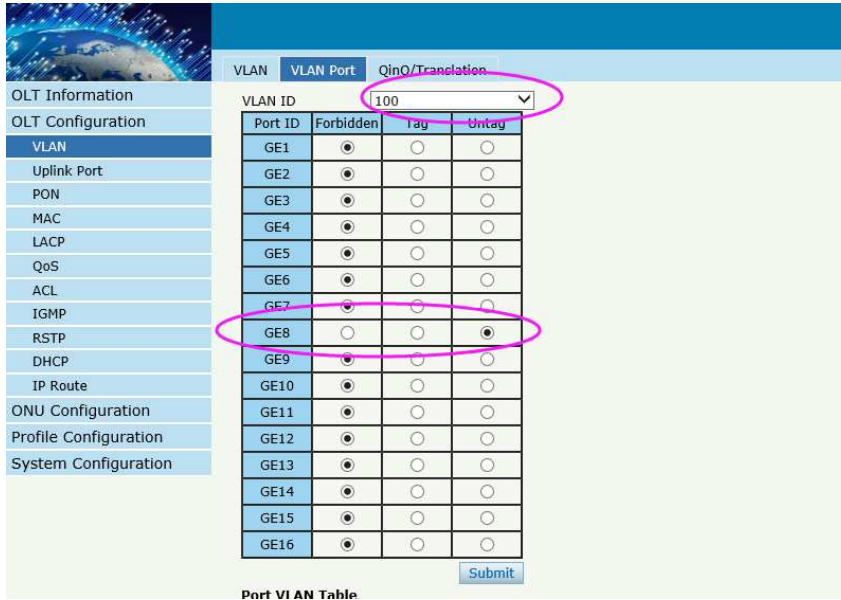
```
gpon-olt(config-if-ge0/8)# exit
```

**By Web** -----

1, Create a new VLAN

| VLAN ID | Description | Edit | Delete |
|---------|-------------|------|--------|
| 1       | default     |      |        |

2. Configure GE port VLAN mode

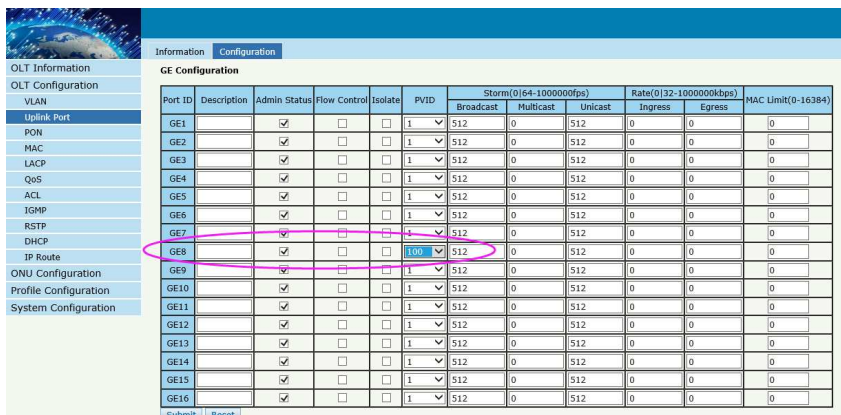


The screenshot shows the 'VLAN Port QinQ Translation' configuration page. On the left is a navigation menu with options like OLT Information, OLT Configuration, VLAN, Uplink Port, PON, MAC, LACP, QoS, ACL, IGMP, RSTP, DHCP, IP Route, ONU Configuration, Profile Configuration, and System Configuration. The main area has tabs for 'VLAN', 'VLAN Port', and 'QinQ Translation'. The 'VLAN ID' dropdown is set to '100'. Below it is a table for 'Port ID' (GE1 to GE16) with columns for 'Forbidden', 'Tag', and 'Untag'. GE8 is selected, and its 'Untag' checkbox is checked. A 'Submit' button is at the bottom right.

| Port ID | Forbidden                        | Tag                   | Untag                            |
|---------|----------------------------------|-----------------------|----------------------------------|
| GE1     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE2     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE3     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE4     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE5     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE6     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE7     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE8     | <input type="radio"/>            | <input type="radio"/> | <input checked="" type="radio"/> |
| GE9     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE10    | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE11    | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE12    | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE13    | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE14    | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE15    | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE16    | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |

Port VLAN Table

### 3, Configure GE port PVID



The screenshot shows the 'GE Configuration' page. The left navigation menu is the same. The main area has tabs for 'Information' and 'Configuration'. The 'Configuration' tab is active, showing a table for GE ports (GE1 to GE16). The table has columns for 'Port ID', 'Description', 'Admin Status', 'Flow Control', 'Isolate', 'PVID', 'Storm' (Broadcast, Multicast, Unicast), 'Rate' (Ingress, Egress), and 'MAC Limit'. GE8 is selected, and its 'PVID' is set to '100'.

| Port ID | Description | Admin Status                        | Flow Control             | Isolate                  | PVID | Storm(0/64-1000000fps) |           |         | Rate(0/32-1000000kbps) |        | MAC Limit(0-16384) |
|---------|-------------|-------------------------------------|--------------------------|--------------------------|------|------------------------|-----------|---------|------------------------|--------|--------------------|
|         |             |                                     |                          |                          |      | Broadcast              | Multicast | Unicast | Ingress                | Egress |                    |
| GE1     |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE2     |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE3     |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE4     |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE5     |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE6     |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE7     |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE8     |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 100  | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE9     |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE10    |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE11    |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE12    |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE13    |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE14    |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE15    |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE16    |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |

## Configuring the ONU

By CLI -----

```
gpon-olt(config)#profile dba name dba_1
```

```
gpon-olt(profile-dba:1)# type 3 assured 10000 maximum 1000000
```

```
gpon-olt(profile-dba:1)# commit
```

```

gpon-olt(profile-dba:1)# exit

gpon-olt(config)# interface gpon 0/1

gpon-olt(config-gpon-0/1)# onu 1 tcont 1 dba dba_1

gpon-olt(config-gpon-0/1)# onu 1 gemport 1 tcont 1

gpon-olt(config-gpon-0/1)# onu 1 service 1 gemport 1 vlan 100

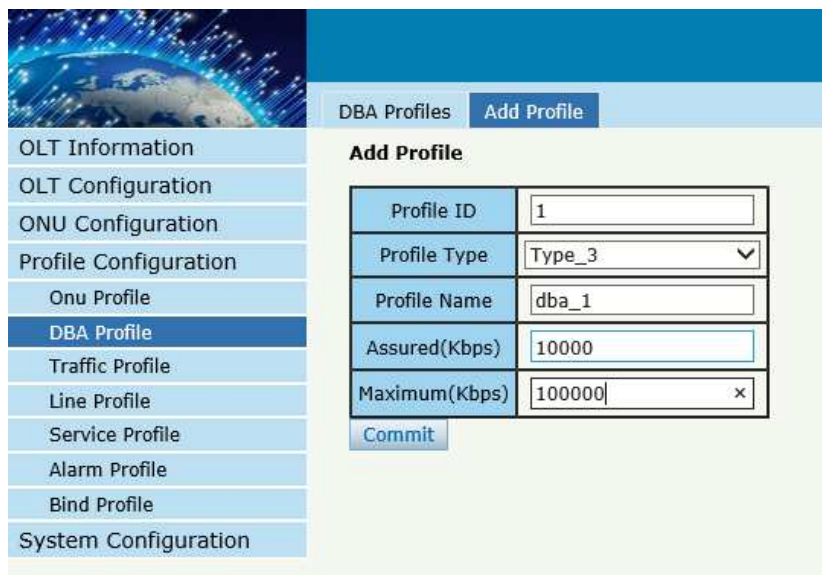
gpon-olt(config-gpon-0/1)#onu 1 service-port 1 gemport 1 uservlan 100 vlan 100

gpon-olt(config-gpon-0/1)#onu 1 portvlan eth 1 mode hybrid def_vlan 100

```

**By Web** -----

1, create DBA profile



| DBA Profiles          |  |
|-----------------------|--|
| OLT Information       |  |
| OLT Configuration     |  |
| ONU Configuration     |  |
| Profile Configuration |  |
| Onu Profile           |  |
| <b>DBA Profile</b>    |  |
| Traffic Profile       |  |
| Line Profile          |  |
| Service Profile       |  |
| Alarm Profile         |  |
| Bind Profile          |  |
| System Configuration  |  |

**Add Profile**

|               |        |
|---------------|--------|
| Profile ID    | 1      |
| Profile Type  | Type_3 |
| Profile Name  | dba_1  |
| Assured(Kbps) | 10000  |
| Maximum(Kbps) | 100000 |

Commit

2,Create ONU profile for 1GE ONU



Information

Add Profile

OLT Information

OLT Configuration

ONU Configuration

Profile Configuration

Onu Profile

DBA Profile

Traffic Profile

Line Profile

Service Profile

Alarm Profile

Bind Profile

System Configuration

Onu Profiles Modify

|                         |         |
|-------------------------|---------|
| Profile ID              | 1       |
| Profile Name            | V2801ZG |
| Description             | 1GE SFU |
| Max tcont               | 8       |
| Max gempport            | 32      |
| Max eth                 | 1       |
| Max pots                | 0       |
| Max iphost              | 2       |
| Max ipv6host            | 0       |
| Max veip                | 0       |
| Service Ability         | Disable |
| Service ability N:1     | yes     |
| Service ability 1:M     | yes     |
| Service ability 1:P     | yes     |
| Wifi mgmt via non OMCI  | Disable |
| Omci send mode          | async   |
| Default multicast range | none    |

Commit

### 3,Authorize ONU



Automatic Discovery

OLT Information

OLT Configuration

ONU Configuration

ONU AuthList

ONU AutoFind

ONU AutoLearn

ONU Upgrade

Rogue ONU

Profile Configuration

System Configuration

Automatic Discovery

Port ID PON1

| ONU ID    | Sn           | State   | Action                                          |
|-----------|--------------|---------|-------------------------------------------------|
| GPON0/1:1 | GPON000010E0 | Unknown | <a href="#">Add</a> <a href="#">Detail Info</a> |

Refresh

- OLT Information
- OLT Configuration
- ONU Configuration
  - ONU AuthList
  - ONU AutoFind
  - ONU AutoLearn
  - ONU Upgrade
  - Rogue ONU
- Profile Configuration
- System Configuration

Automatic Discovery

Add Onu

|             |              |
|-------------|--------------|
| PON Number  | 1            |
| ONU Number  | 1            |
| Auth Mode   | Sn           |
| Onu Sn      | GPON000010E0 |
| ONU Profile | V2801ZG      |

Submit

Back

#### 4, Configure ONU

- OLT Information
- OLT Configuration
- ONU Configuration
  - ONU AuthList
  - ONU AutoFind
  - ONU AutoLearn
  - ONU Upgrade
  - Rogue ONU
- Profile Configuration
- System Configuration

ONU Status **ONU List** ONU Manual Add

ONU Authentication Info

Port ID PON1

| ONU ID    | ONU Profile | Auth Mode | Auth Info    | Action                                                                                         |
|-----------|-------------|-----------|--------------|------------------------------------------------------------------------------------------------|
| GPON0/1:1 | V2801ZG     | Sn        | GPON000010E0 | <a>Delete</a> <a>Config</a> <a>Modify</a> <a>Optical Info</a> <a>Detail Info</a> <a>Reboot</a> |

Delete All

Refresh

ONU Status **ONU List** ONU Manual Add

Config Tcont

Config Gempont

Service

ServicePort

PortVlan

Multicast Vlan

Multicast Vlan Strip

Config Description

Config Port

Config Iphost

ONU Tcont Info (PON:1 ONU:1)

| Tcont ID | Name | Dbp Profile | Action |
|----------|------|-------------|--------|
|          |      |             |        |

Add ONU Tcont

Tcont ID 1

Dbp Profile Name dba\_1

Commit

Config Tcont

Config Gempport

Service

ServicePort

PortVlan

Multicast Vlan

Multicast Vlan Strip

Config Description

Config Port

Config Iphost

ONU Gempport Info (PON:1 ONU:1)

| Gempport ID | Name | Tcont | Cos | Upstream | Downstream | State | UpQueueMapId | DownQueueMapId | Action |
|-------------|------|-------|-----|----------|------------|-------|--------------|----------------|--------|
|-------------|------|-------|-----|----------|------------|-------|--------------|----------------|--------|

Add ONU Gempport

|                    |         |   |       |  |  |  |  |  |  |
|--------------------|---------|---|-------|--|--|--|--|--|--|
| Gempport ID        | 1       | x |       |  |  |  |  |  |  |
| TcontID            | 1       |   |       |  |  |  |  |  |  |
| Gempport Name      | default |   |       |  |  |  |  |  |  |
| Cos                | N/A     |   | (0-7) |  |  |  |  |  |  |
| Upstream Traffic   | default |   |       |  |  |  |  |  |  |
| Downstream Traffic | default |   |       |  |  |  |  |  |  |
| UpQueueMapId       | N/A     |   | (0-3) |  |  |  |  |  |  |
| DownQueueMapId     | N/A     |   | (0-7) |  |  |  |  |  |  |
| State              | Enable  |   |       |  |  |  |  |  |  |

Commit

ONU Status

ONU List

ONU Manual Add

Config Tcont

Config Gempport

Service

ServicePort

PortVlan

Multicast Vlan

Multicast Vlan Strip

Config Description

Config Port

Config Iphost

ONU Service Info (PON:1 ONU:1)

| Service Name | Gempport | Vlan Mode | Vlan List | Cos List | Port | Action |
|--------------|----------|-----------|-----------|----------|------|--------|
|--------------|----------|-----------|-----------|----------|------|--------|

Add ONU Service

|              |     |   |                        |  |  |  |
|--------------|-----|---|------------------------|--|--|--|
| Service Name | 1   |   |                        |  |  |  |
| Gempport ID  | 1   |   |                        |  |  |  |
| Vlan Mode    | Tag |   |                        |  |  |  |
| Vlan List    | 100 | x | (X,X or X-X;0 for all) |  |  |  |
| Cos List     | N/A |   | (X,X or X-X;)          |  |  |  |
| Port Type    | N/A |   |                        |  |  |  |

Commit

ONU Status

ONU List

ONU Manual Add

Config Tcont

Config Gempport

Service

ServicePort

PortVlan

Multicast Vlan

Multicast Vlan Strip

Config Description

Config Port

Config Iphost

ONU Service Port Info (PON:1 ONU:1)

| Service Port | Vport | BenginVid | EndVid | OuterVid | InnerVid | UserPrio | Etype | Vlan | Cos | Svlan | SCos | Mode | Enable | Description | Action |
|--------------|-------|-----------|--------|----------|----------|----------|-------|------|-----|-------|------|------|--------|-------------|--------|
|--------------|-------|-----------|--------|----------|----------|----------|-------|------|-----|-------|------|------|--------|-------------|--------|

Add ONU Service Port

|                 |       |   |       |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|-------|---|-------|--|--|--|--|--|--|--|--|--|--|--|--|
| Service Mode    | Cvlan |   |       |  |  |  |  |  |  |  |  |  |  |  |  |
| Service-Port ID | 1     |   |       |  |  |  |  |  |  |  |  |  |  |  |  |
| Gempport ID     | 1     |   |       |  |  |  |  |  |  |  |  |  |  |  |  |
| User Vlan       | 100   |   |       |  |  |  |  |  |  |  |  |  |  |  |  |
| Translate Vlan  | 100   | x |       |  |  |  |  |  |  |  |  |  |  |  |  |
| Translate Cos   | N/A   |   | (0-7) |  |  |  |  |  |  |  |  |  |  |  |  |
| Translate Svlan | N/A   |   |       |  |  |  |  |  |  |  |  |  |  |  |  |
| Translate Scos  | N/A   |   | (0-7) |  |  |  |  |  |  |  |  |  |  |  |  |
| Description     | N/A   |   |       |  |  |  |  |  |  |  |  |  |  |  |  |

Commit

ONU Status

ONU List

ONU Manual Add

Config Tcont

Config Gempport

Service

ServicePort

PortVlan

Multicast Vlan

Multicast Vlan Strip

Config Description

Config Port

Config Iphost

ONU PortVlan Info (PON:1 ONU:1)

| Port Name | Mode | Vlan | Vlan Pri(tag) | Default Vlan(hybrid) | Default Pri(hybrid) | CVlan(translate) | CVlanPri(translate) | SVlan(translate) | SVlan Pri(translate) | Action |
|-----------|------|------|---------------|----------------------|---------------------|------------------|---------------------|------------------|----------------------|--------|
|-----------|------|------|---------------|----------------------|---------------------|------------------|---------------------|------------------|----------------------|--------|

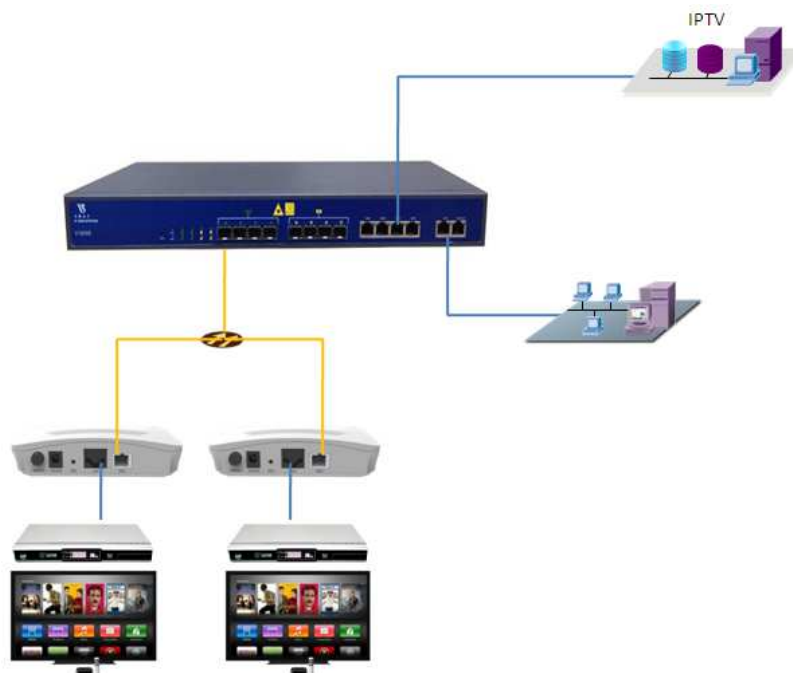
Add ONU PortVlan

|           |           |
|-----------|-----------|
| Mode      | Tag       |
| Port Type | Eth       |
| Port Id   | 1         |
| Vlan ID   | 100       |
| Vlan Pri  | N/A (0-7) |

Commit

## Case 2 SFU Bridge With IPTV

### Network Diagram



### Planning Data

| Item | Description | Example |
|------|-------------|---------|
|------|-------------|---------|

|                 |                       |                                                                  |                                  |
|-----------------|-----------------------|------------------------------------------------------------------|----------------------------------|
| ONU Information | Slot No.              | The number of the slot actually used.                            | 0                                |
|                 | PON No.               | The number of the actually used PON port.                        | 1                                |
|                 | ONU Auth No.          | Configure according to the network planning of the operator.     | 1                                |
|                 | ONU Type              | The type of the ONU.                                             | 2801ZG                           |
|                 | ONU SN                | ONU serial number                                                | GPON000000C0                     |
|                 | OLT PON               | The PON port of OLT                                              | GPON 0/1                         |
|                 | Equipid               | The Equipment id of ONU                                          | V2801ZGV8.0                      |
|                 | Service PON port      | Configure according to the number of the actually used PON port. | PON1                             |
| ONU             | Service LAN port      | The number of the actually used ONU port.                        | LAN1                             |
|                 | Tcont                 | The onu Tcont                                                    | Tcont=1                          |
|                 | Gemport               | The onu Gemport                                                  | Gemport=1                        |
|                 | Dbas                  | The ONU dba profile                                              | Dbas name=dba_1<br>Dbas type = 3 |
|                 | Service vlan          | The vlan of ONU service.                                         | Service Vlan = 300               |
|                 | Service-port uservlan | The vlan of onu service-port                                     | Service-port vlan =300           |
|                 | Portvlan              | The vlan of onu port                                             | Portvlan=300<br>Mode=hybrid      |
| IGMP            | IGMP Group            | The IP of IGMP source                                            | IP = 239.0.0.1                   |

## Configuring the OLT

CLI

```
gpon-olt(config)# vlan 300
```

```
gpon-olt(config-vlan-300)# exit
```

```
gpon-olt(config)# interface gigabitethernet 0/7
```

```
gpon-olt(config-if-ge0/7)# switchport hybrid vlan 300 untagged
```

```
gpon-olt(config-if-ge0/7)# switchport hybrid pvid vlan 300
```

```
gpon-olt(config-if-ge0/7)# exit
```

```
gpon-olt(config)# ip igmp snooping enable
```

```

gpon-olt(config)# ip igmp snooping general-query-packet enable

gpon-olt(config)# ip igmp snooping mrouter vlan 300 interface gigabitethernet 0/7

gpon-olt(config)# ip igmp snooping mvlan 300 unknown-multicast drop igmp trap-to-cpu

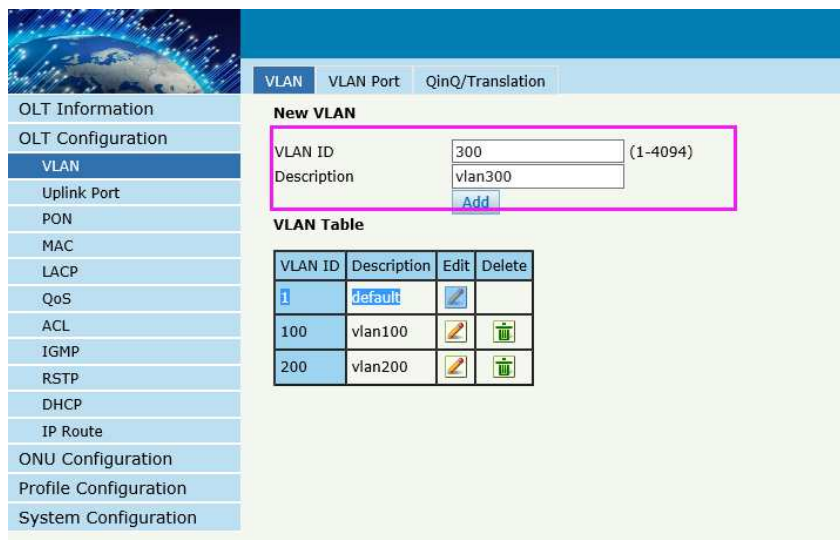
gpon-olt(config)# interface gpon 0/1

gpon-olt(config-gpon-0/1)# ip igmp snooping user-vlan 300 group-vlan 300 tagged

gpon-olt(config-gpon-0/1)# exit

```

1,create a new VLAN for IGMP



The screenshot shows a network management interface with a sidebar on the left containing various configuration options like OLT Information, OLT Configuration, VLAN, Uplink Port, PON, MAC, LACP, QoS, ACL, IGMP, RSTP, DHCP, IP Route, ONU Configuration, Profile Configuration, and System Configuration. The main area is titled 'VLAN' and has tabs for 'VLAN', 'VLAN Port', and 'QinQ/Translation'. Under the 'New VLAN' section, there are input fields for 'VLAN ID' (set to 300) and 'Description' (set to vlan300), with a range '(1-4094)' next to the ID field. An 'Add' button is below these fields. Below this is a 'VLAN Table' with columns for VLAN ID, Description, Edit, and Delete. The table lists three VLANs: '1' with description 'default', '100' with description 'vlan100', and '200' with description 'vlan200'.

| VLAN ID | Description | Edit                                                                                | Delete                                                                              |
|---------|-------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1       | default     |  |  |
| 100     | vlan100     |  |  |
| 200     | vlan200     |  |  |

2, configure VLAN mode

OLT Information

OLT Configuration

VLAN

VLAN Port

QinQ/Translation

Port VLAN Configuration

VLAN ID: 300

| Port ID | Forbidden                        | Tag                   | Untag                            |
|---------|----------------------------------|-----------------------|----------------------------------|
| GE1     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE2     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE3     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE4     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE5     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE6     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE7     | <input type="radio"/>            | <input type="radio"/> | <input checked="" type="radio"/> |
| GE8     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE9     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE10    | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE11    | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE12    | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE13    | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE14    | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE15    | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE16    | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |

Submit

Information

Configuration

GE Configuration

| Port ID | Description | Admin Status                        | Flow Control             | Isolate                  | PVID | Storm(0/64-1000000pps) |           |         | Rate(0/32-1000000kbps) |        | MAC Limit(0-16384) |
|---------|-------------|-------------------------------------|--------------------------|--------------------------|------|------------------------|-----------|---------|------------------------|--------|--------------------|
|         |             |                                     |                          |                          |      | Broadcast              | Multicast | Unicast | Ingress                | Egress |                    |
| GE1     |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE2     |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE3     |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE4     |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE5     |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE6     |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 200  | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE7     |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 300  | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE8     |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE9     |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE10    |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE11    |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE12    |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE13    |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE14    |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE15    |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE16    |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |

Submit Reset

3,enable IGMP snooping function



Group Member
Global
Port
Port User VLAN
Port Router
Mvlan
Static Group

OLT Information

OLT Configuration

VLAN

Uplink Port

PON

MAC

LACP

QoS

ACL

IGMP

RSTP

DHCP

IP Route

ONU Configuration

Profile Configuration

System Configuration

IGMP Configuration

IGMP Status

Enable

▼

Last Member Query Interval

1

(1-255)

Last Member Query Count

2

(1-255)

Last Member Query Response

1

(1-255)

General Query Packet

☒ Disable

☐ Enable

General Query Interval

125

(10-255)

Query Source IP

1.1.1.1

Submit

Reset



Group Member
Global
Port
Port User VLAN
Port Router
Mvlan
Static Group

OLT Information

OLT Configuration

VLAN

Uplink Port

PON

MAC

LACP

QoS

ACL

IGMP

RSTP

DHCP

IP Route

ONU Configuration

Profile Configuration

System Configuration

User VLAN Configuration

Port ID

PON1

▼

User VLAN ID

300

▼

Group VLAN ID

300

▼

Add

User VLAN Table

| Port ID | User VLAN ID | Group VLAN ID | Delete |
|---------|--------------|---------------|--------|
|---------|--------------|---------------|--------|



Group Member
Global
Port
Port User VLAN
Port Router
Mvlan
Static Group

OLT Information

OLT Configuration

VLAN

Uplink Port

PON

MAC

LACP

QoS

ACL

IGMP

RSTP

DHCP

IP Route

ONU Configuration

Profile Configuration

System Configuration

Add Multicast Router

Port ID

GE7

▼

Group VLAN ID

300

▼

Add

Multicast Router Table

| Port ID | Group VLAN ID | Delete |
|---------|---------------|--------|
|---------|---------------|--------|

Group Member Global Port Port User VLAN Port Mrouter **Mvlan** Static Group

**IP Igmp Mvlan Info**

| Multicast vlan | Unknown multicast | Igmp packet |
|----------------|-------------------|-------------|
| 100            | drop              | trap-to-cpu |

**Add/Modify Mvlan**

Mvlan ID(1~4094)  ×

Unknown multicast  ✓

Igmp packet  ✓

[Add/Modify](#)

OLT Information  
OLT Configuration  
VLAN  
Uplink Port  
PON  
MAC  
LACP  
QoS  
ACL  
**IGMP**  
RSTP  
DHCP  
IP Route  
ONU Configuration  
Profile Configuration  
System Configuration

## Configuring the ONU

CLI

```
pon-olt(config)# interface gpon 0/1

gpon-olt(config-pon-0/1)# onu 1 tcont 1 dba dba_1

gpon-olt(config-pon-0/1)# onu 1 gemport 3 tcont 1

gpon-olt(config-pon-0/1)# onu 1 service 1 gemport 3 vlan 300

gpon-olt(config-pon-0/1)#onu 1 service-port 1 gemport 3 uservlan 300 vlan 300

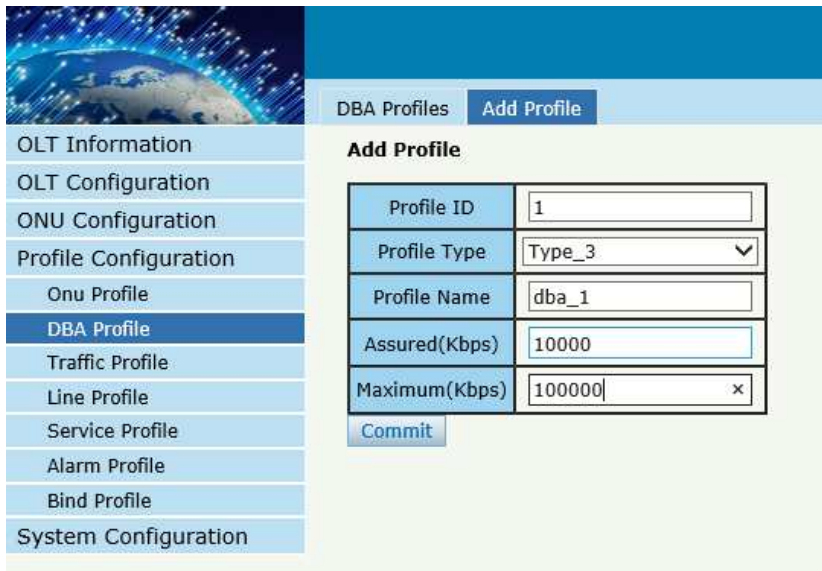
gpon-olt(config-pon-0/1)#onu 1 portvlan eth 1 mode hybrid def_vlan 300

gpon-olt(config-pon-0/1)# onu 1 mvlan 300

gpon-olt(config-pon-0/1)# onu 1 mvlan tag-strip eth 1

gpon-olt(config-pon-0/1)# exit

create DBA profile
```

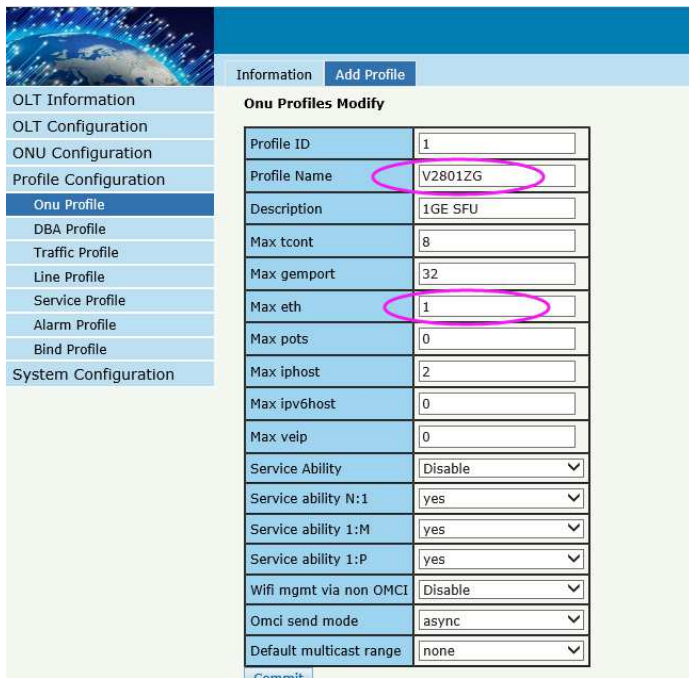


The interface shows a sidebar with navigation options: OLT Information, OLT Configuration, ONU Configuration, Profile Configuration, Onu Profile, **DBA Profile**, Traffic Profile, Line Profile, Service Profile, Alarm Profile, Bind Profile, and System Configuration. The main content area is titled 'DBA Profiles' with an 'Add Profile' button. Below this is the 'Add Profile' form.

|               |        |
|---------------|--------|
| Profile ID    | 1      |
| Profile Type  | Type_3 |
| Profile Name  | dba_1  |
| Assured(Kbps) | 10000  |
| Maximum(Kbps) | 100000 |

[Commit](#)

2, Create ONU profile for 1GE ONU



The interface shows the same sidebar as the previous screenshot. The main content area is titled 'Onu Profiles Modify' with an 'Add Profile' button. Below this is the 'Onu Profiles Modify' form.

|                         |         |
|-------------------------|---------|
| Profile ID              | 1       |
| Profile Name            | V2801ZG |
| Description             | 1GE SFU |
| Max tcont               | 8       |
| Max gempport            | 32      |
| Max eth                 | 1       |
| Max pots                | 0       |
| Max iphost              | 2       |
| Max ipv6host            | 0       |
| Max veip                | 0       |
| Service Ability         | Disable |
| Service ability N:1     | yes     |
| Service ability 1:M     | yes     |
| Service ability 1:P     | yes     |
| Wifi mgmt via non OMCI  | Disable |
| Omci send mode          | async   |
| Default multicast range | none    |

[Commit](#)

3,Authorize ONU

- OLT Information
- OLT Configuration
- ONU Configuration
  - ONU AuthList
  - ONU AutoFind
  - ONU AutoLearn
  - ONU Upgrade
  - Rogue ONU
- Profile Configuration
- System Configuration

Automatic Discovery

Automatic Discovery

Port ID PON1

| ONU ID    | Sn           | State   | Action                                          |
|-----------|--------------|---------|-------------------------------------------------|
| GPON0/1:1 | GPON000010E0 | Unknown | <a href="#">Add</a> <a href="#">Detail Info</a> |

Refresh

- OLT Information
- OLT Configuration
- ONU Configuration
  - ONU AuthList
  - ONU AutoFind
  - ONU AutoLearn
  - ONU Upgrade
  - Rogue ONU
- Profile Configuration
- System Configuration

Automatic Discovery

Add Onu

|             |                                |
|-------------|--------------------------------|
| PON Number  | <input type="text" value="1"/> |
| ONU Number  | <input type="text" value="1"/> |
| Auth Mode   | <span>Sn</span>                |
| Onu Sn      | GPON000010E0                   |
| ONU Profile | <span>V2801ZG</span>           |

Submit Back

#### 4,Configure ONU

- OLT Information
- OLT Configuration
- ONU Configuration
  - ONU AuthList
  - ONU AutoFind
  - ONU AutoLearn
  - ONU Upgrade
  - Rogue ONU
- Profile Configuration
- System Configuration

ONU Status ONU List ONU Manual Add

ONU Authentication Info

Port ID PON1

| ONU ID    | ONU Profile | Auth Mode | Auth Info    | Action                                                                                                                                               |
|-----------|-------------|-----------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| GPON0/1:1 | V2801ZG     | Sn        | GPON000010E0 | <a href="#">Delete</a> <a href="#">Config</a> <a href="#">Modify</a> <a href="#">Optical Info</a> <a href="#">Detail Info</a> <a href="#">Reboot</a> |

[Delete All](#)
[Refresh](#)



ONU Status

ONU List

ONU Manual Add

Config Tcont

Config Gempont

Service

ServicePort

PortVlan

Multicast Vlan

Multicast Vlan Strip

Config Description

Config Port

Config Iphost

OLT Information

OLT Configuration

ONU Configuration

ONU AuthList

ONU AutoFind

ONU AutoLearn

ONU Upgrade

Rogue ONU

Profile Configuration

System Configuration

ONU Tcont Info (PON:1 ONU:1)

| Tcont ID | Name    | Dbp Profile | Action |
|----------|---------|-------------|--------|
| 1        | tcont_1 | dbp_1       | Delete |

Add ONU Tcont

Tcont ID

Dbp Profile Name

dbp\_1

Commit



ONU Status

ONU List

ONU Manual Add

Config Tcont

Config Gempont

Service

ServicePort

PortVlan

Multicast Vlan

Multicast Vlan Strip

Config Description

Config Port

Config Iphost

OLT Information

OLT Configuration

ONU Configuration

ONU AuthList

ONU AutoFind

ONU AutoLearn

ONU Upgrade

Rogue ONU

Profile Configuration

System Configuration

ONU Gempont Info (PON:1 ONU:1)

| Gempont ID | Name     | Tcont | Cos | Upstream | Downstream | State  | UpQueueMapId | DownQueueMapId | Action |
|------------|----------|-------|-----|----------|------------|--------|--------------|----------------|--------|
| 1          | default  | 1     | N/A | default  | default    | Enable | N/A          | N/A            | Delete |
| 2          | default2 | 1     | N/A | default  | default    | Enable | N/A          | N/A            | Delete |

Add ONU Gempont

Gempont ID

TcontID

Gempont Name

Cos

Upstream Traffic

Downstream Traffic

UpQueueMapId

DownQueueMapId

State

Commit



ONU Status

ONU List

ONU Manual Add

Config Tcont

Config Gempont

Service

ServicePort

PortVlan

Multicast Vlan

Multicast Vlan Strip

Config Description

Config Port

Config Iphost

OLT Information

OLT Configuration

ONU Configuration

ONU AuthList

ONU AutoFind

ONU AutoLearn

ONU Upgrade

Rogue ONU

Profile Configuration

System Configuration

ONU Service Info (PON:1 ONU:1)

| Service Name | Gempont | Vlan Mode | Vlan List | Cos List | Port | Action |
|--------------|---------|-----------|-----------|----------|------|--------|
| 1            | 1       | Tag       | 100       | N/A      | N/A  | Delete |
| 2            | 2       | Tag       | 200       | N/A      | N/A  | Delete |

Add ONU Service

Service Name

Gempont ID

Vlan Mode

Vlan List

Cos List

Port Type

Commit



ONU Status

ONU List

ONU Manual Add

Config Tcont

Config Gemport

Service

ServicePort

PortVlan

Multicast Vlan

Multicast Vlan Strip

Config Description

Config Port

Config Iphost

ONU Service Port Info (PON:1 ONU:1)

| Service Port | Vport | BeginVid | EndVid | OuterVid | InnerVid | UserPri | Etype | Vlan | Cos | SVlan | SCos | Mode | Enable | Description | Action |
|--------------|-------|----------|--------|----------|----------|---------|-------|------|-----|-------|------|------|--------|-------------|--------|
| 1            | 1     | 100      | 100    | N/A      | N/A      | N/A     | N/A   | 100  | 0   | N/A   | N/A  | 1:1  | YES    | N/A         | Delete |
| 2            | 1     | 200      | 200    | N/A      | N/A      | N/A     | N/A   | 200  | 0   | N/A   | N/A  | 1:1  | YES    | N/A         | Delete |

Add ONU Service Port

Service Mode

Cvlan

Service-Port ID

3

Gemport ID

3

User Vlan

300

Translate Vlan

300

Translate Cos

N/A

(0-7)

Translate SVlan

N/A

Translate SCos

N/A

(0-7)

Description

N/A

Commit



ONU Status

ONU List

ONU Manual Add

Config Tcont

Config Gemport

Service

ServicePort

PortVlan

Multicast Vlan

Multicast Vlan Strip

Config Description

Config Port

Config Iphost

ONU PortVlan Info (PON:1 ONU:1)

| Port Name | Mode        | Vlan | Vlan Pri(tag) | Default Vlan(hybrid) | Default Pri(hybrid) | Cvlan(translate) | CvlanPri(translate) | SVlan(translate) | SVlan Pri(translate) | Action |
|-----------|-------------|------|---------------|----------------------|---------------------|------------------|---------------------|------------------|----------------------|--------|
| vlan_1    | Transparent | N/A  | N/A           | N/A                  | N/A                 | N/A              | N/A                 | N/A              | N/A                  | Delete |

Add ONU PortVlan

Mode

Transparent

Port Type

Eth

Port ID

Commit



ONU Status

ONU List

ONU Manual Add

Config Tcont

Config Gemport

Service

ServicePort

PortVlan

Multicast Vlan

Multicast Vlan Strip

Config Description

Config Port

Config Iphost

Multicast Vlan list

| ONU ID | Vlan List | Action     |
|--------|-----------|------------|
| 1      | N/A       | Delete All |

Add/Del Multicast Vlan (max 32 vlans)

Mvlan List

300

(100,103 or 105-108)

Add

Del



ONU Status

ONU List

ONU Manual Add

Config Tcont

Config Gemport

Service

ServicePort

PortVlan

Multicast Vlan

Multicast Vlan Strip

Config Description

Config Port

Config Iphost

Multicast Vlan list

| ONU ID | Vlan Mode | Port | Action |
|--------|-----------|------|--------|
|        |           |      |        |

Add/Del Multicast Strip

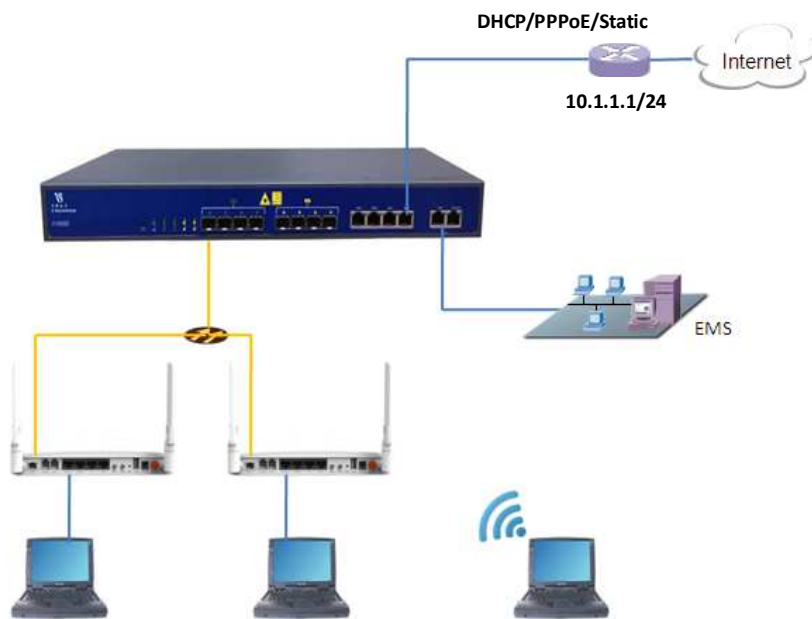
Strip Eth Number

1

Confirm

## Case 4 HGU Router --Internet

### Network Diagram



### Planning Data

| Item            |                     | Description                                                         | Example                         |
|-----------------|---------------------|---------------------------------------------------------------------|---------------------------------|
| ONU Information | Slot No.            | The number of the slot actually used.                               | 0                               |
|                 | PON No.             | The number of the actually used PON port.                           | 1                               |
|                 | ONU Auth No.        | Configure according to the network planning of the operator.        | 1                               |
|                 | ONU Type            | The type of the ONU.                                                | HG326RGW                        |
| OLT             | Service Uplink VLAN | The VLAN ID of the uplink port service.                             | VLAN mode = UNTAG<br>PVID = 100 |
|                 | Service Uplink port | Configure according to the number of the actually used uplink port. | GE8                             |
|                 | Service             | The VLAN ID of the PON port service.                                | VLAN mode = TAG                 |

|     |                        |                                                                  |                                                                                                                            |
|-----|------------------------|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
|     | PON VLAN               |                                                                  | VLAN ID = 100                                                                                                              |
|     | Service PON port       | Configure according to the number of the actually used PON port. | PON1                                                                                                                       |
| ONU | Service LAN VLAN       | The VLAN ID of the LAN port service.                             | Default<br>No VLAN                                                                                                         |
|     | Service LAN port       | The number of the actually used ONU port.                        | LAN1                                                                                                                       |
|     | Service LAN VLAN       | The VLAN ID of the LAN port service.                             | VLAN mode = TAG<br>PVID = 100                                                                                              |
|     | Service LAN port       | The number of the actually used ONU port.                        | LAN1                                                                                                                       |
|     | Tcont                  | The onu Tcont                                                    | Tcont=1                                                                                                                    |
|     | Gemport                | The onu Gemport                                                  | Gemport=1                                                                                                                  |
|     | Dbas                   | The ONU dba profile                                              | Dbas name=dba_1<br>Dbas type = 3                                                                                           |
|     | Service vlan           | The vlan of ONU service.                                         | Service Vlan = 100                                                                                                         |
|     | Service-port uservlan  | The vlan of onu service-port                                     | Service-port vlan =100                                                                                                     |
|     | WiFi                   | Wireless's SSID name,Security.                                   | SSID1 name = SSID-1<br>Security method = WAP2<br>Mixed<br>WPA Encryption = TKIP<br>WPA2 Encryption = AES<br>KEY = 12345678 |
|     | Service WAN VLAN       | The VLAN ID of the PON(WAN) port service.                        | VLAN ID = 100                                                                                                              |
|     | If WAN use DHCP mode   | The router use DHCP assign ip to terminal user.                  | Gateway = 10.1.1.1<br>IP Range<br>10.1.1.2-10.1.1.254<br>IP Mask = 255.255.255.0<br>DNS = 8.8.8.8                          |
|     | If WAN use PPPoE mode  | The router use PPPoE assign ip to terminal user.                 | IP Range<br>10.1.1.2-10.1.1.254<br>IP Mask = 255.255.255.0<br>User name = test<br>Password = test                          |
|     | If WAN use Static mode | The router use Static assign ip to terminal user.                | Gateway = 10.1.1.1<br>IP = 10.1.1.100<br>IP Mask = 255.255.255.0<br>DNS = 8.8.8.8                                          |
| PC  | DHCP mode              | The ONU use DHCP assign ip to PC.                                | Gateway = 192.168.1.1<br>IP = 192.168.1.2                                                                                  |

|  |  |  |                                              |
|--|--|--|----------------------------------------------|
|  |  |  | IP Mask = 255.255.255.0<br>DNS = 192.168.1.1 |
|--|--|--|----------------------------------------------|

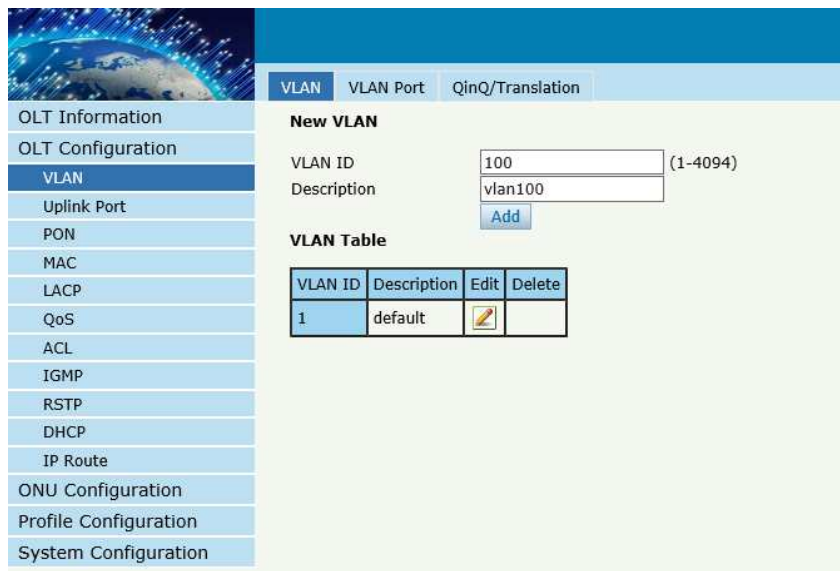
## Configuring the OLT

### By CLI -----

```
gpon-olt(config)# vlan 100
gpon-olt(config-vlan-100)# exit
gpon-olt(config)# interface gigabitethernet 0/8
gpon-olt(config-if-ge0/8)# switchport hybrid vlan 100 untagged
gpon-olt(config-if-ge0/8)# switchport hybrid pvid vlan 100
gpon-olt(config-if-ge0/8)# exit
```

### By web -----

1, Create a new VLAN



The screenshot shows the OLT web configuration interface. On the left is a navigation menu with options: OLT Information, OLT Configuration, VLAN (selected), Uplink Port, PON, MAC, LACP, QoS, ACL, IGMP, RSTP, DHCP, IP Route, ONU Configuration, Profile Configuration, and System Configuration. The main area is titled 'New VLAN' and contains the following fields:

- VLAN ID:** 100 (range 1-4094)
- Description:** vlan100
- Add:** A button to save the configuration.

Below these fields is a 'VLAN Table' with the following columns: VLAN ID, Description, Edit, and Delete.

| VLAN ID | Description | Edit                                                                                | Delete                                                                              |
|---------|-------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1       | default     |  |  |

## 2. configure GE port VLAN mode

VLAN ID: 100

| Port ID | Forbidden                        | Tag                   | Untag                            |
|---------|----------------------------------|-----------------------|----------------------------------|
| GE1     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE2     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE3     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE4     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE5     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE6     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE7     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE8     | <input type="radio"/>            | <input type="radio"/> | <input checked="" type="radio"/> |
| GE9     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE10    | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE11    | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE12    | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE13    | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE14    | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE15    | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE16    | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |

Submit

Port VLAN Table

## 3. configure GE port PVID

| Port ID | Description | Admin Status                        | Flow Control             | Isolate                  | PVID | Storm(0/64-1000000fps) |           |         | Rate(0/32-1000000kbps) |        | MAC Limit(0-16384) |
|---------|-------------|-------------------------------------|--------------------------|--------------------------|------|------------------------|-----------|---------|------------------------|--------|--------------------|
|         |             |                                     |                          |                          |      | Broadcast              | Multicast | Unicast | Ingress                | Egress |                    |
| GE1     |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE2     |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE3     |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE4     |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE5     |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE6     |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE7     |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE8     |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 100  | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE9     |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE10    |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE11    |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE12    |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE13    |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE14    |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE15    |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE16    |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |

## Configuring the ONU

By CLI -----

```

gpon-olt(config)# interface gpon 0/1

gpon-olt(config-gpon-0/1)# onu 1 tcont 1 dba dba_1

gpon-olt(config-gpon-0/1)# onu 1 gemport 1 tcont 1

gpon-olt(config-gpon-0/1)# onu 1 service 1 gemport 1 vlan 100

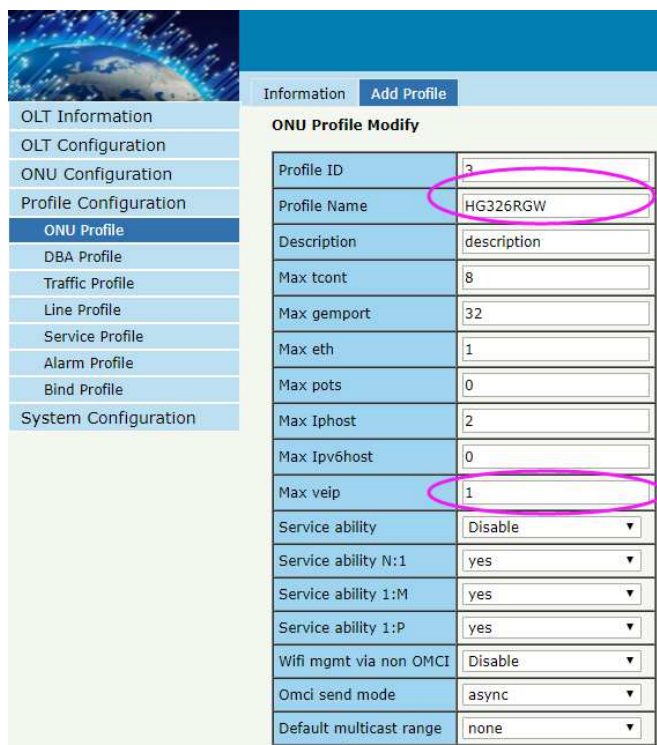
gpon-olt(config-gpon-0/1)# onu 1 service-port 1 gemport 1 uservlan 100 vlan 100

gpon-olt(config-gpon-0/1)# onu 1 portvlan veip 1 mode transparent

```

1, Create ONU profile for 4GE HGU

By web -----



| ONU Profile Modify      |             |
|-------------------------|-------------|
| Profile ID              | 2           |
| Profile Name            | HG326RGW    |
| Description             | description |
| Max tcont               | 8           |
| Max gemport             | 32          |
| Max eth                 | 1           |
| Max pots                | 0           |
| Max Iphost              | 2           |
| Max Ipv6host            | 0           |
| Max veip                | 1           |
| Service ability         | Disable     |
| Service ability N:1     | yes         |
| Service ability 1:M     | yes         |
| Service ability 1:P     | yes         |
| Wifi mgmt via non OMCI  | Disable     |
| Omci send mode          | async       |
| Default multicast range | none        |

2, Find the ONU of Autofind lists and perform authorization operations on it



Automatic Discovery

Automatic Discovery

Port ID PON1

| ONU ID    | Sn           | State   | Action                                          |
|-----------|--------------|---------|-------------------------------------------------|
| GPON0/1:1 | GPON000010E0 | Unknown | <a href="#">Add</a> <a href="#">Detail Info</a> |

Refresh

OLT Information

OLT Configuration

ONU Configuration

ONU AuthList

ONU AutoFind

ONU AutoLearn

ONU Upgrade

Rogue ONU

Profile Configuration

System Configuration

3, Select the 1GE ONU template



Automatic Discovery

Add Onu

PON Number

1

ONU Number

1

Auth Mode

Sn

Onu Sn

GPON000010E0

ONU Profile

HG326RGW

Submit

Back

OLT Information

OLT Configuration

ONU Configuration

ONU AuthList

ONU AutoFind

ONU AutoLearn

ONU Upgrade

Rogue ONU

Profile Configuration

System Configuration

4, Configure ONU



ONU Status

ONU List

ONU Manual Add

Config Tcont

Config Gampert

Service

ServicePort

PortVlan

Multicast Vlan

Multicast Vlan Strip

Config Description

Config Port

Config Iphost

ONU Tcont Info (PON:1 ONU:1)

| Tcont ID | Name | Dbc Profile | Action |
|----------|------|-------------|--------|
|          |      |             |        |

Add ONU Tcont

Tcont ID

1

Dbc Profile Name

dbc\_1

Commit

OLT Information

OLT Configuration

ONU Configuration

ONU AuthList

ONU AutoFind

ONU AutoLearn

ONU Upgrade

Rogue ONU

Profile Configuration

System Configuration

ONU Status

ONU List

ONU Manual Add

Config Tcont

Config Gempport

Service

ServicePort

PortVlan

Multicast Vlan

Multicast Vlan Strip

Config Description

Config Po

ONU Gempport Info (PON:1 ONU:1)

| Gempport ID | Name | Tcont | Cos | Upstream | Downstream | State | UpQueueMapId | DownQueueMapId | Action |
|-------------|------|-------|-----|----------|------------|-------|--------------|----------------|--------|
|             |      |       |     |          |            |       |              |                |        |

Add ONU Gempport

Gempport ID

1

x

TcontID

1

v

Gempport Name

default

Cos

N/A

(0-7)

Upstream Traffic

default

v

Downstream Traffic

default

v

UpQueueMapId

N/A

(0-3)

DownQueueMapId

N/A

(0-7)

State

Enable

v

Commit

ONU Status

ONU List

ONU Manual Add

Config Tcont

Config Gempport

Service

ServicePort

PortVlan

Multicast Vlan

Multicast Vlan Strip

Config Description

Config Port

ONU Service Info (PON:1 ONU:1)

| Service Name | Gempport | Vlan Mode | Vlan List | Cos List | Port | Action |
|--------------|----------|-----------|-----------|----------|------|--------|
|              |          |           |           |          |      |        |

Add ONU Service

Service Name

1

Gempport ID

1

v

Vlan Mode

Tag

v

Vlan List

100

x

(X,X or X-X;0 for all)

Cos List

N/A

(X,X or X-X;)

Port Type

N/A

v

Commit

ONU Status

ONU List

ONU Manual Add

Config Tcont

Config Gempport

Service

ServicePort

PortVlan

Multicast Vlan

Multicast Vlan Strip

Config Description

Config Port

Config Po

ONU Service Port Info (PON:1 ONU:1)

| Service Port | Vport | BenginVid | EndVid | OuterVid | Innervid | UserPrio | Etype | Vlan | Cos | SVlan | SCos | Mode | Enable | Description | Action |
|--------------|-------|-----------|--------|----------|----------|----------|-------|------|-----|-------|------|------|--------|-------------|--------|
|              |       |           |        |          |          |          |       |      |     |       |      |      |        |             |        |

Add ONU Service Port

Service Mode

Cvlan

v

Service-Port ID

1

Gempport ID

1

v

User Vlan

100

Translate Vlan

100

x

Translate Cos

N/A

(0-7)

Translate SVlan

N/A

Translate SCos

N/A

(0-7)

Description

N/A

Commit

Add new wan and submit this configuration

ONU Status **ONU List** ONU Manual Add

Config Tcont Config Gempport Service ServicePort **PortVlan** Multicast Vlan Multicast Vlan Strip Config Description Config Port Config Iphost

**ONU PortVlan Info (PON:1 ONU:1)**

| Port Name | Mode | Vlan | Vlan Pri(tag) | Default Vlan(hybrid) | Default Pri(hybrid) | CVlan(translate) | CVlanPri(translate) | SVlan(translate) | SVlan Pri(translate) | Action |
|-----------|------|------|---------------|----------------------|---------------------|------------------|---------------------|------------------|----------------------|--------|
|-----------|------|------|---------------|----------------------|---------------------|------------------|---------------------|------------------|----------------------|--------|

**Add ONU PortVlan**

Mode: Transparent  
Port Type: Velp  
Port Id: 1  
Commit

ONU List **ONU Status** ONU Manual Add

Tcont Gempport Service ServicePort PortVlan Multicast Port Iphost **WAN** DHCP Server BIND Mode WIFI VOIP SIP POTS Misc

**WAN Connect Table**

| Index | Mode | Service Mode | Status | Configuration Information |
|-------|------|--------------|--------|---------------------------|
|-------|------|--------------|--------|---------------------------|

**WAN Connect Parameter Configuration**

WAN Index: NEW  
WAN Connect Mode: route  
Nat Enable: Enable  
Connect Mode: DHCP  
VLAN Mode: enable  
Vlan ID: 100 (0-4095)  
802.1p: 0 (0-7)  
QOS Enable: Disable  
Service Mode: Internet  
Port Binding: ☒ Lan1 ☐ Lan2  
☐ SSID1 ☐ SSID2 ☐ SSID3 ☐ SSID4  
Submit

**WAN Connect running-config**

| Index | onu running-config | Delete |
|-------|--------------------|--------|
|-------|--------------------|--------|

Okomentoval(a): [A1]:

submit

ONU List **ONU Status** ONU Manual Add

Tcont Gempport Service ServicePort PortVlan Multicast Port Iphost **WAN** DHCP Server BIND Mode WIFI VOIP SIP POTS Misc

**WAN Connect Table**

| Index | Mode | Service Mode | Status | Configuration Information |
|-------|------|--------------|--------|---------------------------|
|-------|------|--------------|--------|---------------------------|

**WAN Connect Parameter Configuration**

WAN Index: NEW  
WAN Connect Mode: bridge  
Nat Enable: Enable  
Connect Mode: DHCP  
VLAN Mode: disable  
Vlan ID: 100 (0-4095)  
802.1p: 0 (0-7)  
QOS Enable: Disable  
Service Mode: Internet  
Port Binding: ☐ Lan1 ☐ Lan2  
☐ SSID1 ☐ SSID2 ☐ SSID3 ☐ SSID4  
Submit

**WAN Connect running-config**

| Index | onu running-config                                                                                | Delete |
|-------|---------------------------------------------------------------------------------------------------|--------|
| 1     | Connect Type:route,Service Mode:Internet,Nat:enable,Connect Mode:DHCP,vlan id 100 pri 0 Bind:lan1 |        |

Status is connected

The screenshot shows the 'WAN Connect Table' with one entry where the status is 'Connected'. A pink box highlights the 'Status' column. Below the table is the 'WAN Connect Parameter Configuration' section with various settings like WAN Index, WAN Connect Mode, VLAN Mode, QoS Enable, Service Mode, and Port Binding. At the bottom, the 'WAN Connect running-config' table shows the active configuration for the selected entry.

| Index | Mode  | Service Mode | Status    | Configuration Information                                            |
|-------|-------|--------------|-----------|----------------------------------------------------------------------|
| 1     | route | Internet     | Connected | QoS:disable,Nat:enable,Connect Mode:DHCP,vlan id 100 pri 0 Bind:lan1 |

**WAN Connect Parameter Configuration**

WAN Index: NEW  
WAN Connect Mode: bridge  
VLAN Mode: disable  
QoS Enable: Disable  
Service Mode: Internet  
Port Binding: ☐ Lan1 ☐ Lan2 ☐ SSID1 ☐ SSID2 ☐ SSID3 ☐ SSID4

**WAN Connect running-config**

| Index | onu running-config                                                                                | Delete |
|-------|---------------------------------------------------------------------------------------------------|--------|
| 1     | Connect Type:route,Service Mode:Internet,Nat:enable,Connect Mode:DHCP,vlan id 100 pri 0 Bind:lan1 |        |

If PPPoE mode

The screenshot shows the 'WAN Connect Parameter Configuration' section with 'Connect Mode' set to 'PPPoE'. A pink box highlights the configuration area. The 'WAN Connect running-config' table at the bottom shows the active configuration for the selected entry.

**WAN Connect Parameter Configuration**

WAN Index: NEW  
WAN Connect Mode: route  
Nat Enable: Disable  
Connect Mode: PPPoE  
PPPoE Proxy: Disable  
Username: test  
Password: test  
Servname:   
PPPoE Mode: Auto Connect  
VLAN Mode: enable  
Vlan ID: 100 (0-4095)  
802.1p: 0 (0-7)  
QoS Enable: Disable  
Service Mode: Internet  
Port Binding: ☒ Lan1 ☐ Lan2 ☐ SSID1 ☐ SSID2 ☐ SSID3 ☐ SSID4

**WAN Connect running-config**

| Index | onu running-config | Delete |
|-------|--------------------|--------|
| 1     |                    |        |

## Submit running-config

OLT Information

OLT Configuration

ONU Configuration

ONU AuthList

ONU AutoFind

ONU AutoLearn

ONU Upgrade

Rogue ONU

Profile Configuration

System Configuration

ONU List

ONU Status

ONU Manual Add

Tcont

Gemport

Service

Service Port

PortVlan

Multicast

Port

Iphost

WAN

DHCP Server

BIND Mode

WIFI

VOIP

SIP

POTS

Misc

WAN Connect Table

Index

Mode

Service Mode

Status

Configuration Information

WAN Connect Parameter Configuration

WAN IndexNEW

WAN Connect Modebridge

VLAN Modedisable

QOS EnableDisable

Service ModeInternet

Port Binding☐ Lan1☐ Lan2☐ SSID1☐ SSID2☐ SSID3☐ SSID4

Submit

WAN Connect running-config

Index

onu running-config

Delete

1

Connect Type:route,Service Mode:internet,Nat:disable,PPPOE Proxy:disable,UserName:test ,pwd:test,serverName:,mode:autovlan id 100 pri 0 Bind:lan1

Submit

## The connection status

OLT Information

OLT Configuration

ONU Configuration

ONU AuthList

ONU AutoFind

ONU AutoLearn

ONU Upgrade

Rogue ONU

Profile Configuration

System Configuration

ONU List

ONU Status

ONU Manual Add

Tcont

Gemport

Service

Service Port

PortVlan

Multicast

Port

Iphost

WAN

DHCP Server

BIND Mode

WIFI

VOIP

SIP

POTS

Misc

WAN Connect Table

Index

Mode

Service Mode

Status

Configuration Information

1

route

Internet

Connected

QOS:disable,Nat:disable,PPPOE Proxy:disable,UserName:test ,pwd:test,serverName:,mode:autovlan id 100 pri 0

WAN Connect Parameter Configuration

WAN IndexNEW

WAN Connect Modebridge

VLAN Modedisable

QOS EnableDisable

Service ModeInternet

Port Binding☐ Lan1☐ Lan2☐ SSID1☐ SSID2☐ SSID3☐ SSID4

Submit

WAN Connect running-config

Index

onu running-config

Delete

1

Connect Type:route,Service Mode:internet,Nat:disable,PPPOE Proxy:disable,UserName:test ,pwd:test,serverName:,mode:autovlan id 100 pri 0 Bind:lan1

Submit

If static mode

ONU List

ONU Status

ONU Manual Add

Tcont

Gemport

Service

Service Port

PortVlan

Multicast

Port

Iphost

WAN

DHCP Server

BIND Mode

WIFI

VOIP

SIP

POTS

Misc

OLT Information

OLT Configuration

ONU Configuration

ONU AuthList

ONU AutoFind

ONU AutoLearn

ONU Upgrade

Rogue ONU

Profile Configuration

System Configuration

WAN Connect Table

Index

Mode

Service Mode

Status

Configuration Information

WAN Connect Parameter Configuration

WAN Index

NEW

WAN Connect Mode

route

Nat Enable

Disable

Connect Mode

Static

IP Address

192.168.10.100

(x.x.x.x)

IP NetMask

255.255.255.0

(x.x.x.x)

Gateway

192.168.10.1

(x.x.x.x)

Master DNS

0.0.0.0

(x.x.x.x)

Slave DNS

0.0.0.0

(x.x.x.x)

VLAN Mode

enable

Vlan ID

100

(0-4095)

802.1p

0

(0-7)

QOS Enable

Disable

Service Mode

Internet

Port Binding

☒ Lan1

☐ Lan2

☐ SSID1

☐ SSID2

☐ SSID3

☐ SSID4

Submit

WAN Connect running-config

Index

onu running-config

Delete

Submit

ONU List

ONU Status

ONU Manual Add

Tcont

Gemport

Service

Service Port

PortVlan

Multicast

Port

Iphost

WAN

DHCP Server

BIND Mode

WIFI

VOIP

SIP

POTS

Misc

OLT Information

OLT Configuration

ONU Configuration

ONU AuthList

ONU AutoFind

ONU AutoLearn

ONU Upgrade

Rogue ONU

Profile Configuration

System Configuration

WAN Connect Table

Index

Mode

Service Mode

Status

Configuration Information

WAN Connect Parameter Configuration

WAN Index

NEW

WAN Connect Mode

bridge

VLAN Mode

disable

QOS Enable

Disable

Service Mode

Internet

Port Binding

☐ Lan1

☐ Lan2

☐ SSID1

☐ SSID2

☐ SSID3

☐ SSID4

Submit

WAN Connect running-config

Index

onu running-config

Delete

Submit

|   |                                                                                                                                                                                       |             |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| 1 | Connect Type:route,Service Mode:Internet,Nat:enable,Static IP:192.168.10.100,Mask:255.255.255.0,Gateway:192.168.10.1,DNS Master:0.0.0.0,DNS Slave:0.0.0.0,vlan id 100 pri 0 Bind:Lan1 | <div></div> |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|

## The connection status

The screenshot shows the 'WAN' configuration page in the ONU management interface. The left sidebar contains navigation links: OLT Information, OLT Configuration, ONU Configuration, ONU Auth List, ONU AutoFind, ONU AutoLearn, ONU Upgrade, Rogue ONU, Profile Configuration, and System Configuration. The main content area is titled 'WAN Connect Table' and includes a table with columns: Index, Mode, Service Mode, Status, and Configuration Information. Below the table is the 'WAN Connect Parameter Configuration' section with various settings like WAN Index, WAN Connect Mode, VLAN Mode, QoS Enable, Service Mode, and Port Binding. At the bottom, there is a 'WAN Connect running-config' table showing the current configuration for index 1.

| Index | Mode  | Service Mode | Status    | Configuration Information                                                                                                                                 |
|-------|-------|--------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1     | route | Internet     | Connected | QOS:disable,Nat:enable, Static IP:192.168.10.100,Mask:255.255.255.0,Gateway:192.168.10.1,DNS Master:0.0.0.0,DNS Slave:0.0.0.0,vlan id 100 pri 0 Bind:Lan1 |

**WAN Connect Parameter Configuration**

WAN Index: NEW  
 WAN Connect Mode: bridge  
 VLAN Mode: disable  
 QoS Enable: Disable  
 Service Mode: Internet  
 Port Binding: ☐ Lan1 ☐ Lan2 ☐ SSID1 ☐ SSID2 ☐ SSID3 ☐ SSID4

**WAN Connect running-config**

| Index | onu running-config                                                                                                                                                                     | Delete |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 1     | Connect Type:route,Service Mode:Internet,Nat:enable, Static IP:192.168.10.100,Mask:255.255.255.0,Gateway:192.168.10.1,DNS Master:0.0.0.0,DNS Slave:0.0.0.0/vlan id 100 pri 0 Bind:Lan1 |        |

## WIFI

The screenshot shows the 'WIFI' configuration page in the ONU management interface. The left sidebar is the same as the previous screenshot. The main content area is titled 'WIFI Switch Configuration' and includes settings for WIFI Switch, Status, Country, Standard, Channel, and Transmit Power. Below this is the 'WIFI SSID Configuration' section with settings for SSID1, Name, WIFI Status, Hide Status, Network Authentication, Encrypt Type, and Shared Key.

**WIFI Switch Configuration**

WIFI Switch: ☒  
 Status: enable  
 Country: ETSI  
 Standard: 80211bgn  
 Channel: 0 (ETSI:0-13,FCC:0-11;0:auto)  
 Transmit Power: 0 (0-20dbm)

**WIFI SSID Configuration**

SSID1: ☒  
 Name: FTTH-8070  
 WIFI Status: enable  
 Hide Status: disable  
 Network Authentication: WPA2PSK/WPA2PSK  
 Encrypt Type: TKIP  
 Shared Key: \*\*\*\*\*

Or by ONU web -----

If DHCP mode

# NetWork

Uplink Mode

Internet Connection

Status

NetWork

Security

Application

Management

Internet

Binding

LAN IP Address

WLAN

WLAN

Remote

QoS

Time

Router

## WAN Configuration

Connection Name:

Add New WAN Conn▼

Mode:

Route▼

IP Protocol Mode:

Ipv4▼

☒ DHCP

Get an address from ISP

☐ Static

Get a static IP address from ISP

☐ PPPoE

Select this when using PPPoE

Enable NAT :

☒

Enable Vlan :

☒

Vlan ID :

100

802.1p :

0▼

MTU :

1500

Request DNS:

☒ Enable

☐ Disable

Primary DNS:

Secondary DNS:

Service Mode

INTERNET▼

Turn off LAN DHCP :

☐

Port binding:

☒ Port\_1

☐ Port\_2

☐ Port\_3

☐ Port\_4

☐ WLAN(SSID1)

☐ WLAN(SSID2)

The connection status

Status

IPv4 Connection Information

IPv6 Connection Information

GPON Information

Gateway Name: Household Gateway

Logout

Status

NetWork

Security

Application

Management

Diagnose

Help

Device Information

WAN Connection Info

User Information

VOIP Information

Remote Management Status

WAN Info

| Interface            | VLAN ID | Protocol | IGMP   | Status | IP Address |
|----------------------|---------|----------|--------|--------|------------|
| 1_INTERNET_R_VID_100 | 100     | IPoE     | Enable | UP     | 10.1.1.3   |

NetWork Info

| Service Interface    | Default Gateway | Primary DNS | Secondary DNS |
|----------------------|-----------------|-------------|---------------|
| 1_INTERNET_R_VID_100 | 10.1.1.1        | 8.8.8.8     |               |

If PPPoE mode

# NetWork

Status

NetWork

Security

Applicat

Internet

Binding

LAN IP Address

WLAN

WLAN

Remote

Uplink Mode

Internet Connection

## WAN Configuration

Connection Name:

Add New WAN Conn. ▼

Mode:

Route ▼

IP Protocol Mode:

Ipv4 ▼

☐ DHCP

Get an address from ISP

☐ Static

Get a static IP address from ISP

☒ PPPoE

Select this when using PPPOE

☐

Enable PPPOE Proxy

☒

PPPoE mix Bridge Route

Enable NAT :

☒

Enable Vlan :

☒

Vlan ID :

100

802.1p :

0 ▼

MTU :

1492

UserName:

test

PassWrod

\*\*\*\*

Service Name

PPP Type

Auto Connect ▼

Service Mode

INTERNET ▼

Turn off LAN DHCP :

☐

Port binding:

☒ Port\_1
☐ Port\_2
☐ Port\_3
☐ Port\_4
☐ WLAN(SSID1)
☐ WLAN(SSID2)
☐ WLAN(SSID3)
☐ WLAN(SSID4)

The connection status

Status

IPv4 Connection Information

IPv6 Connection Information

GPON Information

Gateway Name: Household GatewayLogout

StatusNetworkSecurityApplicationManagementDiagnoseHelp

Device InformationWAN Connection InfoUser InformationVOIP InformationRemote Management Status

WAN Info

| Interface            | VLAN ID | Protocol | IGMP   | Status | IP Address |
|----------------------|---------|----------|--------|--------|------------|
| 1_INTERNET_R_VID_100 | 100     | IPoE     | Enable | UP     | 10.1.1.6   |

NetWork Info

| Service Interface    | Default Gateway | Primary DNS | Secondary DNS |
|----------------------|-----------------|-------------|---------------|
| 1_INTERNET_R_VID_100 | 10.1.1.1        | 8.8.8.8     |               |

If Static mode

NetWork

Status

NetWork

Security

Applicati

Internet

Binding

LAN IP Address

WLAN

WLAN

Remote

Uplink Mode

Internet Connection

WAN Configuration

Connection Name:

Add New WAN Conn ▾

Mode:

Route ▾

IP Protocol Mode:

Ipv4 ▾

☐ DHCP
 Get an address from ISP

☒ Static
 Get a static IP address from ISP

☐ PPPoE
 Select this when using PPPOE

Enable NAT :

☒

Enable Vlan :

☒

Vlan ID :

100

802.1p :

0 ▾

MTU :

1500

IP Address:

10.1.1.8

Subnet Mask

255.255.255.255

Deffault Gateway

10.1.1.1

Request DNS:

☐ Enable
 ☒ Disable

Primary DNS:

8.8.8.8

Secondary DNS:

Service Mode

INTERNET ▾

Turn off LAN DHCP :

☐

Port binding:

☒ Port\_1
 ☐ Port\_2
 ☐ Port\_3
 ☐ Port\_4
 ☐ WLAN(SSID1)
 ☐ WLAN(SSID2)
 ☐ WLAN(SSID3)
 ☐ WLAN(SSID4)

The connection status

Status

IPv4 Connection Information

IPv6 Connection Information

GPON Information

Gateway Name: Household Gateway

Logout

Status

NetWork

Security

Application

Management

Diagnose

Help

Device Information

WAN Connection Info

User Information

VOIP Information

Remote Management Status

WAN Info

| Interface            | VLAN ID | Protocol | IGMP   | Status | IP Address |
|----------------------|---------|----------|--------|--------|------------|
| 1_INTERNET_R_VID_100 | 100     | IPoE     | Enable | UP     | 10.1.1.8   |

NetWork Info

| Service Interface    | Default Gateway | Primary DNS | Secondary DNS |
|----------------------|-----------------|-------------|---------------|
| 1_INTERNET_R_VID_100 | 10.1.1.1        | 8.8.8.8     |               |

WiFi

WLAN Basic

WLAN Advanced

WLAN Security

This page is used to configure the parameters for WLAN clients which may connect to your Access Point. Here you may change wireless encryption settings as well as wireless network parameters

☐ Disable WLAN Interface

☐ Block WLAN Access to Web

Band:

2.4 GHz (B+G+N) ▾

Mode:

AP ▾

SSID:

FTTH

Disable Broadcast:

☐

Block Relay:

☐

Channel Width:

40MHz ▾

Channel Number:

Auto ▾

Client Number:

Disable ▾

Associated Clients:

Show Active WLAN Clients

Apply Changes

WLAN Basic

WLAN Advanced

WLAN Security

WLAN Security Settings

SSID Type:

FTTH ▾

Encryption:

WPA2 Mixed ▾

Authentication Mode:

☐ Enterprise (RADIUS)

☒ Personal (Pre-Shared Key)

WPA Cipher Suite:

☒ TKIP

☐ AES

WPA2 Cipher Suite:

☐ TKIP

☒ AES

Group Key Update Timer:

86400

Pre-Shared Key Format:

Passphrase ▾

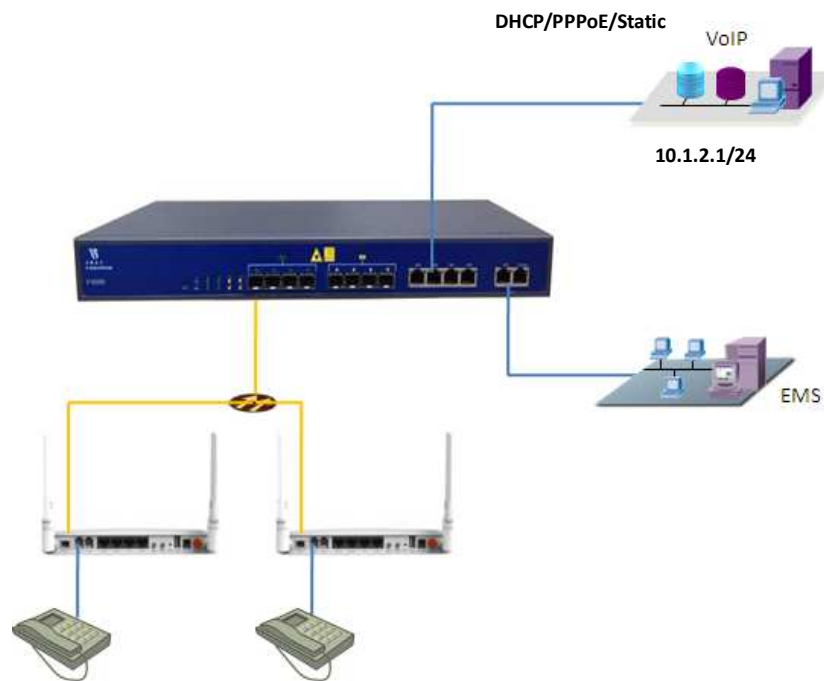
Pre-Shared Key:

\*\*\*\*\*

Apply Changes

## Case 5 HGU Router --VoIP

### Network Diagram



### Planning Data

| Item            |                     | Description                                                  | Example                         |
|-----------------|---------------------|--------------------------------------------------------------|---------------------------------|
| ONU Information | Slot No.            | The number of the slot actually used.                        | 0                               |
|                 | PON No.             | The number of the actually used PON port.                    | 1                               |
|                 | ONU Auth No.        | Configure according to the network planning of the operator. | 1                               |
|                 | ONU Type            | The type of the ONU.                                         | HG326RGW                        |
| OLT             | Service Uplink VLAN | The VLAN ID of the uplink port service.                      | VLAN mode = UNTAG<br>PVID = 200 |
|                 | Service             | Configure according to the number of                         | GE6                             |

|     |                        |                                                                 |                                                                                                     |
|-----|------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
|     | Uplink port            | the actuallyused uplink port.                                   |                                                                                                     |
|     | Service PON VLAN       | The VLAN ID of the PON port service.                            | VLAN mode = TAG<br>VLAN ID = 200                                                                    |
|     | Service PON port       | Configure according to the number of the actuallyused PON port. | PON1                                                                                                |
| ONU | Service WAN VLAN       | The VLAN ID of the PON(WAN) port service.                       | VLAN ID = 200                                                                                       |
|     | Service POTS port      | The number of the actually used ONU port.                       | POTS1                                                                                               |
|     | Tcont                  | The onu Tcont                                                   | Tcont=1                                                                                             |
|     | Gemport                | The onu Gemport                                                 | Gemport=1                                                                                           |
|     | Dbas                   | The ONU dba profile                                             | Dbas name=dba_1<br>Dbas type = 3                                                                    |
|     | Service vlan           | The vlan of ONU service.                                        | Service Vlan = 200                                                                                  |
|     | Service-port uservlan  | The vlan of onu service-port                                    | Service-port vlan =200                                                                              |
|     | If WAN use DHCP mode   | The router use DHCP assign ip to ONU.                           | Gateway = 10.1.2.1<br>IP Range<br>10.1.2.2-10.1.2.254<br>IP Mask = 255.255.255.0<br>DNS = 8.8.8.8   |
|     | If WAN use PPPoE mode  | The router use PPPoE assign ip to ONU.                          | IP Range<br>10.1.2.2-10.1.2.254<br>IP Mask = 255.255.255.0<br>User name = test1<br>Password = test1 |
|     | If WAN use Static mode | The router use Static assign ip to ONU.                         | Gateway = 10.1.2.1<br>IP = 10.1.2.100<br>IP Mask = 255.255.255.0<br>DNS = 8.8.8.8                   |

## Configuring the OLT

### By CLI

```
gpon-olt(config)# vlan 200
gpon-olt(config-vlan-200)# exit
gpon-olt(config)# interface gigabitethernet 0/6
gpon-olt(config-if-ge0/6)# switchport hybrid vlan 200 untagged
gpon-olt(config-if-ge0/6)# switchport hybrid pvid vlan 200
```

gpon-olt(config-if-ge0/6)# exit

By Web -----

1, create a new VLAN

**New VLAN**

VLAN ID: 200 (1-4094)  
Description: vlan200  
Add

**VLAN Table**

| VLAN ID | Description | Edit | Delete |
|---------|-------------|------|--------|
| 1       | default     |      |        |
| 100     | vlan100     |      |        |

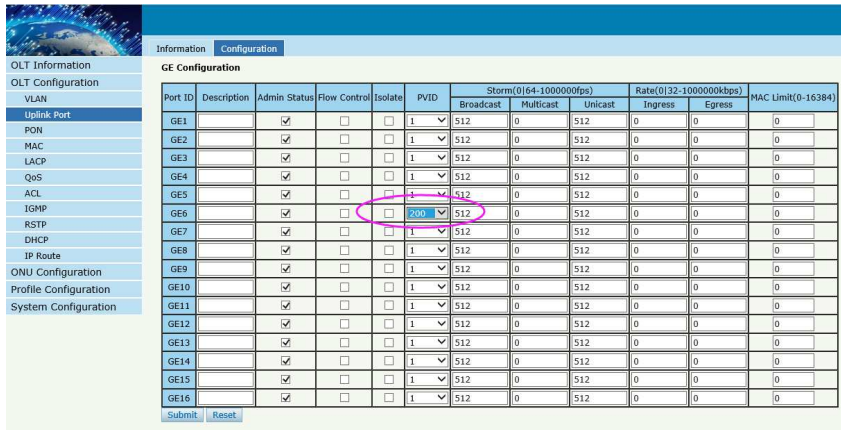
2.configure GE VLAN mode

**Port VLAN Configuration**

VLAN ID: 200

| Port ID | Forbidden                        | Tag                   | Untag                            |
|---------|----------------------------------|-----------------------|----------------------------------|
| GE1     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE2     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE3     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE4     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE5     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE6     | <input type="radio"/>            | <input type="radio"/> | <input checked="" type="radio"/> |
| GE7     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE8     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE9     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE10    | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE11    | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE12    | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE13    | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE14    | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE15    | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE16    | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |

Submit



The image shows the 'OLT Configuration' interface. On the left is a sidebar with a tree view containing: OLT Information, OLT Configuration, VLAN, Uplink Port, PON, MAC, LACP, QoS, ACL, IGMP, RSTP, DHCP, IP Route, ONU Configuration, Profile Configuration, and System Configuration. The main area has two tabs: 'Information' and 'Configuration'. The 'Configuration' tab is active, showing a 'GE Configuration' table. The table has columns: Port ID, Description, Admin Status, Flow Control, Isolate, PVID, Storm(0/64-1000000pps) (Broadcast, Multicast, Unicast), Rate(0/32-1000000kbps) (Ingress, Egress), and MAC Limit(0-16384). Rows are listed for GE1 through GE16. In the GE6 row, the 'PVID' column contains the value '200', which is circled in pink.

| Port ID | Description | Admin Status                        | Flow Control             | Isolate                  | PVID | Storm(0/64-1000000pps) |           |         | Rate(0/32-1000000kbps) |        | MAC Limit(0-16384) |
|---------|-------------|-------------------------------------|--------------------------|--------------------------|------|------------------------|-----------|---------|------------------------|--------|--------------------|
|         |             |                                     |                          |                          |      | Broadcast              | Multicast | Unicast | Ingress                | Egress |                    |
| GE1     |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE2     |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE3     |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE4     |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE5     |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE6     |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 200  | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE7     |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE8     |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE9     |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE10    |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE11    |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE12    |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE13    |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE14    |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE15    |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE16    |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |

At the bottom of the table are 'Submit' and 'Reset' buttons.

## Configuring the ONU

By CLI -----

```
gpon-olt(config-pon-0/1)# onu 1 tcont 1 dba dba_1
```

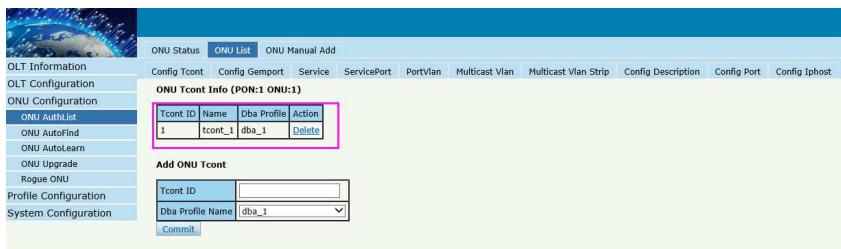
```
gpon-olt(config-pon-0/1)# onu 1 gempport 2 tcont 1
```

```
gpon-olt(config-pon-0/1)# onu 1 service 1 gempport 2 vlan 200
```

```
gpon-olt(config-pon-0/1)# onu 1 service-port 1 gempport 2 servvlan 200 to 200 transparent
```

By web -----

Configure ONU



The image shows the 'ONU Configuration' interface. The left sidebar has a tree view with: OLT Information, OLT Configuration, ONU Configuration, ONU AutoFind, ONU AutoLearn, ONU Upgrade, Rogue ONU, Profile Configuration, and System Configuration. The 'ONU Configuration' tab is active, showing sub-tabs: ONU Status, ONU List, and ONU Manual Add. The 'ONU List' sub-tab is selected, displaying a table titled 'ONU Tcont Info (PON:1 ONU:1)'. The table has columns: Tcont ID, Name, Dba Profile, and Action. A row is shown with Tcont ID '1', Name 'tcont\_1', Dba Profile 'dba\_1', and a 'Delete' action link. Below the table is an 'Add ONU Tcont' section with input fields for 'Tcont ID' and 'Dba Profile Name' (set to 'dba\_1'), and a 'Commit' button.

| Tcont ID | Name    | Dba Profile | Action                 |
|----------|---------|-------------|------------------------|
| 1        | tcont_1 | dba_1       | <a href="#">Delete</a> |

Below the table is the 'Add ONU Tcont' section:

Tcont ID:

Dba Profile Name:

[Commit](#)

ONU Status

ONU List

ONU Manual Add

Config Tcont

Config Gempport

Service

ServicePort

PortVlan

Multicast Vlan

Multicast Vlan Strip

Config Description

ONU Gempport Info (PON:1 ONU:1)

| Gempport ID | Name    | Tcont | Cos | Upstream | Downstream | State  | UpQueueMapId | DownQueueMapId | Action                 |
|-------------|---------|-------|-----|----------|------------|--------|--------------|----------------|------------------------|
| 1           | default | 1     | N/A | default  | default    | Enable | N/A          | N/A            | <a href="#">Delete</a> |

Add ONU Gempport

Gempport ID

2

TcontID

1

Gempport Name

default2

Cos

N/A

(0-7)

Upstream Traffic

default

Downstream Traffic

default

UpQueueMapId

N/A

(0-3)

DownQueueMapId

N/A

(0-7)

State

Enable

Commit

ONU Status

ONU List

ONU Manual Add

Config Tcont

Config Gempport

Service

ServicePort

PortVlan

Multicast Vlan

Multicast Vlan Strip

Config Description

Config Port

ONU Service Info (PON:1 ONU:1)

| Service Name | Gempport | Vlan Mode | Vlan List | Cos List | Port | Action                 |
|--------------|----------|-----------|-----------|----------|------|------------------------|
| 1            | 1        | Tag       | 100       | N/A      | N/A  | <a href="#">Delete</a> |

Add ONU Service

Service Name

2

Gempport ID

2

Vlan Mode

Tag

Vlan List

200

X (X,X or X-X;0 for all)

Cos List

N/A

(X,X or X-X;)

Port Type

N/A

Commit

ONU Status

ONU List

ONU Manual Add

Config Tcont

Config Gempport

Service

ServicePort

PortVlan

Multicast Vlan

Multicast Vlan Strip

Config Description

Config Port

Config Port

ONU Service Port Info (PON:1 ONU:1)

| Service Port | Vport | BeginVid | EndVid | OuterVid | InnerVid | UserPrio | Etype | Vlan | Cos | SVlan | SCos | Mode | Enable | Description | Action                 |
|--------------|-------|----------|--------|----------|----------|----------|-------|------|-----|-------|------|------|--------|-------------|------------------------|
| 1            | 1     | 100      | 100    | N/A      | N/A      | N/A      | N/A   | 100  | 0   | N/A   | N/A  | 1:1  | YES    | N/A         | <a href="#">Delete</a> |

Add ONU Service Port

Service Mode

Cvlan

Service-Port ID

2

Gempport ID

1

User Vlan

200

Translate Vlan

200

X

Translate Cos

N/A

(0-7)

Translate SVlan

N/A

Translate SCos

N/A

(0-7)

Description

N/A

Commit

OLT Information

OLT Configuration

ONU Configuration

ONU AuthList

ONU AutoFind

ONU AutoLearn

ONU Upgrade

Rogue ONU

Profile Configuration

System Configuration

ONU List

ONU Status

ONU Manual Add

Tcont

Gempport

Service

Service Port

PortVlan

Multicast

Port

Iphost

WAN

DHCP Server

BIND Mode

WIF

WAN Connect Table

Index

Mode

Service Mode

Status

Configuration Information

WAN Connect Parameter Configuration

WAN Index

NEW

WAN Connect Mode

route

Nat Enable

Enable

Connect Mode

Static

IP Address

192.168.2.100

(x.x.x.x)

IP NetMask

255.255.255.0

(x.x.x.x)

Gateway

192.168.2.1

(x.x.x.x)

Master DNS

0.0.0.0

(x.x.x.x)

Slave DNS

0.0.0.0

(x.x.x.x)

VLAN Mode

enable

Vlan ID

200

(0-4095)

802.1p

0

(0-7)

QOS Enable

Disable

Service Mode

VoIP

Port Binding

Lan1

Lan2

Lan3

Lan4

SSID1

SSID2

SSID3

SSID4

Submit

OLT Information

OLT Configuration

ONU Configuration

ONU AuthList

ONU AutoFind

ONU AutoLearn

ONU Upgrade

Rogue ONU

Profile Configuration

System Configuration

ONU List

ONU Status

ONU Manual Add

Tcont

Gempport

Service

Service Port

PortVlan

Multicast

Port

Iphost

WAN

DHCP Server

BIND Mode

WIFI

VOIP

SIP

POTS

WAN Connect Table

Index

Mode

Service Mode

Status

Configuration Information

WAN Connect Parameter Configuration

WAN Index

NEW

WAN Connect Mode

bridge

VLAN Mode

disable

QOS Enable

Disable

Service Mode

Internet

Port Binding

Lan1

Lan2

Lan3

Lan4

SSID1

SSID2

SSID3

SSID4

Submit

WAN Connect running-config

Submit

onu running-config

Delete

Index

1

Connect Type:route,Service Mode:voip,Nat:enable,Static IP:192.168.2.100,Mask:255.255.0,Gateway:192.168.2.1,DNS Master:0.0.0.0,DNS Slave:0.0.0.0,vlan id 200 pri 0

OLT Information

OLT Configuration

ONU Configuration

ONU AuthList

ONU AutoFind

ONU AutoLearn

ONU Upgrade

Rogue ONU

Profile Configuration

System Configuration

ONU List

ONU Status

ONU Manual Add

Tcont

Gempport

Service

Service Port

PortVlan

Multicast

Port

Iphost

WAN

DHCP Server

BIND Mode

WIFI

VOIP

SIP

POTS

Misc

WAN Connect Table

Index

Mode

Service Mode

Status

Configuration Information

WAN Connect Parameter Configuration

WAN Index

NEW

WAN Connect Mode

bridge

VLAN Mode

dicable

QOS Enable

Disable

Service Mode

Internet

Port Binding

Lan1

Lan2

Lan3

Lan4

SSID1

SSID2

SSID3

SSID4

Submit

WAN Connect running-config

Submit

onu running-config

Delete

Index

1

Connect Type:route,Service Mode:voip,Nat:enable,Static IP:192.168.2.100,Mask:255.255.0,Gateway:192.168.2.1,DNS Master:0.0.0.0,DNS Slave:0.0.0.0,vlan id 200 pri 0

ONU List   ONU Status   ONU Manual Add

OLT Information   OLT Configuration   ONU Configuration

Tcont   Gempport   Service   Service Port   PortVlan   Multicast   Port   Iphost   WAN   DHCP Server   BIND Mode   WIFI   VOIP   **SIP**   POTS   Misc

**SIP Parameter Configuration**

Manage Port: 5060 (1-65535)

Proxy Server IP/Port: 192.168.2.56 (x.x.x.x) 5060 (1-65535)

Backup Proxy Server IP/Port: 0.0.0.0 (x.x.x.x) 5060 (0-65535)

Register Server IP/Port: 192.168.2.56 (x.x.x.x) 5060 (1-65535)

Backup Register Server IP/Port: 0.0.0.0 (x.x.x.x) 5060 (0-65535)

Out Bound Server IP/Port: 0.0.0.0 (x.x.x.x) 5060 (1-65535)

Register Interval: 3600 (1-1000000)

[Submit](#)

**SIP Digit Map Configuration**

SIP Digit Map Block

[Submit](#)

ONU List   ONU Status   ONU Manual Add

OLT Information   OLT Configuration   ONU Configuration

Tcont   Gempport   Service   Service Port   PortVlan   Multicast   Port   Iphost   WAN   DHCP Server   BIND Mode   WIFI   VOIP   **POTS**   Misc

VoIP Port: POTS

**POTS Information**

Port Status: Registering

**SIP User Parameter Configuration**

Account active: ☐ Disable ☒ Enable

User Account: 40080022

User name: 40080022

User Password: 40080022

[Submit](#)

**Advanced Parameter Configuration**

VAD: Disable

Echo cancel: Enable

Input gain(dB): 0

Output gain(dB): 0

Dtmf mode: Transparent

[Submit](#)

The connection status

ONU List   ONU Status   ONU Manual Add

OLT Information   OLT Configuration   ONU Configuration

Tcont   Gempport   Service   Service Port   PortVlan   Multicast   Port   Iphost   WAN   DHCP Server   BIND Mode   WIFI   VOIP   SIP   **POTS**   Misc

VoIP Port: POTS

**POTS Information**

Port Status: Idle

**SIP User Parameter Configuration**

Account active: ☐ Disable ☒ Enable

User Account: 40080022

User name: 40080022

User Password: 40080022

[Submit](#)

**Advanced Parameter Configuration**

VAD: Disable

Echo cancel: Enable

Input gain(dB): 0

Output gain(dB): 0

Dtmf mode: Transparent

[Submit](#)

By ONU web -----

If DHCP mode

NetWork

Status

NetWork

Security

Application

Internet

Binding

LAN IP Address

WLAN

WLAN

Remote

QoS

Uplink Mode

Internet Connection

WAN Configuration

Connection Name:

1\_TR069\_R\_VID\_46

Mode:

Route

IP Protocol Mode:

Ipv4

☒ DHCP

Get an address from ISP

☐ Static

Get a static IP address from ISP

☐ PPPoE

Select this when using PPPOE

Enable Vlan :

☒

Vlan ID :

200

802.1p :

6

MTU :

1500

Request DNS:

☒ Enable

☐ Disable

Primary DNS:

Secondary DNS:

Service Mode

VOICE

Turn off LAN DHCP :

☐

The connection status

Status

Status

NetWork

Security

Application

Management

Diagnose

Help

Device Information

WAN Connection Info

User Information

VOIP Information

Remote Management Status

IPv4 Connection Information

IPv6 Connection Information

GPON Information

WAN Info

| Interface         | VLAN ID | Protocol | IGMP    | Status | IP Address |
|-------------------|---------|----------|---------|--------|------------|
| 1_VOICE_R_VID_200 | 200     | IPoE     | Disable | UP     | 10.1.2.2   |

NetWork Info

| Service Interface | Default Gateway | Primary DNS | Secondary DNS |
|-------------------|-----------------|-------------|---------------|
| 1_VOICE_R_VID_200 | 10.1.2.1        | 8.8.8.8     |               |

Status

Status

NetWork

Security

Application

Management

Diagnose

Help

Device Information

WAN Connection Info

User Information

VOIP Information

Remote Management Status

VOIP Information

VOIP Information

| Service      | Register State | Register Success | Register Success |
|--------------|----------------|------------------|------------------|
| Phone Number | 6001           |                  | 6002             |

If PPPoE mode



NetWork

Status

NetWork

Security

Application

Managemen

Internet

Binding

LAN IP Address

WLAN

WLAN

Remote

QoS

Time

R

Uplink Mode

Internet Connection

WAN Configuration

Connection Name:

Add New WAN Conn ▾

Mode:

Route ▾

IP Protocol Mode:

Ipv4 ▾

☐ DHCP

Get an address from ISP

☒ Static

Get a static IP address from ISP

☐ PPPoE

Select this when using PPPOE

Enable Vlan :

☒

Vlan ID :

200

802.1p :

6 ▾

MTU :

1500

IP Address:

10.1.2.100

Subnet Mask

255.255.255.255

Default Gateway

10.1.2.1

Request DNS:

☐ Enable

☒ Disable

Primary DNS:

8.8.8.8

Secondary DNS:

Service Mode

VOICE ▾

Turn off LAN DHCP :

☐

The connection status

Status

Status

NetWork

Security

Application

Managemen

Device Information

WAN Connection Info

User Information

VOIP Information

Re

IPv4 Connection Information

IPv6 Connection Information

GPON Information

WAN Info

| Interface         | VLAN ID | Protocol | IGMP    | Status | IP Address |
|-------------------|---------|----------|---------|--------|------------|
| 1_VOICE_R_VID_200 | 200     | IPoE     | Disable | up     | 10.1.2.100 |

NetWork Info

| Service Interface | Default Gateway | Primary DNS |
|-------------------|-----------------|-------------|
| 1_VOICE_R_VID_200 | 10.1.2.1        | 8.8.8.8     |

Status

Status

NetWork

Security

Application

Management

Diagnose

Help

Device Information

WAN Connection Info

User Information

VOIP Information

Remote Management Status

VOIP Information

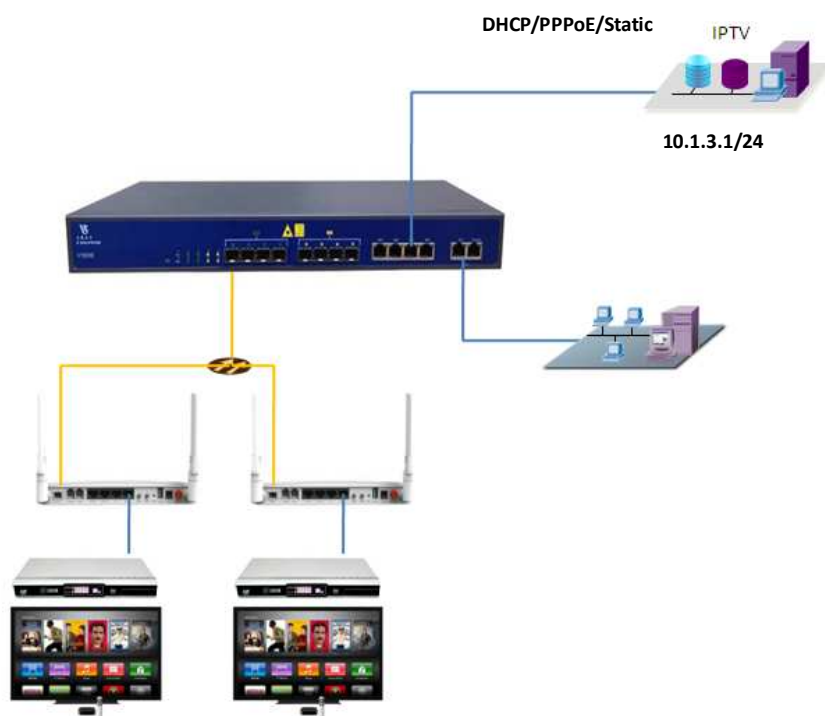
| Service Register State | Register Success | Register Success |
|------------------------|------------------|------------------|
| Phone Number           | 8001             | 8002             |

## VoIP

| Application         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Gateway Name: Household Gateway <a href="#">Logout</a> |                      |                      |                      |                     |                                   |  |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|----------------------|----------------------|----------------------|---------------------|-----------------------------------|--|
| Status              | NetWork                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Security                                               | Application          | Management           | Diagnose             | Help                |                                   |  |
| <a href="#">VPN</a> | <a href="#">DDNS</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <a href="#">Advanced NAT</a>                           | <a href="#">UPNP</a> | <a href="#">VOIP</a> | <a href="#">IGMP</a> | <a href="#">MLD</a> | <a href="#">Daily Application</a> |  |
| VOIP Configuration  | <div>Server Type <span>Soft Switch SIP ▼</span></div> <div> <b>Primary SIP Proxy</b><br/>           Address: <input type="text" value="192.168.4.150"/><br/>           PORT: <input type="text" value="5060"/><br/> <input type="checkbox"/> Enable Outbound Proxy<br/>           Outbound Proxy Addr: <input type="text"/><br/>           Outbound Proxy Port: <input type="text" value="5060"/><br/>           SIP Domain: <input type="text"/><br/>           Reg Expire (sec): <input type="text" value="3600"/><br/> <input checked="" type="checkbox"/> Enable Session timer<br/>           Session Expire (sec): <input type="text" value="1800"/> </div> <div> <b>Secondary SIP Proxy</b><br/> <input type="checkbox"/> Enable Secondary SIP<br/>           Address: <input type="text"/><br/>           PORT: <input type="text" value="5060"/><br/> <input type="checkbox"/> Enable Outbound Proxy<br/>           Outbound Proxy Addr: <input type="text"/><br/>           Outbound Proxy Port: <input type="text" value="5060"/><br/>           SIP Domain: <input type="text"/><br/>           Reg Expire (sec): <input type="text" value="3600"/><br/> <input checked="" type="checkbox"/> Enable Session timer<br/>           Session Expire (sec): <input type="text" value="1800"/> </div> <div> <b>Line1</b><br/> <input checked="" type="checkbox"/> Enabled<br/>           Account number: <input type="text" value="6001"/><br/>           Account name: <input type="text"/><br/>           Account password: <input type="text"/> </div> <div> <b>Line2</b><br/> <input checked="" type="checkbox"/> Enabled<br/>           Account number: <input type="text" value="6002"/><br/>           Account name: <input type="text"/><br/>           Account password: <input type="text"/> </div> |                                                        |                      |                      |                      |                     |                                   |  |

## Case 6 HGU Bridge --IPTV

### Network Diagram



### Planning Data

| Item            |                     | Description                                                  | Example                         |
|-----------------|---------------------|--------------------------------------------------------------|---------------------------------|
| ONU Information | Slot No.            | The number of the slot actually used.                        | 0                               |
|                 | PON No.             | The number of the actually used PON port.                    | 1                               |
|                 | ONU Auth No.        | Configure according to the network planning of the operator. | 1                               |
|                 | ONU Type            | The type of the ONU.                                         | HG326RGW                        |
| OLT             | Service Uplink VLAN | The VLAN ID of the uplink port service.                      | VLAN mode = UNTAG<br>PVID = 300 |

|     |                       |                                                                    |                                                                   |
|-----|-----------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|
|     | Service Uplink port   | Configure according to the number of the actuallyused uplink port. | GE7                                                               |
|     | Service PON VLAN      | The VLAN ID of the PON port service.                               | VLAN mode = TAG<br>VLAN ID = 300                                  |
|     | Service PON port      | Configure according to the number of the actuallyused PON port.    | PON1                                                              |
| ONU | Service WAN VLAN      | The VLAN ID of the PON(WAN) port service.                          | VLAN mode= Transparent                                            |
|     | Service LAN VLAN      | The VLAN ID of the LAN port service.                               | VLAN mode = UNTAG<br>LAN VLAN ID = 300<br>Multicast VLAN ID = 300 |
|     | Service LAN port      | The number of the actually used ONU port.                          | LAN4                                                              |
|     | Tcont                 | The onu Tcont                                                      | Tcont=1                                                           |
|     | Gemport               | The onu Gemport                                                    | Gemport=1                                                         |
|     | Dbas                  | The ONU dba profile                                                | Dbas name=dba_1<br>Dbas type = 3                                  |
|     | Service vlan          | The vlan of ONU service.                                           | Service Vlan = 100                                                |
|     | Service-port uservlan | The vlan of onu service-port                                       | Service-port vlan =100                                            |
| STB | Management IP         | The IP for STB.                                                    | Gateway = 10.1.3.1<br>IP = 10.1.3.100<br>IP Mask = 255.255.255.0  |

## Configuring the OLT

By CLI -----

```
gpon-olt(config)# vlan 300
gpon-olt(config-vlan-100)# exit
gpon-olt(config)# interface gigabitethernet 0/7
gpon-olt(config-if-ge0/7)# switchport hybrid vlan 300 untagged
gpon-olt(config-if-ge0/7)# switchport hybrid pvid vlan 300
gpon-olt(config-if-ge0/7)# exit
gpon-olt(config)# ip igmp snooping enable
```

```

gpon-olt(config)# ip igmp snooping general-query-packet enable

gpon-olt(config)# ip igmp snooping mrouter vlan 300 interface gigabitethernet 0/7

gpon-olt(config)#ip igmp snooping mvlan 300 unknown-multicast drop igmp trap-to-cpu

gpon-olt(config)# interface gpon 0/1

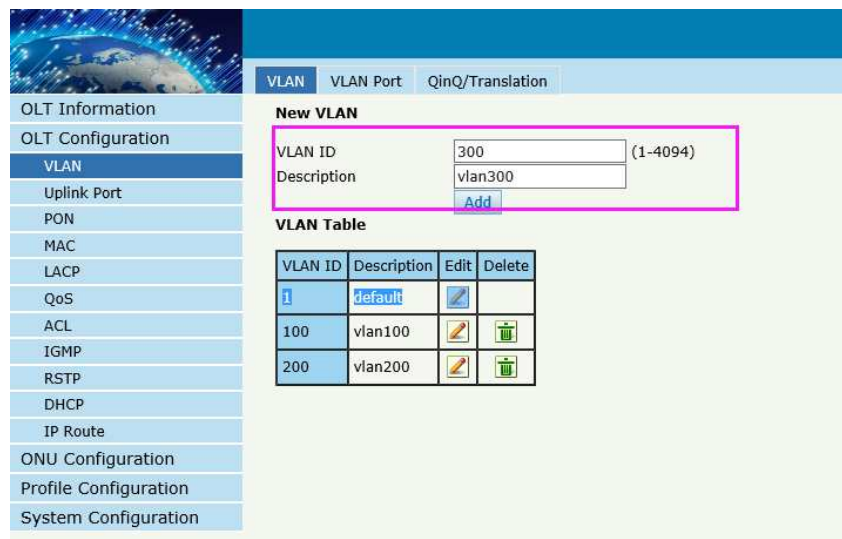
gpon-olt(config-gpon-0/1)# ip igmp snooping user-vlan 300 group-vlan 300 tagged

gpon-olt(config-gpon-0/1)# exit

```

#### By web -----

1\create a new VLAN for IGMP



The screenshot shows a web interface for configuring a network device. On the left is a sidebar menu with options like OLT Information, OLT Configuration, VLAN, Uplink Port, PON, MAC, LACP, QoS, ACL, IGMP, RSTP, DHCP, IP Route, ONU Configuration, Profile Configuration, and System Configuration. The 'VLAN' option is selected. The main area has tabs for 'VLAN', 'VLAN Port', and 'QinQ/Translation'. The 'New VLAN' section contains two input fields: 'VLAN ID' with the value '300' and a range '(1-4094)', and 'Description' with the value 'vlan300'. Below these is an 'Add' button. The 'VLAN Table' section contains a table with columns 'VLAN ID', 'Description', 'Edit', and 'Delete'.

| VLAN ID | Description | Edit | Delete |
|---------|-------------|------|--------|
| 1       | default     |      |        |
| 100     | vlan100     |      |        |
| 200     | vlan200     |      |        |

2, configure VLAN mode

OLT Information

OLT Configuration

VLAN

Uplink Port

PON

MAC

LACP

QoS

ACL

IGMP

RSTP

DHCP

IP Route

ONU Configuration

Profile Configuration

System Configuration

VLAN Port QinQ/Translation

**Port VLAN Configuration**

VLAN ID: 300

| Port ID | Forbidden                        | Tag                   | Untag                            |
|---------|----------------------------------|-----------------------|----------------------------------|
| GE1     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE2     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE3     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE4     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE5     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE6     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE7     | <input type="radio"/>            | <input type="radio"/> | <input checked="" type="radio"/> |
| GE8     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE9     | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE10    | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE11    | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE12    | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE13    | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE14    | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE15    | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |
| GE16    | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/>            |

Submit

OLT Information

OLT Configuration

VLAN

Uplink Port

PON

MAC

LACP

QoS

ACL

IGMP

RSTP

DHCP

IP Route

ONU Configuration

Profile Configuration

System Configuration

Information Configuration

**GE Configuration**

| Port ID | Description | Admin Status                        | Flow Control             | Isolate                  | PVID | Storm(0/64-1000000pps) |           |         | Rate(0/32-1000000kbps) |        | MAC Limit(0-16384) |
|---------|-------------|-------------------------------------|--------------------------|--------------------------|------|------------------------|-----------|---------|------------------------|--------|--------------------|
|         |             |                                     |                          |                          |      | Broadcast              | Multicast | Unicast | Ingress                | Egress |                    |
| GE1     |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE2     |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE3     |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE4     |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE5     |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE6     |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 200  | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE7     |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 300  | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE8     |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE9     |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE10    |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE11    |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE12    |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE13    |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE14    |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE15    |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |
| GE16    |             | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1    | 512                    | 0         | 512     | 0                      | 0      | 0                  |

Submit Reset

3,enable IGMP snooping function



Group Member

Global

Port

Port User VLAN

Port Mrouter

Mvlan

Static Group

OLT Information

OLT Configuration

VLAN

Uplink Port

PON

MAC

LACP

QoS

ACL

IGMP

RSTP

DHCP

IP Route

ONU Configuration

Profile Configuration

System Configuration

IGMP Configuration

IGMP Status

Enable

▼

Last Member Query Interval

1

(1-255)

Last Member Query Count

2

(1-255)

Last Member Query Response

1

(1-255)

General Query Packet

Disable

Enable

General Query Interval

125

(10-255)

Query Source IP

1.1.1.1

Submit

Reset



Group Member

Global

Port

Port User VLAN

Port Mrouter

Mvlan

Static Group

OLT Information

OLT Configuration

VLAN

Uplink Port

PON

MAC

LACP

QoS

ACL

IGMP

RSTP

DHCP

IP Route

ONU Configuration

Profile Configuration

System Configuration

User VLAN Configuration

Port ID

PON1

▼

User VLAN ID

300

▼

Group VLAN ID

300

▼

Add

User VLAN Table

Port ID

User VLAN ID

Group VLAN ID

Delete



Group Member

Global

Port

Port User VLAN

Port Mrouter

Mvlan

Static Group

OLT Information

OLT Configuration

VLAN

Uplink Port

PON

MAC

LACP

QoS

ACL

IGMP

RSTP

DHCP

IP Route

ONU Configuration

Profile Configuration

System Configuration

Add Multicast Router

Port ID

GE7

▼

Group VLAN ID

300

▼

Add

Multicast Router Table

Port ID

Group VLAN ID

Delete

Group Member Global Port Port User VLAN Port Mrouter **Mvlan** Static Group

**IP Igmp Mvlan Info**

| Multicast vlan | Unknown multicast | Igmp packet |
|----------------|-------------------|-------------|
| 100            | drop              | trap-to-cpu |

**Add/Modify Mvlan**

Mvlan ID(1~4094)

Unknown multicast

Igmp packet

## Configuring the ONU

### By CLI -----

```
pon-olt(config)# interface gpon 0/1
gpon-olt(config-gpon-0/1)# onu 1 tcont 1 dba dba_1
gpon-olt(config-gpon-0/1)# onu 1 gemport 3 tcont 1
gpon-olt(config-gpon-0/1)# onu 1 service 1 gemport 3 vlan 300
gpon-olt(config-gpon-0/1)# onu 1 service-port 1 gemport 3 servvlan 300 to 300 transparent
gpon-olt(config-gpon-0/1)# onu 1 mvlan 300
gpon-olt(config-gpon-0/1)# onu 1 mvlan tag-strip eth 1
gpon-olt(config-gpon-0/1)# exit
```

### By web -----

Configure ONU



ONU Status

ONU List

ONU Manual Add

Config Tcont

Config Gempont

Service

ServicePort

PortVlan

Multicast Vlan

Multicast Vlan Strip

Config Description

Config Port

Config Iphost

OLT Information

OLT Configuration

ONU Configuration

ONU AuthList

ONU AutoFind

ONU AutoLearn

ONU Upgrade

Rogue ONU

Profile Configuration

System Configuration

ONU Tcont Info (PON:1 ONU:1)

| Tcont ID | Name    | Dbp Profile | Action |
|----------|---------|-------------|--------|
| 1        | tcont_1 | dbp_1       | Delete |

Add ONU Tcont

Tcont ID

Dbp Profile Name

dbp\_1

Commit



ONU Status

ONU List

ONU Manual Add

Config Tcont

Config Gempont

Service

ServicePort

PortVlan

Multicast Vlan

Multicast Vlan Strip

Config Description

Config Port

Config Iphost

OLT Information

OLT Configuration

ONU Configuration

ONU AuthList

ONU AutoFind

ONU AutoLearn

ONU Upgrade

Rogue ONU

Profile Configuration

System Configuration

ONU Gempont Info (PON:1 ONU:1)

| Gempont ID | Name     | Tcont | Cos | Upstream | Downstream | State  | UpQueueMapId | DownQueueMapId | Action |
|------------|----------|-------|-----|----------|------------|--------|--------------|----------------|--------|
| 1          | default  | 1     | N/A | default  | default    | Enable | N/A          | N/A            | Delete |
| 2          | default2 | 1     | N/A | default  | default    | Enable | N/A          | N/A            | Delete |

Add ONU Gempont

Gempont ID

TcontID

Gempont Name

Cos

Upstream Traffic

Downstream Traffic

UpQueueMapId

DownQueueMapId

State

Commit



ONU Status

ONU List

ONU Manual Add

Config Tcont

Config Gempont

Service

ServicePort

PortVlan

Multicast Vlan

Multicast Vlan Strip

Config Description

Config Port

Config Iphost

OLT Information

OLT Configuration

ONU Configuration

ONU AuthList

ONU AutoFind

ONU AutoLearn

ONU Upgrade

Rogue ONU

Profile Configuration

System Configuration

ONU Service Info (PON:1 ONU:1)

| Service Name | Gempont | Vlan Mode | Vlan List | Cos List | Port | Action |
|--------------|---------|-----------|-----------|----------|------|--------|
| 1            | 1       | Tag       | 100       | N/A      | N/A  | Delete |
| 2            | 2       | Tag       | 200       | N/A      | N/A  | Delete |

Add ONU Service

Service Name

Gempont ID

Vlan Mode

Vlan List

Cos List

Port Type

Commit

OLT Information

OLT Configuration

ONU Configuration

ONU Auth List

ONU AutoFind

ONU AutoLearn

ONU Upgrade

Rogue ONU

Profile Configuration

System Configuration

ONU Status

ONU List

ONU Manual Add

Config Tcont

Config Gemport

Service

ServicePort

PortVlan

Multicast Vlan

Multicast Vlan Strip

Config Description

Config Port

Config Iphost

ONU Service Port Info (PON:1 ONU:1)

| Service Port | Vport | BeginVid | EndVid | OuterVid | InnerVid | UserPri | Etype | Vlan | Cos | SVlan | SCos | Mode | Enable | Description | Action |
|--------------|-------|----------|--------|----------|----------|---------|-------|------|-----|-------|------|------|--------|-------------|--------|
| 1            | 1     | 100      | 100    | N/A      | N/A      | N/A     | N/A   | 100  | 0   | N/A   | N/A  | 1:1  | YES    | N/A         | Delete |
| 2            | 1     | 200      | 200    | N/A      | N/A      | N/A     | N/A   | 200  | 0   | N/A   | N/A  | 1:1  | YES    | N/A         | Delete |

Add ONU Service Port

Service Mode

Cvlan

Service-Port ID

3

Gempport ID

3

User Vlan

300

Translate Vlan

300

Translate Cos

N/A

Translate SVlan

N/A

Translate SCos

N/A

Description

N/A

Commit

OLT Information

OLT Configuration

ONU Configuration

ONU Auth List

ONU AutoFind

ONU AutoLearn

ONU Upgrade

Rogue ONU

Profile Configuration

System Configuration

ONU Status

ONU List

ONU Manual Add

Config Tcont

Config Gemport

Service

ServicePort

PortVlan

Multicast Vlan

Multicast Vlan Strip

Config Description

Config Port

Config Iphost

ONU PortVlan Info (PON:1 ONU:1)

| Port Name | Mode        | Vlan | Vlan Pri(tag) | Default Vlan(hybrid) | Default Pri(hybrid) | Cvlan(translate) | CvlanPri(translate) | SVlan(translate) | SVlan Pri(translate) | Action |
|-----------|-------------|------|---------------|----------------------|---------------------|------------------|---------------------|------------------|----------------------|--------|
| vlan_1    | Transparent | N/A  | N/A           | N/A                  | N/A                 | N/A              | N/A                 | N/A              | N/A                  | Delete |

Add ONU PortVlan

Mode

Transparent

Port Type

Eth

Port Id

Commit

OLT Information

OLT Configuration

ONU Configuration

ONU Auth List

ONU AutoFind

ONU AutoLearn

ONU Upgrade

Rogue ONU

Profile Configuration

System Configuration

ONU Status

ONU List

ONU Manual Add

Config Tcont

Config Gemport

Service

ServicePort

PortVlan

Multicast Vlan

Multicast Vlan Strip

Config Description

Config Port

Config Iphost

Multicast Vlan list

| ONU ID | Vlan List | Action     |
|--------|-----------|------------|
| 1      | N/A       | Delete All |

Add/Del Multicast Vlan (max 32 vlans)

Mvlan List

300

Add

Del

OLT Information

OLT Configuration

ONU Configuration

ONU Auth List

ONU AutoFind

ONU AutoLearn

ONU Upgrade

Rogue ONU

Profile Configuration

System Configuration

ONU Status

ONU List

ONU Manual Add

Config Tcont

Config Gemport

Service

ServicePort

PortVlan

Multicast Vlan

Multicast Vlan Strip

Config Description

Config Port

Config Iphost

Multicast Vlan list

| ONU ID | Vlan Mode | Port | Action |
|--------|-----------|------|--------|
|--------|-----------|------|--------|

Add/Del Multicast Strip

Strip Eth Number

1

Confirm

OLT Information

OLT Configuration

ONU Configuration

ONU AuthList

ONU AutoFind

ONU AutoLearn

ONU Upgrade

Rogue ONU

Profile Configuration

System Configuration

ONU List

ONU Status

ONU Manual Add

Tcont

Gemport

Service

Service Port

PortVlan

Multicast

Port

Iphost

WAN

DHCP Server

BIND Mode

WIFI

Index

Mode

Service Mode

Status

Configuration Information

WAN Connect Parameter Configuration

WAN Index

NEW

WAN Connect Mode

bridge

VLAN Mode

enable

Vlan ID

300

(0-4095)

802.1p

0

(0-7)

QOS Enable

Disable

Service Mode

Other

Port Binding

Lan1

Lan2

Lan3

☒ Lan4

SSID1

SSID2

SSID3

SSID4

Submit

WAN Connect running-config

Submit

Index

onu running-config

Delete

ONU List

ONU Status

ONU Manual Add

Tcont

Gemport

Service

Service Port

PortVlan

Multicast

Port

Iphost

WAN

DHCP Server

BIND Mode

WIFI

VOIP

SIP

POTS

Misc

Index

Mode

Service Mode

Status

Configuration Information

WAN Connect Parameter Configuration

WAN Index

NEW

WAN Connect Mode

bridge

VLAN Mode

disable

QOS Enable

Disable

Service Mode

Internet

Port Binding

Lan1

Lan2

Lan3

Lan4

SSID1

SSID2

SSID3

SSID4

Submit

WAN Connect running-config

Submit

Index

onu running-config

Delete

1

Connect Type:bridge,Service Mode:other,vlan id 300 pri 0 Bind:lan4

ONU List

ONU Status

ONU Manual Add

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Service Port

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Port

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BIND Mode

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Status

Configuration Information

1

bridge

other

Connected

QOS:disable,vlan id 300 pri 0 Bind:lan4

WAN Connect Parameter Configuration

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NEW

WAN Connect Mode

bridge

VLAN Mode

disable

QOS Enable

Disable

Service Mode

Internet

Port Binding

Lan1

Lan2

Lan3

Lan4

SSID1

SSID2

SSID3

SSID4

Submit

WAN Connect running-config

Submit

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onu running-config

Delete

1

Connect Type:bridge,Service Mode:other,vlan id 300 pri 0 Bind:lan4

Or by ONU web -----

|         |                                 |         |                |             |            |          |     |      |
|---------|---------------------------------|---------|----------------|-------------|------------|----------|-----|------|
| NetWork | Gateway Name: Household Gateway |         |                |             |            |          |     |      |
|         | Status                          | NetWork | Security       | Application | Management | Diagnose |     |      |
|         | Internet                        | Binding | LAN IP Address | WLAN        | WLAN       | Remote   | QoS | Time |

Uplink Mode

Internet Connection

WAN Configuration

Connection Name:

1\_Other\_B\_VID\_

Mode:

Bridge

IP Protocol Mode:

Ipv4

Enable Vlan :

☒

Vlan ID :

300

802.1p :

5

MTU :

1492

Service Mode

Other

Turn off LAN

☒

DHCP :

☒

Port binding:

☐ Port\_1

☐ Port\_2

☒ Port\_3

☒ Port\_4

☐ WLAN(SSID1)

Note: The bound port can not be shared by different WAN connections, and the last binding operation will overwrite the previous one!

PC connected to this port will not be able to get dynamic (DHCP) IP address from gateway. So it is not recommended to bind all ethernet ports using above-mentioned method!

Save/Apply

Del