

CLI OLT - ONU Setup

Example Manual



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DBA profile

Item	Description	Example
DBA profile	The DBA of ONU	Assured :10M 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 -----

The screenshot shows the AirLive web interface. On the left is a navigation menu with the following items: OLT Information, OLT Configuration, ONU Configuration, Profile Configuration, ONU Profile, **DBA Profile** (highlighted), Traffic Profile, Line Profile, Service Profile, Alarm Profile, Pri Profile, IGMP Profile, Format Profile, Bind Profile, ONU Rapid Deployment, and System Configuration. The main content area is titled 'DBA Profiles' and has an 'Add Profile' button. Below this is the 'Add Profile' form with the following fields:

Profile ID	1
Profile Type	Type_3 Tip
Profile Name	dba_1
Assured(Kbps)	1000 (256 - 9953280Kbps)
Maximum(Kbps)	100000 (256 - 9953280Kbps)

At the bottom of the form is a [Commit](#) button.

SFU Authorization

Planning Data

Item	Description	Example
ONU Type	The type of onu	ONU-10XGS-1004-10G
ONU SN	ONU serial number	GPON00000a87
OLT PON	The PON port of OLT	GPON 0/1
Equipid	The Equipment id of ONU	MONUV305

ONU Manual authorize

By CLI -----

```
gpon-olt(config)# profile onu name ONU-10XGS-1004-10G
```

```
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 ONU-10XGS-1004-10G sn GPON00000a87
```

By Web -----

1、Create ONU profile for 1GE ONU

The screenshot shows the 'airlive' web interface. On the left is a navigation menu with options like OLT Information, ONU Configuration, and ONU Profile. The 'ONU Profile' option is selected. The main area is titled 'ONU Profile Modify' and contains a form with various fields. The 'Profile ID' is 1, 'Profile Name' is 'ONU-10XGS-1004-10G', 'Description' is '1GE SFU', 'Max Tcont' is 8, 'Max Gempport' is 32, 'Max Eth' is 1, 'Max POTS' is 0, 'Max IPHost' is 2, 'Max IPv6Host' is 0, 'Max Veip' is 0, 'Service ability' is 'Disable', 'Service ability N:1' is 'yes', 'Service ability 1:M' is 'yes', 'Service ability 1:P' is 'yes', 'WiFi mgmt via non OMCI' is 'Disable', 'OMCI send mode' is 'async', and 'Default Multicast range' is 'none'. The 'Commit' button is at the top left of the form.

Field	Value
Profile ID	1
Profile Name	ONU-10XGS-1004-10G
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, Find the ONU of Autofind lists and perform authorization operations on it

The screenshot shows the 'airlive' web interface. On the left is a navigation menu with options like OLT Information, ONU Configuration, and ONU AutoFind. The 'ONU AutoFind' option is selected. The main area is titled 'Automatic Discovery' and contains a form with a 'Port ID' dropdown set to 'PON1', a 'Search Info' text box, and a 'Search' button. Below the search area are 'Refresh' and 'Confirm All' buttons. A table displays the results of the automatic discovery. The table has columns: Index, SN, SNPW, LOID, LOIDPW, and Action. The first row shows Index 1, SN GPON00000a87, SNPW NULL, LOID NULL, LOIDPW NULL, and Action Add. The 'Add' button in the Action column is circled in red.

Index	SN	SNPW	LOID	LOIDPW	Action
1	GPON00000a87	NULL	NULL	NULL	Add

3, Select the ONU template

The screenshot shows the AirLive web interface. On the left is a navigation menu with options like OLT Information, OLT Configuration, ONU Configuration, and Profile Configuration. The 'ONU Configuration' section is active, and 'ONU AutoFind' is selected. The main area is titled 'Add Onu' and contains a form with fields for SLOT Num (0), PON Num (1), ONU Num (1), Auth Mode (Sn), Onu Sn (GPON00000a87), and ONU Profile (ONU-10XGS-1004-10G). The 'ONU Profile' dropdown is highlighted with a red circle. Below the form are 'Submit' and 'Back' buttons.

If ONU is successfully registered, working will be shown here

The screenshot shows the AirLive web interface with the 'ONU Status Information' section. A 'Port ID' dropdown is set to 'PON1'. Below it, a summary line reads: 'total-1, logging-0, offline-0, syncMib-0, configFail-0, dyinggasp-0, working-1'. A 'Refresh' button is present. Below is a table with the following data:

ONU ID	Admin State	OMCC State	Phase State	Description	Last Register Time	Last Deregister Time	Last Deregister Reason	Alive Time
GPON0/1:1	enable	enable	working	N/A	2031-05-12 2:37:21	N/A	N/A	00:00:00

The 'working' value in the 'Phase State' column is highlighted with a red circle.

ONU automatic authorize

By CLI -----

```
gpon-olt(config)# profile onu name ONU-10XGS-1004-10G
```

```
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 MONUV305 ONU-10XGS-1004-10G
```

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

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

By Web -----

1、Create ONU profile for 1GE ONU

The screenshot shows the 'airlive' web interface. On the left is a navigation menu with options like OLT Information, OLT Configuration, ONU Configuration, Profile Configuration, and ONU Profile (which is selected). The main area is titled 'ONU Profile Modify' and contains a 'Commit' button and a form with various fields. The fields are: Profile ID (1), Profile Name (ONU-10XGS-1004-10G), Description (1GE_SFU), Max Tcont (8), Max Gemport (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), and Default Multicast range (none). The Profile Name and Max Eth fields are circled in red.

Profile ID	Profile Name	Description	Max Tcont	Max Gemport	Max Eth	Max POTS	Max IPHost	Max IPv6Host	Max Veip	Service ability	Service ability N:1	Service ability 1:M	Service ability 1:P	WiFi mgmt via non OMCI	OMCI send mode	Default Multicast range
1	ONU-10XGS-1004-10G	1GE_SFU	8	32	1	0	2	0	0	Disable	yes	yes	yes	Disable	async	none

2, Equipment ID binding ONU profile

The screenshot shows the 'airlive' web interface for binding an ONU profile to an equipment ID. The top navigation bar includes 'Save' and tabs for 'ONU AutoLearn', 'ONU AutoBind' (selected), 'ONU AutoDelete', and 'ONU Scheduled Reboot'. The main area is titled 'Automatic Bind' and contains a table with columns: Equipment ID, ONU Profile, Line Profile, Service Profile, Alarm Profile, Pri Profile, Format Profile, and Action. The table has one row with Equipment ID 'MONUV305', ONU Profile 'ONU-10XGS-1004-10G', and Action 'Delete'. Below the table is a 'Select Equipment ID Matching Type' section with a 'Matching Type' dropdown set to 'Exact Matching' and a 'Submit' button. At the bottom is an 'Add ONU Automatic Bind' section with a form containing 'Equipment ID' (MONUV305) and 'ONU Profile' (ONU-10XGS-1004-10G), with 'Add' and 'Refresh' buttons. The 'Add' button is circled in red.

Equipment ID	ONU Profile	Line Profile	Service Profile	Alarm Profile	Pri Profile	Format Profile	Action
MONUV305	ONU-10XGS-1004-10G	N/A	N/A	N/A	N/A	N/A	Delete

Select Equipment ID Matching Type

Matching Type:

Submit

Add ONU Automatic Bind

Equipment ID	ONU Profile
MONUV305	ONU-10XGS-1004-10G

Add Refresh

3, enable automatic learn mode of PON port

Automatic Learn

Default ONU Profile: ONU-10XGS-1004-10G

Plug and Play: enable

Default VLAN: 1

Variable VLAN: disable, 1 (1-3582)

PON ID	Enable	Line Profile	Srv Profile	Alarm Profile	Pri Profile	Format Profile
PON1	Enable	N/A	N/A	N/A	N/A	N/A
PON2	Enable	N/A	N/A	N/A	N/A	N/A

Apply Refresh

If ONU is successfully registered, working will be shown here

ONU Status Information

Port ID: PON1

total-1, logging-0, offline-0, syncMib-0, configFail-0, dyinggasp-0, working-1

Refresh

ONU ID	Admin State	OMCC State	Phase State	Description	Last Register Time	Last Deregister Time	Last Deregister Reason	Alive Time
GPON0/1:1	enable	enable	working	N/A	2031-05-12 3:27:11	N/A	N/A	00:04:30

HGU Authorization

Planning Data

Item	Description	Example
ONU Type	The type of onu	ONU-10XGS-1004-10G
ONU SN	ONU serial number	GPON00000a87
OLT PON	The PON port of OLT	GPON 0/1
Equipid	The Equipment id of ONU	MONUV305

ONU Manual authorize

By CLI -----


```
gpon-olt(config)# profile onu name ONU-10XGS-1004-10G
```

```
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 ONU-10XGS-1004-10G sn GPON00000a87
```

By Web -----

1、Create ONU profile for 4GE HGU

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Information Add Profile

ONU Profile Modify

Commit

Profile ID	3
Profile Name	ONU-10XGS-1004-10G
Description	ONU_profile_3
Max Tcont	8
Max Gempport	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

Port ID: PON1

Search Info: GPON00000a87 [Search]

[Refresh] [Confirm All]

Index	SN	SNPW	LOID	LOIDPW	Action
1	GPON00000a87	NULL	NULL	NULL	Add

3, Select the ONU template

Add Onu

SLOT Num: 0

PON Num: 1

ONU Num: 1

Auth Mode: Sn

Onu Sn: GPON00000a87

ONU Profile: ONU-10XGS-1004-10G

[Submit] [Back]

If ONU is successfully registered, working will be shown here

ONU Status Information

Port ID: PON1

total-1, logging-0, offline-0, syncMib-0, configFail-0, dyinggasp-0, working-1

[Refresh]

ONU ID	Admin State	OMCC State	Phase State	Description	Last Register Time	Last Deregister Time	Last Deregister Reason	Alive Time
GPON0/1:1	enable	enable	<u>working</u>	N/A	2031-05-11 20:25:8	N/A	N/A	00:00:06

ONU automatic authorize

By CLI -----

```
gpon-olt(config)# profile onu name ONU-10XGS-1004-10G
```

```
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 MONUV305 ONU-10XGS-1004-10G
```

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

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

By Web -----

1、Create ONU profile for 4GE HGU

The screenshot shows the AirLive web interface for configuring ONU profiles. The left sidebar contains a navigation menu with options like OLT Information, OLT Configuration, ONU Configuration, Profile Configuration, and ONU Profile. The main area is titled 'ONU Profile Modify' and contains a form with the following fields:

Field	Value
Profile ID	3
Profile Name	ONU-10XGS-1004-10G
Description	ONU_profile_3
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, Equipment ID binding ONU profile

airlive® Save

ONU AutoLearn **ONU AutoBind** ONU AutoDelete ONU Scheduled Reboot

Automatic Bind

Equipment ID	ONU Profile	Line Profile	Service Profile	Alarm Profile	Pri Profile	Format Profile	Action
MONUV305	ONU-10XGS-1004-10G	N/A	N/A	N/A	N/A	N/A	Delete

Select Equipment ID Matching Type

Matching Type:

[Submit](#)

Add ONU Automatic Bind

Equipment ID:

ONU Profile:

[Add](#) [Refresh](#)

3, enable automatic learn mode

airlive® Save Log Status ONU list

ONU AutoLearn **ONU AutoBind** ONU AutoDelete ONU Scheduled Reboot

Automatic Learn

Default ONU Profile:

Plug and Play:

Default VLAN:

Variable VLAN: (1-3582)

PON ID	Enable	Line Profile	Srv Profile	Alarm Profile	Pri Profile	Format Profile
PON1	Enable	N/A	N/A	N/A	N/A	N/A
PON2	Enable	N/A	N/A	N/A	N/A	N/A

[Apply](#) [Refresh](#)

If ONU is successfully registered, working will be shown here

airlive® Save Log

Automatic Discovery **Aging Time**

ONU Status Information

Port ID:

total-1, logging-0, offline-0, syncMib-0, configFail-0, dyinggasp-0, working-1

[Refresh](#)

ONU ID	Admin State	OMCC State	Phase State	Description	Last Register Time	Last Deregister Time	Last Deregister Reason	Alive Time
GPON0/1:1	enable	enable	working	N/A	2031-05-11 20:25:8	N/A	N/A	00:00:06

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	ONU-10XGS-1004-10G
ONU SN	ONU serial number	GPON00000a87
OLT PON	The PON port of OLT	GPON 0/1
Equipment id	The Equipment id of ONU	MONUV305
Tcont	Tcont	1
Gemport	Gemport	1
Service	The onu Service	Vlan 100
Service-port	The onu service-port	Vlan 100 Mode tag

Automatic configure onu

By CLI -----

```
gpon-olt(config)# profile onu name ONU-10XGS-1004-10G

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 gemport 1 vlan 100

gpon-olt(profile-line:1)# service-port 1 gemport 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 MONUV305 ONU-10XGS-1004-10G

gpon-olt(config)# onu auto-learn bind line-profile MONUV305 line1

gpon-olt(config)# onu auto-learn bind srv-profile MONUV305 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

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Information **Add Profile**

ONU Profile Modify

Commit

Profile ID	1
Profile Name	ONU-10XGS-1004-10G
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 bind ONU profile

airlive® Save

ONU AutoLearn **ONU AutoBind** ONU AutoDelete ONU Scheduled Reboot

Automatic Bind

Equipment ID	ONU Profile	Line Profile	Service Profile	Alarm Profile	Pri Profile	Format Profile	Action
MONUV305	ONU-10XGS-1004-10G	N/A	N/A	N/A	N/A	N/A	Delete

Select Equipment ID Matching Type

Matching Type **Exact Matching**

Submit

Add ONU Automatic Bind

Equipment ID	MONUV305
ONU Profile	ONU-10XGS-1004-10G

Add Refresh

3, create line profile

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Line Profile

Add Profile

OLT Information

OLT Configuration

ONU Configuration

Profile Configuration

ONU Profile

DBA Profile

Traffic Profile

Line Profile

Service Profile

Alarm Profile

Pri Profile

IGMP Profile

Format Profile

Bind Profile

ONU Rapid Deployment

System Configuration

Add Profile

Profile ID

1

Profile Name

line_1

Add

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Line Profile

Add Profile

OLT Information

OLT Configuration

ONU Configuration

Profile Configuration

ONU Profile

DBA Profile

Traffic Profile

Line Profile

Service Profile

Alarm Profile

Pri Profile

IGMP Profile

Format Profile

Bind Profile

ONU Rapid Deployment

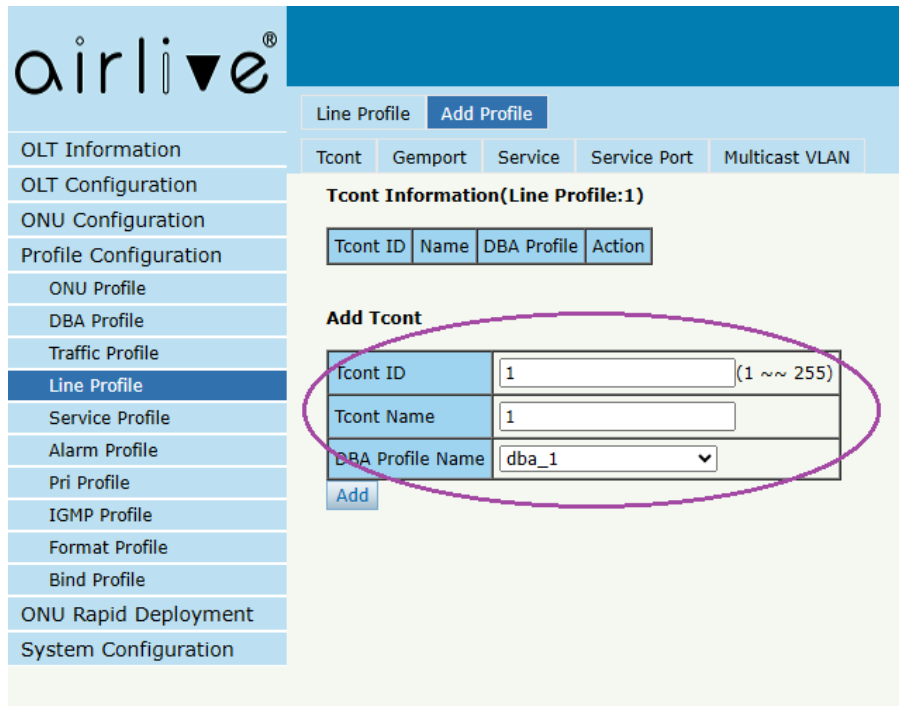
System Configuration

Line Profile

Refresh

Profile ID	Profile Name	Action
1	line_1	Details & Modify Delete

4, create tcont



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Line Profile **Add Profile**

OLT Information

OLT Configuration

ONU Configuration

Profile Configuration

ONU Profile

DBA Profile

Traffic Profile

Line Profile

Service Profile

Alarm Profile

Pri Profile

IGMP Profile

Format Profile

Bind Profile

ONU Rapid Deployment

System Configuration

Tcont **Gemport** Service Service Port Multicast VLAN

Tcont Information(Line Profile:1)

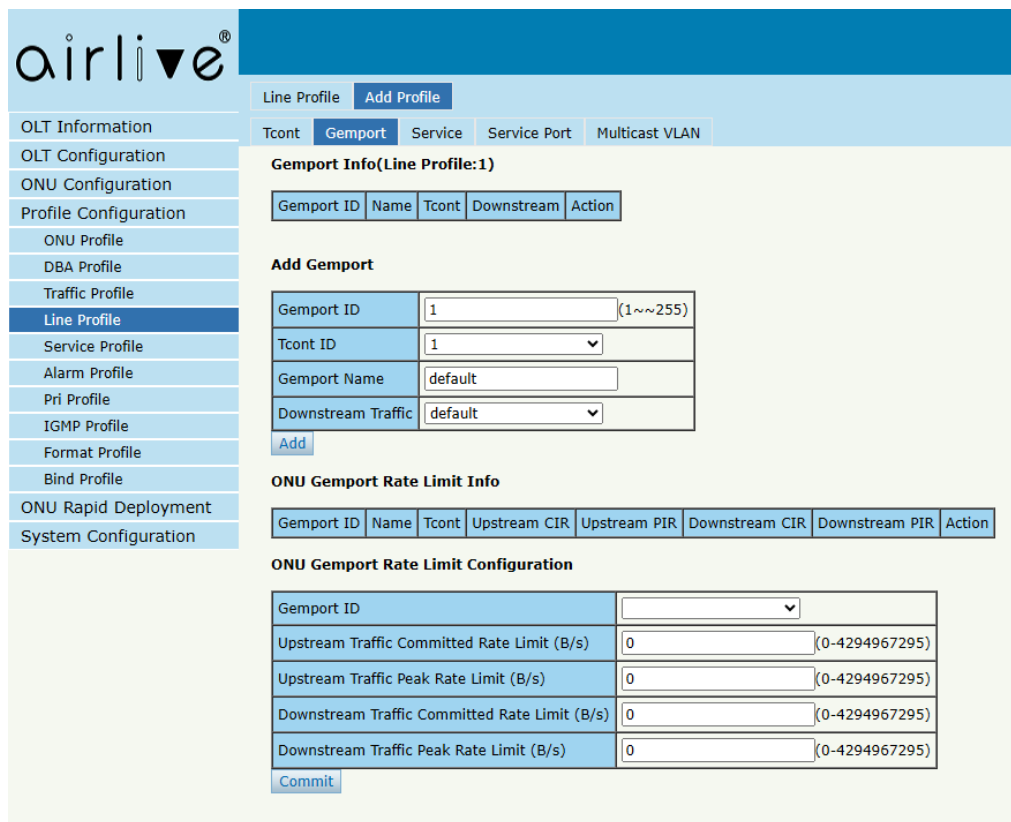
Tcont ID	Name	DBA Profile	Action
1	1	dba_1	

Add Tcont

Tcont ID	1 (1 ~ 255)
Tcont Name	1
DBA Profile Name	dba_1

Add

5, create gemport



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Line Profile **Add Profile**

OLT Information

OLT Configuration

ONU Configuration

Profile Configuration

ONU Profile

DBA Profile

Traffic Profile

Line Profile

Service Profile

Alarm Profile

Pri Profile

IGMP Profile

Format Profile

Bind Profile

ONU Rapid Deployment

System Configuration

Tcont **Gemport** Service Service Port Multicast VLAN

Gemport Info(Line Profile:1)

Gemport ID	Name	Tcont	Downstream	Action
1	default	1	default	

Add Gemport

Gemport ID	1 (1~255)
Tcont ID	1
Gemport Name	default
Downstream Traffic	default

Add

ONU Gemport Rate Limit Info

Gemport ID	Name	Tcont	Upstream CIR	Upstream PIR	Downstream CIR	Downstream PIR	Action
1	default	1	0	0	0	0	

ONU Gemport Rate Limit Configuration

Gemport ID	1
Upstream Traffic Committed Rate Limit (B/s)	0 (0-4294967295)
Upstream Traffic Peak Rate Limit (B/s)	0 (0-4294967295)
Downstream Traffic Committed Rate Limit (B/s)	0 (0-4294967295)
Downstream Traffic Peak Rate Limit (B/s)	0 (0-4294967295)

Commit

6, create service

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Line Profile

Add Profile

OLT Information

OLT Configuration

ONU Configuration

Profile Configuration

ONU Profile

DBA Profile

Traffic Profile

Line Profile

Service Profile

Alarm Profile

Pri Profile

IGMP Profile

Format Profile

Bind Profile

ONU Rapid Deployment

System Configuration

Tcont

Gemport

Service

Service Port

Multicast VLAN

ServiceInformation(Line Profile:1)

ServiceName	Gemport	VLAN Mode	VLAN List	CoS List	Port	Action
-------------	---------	-----------	-----------	----------	------	--------

AddService

ServiceName	ser_1					
Gemport ID	1					
VLAN Mode	Tag					
VLAN List	100 (X,X or X-X;0 for all;max 12 VLANs)					
CoS List	N/A (X,X or X-X;)					
Port Type	N/A					

Add

7、create service-port

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Save

Line Profile

Add Profile

OLT Information

OLT Configuration

ONU Configuration

Profile Configuration

ONU Profile

DBA Profile

Traffic Profile

Line Profile

Service Profile

Alarm Profile

Pri Profile

IGMP Profile

Format Profile

Bind Profile

ONU Rapid Deployment

System Configuration

Tcont

Gemport

Service

Service Port

Multicast VLAN

Service Port Info(Line Profile:1)

Service Port	Gemport ID	Begin Vid	End Vid	Outer Vid	Inner Vid	VLAN	SVLAN	Mode	Enable	Description	Action
--------------	------------	-----------	---------	-----------	-----------	------	-------	------	--------	-------------	--------

Add Service Port

Service Mode	CVLAN										
Service Port ID	1 (1~~128)										
Gemport ID	1										
User VLAN	100										
Translate VLAN	100										
Translate SVLAN	N/A										
Description	N/A										

Add

8、create service profile

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Service ProfilesAdd Profile

OLT Information

OLT Configuration

ONU Configuration

Profile Configuration

ONU Profile

DBA Profile

Traffic Profile

Line Profile

Service Profile

Alarm Profile

Pri Profile

IGMP Profile

Format Profile

Bind Profile

ONU Rapid Deployment

System Configuration

Add Profile

Profile ID

1

Profile Name

srv_1

Add

airlive®

Service ProfilesAdd Profile

OLT Information

OLT Configuration

ONU Configuration

Profile Configuration

ONU Profile

DBA Profile

Traffic Profile

Line Profile

Service Profile

Alarm Profile

Pri Profile

IGMP Profile

Format Profile

Bind Profile

ONU Rapid Deployment

System Configuration

Service Profile

Refresh

Profile ID	Profile Name	Action
1	srv_1	Details & Modify Delete

9、create service profile

airlive® Save Log Status ONU list Logout

Service Profiles Add Profile

PortVLAN Multicast VLAN Strip Port IPHost Config

PortVLAN Info(Service Profile:1)

Port Name	Mode	VLAN	VLAN Priority(tag)	Default VLAN(hybrid)	Default Priority(hybrid)	CVLAN(translate)	CVLAN Priority(translate)	SVLAN(translate)	SVLAN Priority(translate)	Action

Add PortVLAN

Mode Tag

PortType Eth

Port ID 1

VLAN 100 (1-4094)

VLAN Priority N/A (0-7)

Commit

10、bind profile

airlive® ONU AutoLearn ONU AutoBind ONU AutoDelete ONU Scheduled Reboot

Automatic Bind

Equipment ID	ONU Profile	Line Profile	Service Profile	Alarm Profile	Pri Profile	Format Profile	Action

Select Equipment ID Matching Type

Matching Type Exact Matching

Submit

Add ONU Automatic Bind

Equipment ID MONUV305

ONU Profile ONU-10XGS-1004-10

Line Profile line_1

Service Profile srv_1

Add Refresh

11、enable automatic learn mode

airlive® Save Log Status ONU list

ONU AutoLearn ONU AutoBind ONU AutoDelete ONU Scheduled Reboot

Automatic Learn

Default ONU Profile default

Plug and Play disable

Default VLAN 1

Variable VLAN disable 1 (1-3582)

PON ID	Enable	Line Profile	Srv Profile	Alarm Profile	Pri Profile	Format Profile
PON1	Enable	N/A	N/A	N/A	N/A	N/A
PON2	Enable	N/A	N/A	N/A	N/A	N/A

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 -----

airlive®

Save

Log

ONU List

ONU Status

ONU Optical Information

ONU Version Information

ONU Manual Add

ONU Allowlist

ONU Statistics

OLT Information

OLT Configuration

ONU Configuration

ONU AuthList

ONU AutoFind

ONU AutoLearn

ONU Upgrade

Rogue ONU

ONU Common Service

Profile Configuration

ONU Rapid Deployment

System Configuration

ONU Status Information

Port ID

PON1

total-1, logging-0, offline-0, syncMib-0, configFail-0, dyinggasp-0, working-1

Refresh

ONU ID	Admin State	OMCC State	Phase State	Description	Last Register Time	Last Deregister Time	Last Deregister Reason	Alive Time
GPON0/1:1	enable	enable	working	N/A	2031-05-11 21:51:52	N/A	N/A	02:41:54

Delete the ONU status

By CLI -----

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

By Web -----

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Save

Log

Status

ONU List

ONU Status

ONU Optical Information

ONU Version Information

ONU Manual Add

ONU Allowlist

ONU Statistics

OLT Information

OLT Configuration

ONU Configuration

ONU AuthList

ONU AutoFind

ONU AutoLearn

ONU Upgrade

Rogue ONU

ONU Common Service

Profile Configuration

ONU Rapid Deployment

System Configuration

ONU Authentication Information

Port ID

PON1

Search Mode

All

Search Info

Search

Search

ONU Count

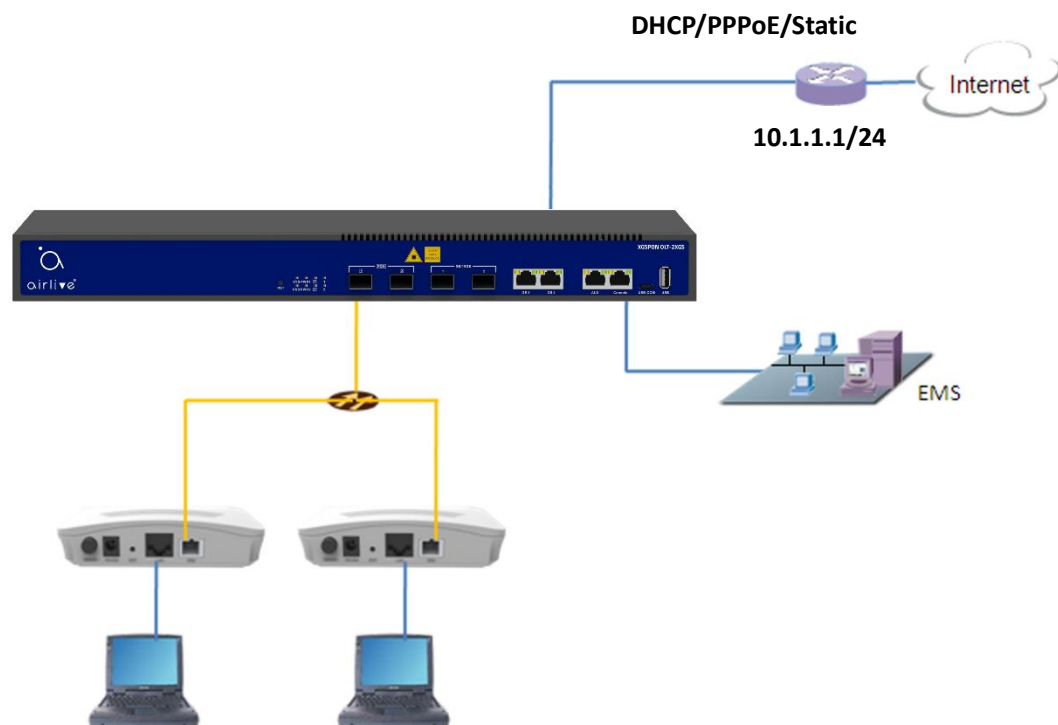
1/1

Delete AllDelete OfflineRefresh

ONU ID	Status	Description	Model	Profile	PON Type	Mode	Info	Action
GPON0/1:1	Online	GPON0/1:1	V305	default	XGS-PON	SN	GPON00000a87	ConfigDeactivateDeleteModifyOptical InfoDetail InfoReboot

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.	ONU-10XGS-1004-10G
	ONU SN	ONU serial number	GPON00000a87
	OLT PON	The PON port of OLT	GPON 0/1
	Equipid	The Equipment id of ONU	MONUV305
OLT	Service Uplink VLAN	The VLAN ID of the uplink port service.	VLAN mode = UNTAG PVID = 100

	Service Uplink port	Configure according to the number of the actually used uplink port.	GE3
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 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 Mode=hybrid
	If DHCP mode	The router use DHCP assign ip to PC.	Gateway = 10.1.1.1 IP Range 10.1.1.2-10.1.1.254 IP Mask = 255.255.255.0 DNS = 8.8.8.8
PC	If PPPoE mode	The router use PPPoE assign ip to PC.	IP Range 10.1.1.2-10.1.1.254 IP Mask = 255.255.255.0 User name = test Password = test
	If Static mode	The router use Static assign ip to PC.	Gateway = 10.1.1.1 IP = 10.1.1.100 IP Mask = 255.255.255.0 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 0/3
```

```
gpon-olt(config-if-ge0/3)# switchport hybrid vlan 100 untagged
```

```
gpon-olt(config-if-ge0/3)# switchport hybrid pvid vlan 100
```

gpon-olt(config-if-ge0/3)# exit

By Web -----

1, Create a new VLAN

airlive®

VLAN | VLAN Port | QinQ/Translation

OLT Information
OLT Configuration
VLAN
Uplink Port
PON
MAC
LACP
QoS
ACL
IPv6 ACL
IGMP
IPv6 MLD
STP
Loopback
DHCP
DHCPv6
IPv6 SLAAC

New VLAN

Mode: single
VLAN ID: 100 (1-4094)
Description: VLAN100
Add Delete

VLAN Table

VLAN ID	Description	Edit	Delete
1	default		

2. Configure GE port VLAN mode

airlive®

VLAN | **VLAN Port** | QinQ/Translation

OLT Information
OLT Configuration
VLAN
Uplink Port
PON
MAC
LACP
QoS
ACL
IPv6 ACL
IGMP
IPv6 MLD
STP
Loopback
DHCP
DHCPv6
IPv6 SLAAC

Port VLAN Configuration

VLAN ID: 100

Port ID	Mode	Forbidden	Tag	Untag
GE0/1	Hybrid	☒	☐	☐
GE0/2	Hybrid	☒	☐	☐
GE0/3	Hybrid	☐	☐	☒
GE0/4	Hybrid	☒	☐	☐

Submit Reset

Port VLAN Table

VLAN ID	Tag Ports	Untag Ports
1		GE1 GE2 GE3 GE4
100		

3, Configure GE port PVID

airlive® Save

Information Optical Information Perf-Stats Information **Configuration** Perf-Stats Configuration Protection Switch Group Port Group

OLT Information
OLT Configuration
VLAN
Uplink Port
PON
MAC
LACP
QoS
ACL
IPv6 ACL
IGMP
IPv6 MLD
STP
Loopback
DHCP

GE Configuration

Port ID	Description	Admin Status	Speed	PVID	Storm(0 64-1000000fps)			Rate(0 64-10000000kbps)	
					Broadcast	Multicast	Unknown Unicast	Ingress	Egress
GE0/1		☒	10000M Full	1	512	0	512	0	0
GE0/2		☒	10000M Full	1	512	0	512	0	0
GE0/3		☒	Auto	100	512	0	512	0	0
GE0/4		☒	Auto	1	512	0	512	0	0

Submit Reset

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-pon-0/1)# onu 1 tcont 1 dba dba_1
```

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

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

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

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

By Web -----

1, create DBA profile

The screenshot shows the AirLive web interface. On the left is a navigation menu with the following items: OLT Information, OLT Configuration, ONU Configuration, Profile Configuration (selected), ONU Profile, DBA Profile (highlighted), Traffic Profile, Line Profile, Service Profile, Alarm Profile, Pri Profile, IGMP Profile, Format Profile, Bind Profile, ONU Rapid Deployment, and System Configuration. The main content area is titled 'DBA Profiles' and has an 'Add Profile' button. Below this is the 'Add Profile' form with the following fields:

Profile ID	1
Profile Type	Type_3 Tip
Profile Name	dba_1
Assured(Kbps)	10000 (256 - 9953280Kbps)
Maximum(Kbps)	100000 (256 - 9953280Kbps)

At the bottom of the form is a 'Commit' button.

2,Create ONU profile for 1GE ONU

The screenshot shows the AirLive web interface. On the left is a navigation menu with the following items: OLT Information, OLT Configuration, ONU Configuration, Profile Configuration (selected), ONU Profile (highlighted), DBA Profile, Traffic Profile, Line Profile, Service Profile, Alarm Profile, Pri Profile, IGMP Profile, Format Profile, Bind Profile, ONU Rapid Deployment, and System Configuration. The main content area is titled 'Information' and has an 'Add Profile' button. Below this is the 'ONU Profile Modify' form with the following fields:

Profile ID	1
Profile Name	ONU-10XGS-1004-10G
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

At the top left of the form is a 'Commit' button.

3, Authorize ONU

airlive®

Automatic Discovery Aging Time

Automatic Discovery

Port ID: PON1

Search Info: GPON00000a87 [Search](#)

[Refresh](#) [Confirm All](#)

Index	SN	SNPW	LOID	LOIDPW	Action
1	GPON00000a87	NULL	NULL	NULL	Add

OLT Information
OLT Configuration
ONU Configuration
 ONU AuthList
 ONU AutoFind
 ONU AutoLearn
 ONU Upgrade
 Rogue ONU
 ONU Common Service
Profile Configuration
ONU Rapid Deployment
System Configuration

airlive®

Automatic Discovery Aging Time

Add Onu

SLOT Num: 0

PON Num: 1

ONU Num: 1

Auth Mode: Sn

Onu Sn: GPON00000a87

ONU Profile: **ONU-10XGS-1004-10G**

[Submit](#) [Back](#)

OLT Information
OLT Configuration
ONU Configuration
 ONU AuthList
 ONU AutoFind
 ONU AutoLearn
 ONU Upgrade
 Rogue ONU
 ONU Common Service
Profile Configuration
ONU Rapid Deployment
System Configuration

4, Configure ONU

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Save Log Status ONU list

ONU List ONU Status ONU Optical Information ONU Version Information ONU Manual Add ONU Allowlist ONU Statistics

ONU Authentication Information

Port ID: PON1

Search Mode: All

Search Info: [Search](#)

ONU Count: 1/1

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

ONU ID	Status	Description	Model	Profile	PON Type	Mode	Info	Action
GPON0/1:1	Online	GPON0/1:1	V305	ONU-10XGS-1004-10G	XGS-PON	SN	GPON00000a87	Config Deactivate Delete Modify Optical Info Detail Info Reboot

OLT Information
OLT Configuration
ONU Configuration
 ONU AuthList
 ONU AutoFind
 ONU AutoLearn
 ONU Upgrade
 Rogue ONU
 ONU Common Service
Profile Configuration
ONU Rapid Deployment
System Configuration

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Save

ONU List

ONU Status

ONU Optical Information

ONU Version Information

ONU Manual Add

ONU Allowlist

ONU Statistics

Tcont

Gemport

Service

Service Port

PortVLAN

Multicast

Port

IP Host

IGMP

MAC

DHCP Server

Misc

Misc2

H.248

MAC ACL

OLT Information

OLT Configuration

ONU Configuration

ONU AuthList

ONU AutoFind

ONU AutoLearn

ONU Upgrade

Rogue ONU

ONU Common Service

Profile Configuration

ONU Rapid Deployment

System Configuration

ONU Tcont Information (SLOT:0 PON:1 ONU:1)

Tcont ID

Name

DBA Profile

Action

Add ONU Tcont

Tcont ID

1

Tcont Name

1

DBA Profile Name

dba_1

Commit

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ONU List

ONU Status

ONU Optical Information

ONU Version Information

ONU Manual Add

ONU

Tcont

Gemport

Service

Service Port

PortVLAN

Multicast

Port

IP Host

IGMP

MAC

D

Loopback Detection

H.248

MAC ACL

OLT Information

OLT Configuration

ONU Configuration

ONU AuthList

ONU AutoFind

ONU AutoLearn

ONU Upgrade

Rogue ONU

ONU Common Service

Profile Configuration

ONU Rapid Deployment

System Configuration

ONU Gemport Info (SLOT:0 PON:1 ONU:1)

Gemport ID

Name

Tcont

Downstream

Action

Add ONU Gemport

Gemport ID

1

TcontID

1

Gemport Name

default

Downstream Traffic

default

Commit

ONU Gemport Rate Limit Info

Gemport ID

Name

Tcont

Upstream CIR

Upstream PIR

Downstream CIR

Downstream PIR

Action

ONU Gemport Rate Limit Configuration

Gemport ID

Upstream Traffic Committed Rate Limit (B/s)

0

{0-4294967295}

Upstream Traffic Peak Rate Limit (B/s)

0

{0-4294967295}

Downstream Traffic Committed Rate Limit (B/s)

0

{0-4294967295}

Downstream Traffic Peak Rate Limit (B/s)

0

{0-4294967295}

Commit

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ONU List

ONU Status

ONU Optical Information

ONU Version Information

ONU Manual

Tcont

Gemport

Service

Service Port

PortVLAN

Multicast

Port

IP Host

IGMP

H.248

MAC ACL

OLT Information

OLT Configuration

ONU Configuration

ONU AuthList

ONU AutoFind

ONU AutoLearn

ONU Upgrade

Rogue ONU

ONU Common Service

Profile Configuration

ONU Rapid Deployment

System Configuration

ONU Service Information (SLOT:0 PON:1 ONU:1)

ServiceName

Gemport

VLAN Mode

VLAN List

CoS List

Port

Action

Add ONU Service

ServiceName

ser_1

Gemport ID

1

VLAN Mode

Tag

VLAN List

100

{X,X or X-X;0 for all;max 12 VLANs}

CoS List

N/A

{X,X or X-X;}

PortType

N/A

Commit

airlive®

Save

ONU List

ONU Status

ONU Optical Information

ONU Version Information

ONU Manual Add

ONU Allowlist

ONU Statistics

Tcont

Gemport

Service

Service Port

PortVLAN

Multicast

Port

IP Host

IGMP

MAC

DHCP Server

Misc

Misc2

TR069

Security

Loopback Detection

H.248

MAC ACL

OLT Information

OLT Configuration

ONU Configuration

ONU AuthList

ONU AutoFind

ONU AutoLearn

ONU Upgrade

Rogue ONU

ONU Common Service

Profile Configuration

ONU Rapid Deployment

System Configuration

ONU Service Port Info (SLOT:0 PON:1 ONU:1)

Service Port	Gemport ID	Begin Vid	End Vid	Outer Vid	Inner Vid	VLAN	SVLAN	Mode	Enable	Description	Action
--------------	------------	-----------	---------	-----------	-----------	------	-------	------	--------	-------------	--------

Add ONU Service Port

Service Mode	CVLAN
Service Port ID	1
Gemport ID	1
User VLAN	100
Translate VLAN	100
Translate SVLAN	N/A
Description	N/A

Commit

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Save

Log

Status

ONU list

Logout

ONU List

ONU Status

ONU Optical Information

ONU Version Information

ONU Manual Add

ONU Allowlist

ONU Statistics

Tcont

Gemport

Service

Service Port

PortVLAN

Multicast

Port

IP Host

IGMP

MAC

DHCP Server

Misc

Misc2

TR069

Security

Loopback Detection

H.248

MAC ACL

OLT Information

OLT Configuration

ONU Configuration

ONU AuthList

ONU AutoFind

ONU AutoLearn

ONU Upgrade

Rogue ONU

ONU Common Service

Profile Configuration

ONU Rapid Deployment

System Configuration

ONU PortVLAN Info (SLOT:0 PON:1 ONU:1)

PortName	Mode	VLAN	VLAN Priority(tag)	Default VLAN(hybrid)	Default Priority(hybrid)	CVLAN(translate)	CVLAN Priority(translate)	SVLAN(translate)	SVLAN Priority(translate)	Action
----------	------	------	--------------------	----------------------	--------------------------	------------------	---------------------------	------------------	---------------------------	--------

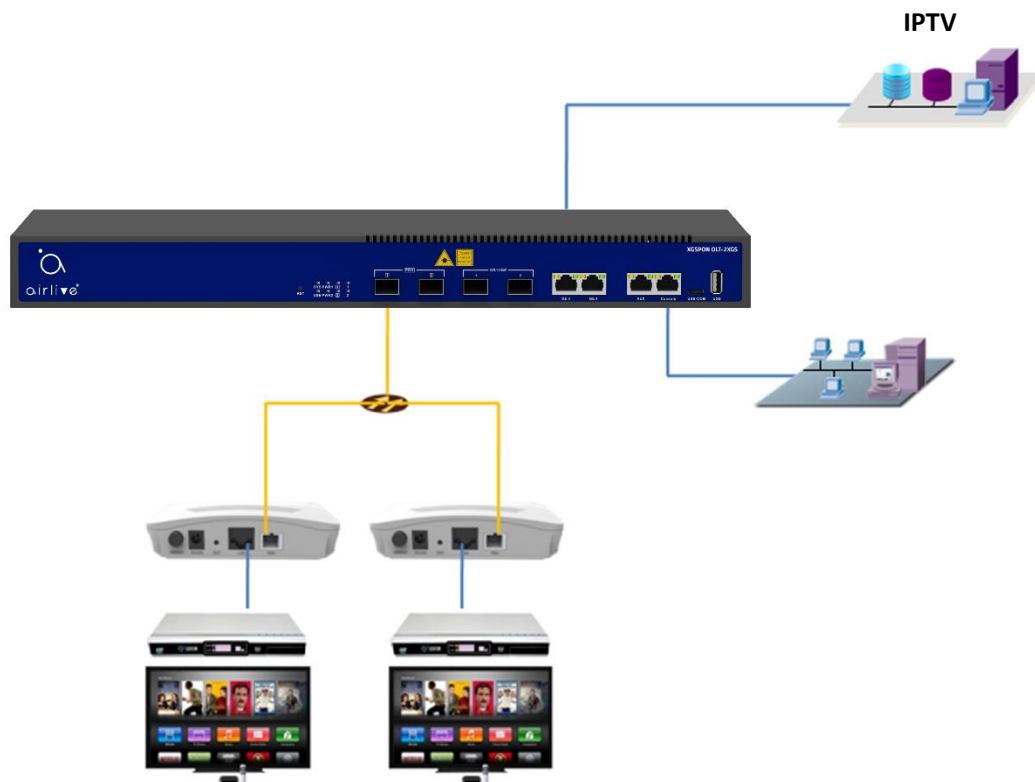
Add ONU PortVLAN

Mode	Tag
PortType	Eth
Port Id	1
VLAN ID	100
VLAN Priority	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.	ONU-10XGS-1004-10G
	ONU SN	ONU serial number	GPON00000a87
	OLT PON	The PON port of OLT	GPON 0/1
	Equipid	The Equipment id of ONU	MONUV305
	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 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 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 0/3
```

```
gpon-olt(config-if-ge0/3)# switchport hybrid vlan 300 untagged
```

```
gpon-olt(config-if-ge0/3)# switchport hybrid pvid vlan 300
```

```
gpon-olt(config-if-ge0/3)# 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 0/3
```

```
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-pon-0/1)# ip igmp snooping user-vlan 300 group-vlan 300 tagged
```

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

1,create a new VLAN for IGMP



VLAN

VLAN Port

QinQ/Translation

OLT Information

OLT Configuration

VLAN

Uplink Port

PON

MAC

LACP

QoS

ACL

IPv6 ACL

IGMP

IPv6 MLD

STP

Loopback

DHCP

New VLAN

Mode

single

VLAN ID

300

(1-4094)

Description

VLAN300

Add

Delete

VLAN Table

VLAN ID	Description	Edit	Delete
1	default		
100	VLAN100		

2, configure VLAN mode



VLAN

VLAN Port

QinQ/Translation

OLT Information

OLT Configuration

VLAN

Uplink Port

PON

MAC

LACP

QoS

ACL

IPv6 ACL

IGMP

IPv6 MLD

STP

Loopback

DHCP

DHCPv6

IPv6 SLAAC

Port VLAN Configuration

VLAN ID

300

Port ID	Mode	Forbidden	Tag	Untag
GE0/1	Hybrid		☐	☐
GE0/2	Hybrid		☐	☐
GE0/3	Hybrid	☐	☐	
GE0/4	Hybrid		☐	☐

Submit

Reset

Port VLAN Table

VLAN ID	Tag Ports	Untag Ports
1		GE1 GE2 GE3 GE4
100		GE1 GE2 GE3 GE4
300		

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Save

Information

Optical Information

Perf-Stats Information

Configuration

Perf-Stats Configuration

Protection Switch Group

Port Group

OLT Information

OLT Configuration

VLAN

Uplink Port

PON

MAC

LACP

QoS

ACL

IPv6 ACL

IGMP

IPv6 MLD

GE Configuration

Port ID	Description	Admin Status	Speed	PVID	Storm(0/64-1000000fps)			Rate(0/64-10000000kbps)	
					Broadcast	Multicast	Unknown Unicast	Ingress	Egress
GE0/1		☒	10000M Full	1	512	0	512	0	0
GE0/2		☒	10000M Full	1	512	0	512	0	0
GE0/3		☒	Auto	300	512	0	512	0	0
GE0/4		☒	Auto	1	512	0	512	0	0

Submit

Reset

3,enable IGMP snooping function

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Group Member

Global

Port

Port User VLAN

Port Mrouter

Static Group

OLT Information

OLT Configuration

VLAN

Uplink Port

PON

MAC

LACP

QoS

ACL

IPv6 ACL

IGMP

IPv6 MLD

STP

Loopback

IGMP Configuration

IGMP Status

Member Port Timeout

Query Response Time

Last Member Query Interval

Last Member Query Count

Last Member Query Response

General Query Packet

General Query Interval

Query Source IP

Enable

260

10

1

2

1

☒ Disable
 ☐ Enable

125

1.1.1.1

Submit

Reset

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Group Member

Global

Port

Port User VLAN

Port Mrouter

Static Group

OLT Information

OLT Configuration

VLAN

Uplink Port

PON

MAC

LACP

QoS

ACL

IPv6 ACL

IGMP

IPv6 MLD

STP

Loopback

DHCP

DHCPv6

IPv6 SLAAC

User VLAN Configuration

Port ID

User VLAN ID

Group VLAN ID

Add

GPON0/1

300

300

User VLAN Table

Port ID	User VLAN ID	Group VLAN ID	Delete

Default VLAN Configuration

Default VLAN ID

Add

Delete

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

OLT Information

OLT Configuration

VLAN

Uplink Port

PON

MAC

LACP

QoS

ACL

IPv6 ACL

IGMP

IPv6 MLD

STP

Loopback

DHCP

Add Multicast Router

Port ID

Group VLAN ID

Multicast Router Table

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

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 screenshot shows the AirLive web interface. On the left is a navigation menu with the following items: OLT Information, OLT Configuration, ONU Configuration, Profile Configuration, DBA Profile (highlighted), Traffic Profile, Line Profile, Service Profile, Alarm Profile, Pri Profile, IGMP Profile, Format Profile, Bind Profile, ONU Rapid Deployment, and System Configuration. The main content area is titled 'DBA Profiles' and 'Add Profile'. The 'Add Profile' form contains the following fields:

Profile ID	1
Profile Type	Type_3 Tip
Profile Name	dba_1
Assured(Kbps)	10000 (256 - 9953280Kbps)
Maximum(Kbps)	100000 (256 - 9953280Kbps)

Below the form is a 'Commit' button.

2, Create ONU profile for 1GE ONU

The screenshot shows the AirLive web interface. On the left is a navigation menu with the following items: OLT Information, OLT Configuration, ONU Configuration, Profile Configuration, ONU Profile (highlighted), DBA Profile, Traffic Profile, Line Profile, Service Profile, Alarm Profile, Pri Profile, IGMP Profile, Format Profile, Bind Profile, ONU Rapid Deployment, and System Configuration. The main content area is titled 'Information' and 'Add Profile'. The 'Add Profile' form is titled 'ONU Profile Modify' and contains the following fields:

Profile ID	1
Profile Name	ONU-10XGS-1004-10G
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

Below the form is a 'Commit' button.

3,Authorize ONU

Automatic Discovery

Port ID:

Search Info:

Index	SN	SNPW	LOID	LOIDPW	Action
1	GPON00000a87	NULL	NULL	NULL	Add

Add Onu

SLOT Num:

PON Num:

ONU Num:

Auth Mode:

Onu Sn:

ONU Profile:

4,Configure ONU

ONU Authentication Information

Port ID:

Search Mode:

Search Info:

ONU Count:

ONU ID	Status	Description	Model	Profile	PON Type	Mode	Info	Action
GPON0/1:1	Online	GPON0/1:1	V305	ONU-10XGS-1004-10G	XGS-PON	SN	GPON00000a87	Config Deactivate Delete Modify Optical Info Detail Info Reboot

airlive®

Save

ONU List

ONU Status

ONU Optical Information

ONU Version Information

ONU Manual Add

ONU Allowlist

ONU S

Tcont

Gemport

Service

Service Port

PortVLAN

Multicast

Port

IP Host

IGMP

MAC

DHCP Server

Mi

H.248

MAC ACL

ONU Tcont Information (SLOT:0 PON:1 ONU:1)

Tcont ID	Name	DBA Profile	Action
1	tcon_1	dba_1	Delete

Add ONU Tcont

Tcont ID	2
Tcont Name	
DBA Profile Name	default1

Commit

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ONU List

ONU Status

ONU Optical Information

ONU Version Information

ONU Manual Add

ONU A

Tcont

Gemport

Service

Service Port

PortVLAN

Multicast

Port

IP Host

IGMP

MAC

DP

Loopback Detection

H.248

MAC ACL

ONU Gemport Info (SLOT:0 PON:1 ONU:1)

Gemport ID	Name	Tcont	Downstream	Action
------------	------	-------	------------	--------

Add ONU Gemport

Gemport ID	3
TcontID	1
Gemport Name	default3
Downstream Traffic	default

Commit

ONU Gemport Rate Limit Info

Gemport ID	Name	Tcont	Upstream CIR	Upstream PIR	Downstream CIR	Downstream PIR	Action
------------	------	-------	--------------	--------------	----------------	----------------	--------

ONU Gemport Rate Limit Configuration

Gemport ID	
Upstream Traffic Committed Rate Limit (B/s)	0 (0-4294967295)
Upstream Traffic Peak Rate Limit (B/s)	0 (0-4294967295)
Downstream Traffic Committed Rate Limit (B/s)	0 (0-4294967295)
Downstream Traffic Peak Rate Limit (B/s)	0 (0-4294967295)

Commit

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ONU List

ONU Status

ONU Optical Information

ONU Version Information

ONU Manual Add

Tcont

Gemport

Service

Service Port

PortVLAN

Multicast

Port

IP Host

IGMP

H.248

MAC ACL

ONU Service Information (SLOT:0 PON:1 ONU:1)

ServiceName	Gemport	VLAN Mode	VLAN List	CoS List	Port	Action
-------------	---------	-----------	-----------	----------	------	--------

Add ONU Service

ServiceName	ser_1
Gemport ID	3
VLAN Mode	Tag
VLAN List	300 (X,X or X-X;0 for all;max 12 VLANs)
CoS List	N/A (X,X or X-X;)
PortType	N/A

Commit

airlive®

Save

ONU List

ONU Status

ONU Optical Information

ONU Version Information

ONU Manual Add

ONU Allowlist

ONU

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Gemport

Service

Service Port

PortVLAN

Multicast

Port

IP Host

IGMP

MAC

DHCP Server

M

H.248

MAC ACL

ONU Service Port Info (SLOT:0 PON:1 ONU:1)

Service Port	Gemport ID	Begin Vid	End Vid	Outer Vid	Inner Vid	VLAN	SVLAN	Mode	Enable	Description	Action
--------------	------------	-----------	---------	-----------	-----------	------	-------	------	--------	-------------	--------

Add ONU Service Port

Service Mode

CVLAN

Service Port ID

3

Gemport ID

3

User VLAN

300

Translate VLAN

300

Translate SVLAN

N/A

Description

N/A

Commit

airlive®

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Log

Status

ONU list

Logout

ONU List

ONU Status

ONU Optical Information

ONU Version Information

ONU Manual Add

ONU Allowlist

ONU Statistics

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Service Port

PortVLAN

Multicast

Port

IP Host

IGMP

MAC

DHCP Server

Misc

Misc2

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MAC ACL

ONU PortVLAN Info (SLOT:0 PON:1 ONU:1)

PortName	Mode	VLAN	VLAN Priority(tag)	Default VLAN(hybrid)	Default Priority(hybrid)	CVLAN(translate)	CVLAN Priority(translate)	SVLAN(translate)	SVLAN Priority(translate)	Action
eth_0/1	Transparent	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Delete

Add ONU PortVLAN

Mode

Transparent

PortType

Eth

Port Id

Commit

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ONU List

ONU Status

ONU Optical Information

ONU Version Information

ONU Manual Add

C

Tcont

Gemport

Service

Service Port

PortVLAN

Multicast

Port

IP Host

IGMP

MAC

H.248

MAC ACL

Multicast VLAN

ONU ID	VLAN List	Action
1	N/A	Delete All

300

(100, 103 or 105-108; max 12 VLANs)

Add

Delete

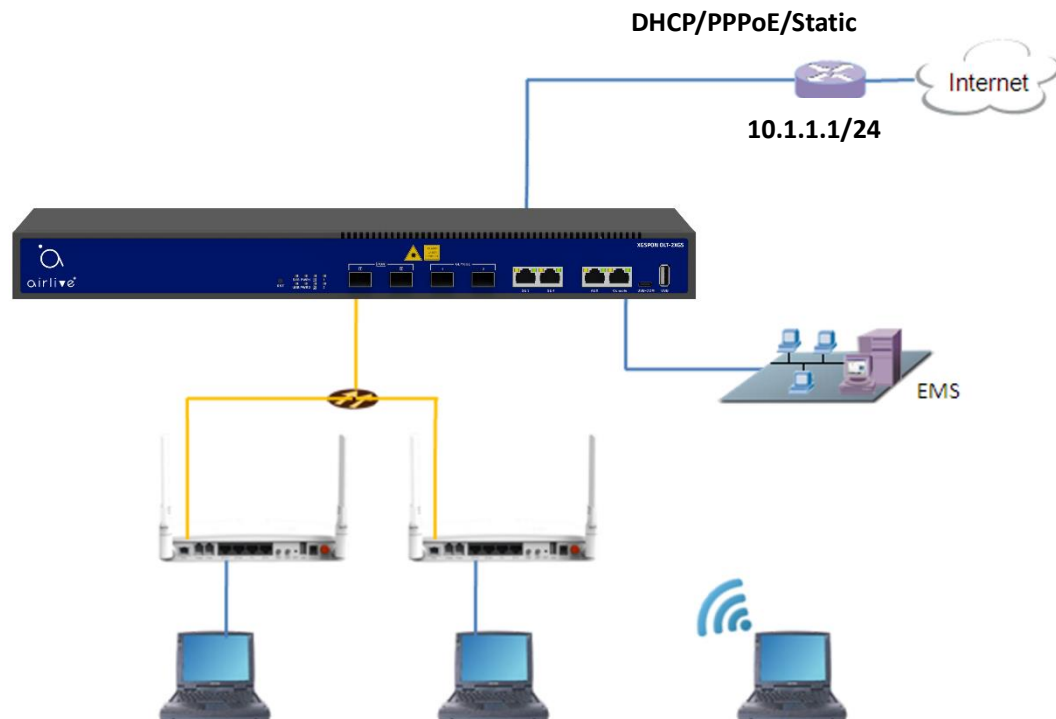
Multicast VLAN tag strip

VLAN Mode	Port	Action
1		

 (Eth number) | Add |

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.	ONU-10XGS-1004-10G
OLT	Service Uplink VLAN	The VLAN ID of the uplink port service.	VLAN mode = UNTAG PVID = 100
	Service Uplink port	Configure according to the number of the actually used uplink port.	GE3
	Service PON VLAN	The VLAN ID of the PON port service.	VLAN mode = TAG VLAN ID = 100
	Service PON	Configure according to the number of	PON1

	port	the actually used PON port.	
ONU	Service LAN VLAN	The VLAN ID of the LAN port service.	Default 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 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 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 Security method = WPA2 Mixed WPA Encryption = TKIP WPA2 Encryption = AES KEY = 12345678
	Service WAN VLAN	The VLAN ID of the PON(WAN) port service.	VLAN ID = 100
	If WAN use DHCP mode	The router uses DHCP assign ip to terminal user.	Gateway = 10.1.1.1 IP Range 10.1.1.2-10.1.1.254 IP Mask = 255.255.255.0 DNS = 8.8.8.8
	If WAN use PPPoE mode	The router uses PPPoE assign ip to terminal user.	IP Range 10.1.1.2-10.1.1.254 IP Mask = 255.255.255.0 User name = test Password = test
	If WAN use Static mode	The router uses Static assign ip to terminal user.	Gateway = 10.1.1.1 IP = 10.1.1.100 IP Mask = 255.255.255.0 DNS = 8.8.8.8
PC	DHCP mode	The ONU uses DHCP assign ip to PC.	Gateway = 192.168.1.1 IP = 192.168.1.2 IP Mask = 255.255.255.0 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 0/3
```

```
gpon-olt(config-if-ge0/3)# switchport hybrid vlan 100 untagged
```

```
gpon-olt(config-if-ge0/3)# switchport hybrid pvid vlan 100
```

```
gpon-olt(config-if-ge0/3)# exit
```

By web -----

1, Create a new VLAN

The screenshot shows the AirLive web management interface. On the left is a navigation menu with the following items: OLT Information, OLT Configuration, **VLAN** (highlighted), Uplink Port, PON, MAC, LACP, QoS, ACL, IPv6 ACL, IGMP, IPv6 MLD, STP, and Loopback. The main content area has three tabs: **VLAN**, VLAN Port, and QinQ/Translation. The 'New VLAN' section contains the following fields: Mode (set to 'single'), VLAN ID (set to '100' with a range '(1-4094)' to its right), and Description (set to 'VLAN100'). Below these fields are 'Add' and 'Delete' buttons. The 'VLAN Table' section contains a table with the following data:

VLAN ID	Description	Edit	Delete
1	default		

2. configure GE port VLAN mode

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VLAN | **VLAN Port** | QinQ/Translation

OLT Information
OLT Configuration
VLAN
Uplink Port
PON
MAC
LACP
QoS
ACL
IPv6 ACL
IGMP
IPv6 MLD
STP
Loopback
DHCP
DHCPv6

Port VLAN Configuration

VLAN ID: 100

Port ID	Mode	Forbidden	Tag	Untag
GE0/1	Hybrid	☒	☐	☐
GE0/2	Hybrid	☒	☐	☐
GE0/3	Hybrid	☐	☐	☒
GE0/4	Hybrid	☒	☐	☐

Submit Reset

Port VLAN Table

VLAN ID	Tag Ports	Untag Ports
1		GE1 GE2 GE3 GE4
100		

3, configure GE port PVID

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Save

Information | Optical Information | Perf-Stats Information | **Configuration** | Perf-Stats Configuration | Protection Switch Group | Port Group

OLT Information
OLT Configuration
VLAN
Uplink Port
PON
MAC
LACP
QoS
ACL
IPv6 ACL
IGMP

GE Configuration

Port ID	Description	Admin Status	Speed	PVID	Storm(0 64-1000000fps)			Rate(0 64-10000000kbps)	
					Broadcast	Multicast	Unknown Unicast	Ingress	Egress
GE0/1		☒	10000M Full	1	512	0	512	0	0
GE0/2		☒	10000M Full	1	512	0	512	0	0
GE0/3		☒	Auto	100	512	0	512	0	0
GE0/4		☒	Auto	1	512	0	512	0	0

Submit Reset

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 gempport 1 tcont 1
```

```
gpon-olt(config-pon-0/1)# onu 1 service 1 gempport 1 vlan 100
```

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

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

1, Create ONU profile for 4GE HGU

By web -----

The screenshot shows the AirLive web interface for configuring ONU profiles. The left sidebar contains a navigation menu with the following items: OLT Information, OLT Configuration, ONU Configuration, Profile Configuration, ONU Profile (highlighted), DBA Profile, Traffic Profile, Line Profile, Service Profile, Alarm Profile, Pri Profile, IGMP Profile, Format Profile, Bind Profile, ONU Rapid Deployment, and System Configuration. The main content area is titled 'ONU Profile Modify' and includes a 'Commit' button. The form contains the following fields:

Field	Value
Profile ID	1
Profile Name	ONU-10XGS-1004-10G
Description	HGU
Max Tcont	8
Max Gempport	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

Port ID:

Search Info:

Index	SN	SNPW	LOID	LOIDPW	Action
1	GPON00000a87	NULL	NULL	NULL	Add

3, Select the 1GE ONU template

Add Onu

SLOT Num:

PON Num:

ONU Num:

Auth Mode:

Onu Sn:

ONU Profile:

4, Configure ONU

ONU Tcont Information (SLOT:0 PON:1 ONU:1)

Tcont ID	Name	DBA Profile	Action
1	1	dba_1	

Add ONU Tcont

Tcont ID:

Tcont Name:

DBA Profile Name:

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OLT Information

OLT Configuration

ONU Configuration

ONU AuthList

ONU AutoFind

ONU AutoLearn

ONU Upgrade

Rogue ONU

ONU Common Service

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ONU Rapid Deployment

System Configuration

ONU List

ONU Status

ONU Optical Information

ONU Version Information

ONU Manual Add

ONU Allow

Tcont

Gemport

Service

Service Port

PortVLAN

Multicast

Port

IP Host

IGMP

MAC

WAN

Loopback Detection

H.248

MAC ACL

ONU Gemport Info (SLOT:0 PON:1 ONU:1)

Gemport ID	Name	Tcont	Downstream	Action
------------	------	-------	------------	--------

Add ONU Gemport

Gemport ID	1
TcontID	1
Gemport Name	1
Downstream Traffic	default

Commit

ONU Gemport Rate Limit Info

Gemport ID	Name	Tcont	Upstream CIR	Upstream PIR	Downstream CIR	Downstream PIR	Action
------------	------	-------	--------------	--------------	----------------	----------------	--------

ONU Gemport Rate Limit Configuration

Gemport ID	
Upstream Traffic Committed Rate Limit (B/s)	0 (0-4294967295)
Upstream Traffic Peak Rate Limit (B/s)	0 (0-4294967295)
Downstream Traffic Committed Rate Limit (B/s)	0 (0-4294967295)
Downstream Traffic Peak Rate Limit (B/s)	0 (0-4294967295)

Commit

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OLT Information

OLT Configuration

ONU Configuration

ONU AuthList

ONU AutoFind

ONU AutoLearn

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Rogue ONU

ONU Common Service

Profile Configuration

ONU Rapid Deployment

System Configuration

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ONU Version Information

ONU Manual Add

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Gemport

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PortVLAN

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IP Host

IGMP

M

Loopback Detection

H.248

MAC ACL

ONU Service Information (SLOT:0 PON:1 ONU:1)

ServiceName	Gemport	VLAN Mode	VLAN List	CoS List	Port	Action
-------------	---------	-----------	-----------	----------	------	--------

Add ONU Service

ServiceName	ser_1
Gemport ID	1
VLAN Mode	Tag
VLAN List	100 (X,X or X-X;0 for all;max 12 VLANs)
CoS List	N/A (X,X or X-X;)
PortType	N/A

Commit

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OLT Information

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ONU Upgrade

Rogue ONU

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ONU Allowlist

ONU S

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Service Port

PortVLAN

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IP Host

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MAC

WAN

DHCP Serv

Loopback Detection

H.248

MAC ACL

ONU Service Port Info (SLOT:0 PON:1 ONU:1)

Service Port	Gemport ID	Begin Vid	End Vid	Outer Vid	Inner Vid	VLAN	SVLAN	Mode	Enable	Description	Action
--------------	------------	-----------	---------	-----------	-----------	------	-------	------	--------	-------------	--------

Add ONU Service Port

Service Mode	CVLAN
Service Port ID	1
Gemport ID	1
User VLAN	100
Translate VLAN	100
Translate SVLAN	N/A
Description	N/A

Commit

Save

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Save Log Status ONU list Logout

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ONU Status

ONU Optical Information

ONU Version Information

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ONU Statistics

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ONU PortVLAN Info (SLOT:0 PON:1 ONU:1)

PortName	Mode	VLAN	VLAN Priority(tag)	Default VLAN(hybrid)	Default Priority(hybrid)	CVLAN(translate)	CVLAN Priority(translate)	SVLAN(translate)	SVLAN Priority(translate)	Action
----------	------	------	--------------------	----------------------	--------------------------	------------------	---------------------------	------------------	---------------------------	--------

Add ONU PortVLAN

ModeTransparent

PortTypeVelp

Port Id1

Commit

Add new wan and submit this configuration

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Save

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System Configuration

WAN Connect Table (SLOT:0 PON:1 ONU:1)

Index	Mode	IP Version	Service Mode	Status	MAC Address	Configuration Information
-------	------	------------	--------------	--------	-------------	---------------------------

WAN Connect Parameter Configuration

WAN IndexNEW

Moderoute

IP VersionIPv4

Connect ModeDHCP

DNSDisable

Master DNS(A.B.C.D)

Slave DNS(A.B.C.D)

NAT EnableEnable

VLAN ModeTag

VLAN ID100(Tag:0-4095;Transparent:1-4095)

VLAN CoS0(0-7)

QinQ EnableDisable

QinQ TPID0(1-65534)

SVLAN ID0(1-4095)

SVLAN CoS0(0-7)

MTU1500(576-1500)

QoS EnableDisable

Service ModeInternet

Port Binding

☒ LAN1
☐ LAN2
☐ LAN3
☐ LAN4
☐ LAN5

Submit

WAN Connect running-config

Submit

Index

ONU running-config

Delete

Submit running-config

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MAC ACL

WAN Connect Table (SLOT:0 PON:1 ONU:1)

Index	Mode	IP Version	Service Mode	Status	MAC Address	Configuration Information
-------	------	------------	--------------	--------	-------------	---------------------------

WAN Connect Parameter Configuration

WAN Index

NEW

Mode

bridge

IP Version

IPv4

VLAN Mode

Disable

MTU

1500

(576-1500)

QoS Enable

Disable

Service Mode

Internet

Port Binding

☐ LAN1
☐ LAN2
☐ LAN3
☐ LAN4
☐ LAN5

Submit

WAN Connect running-config

Submit

Index	ONU running-config	Delete
1	Connect Type:route,IP Version:IPv4,Service Mode:Internet,QoS Enable:disable,MTU:1500,Connect Mode:DHCP, NAT:enable, VLAN Mode:Tag,VLAN ID:100, VLAN CoS:0, QinQ Enable:disable, Bind:LAN1	

Status is connected

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Save Log Status

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MAC ACL

WAN Connect Table (SLOT:0 PON:1 ONU:1)

Index	Mode	IP Version	Service Mode	Status	MAC Address	Configuration Information
1	route	IPv4	Internet	Connected	00:4F:5B:00:0A:88	QoS Enable:disable,MTU:1500,Connect Mode:DHCP, Dynamic IP:192.168.110.164, Mask:255.255.255.0, Gateway:192.168.110.1, DNS Master:192.168.110.1, DNS Slave:0.0.0.0, NAT:enable, VLAN Mode:Tag,VLAN ID:100, VLAN CoS:0, QinQ Enable:disable, Bind:LAN1

WAN Connect Parameter Configuration

WAN Index

NEW

Mode

bridge

IP Version

IPv4

VLAN Mode

Disable

MTU

1500

(576-1500)

QoS Enable

Disable

Service Mode

Internet

Port Binding

☐ LAN1
☐ LAN2
☐ LAN3
☐ LAN4
☐ LAN5

Submit

WAN Connect running-config

Submit

Index	ONU running-config	Delete
1	Connect Type:route,IP Version:IPv4,Service Mode:Internet,QoS Enable:disable,MTU:1500,Connect Mode:DHCP, NAT:enable, VLAN Mode:Tag,VLAN ID:100, VLAN CoS:0, QinQ Enable:disable, Bind:LAN1	

If PPPoE mode

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WAN Connect Table (SLOT:0 PON:1 ONU:1)

Index	Mode	IP Version	Service Mode	Status	MAC Address	Configuration Information
WAN Connect Parameter Configuration WAN Index NEW Mode route IP Version IPv4 Connect Mode PPPoE PPPoE Proxy Disable Username test Password test Servname PPPoE Mode Auto Connect NAT Enable Enable VLAN Mode Tag VLAN ID 100 (Tag:0-4095;Transparent:1-4095) VLAN CoS 0 (0-7) QinQ Enable Disable QinQ TPID 0 (1-65534) SVLAN ID 0 (1-4095) SVLAN CoS 0 (0-7) MTU 1492 (576-1492) QoS Enable Disable Service Mode Internet Port Binding ☒ LAN1 ☐ LAN2 ☐ LAN3 ☐ LAN4 ☐ LAN5 Submit						

WAN Connect running-config

Submit

Index

ONU running-config

Delete

Submit running-config

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MAC ACL

WAN Connect Table (SLOT:0 PON:1 ONU:1)

Index	Mode	IP Version	Service Mode	Status	MAC Address	Configuration Information
WAN Connect Parameter Configuration WAN Index NEW Mode bridge IP Version IPv4 VLAN Mode Disable MTU 1500 (576-1500) QoS Enable Disable Service Mode Internet Port Binding ☐ LAN1 ☐ LAN2 ☐ LAN3 ☐ LAN4 ☐ LAN5 Submit						

WAN Connect running-config

Submit

Index	ONU running-config	Delete
1	Connect Type:route,IP Version:IPv4,Service Mode:Internet,QoS Enable:disable,MTU:1492,Connect Mode:PPPoE,PPPoE Proxy:disable,UserName:test,pwd:test,serverName:,Mode:auto, NAT:enable,VLAN Mode:Tag,VLAN ID:100, VLAN CoS:0,QinQ Enable:disable, Bind:LAN1	

The connection status

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Save Log Status ONU list

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System Configuration

WAN Connect Table (SLOT:0 PON:1 ONU:1)

Index	Mode	IP Version	Service Mode	Status	MAC Address	Configuration Information
1	route	IPv4	Internet	Connected	00:4F:5B:00:0A:88	QoS Enable:disable,MTU:1492,Connect Mode:PPPoE,PPPoE Proxy:disable,UserName:test,pwd:test,serverName:,Mode:auto, NAT:enable,VLAN Mode:Tag,VLAN ID:100, VLAN CoS:0,QinQ Enable:disable, Bind:LAN1

WAN Connect Parameter Configuration

WAN Index

NEW

Mode

bridge

IP Version

IPv4

VLAN Mode

Disable

MTU

1500

(576-1500)

QoS Enable

Disable

Service Mode

Internet

Port Binding

☐ LAN1
☐ LAN2
☐ LAN3
☐ LAN4
☐ LAN5

Submit

WAN Connect running-config

Submit

Index	ONU running-config	Delete
1	Connect Type:route,IP Version:IPv4,Service Mode:Internet,QoS Enable:disable,MTU:1492,Connect Mode:PPPoE,PPPoE Proxy:disable,UserName:test,pwd:test,serverName:,Mode:auto, NAT:enable,VLAN Mode:Tag,VLAN ID:100, VLAN CoS:0,QinQ Enable:disable, Bind:LAN1	

If static mode

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Save

ONU List

ONU Status

ONU Optical Information

ONU Version Information

ONU Manual Add

ONU Allowlist

Tcont

Gemport

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Multicast

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ONU Configuration

ONU AuthList

ONU AutoFind

ONU AutoLearn

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ONU Rapid Deployment

System Configuration

WAN Connect Table (SLOT:0 PON:1 ONU:1)

Index	Mode	IP Version	Service Mode	Status	MAC Address	Configuration Information
-------	------	------------	--------------	--------	-------------	---------------------------

WAN Connect Parameter Configuration

WAN Index

NEW

Mode

route

IP Version

IPv4

Connect Mode

Static

IP Address

192.168.10.100

(A.B.C.D)

IP NetMask

255.255.255.0

(A.B.C.D)

Gateway

192.168.10.1

(A.B.C.D)

Master DNS

0.0.0.0

(A.B.C.D)

Slave DNS

0.0.0.0

(A.B.C.D)

NAT Enable

Enable

VLAN Mode

Tag

VLAN ID

100

(Tag:0-4095;Transparent:1-4095)

VLAN CoS

0

(0-7)

QinQ Enable

Disable

QinQ TPID

0

(1-65534)

SVLAN ID

0

(1-4095)

SVLAN CoS

0

(0-7)

MTU

1500

(576-1500)

QoS Enable

Disable

Service Mode

Internet

Port Binding

☒ LAN1
☐ LAN2
☐ LAN3
☐ LAN4
☐ LAN5

Submit

WAN Connect running-config

Submit

Index	ONU running-config	Delete
-------	--------------------	--------

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Submit running-config

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Save ● Log Stat

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ONU Version Information

ONU Manual Add

ONU Allowlist

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ONU Rapid Deployment

System Configuration

Loopback Detection

H.248

MAC ACL

WAN Connect Table (SLOT:0 PON:1 ONU:1)

Index	Mode	IP Version	Service Mode	Status	MAC Address	Configuration Information
1	route	IPv4	Internet	Connected	00:4F:5B:00:0A:88	QoS Enable:disable,MTU:1500,Connect Mode:Static, 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, NAT:enable, VLAN Mode:Tag,VLAN ID:100, VLAN CoS:0, QinQ Enable:disable, Bind:LAN1

WAN Connect Parameter Configuration

WAN Index

NEW

Mode

bridge

IP Version

IPv4

VLAN Mode

Disable

MTU

1500

(576-1500)

QoS Enable

Disable

Service Mode

Internet

Port Binding

☐ LAN1
 ☐ LAN2
 ☐ LAN3
 ☐ LAN4
 ☐ LAN5

Submit

WAN Connect running-config

Submit

Index	ONU running-config	Delete
1	Connect Type:route,IP Version:IPv4,Service Mode:Internet,QoS Enable:disable,MTU:1500,Connect Mode:Static, 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, NAT:enable, VLAN Mode:Tag,VLAN ID:100, VLAN CoS:0, QinQ Enable:disable, Bind:LAN1	

The connection status

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Save ● Log Status ONU list Logout

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ONU Status

ONU Optical Information

ONU Version Information

ONU Manual Add

ONU Allowlist

ONU Statistics

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Gemport

Service

Service Port

PortVLAN

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DHCP Server

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Security

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H.248

MAC ACL

WAN Connect Table (SLOT:0 PON:1 ONU:1)

Index	Mode	IP Version	Service Mode	Status	MAC Address	Configuration Information
1	route	IPv4	Internet	Connected	00:4F:5B:00:0A:88	QoS Enable:disable,MTU:1500,Connect Mode:Static, 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, NAT:enable, VLAN Mode:Tag,VLAN ID:100, VLAN CoS:0, QinQ Enable:disable, Bind:LAN1

WAN Connect Parameter Configuration

WAN Index

NEW

Mode

bridge

IP Version

IPv4

VLAN Mode

Disable

MTU

1500

(576-1500)

QoS Enable

Disable

Service Mode

Internet

Port Binding

☐ LAN1
 ☐ LAN2
 ☐ LAN3
 ☐ LAN4
 ☐ LAN5

Submit

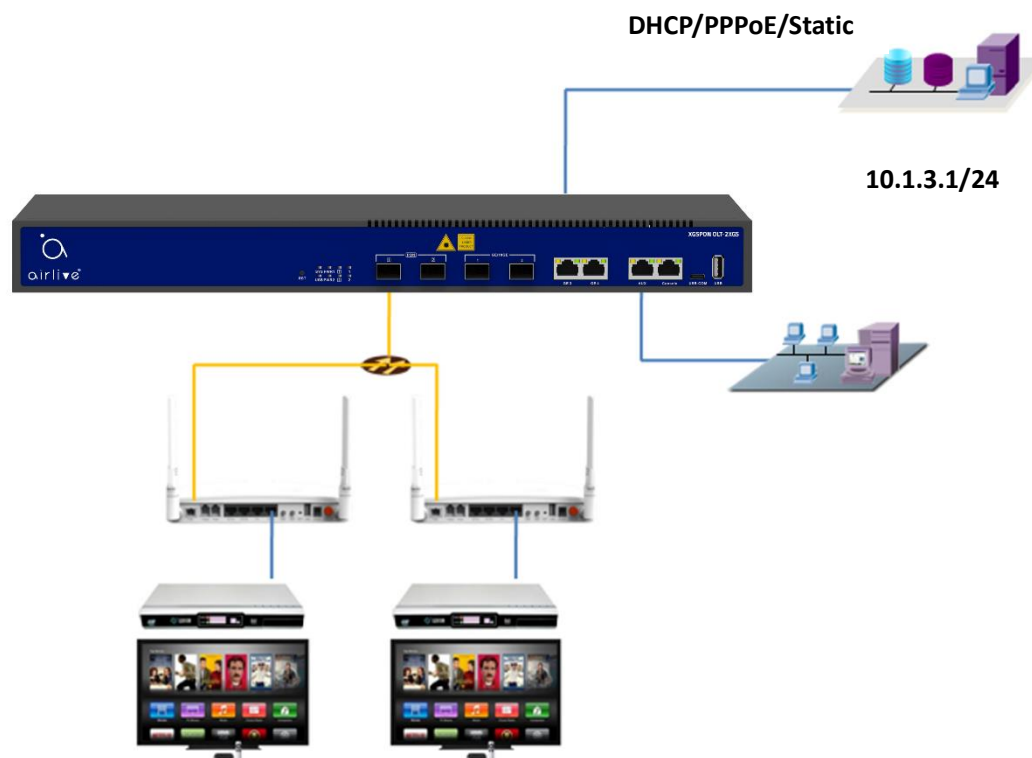
WAN Connect running-config

Submit

Index	ONU running-config	Delete
1	Connect Type:route,IP Version:IPv4,Service Mode:Internet,QoS Enable:disable,MTU:1500,Connect Mode:Static, 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, NAT:enable, VLAN Mode:Tag,VLAN ID:100, VLAN CoS:0, QinQ Enable:disable, Bind:LAN1	

Case 5 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.	ONU-10XGS-1004-10G
OLT	Service Uplink VLAN	The VLAN ID of the uplink port service.	VLAN mode = UNTAG PVID = 300
	Service Uplink port	Configure according to the number of the actually used uplink port.	GE3
	Service PON VLAN	The VLAN ID of the PON port service.	VLAN mode = TAG VLAN ID = 300
	Service PON	Configure according to the number	PON1

	port	of the actually used PON port.	
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 LAN VLAN ID = 300 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 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 IP = 10.1.3.100 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 0/3
```

```
gpon-olt(config-if-ge0/3)# switchport hybrid vlan 300 untagged
```

```
gpon-olt(config-if-ge0/3)# switchport hybrid pvid vlan 300
```

```
gpon-olt(config-if-ge0/3)# 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 0/3
```

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

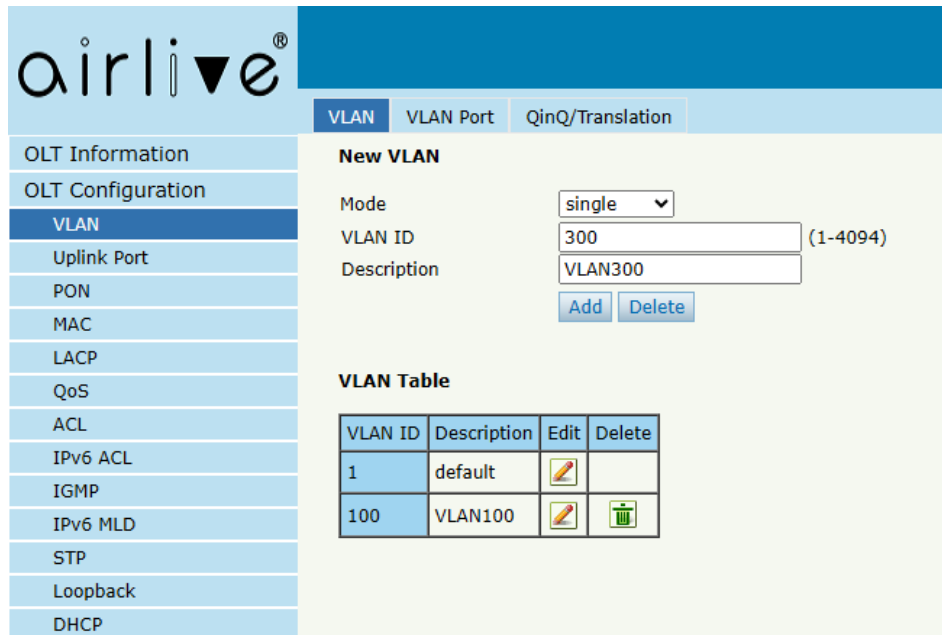
```
gpon-olt(config)# interface gpon 0/1
```

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

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

By web -----

1\create a new VLAN for IGMP



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VLAN | VLAN Port | QinQ/Translation

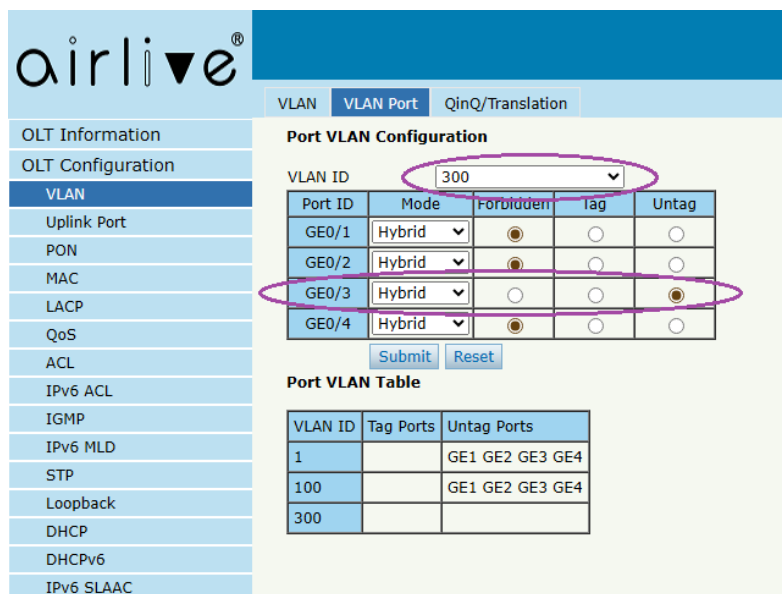
New VLAN

Mode: single
VLAN ID: 300 (1-4094)
Description: VLAN300
[Add] [Delete]

VLAN Table

VLAN ID	Description	Edit	Delete
1	default		
100	VLAN100		

2, configure VLAN mode



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VLAN | VLAN Port | QinQ/Translation

Port VLAN Configuration

VLAN ID: 300

Port ID	Mode	Forbidden	Tag	Untag
GE0/1	Hybrid	☒	☐	☐
GE0/2	Hybrid	☒	☐	☐
GE0/3	Hybrid	☐	☐	☒
GE0/4	Hybrid	☒	☐	☐

[Submit] [Reset]

Port VLAN Table

VLAN ID	Tag Ports	Untag Ports
1		GE1 GE2 GE3 GE4
100		GE1 GE2 GE3 GE4
300		

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Save

Log

Information

Optical Information

Perf-Stats Information

Configuration

Perf-Stats Configuration

Protection Switch Group

Port Group Isol

OLT Information

OLT Configuration

VLAN

Uplink Port

PON

MAC

LACP

QoS

ACL

IPv6 ACL

IGMP

IPv6 MLD

GE Configuration

Port ID	Description	Admin Status	Speed	PVID	Storm(0[64-1000000fps])			Rate(0[64-10000000kbps])	
					Broadcast	Multicast	Unknown Unicast	Ingress	Egress
GE0/1		☒	10000M Full	1	512	0	512	0	0
GE0/2		☒	10000M Full	1	512	0	512	0	0
GE0/3		☒	Auto	300	512	0	512	0	0
GE0/4		☒	Auto	1	512	0	512	0	0

Submit

Reset

3,enable IGMP snooping function

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Group Member

Global

Port

Port User VLAN

Port Router

Static Group

OLT Information

OLT Configuration

VLAN

Uplink Port

PON

MAC

LACP

QoS

ACL

IPv6 ACL

IGMP

IPv6 MLD

STP

Loopback

DHCP

IGMP Configuration

IGMP Status

Member Port Timeout

Query Response Time

Last Member Query Interval

Last Member Query Count

Last Member Query Response

General Query Packet

General Query Interval

Query Source IP

Enable

260

10

1

2

1

☒ Disable
 ☐ Enable

125

1.1.1.1

Submit

Reset

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Group Member

Global

Port

Port User VLAN

Port Router

Static Group

OLT Information

OLT Configuration

VLAN

Uplink Port

PON

MAC

LACP

QoS

ACL

IPv6 ACL

IGMP

IPv6 MLD

STP

Loopback

DHCP

DHCPv6

IPv6 SLAAC

User VLAN Configuration

Port ID

User VLAN ID

Group VLAN ID

Add

GPON0/1

300

300

User VLAN Table

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

Default VLAN Configuration

Default VLAN ID

Add

Delete

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Group Member Global Port Port User VLAN Port Mrouter Static Group

OLT Information

OLT Configuration

VLAN

Uplink Port

PON

MAC

LACP

QoS

ACL

IPv6 ACL

IGMP

IPv6 MLD

Add Multicast Router

Port ID GE0/3

Group VLAN ID 300

Add

Multicast Router Table

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

Configuring the ONU

By 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 to 300 transparent

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
```

By web -----

Configure ONU

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OLT Information

OLT Configuration

ONU Configuration

ONU AuthList

ONU AutoFind

ONU AutoLearn

ONU Upgrade

Rogue ONU

ONU Common Service

Profile Configuration

ONU Rapid Deployment

System Configuration

ONU List

ONU Status

ONU Optical Information

ONU Tcont Information (SLOT:0 PON:1 ONU:1)

Tcont

Gemport

Service

Service Port

PortVLAN

Loopback Detection

H.248

MAC ACL

Tcont ID	Name	DBA Profile	Action
1	tcont_1	dba_1	Delete

Add ONU Tcont

Tcont ID

2

Tcont Name

DBA Profile Name

default1

Commit

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OLT Information

OLT Configuration

ONU Configuration

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Rogue ONU

ONU Common Service

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ONU Status

ONU Optical Information

ONU Version Information

ONU Manual Add

ONU Gemport Info (SLOT:0 PON:1 ONU:1)

Tcont

Gemport

Service

Service Port

PortVLAN

Multicast

Port

IP Host

IGMP

MAC

W

Security

Loopback Detection

H.248

MAC ACL

Gemport ID	Name	Tcont	Downstream	Action
------------	------	-------	------------	--------

Add ONU Gemport

Gemport ID

3

TcontID

1

Gemport Name

default3

Downstream Traffic

default

Commit

ONU Gemport Rate Limit Info

Gemport ID	Name	Tcont	Upstream CIR	Upstream PIR	Downstream CIR	Downstream PIR	Action
------------	------	-------	--------------	--------------	----------------	----------------	--------

ONU Gemport Rate Limit Configuration

Gemport ID

Upstream Traffic Committed Rate Limit (B/s)

0

(0-4294967295)

Upstream Traffic Peak Rate Limit (B/s)

0

(0-4294967295)

Downstream Traffic Committed Rate Limit (B/s)

0

(0-4294967295)

Downstream Traffic Peak Rate Limit (B/s)

0

(0-4294967295)

Commit

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ONU List

ONU Status

ONU Optical Information

ONU Version Information

ONU M

OLT Information

OLT Configuration

ONU Configuration

ONU AuthList

ONU AutoFind

ONU AutoLearn

ONU Upgrade

Rogue ONU

ONU Common Service

Profile Configuration

ONU Rapid Deployment

System Configuration

Tcont

Gemport

Service

Service Port

PortVLAN

Multicast

Port

IP Host

Loopback Detection

H.248

MAC ACL

ONU Service Information (SLOT:0 PON:1 ONU:1)

ServiceName	Gemport	VLAN Mode	VLAN List	CoS List	Port	Action
-------------	---------	-----------	-----------	----------	------	--------

Add ONU Service

ServiceName	ser_1
Gemport ID	3
VLAN Mode	Tag
VLAN List	300 (X,X or X-X;0 for all;max 12 VLANs)
CoS List	N/A (X,X or X-X;)
PortType	N/A

Commit

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Save

ONU List

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ONU Optical Information

ONU Version Information

ONU Manual Add

ONU Allowlist

ONU S

Tcont

Gemport

Service

Service Port

PortVLAN

Multicast

Port

IP Host

IGMP

MAC

WAN

DHCP Serv

Loopback Detection

H.248

MAC ACL

ONU Service Port Info (SLOT:0 PON:1 ONU:1)

Service Port	Gemport ID	Begin Vid	End Vid	Outer Vid	Inner Vid	VLAN	SVLAN	Mode	Enable	Description	Action
--------------	------------	-----------	---------	-----------	-----------	------	-------	------	--------	-------------	--------

Add ONU Service Port

Service Mode	CVLAN
Service Port ID	3
Gemport ID	3
User VLAN	300
Translate VLAN	300
Translate SVLAN	N/A
Description	N/A

Commit

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Save

Log

Status

ONU list

Logout

ONU List

ONU Status

ONU Optical Information

ONU Version Information

ONU Manual Add

ONU Allowlist

ONU Statistics

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Service

Service Port

PortVLAN

Multicast

Port

IP Host

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WAN

DHCP Server

Misc

Misc2

TR069

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H.248

MAC ACL

ONU PortVLAN Info (SLOT:0 PON:1 ONU:1)

PortName	Mode	VLAN	VLAN Priority(tag)	Default VLAN(hybrid)	Default Priority(hybrid)	CVLAN(translate)	CVLAN Priority(translate)	SVLAN(translate)	SVLAN Priority(translate)	Action
veip_1	Transparent	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Delete

Add ONU PortVLAN

Mode	Transparent
PortType	Eth
Port Id	

Commit

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ONU Status

ONU Optical Information

ONU Version Information

ONU Manual

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OLT Configuration

ONU Configuration

ONU AuthList

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Tcont

Gemport

Service

Service Port

PortVLAN

Multicast

Port

IP Host

Loopback Detection

H.248

MAC ACL

Multicast VLAN

ONU ID	VLAN List	Action
1	N/A	Delete All

(100, 103 or 105-108; max 12 VLANs)

Multicast VLAN tag strip

VLAN Mode	Port	Action
1		(Eth number)

Add new wan and submit this configuration

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ONU List

ONU Status

ONU Optical Information

ONU Version Information

ONU Manual

OLT Information

OLT Configuration

ONU Configuration

ONU AuthList

ONU AutoFind

ONU AutoLearn

ONU Upgrade

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ONU Common Service

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ONU Rapid Deployment

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Gemport

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PortVLAN

Multicast

Port

IP Host

IGMP

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Loopback Detection

H.248

MAC ACL

WAN Connect Table (SLOT:0 PON:1 ONU:1)

Index	Mode	IP Version	Service Mode	Status	MAC Address	Configuration Information
-------	------	------------	--------------	--------	-------------	---------------------------

WAN Connect Parameter Configuration

WAN Index

NEW

Mode

bridge

IP Version

IPv4

VLAN Mode

Tag

VLAN ID

300

(Tag:0-4095;Transparent:1-4095)

VLAN CoS

0

(0-7)

QinQ Enable

Disable

QinQ TPID

0

(1-65534)

SVLAN ID

0

(1-4095)

SVLAN CoS

0

(0-7)

MTU

1500

(576-1500)

QoS Enable

Disable

Service Mode

Other

Port Binding

☐ LAN1
 ☐ LAN2
 ☐ LAN3
 ☒ LAN4
 ☐ LAN5

WAN Connect running-config

Index	ONU running-config	Delete
-------	--------------------	--------

Submit running-config

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Save

ONU List

ONU Status

ONU Optical Information

ONU Version Information

ONU Manual Add

ONU Allowlist

Tcont

Gemport

Service

Service Port

PortVLAN

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IP Host

IGMP

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Security

Loopback Detection

H.248

MAC ACL

OLT Information

OLT Configuration

ONU Configuration

ONU AuthList

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ONU Upgrade

Rogue ONU

ONU Common Service

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ONU Rapid Deployment

System Configuration

WAN Connect Table (SLOT:0 PON:1 ONU:1)

Index	Mode	IP Version	Service Mode	Status	MAC Address	Configuration Information
-------	------	------------	--------------	--------	-------------	---------------------------

WAN Connect Parameter Configuration

WAN Index

NEW

Mode

bridge

IP Version

IPv4

VLAN Mode

Disable

MTU

1500

(576-1500)

QoS Enable

Disable

Service Mode

Internet

Port Binding

☐ LAN1
☐ LAN2
☐ LAN3
☐ LAN4
☐ LAN5

Submit

WAN Connect running-config

Submit

Index	ONU running-config	Delete
1	Connect Type:bridge,IP Version:IPv4,Service Mode:Other,QoS Enable:disable,MTU:1500,VLAN Mode:Tag,VLAN ID:300, VLAN CoS:0, QinQ Enable:disable, Bind:LAN4	

Status is connected

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Save

ONU List

ONU Status

ONU Optical Information

ONU Version Information

ONU Manual Add

ONU Allowlist

ONU

Tcont

Gemport

Service

Service Port

PortVLAN

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ONU AutoLearn

ONU Upgrade

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ONU Common Service

Profile Configuration

ONU Rapid Deployment

System Configuration

WAN Connect Table (SLOT:0 PON:1 ONU:1)

Index	Mode	IP Version	Service Mode	Status	MAC Address	Configuration Information
1	bridge	IPv4	Other	Connected	00:4F:5B:00:0A:88	QoS Enable:disable,MTU:1500,VLAN Mode:Tag,VLAN ID:300, VLAN CoS:0, QinQ Enable:disable, Bind:LAN4

WAN Connect Parameter Configuration

WAN Index

NEW

Mode

bridge

IP Version

IPv4

VLAN Mode

Disable

MTU

1500

(576-1500)

QoS Enable

Disable

Service Mode

Internet

Port Binding

☐ LAN1
☐ LAN2
☐ LAN3
☐ LAN4
☐ LAN5

Submit

WAN Connect running-config

Submit

Index	ONU running-config	Delete
1	Connect Type:bridge,IP Version:IPv4,Service Mode:Other,QoS Enable:disable,MTU:1500,VLAN Mode:Tag,VLAN ID:300, VLAN CoS:0, QinQ Enable:disable, Bind:LAN4	