GPON FTTH HSI Service Provisioning

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Objectives

- Upon completion of this course, you will be able to:
 - Describe GPON FTTH HSI service principle
 - Master how to do the GPON FTTH HSI service configuration
 - Know the basic steps to check the GPON HSI service



1. GPON HSI Service Implementation Principle

- 2. GPON HSI Service Configuration Basics
- 3. GPON HSI Service Configuration Example
- 4. ONT Configuration Example (Optional)
- 5. GPON HSI Service Maintenance



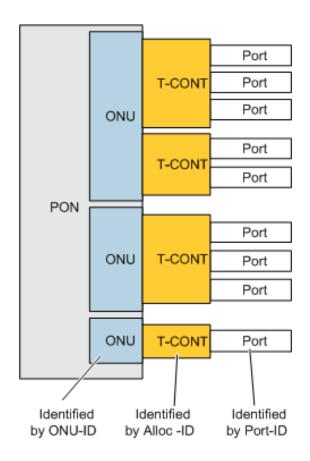
GPON Service Multiplex Structure

- In the G-PON TC layer, a T-CONT, that is identified by Alloc-ID, is the basic control unit. The concept of a port, identified by Port-ID, is used for multiplexing traffic flows over a T-CONT.
- There are three important concepts:

□ONU-ID

□T-CONT

□GEM Port



DBA

DBA Bandwidth Types

- Each DBA corresponds to different bandwidth types.
- Each bandwidth type has its own QoS feature.

	Delay	Allocation Mode	TCONT Type					
	Sensitive		Type 1	Type 2	Type 3	Type 4	Type 5	
Fixed	Yes	Provisioned	√				√	
Assured	No	Provisioned		V	V		√	
Non-Assured	No	Dynamic			V		V	
Best-effort	No	Dynamic				$\sqrt{}$	V	
Max	No	Provinsioned			V	$\sqrt{}$	V	

Mapping From Service to GEM Port

Relationship Between GEM Port and Service Traffic

Mapping	Details	Application			
VLAN ID mapping	It maps the service traffic of the specified VLAN ID to a unique Port-ID.	The ONU/ONT adopts the VLAN ID to differentiate the user service traffic.			
802.1p mapping	It maps the specified 802.1p service traffic to a unique Port-ID.	The ONU/ONT adopts the priority to differentiate the user service traffic. The user packet must be Pri-tagged.			
VLAN ID+802.1p mapping	It maps the specified VLAN ID + 802.1p service traffic to a unique Port-ID.	The ONU/ONT adopts the priority +VLAN ID to differentiate the user service traffic.			



Questions

tdm en ethernet

- Which kind of frame is transmitted in GPON?
- How to identify GEM Port?

uiq identifier, gemport id

What's the basic control unit of the upstream service stream in the GPON system?

the tcon

What's the difference between assure bandwidth and fixed bandwidth?

minimum bandwidth

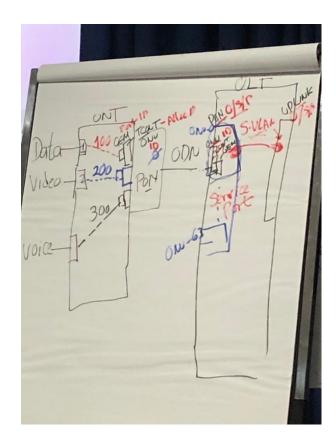
bandwidht dedicated always reserved





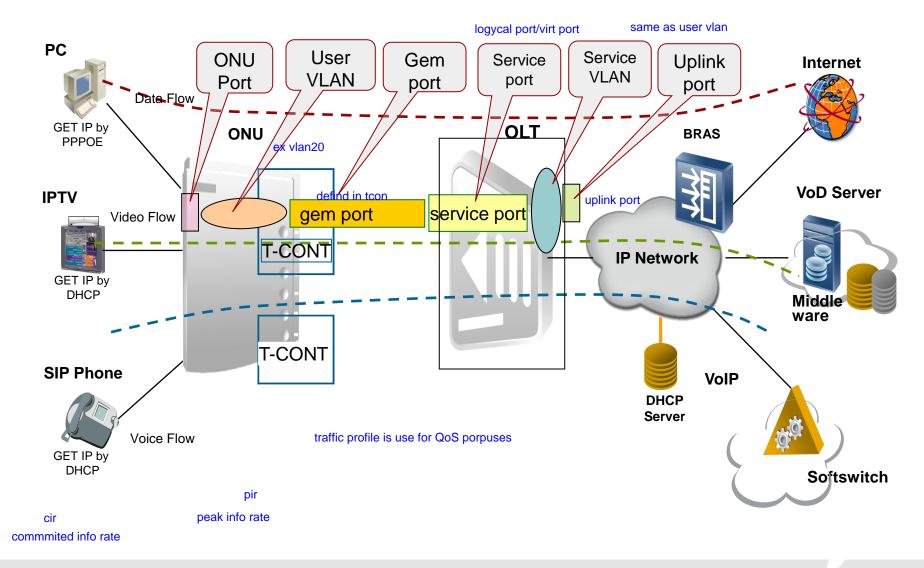
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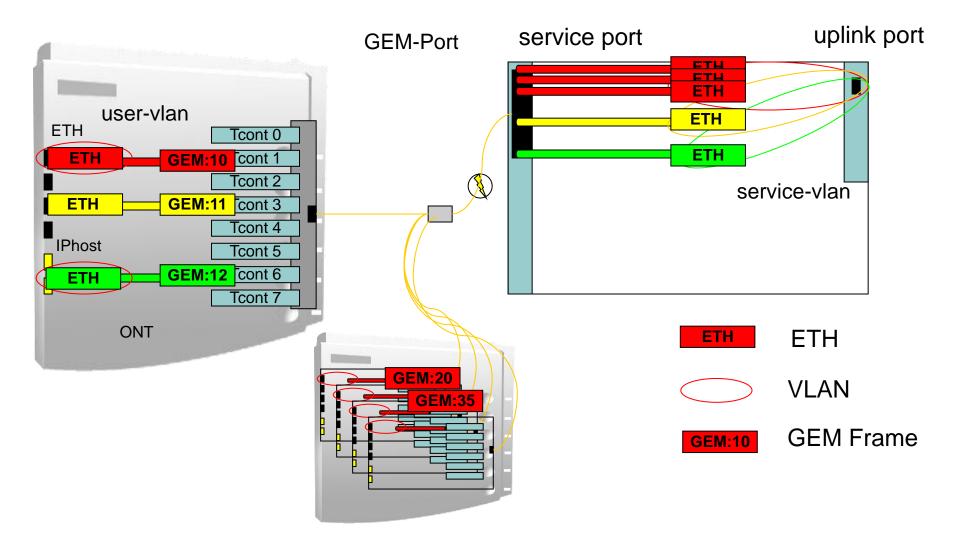




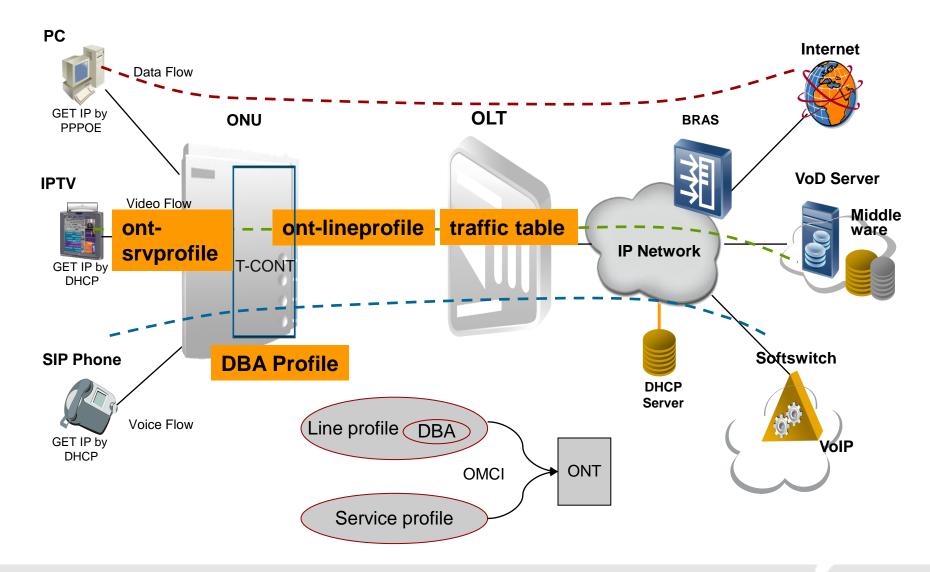
Service Mapping



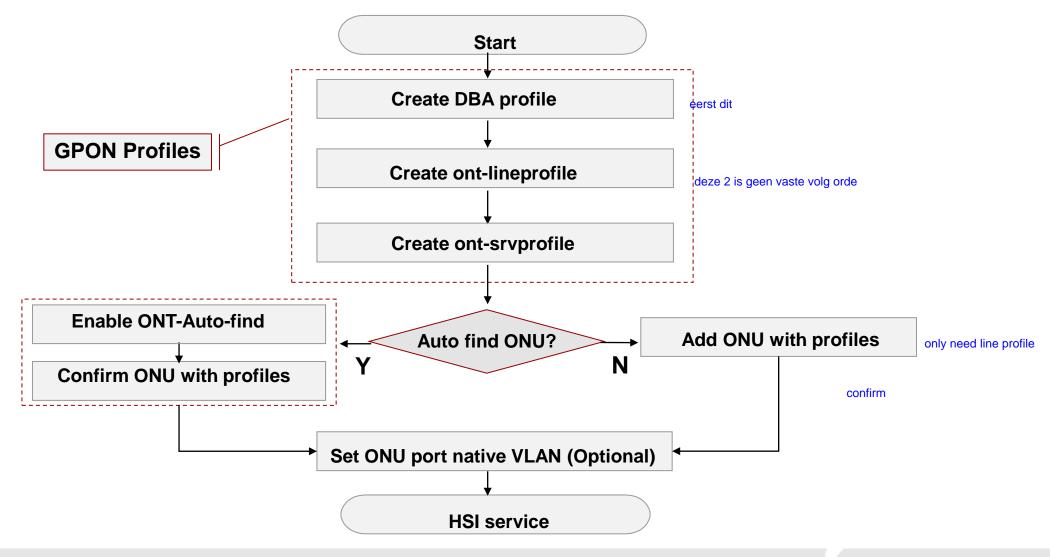
ONT and OLT Service Flow Principle



Service Control



Flow Chart-Add ONT



Flow Chart-HSI Service

provision mean create modify activate **Add ONT** Create a traffic table **Provision QoS Create Service VLAN** Set VLAN attribute (optional) **Provision VLAN** Add uplink port to VLAN Add service port to VLAN end

Create DBA Profile

query dba display dba-profile all

- Add dba-profile
 - huawei(config)#dba-profile add profile-id

Create ONT Line Profile(1/4)

Add ont-lineprofile

huawei(config)#ont-lineprofile gpon profile-id 66

```
{ <cr>|profile-name<K> }:profile-name 
{ profile-name<S><Length 1-32> }:ftth
```

huawei(config-gpon-lineprofile-66)#

Remark: If we don't assign profile-id, system will assign profile-id randomly.

Create ONT Line Profile(2/4)

test question

TCONT bind dba-profile (necessary step)

```
huawei(config-gpon-lineprofile-66)#tcont
{ tcont-list<S><Length 1-13> }:2
{ <cr>|dba-profile-id<K>|dba-profile-name<K> }:dba-profile-id
{ profile-id<U><0,515> }:20
as in dba id
```

- Add gem port and mapping to TCONT (necessary step)

Create ONT Line Profile(3/4)

- Set mapping mode
 - huawei(config-gpon-lineprofile-66)#mapping-mode

```
{ iptos<K>|port<K>|port-priority<K>|port-vlan<K>|port-vlan-priority<K>|priority<K>|vlan<K>|vlan-iptos<K>|vlan-priority<K>|vlan<K>|vlan-iptos<K>|vlan-priority<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K>|vlan-iptos<K||vlan-iptos<K>|vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-iptos<K||vlan-ipto
```

- Set mapping relationship between gem port and VLAN (necessary step)
 - huawei(config-gpon-lineprofile-66)#gem mapping

```
{ gem-index<U><0,1023> }: 20 as in gem port moet 2 zijn als tcont

{ mapping-index<U><0,7> }: 0

{ e1<K>|eth<K>|eth-bundle<K>|flow-car<K>|iphost<K>|ippath<K>|moca<K>|priority<K>|tdm-vcl<K>|transparent<K>|vdsl<K>|vlan<K> }vlan

{ untag<K>|vlan-id<U><0,4095> }: 10 customer vlan

{ <cr>|flow-car<K>|priority<K>|transparent<K>}: commit
```

Create ONT Line Profile(4/4)

- Set QoS mode
 - huawei(config-gpon-lineprofile-66)#qos-mode { flow-car<K>|gem-car<K>|priority-queue<K> }:priority-queue
- Commit configuration
 - huawei(config-gpon-lineprofile-66)#commit
 - huawei(config-gpon-lineprofile-66)#quit

Remark: The configuration will take effective after commit.

Create ONT Service Profile(1/3)

Add an ont service profile with profile name-hg8245

```
huawei(config)#ont-srvprofile gpon profile-id 88
```

huawei(config-gpon-srvprofile-88)#

Create ONT Service Profile(2/3)

Set the port capability of ont (necessary step)

Set the service vlan on ont port (necessary step)

Create ONT Service Profile(3/3)

Commit configuration

huawei(config-gpon-srvprofile-88)#commit

huawei(config-gpon-srvprofile-88)#quit

Remark: The configuration will take effective after commit.

ONT Register-Query Ont Serial Number

- Enable ont autofind function
 - huawei(config-if-gpon-0/1)#port 0 ont-auto-find enable
- Query ont serial number

huawei(config-if-gpon-0/1)#display ont autofind 0
dispay ont autofind all

Command:

display ont autofind 0

.....

Number : 1

F/S/P : 0/1/0

Ont SN : 48575443BF656E04

Loid : Checkcode :

VendorID : HWTC
Ont Version : 130C4400

Ont SoftwareVersion: V1R002C00S203

Ont EquipmentID : 245

Ont autofind time : 2021-03-16 19:22:08+08:00

copy is dubble click to select

paste is recht klik to paste

ONT Register-Add/Confirm ONT

display ont info 0 all

Add or confirm ONT

```
huawei(config-if-gpon-0/1)#ont add
                                          // or ont confirm
  { portid<U><0,7> }:0
  { loid-auth<K>|ontid<U><0,127>|password-auth<K>|protect-side<K>|sn-auth<K> }:1
  { loid-auth<K>|password-auth<K>|sn-auth<K> }:sn-auth
  { sn<S><Length 13-16> }:48575443BF656E04
  { omci<K>|password-auth<K>|snmp<K> }:omci
  { <cr>|desc<K>|ont-lineprofile-id<K>|ont-lineprofile-name<K>|ont-srvprofile-id<K >|ont-srvprofile-name<K> }:ont-
     lineprofile-id
                                      als eerder defined
  { profile-id<U><0,8192> }:66
  {<cr>|desc<K>|ont-srvprofile-id<K>|ont-srvprofile-name<K>}:ont-srvprofile-id
  { profile-id<U><0,8192> }:88
                                    in my case 98
```

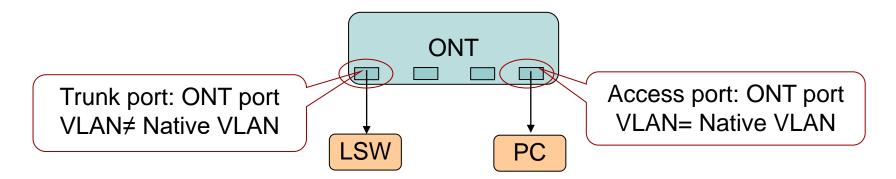
Set ONT Port Native VLAN

Set ont port native vlan

gpon port ont

huawei(config-if-gpon-0/1)#ont port native-vlan 0 1 eth 1 vlan 10

When the user's terminal can't identify VLAN Tag, then please configure native-vlan.



Create a traffic table

```
huawei(config)#traffic table ip
                                                                       display traffic table ip from index 0
                                                  traffic table 14 gbr
{ cir<K>|index<K>|modify<K>|name<K> }:index
{ row-index<U><0,1023> }:7
                                                                  pik is at least 2maal cir
{ cir<K>|name<K> }:cir
{ cir<U><0,10240000>|off<K> }:1024
{ car-threshold<K>|cbs<K>|color-dei<K>|color-mode<K>|color-policy<K>|coupling-
 flag<K>|fix<K>|pbs<K>|pir<K>|priority<K> }:pir
{ pir<U><64,10240000>}:2048
{ car-threshold<K>|cbs<K>|color-dei<K>|color-mode<K>|color-policy<K>|coupling-
 flag<K>|fix<K>|pbs<K>|priority<K> }:priority
{ prival<U><0,7>|user-cos<K>|user-inner-cos<K>|user-tos<K> }:0
{ inner-priority<K>|priority-policy<K> }:priority-policy
{ priority-policy<E><Local-Setting, Tag-In-Package, Tag-In-Ingress-Package> }:local-Setting
```

Provision VLAN(1/3)

Add VLAN

service vlan

smart can support several service and uplink port

```
huawei(config)#vlan 2000
in the olt
{ <cr>|to<K>|vlantype<E><mux,standard,smart,super> }:smart
```

- Set VLAN attribute
 - huawei(config)#vlan attrib 2000 { common<K>|q-in-q<K>|stacking<K>|to<K> }:q-in-q
- Add uplink port into VLAN

uplink port can be activated in any the service slot or in the control board

huawei(config)#port vlan 2000 0/2 0

geeft error bij test

in are case toon and gem number are the same



Provision VLAN(2/3)

Add service port

```
huawei(config)#service-port vlan 2000
                                                            vlan already created in the olt
     { adsl<K>|atm<K>|epon<K>|eth<K>|gpon<K>|port<K>|shdsl<K>|vdsl<K> }:gpon
     { frameid/slotid/portid<S><Length 5-18> }:0/1/0
     { ont<K> }:ont
     { ontid<U><0,127> }:1
     { eth<K>|gemport<K>|iphost<K> }:gemport
     { gemindex<U><0,1023> }:20
                                                    als bij gem mapping
                                                                                to connect servise en customer vlan
     { <cr>|bundle<K>|inbound<K>|multi-service<K>|rx-cttr<K>|tag-transform<K> }:multi-service
     { user-8021p<K>|user-encap<K>|user-vlan<K> }:user-vlan
                                                                              service vlan
     { other-all<K>|priority-tagged<K>|untagged<K>|user-vlanid<U><1,4095> }:10
                                                                                        cutomer vlan
     { <cr>|bundle<K>|inbound<K>|rx-cttr<K>|tag-transform<K>|user-encap<K> }:
```

Provision VLAN(3/3)

```
{ <cr>|bundle<K>|inbound<K>|rx-cttr<K>|tag-transform<K>|user-encap<K> }:inbound

{ traffic-table
display service port all

{ index<K>|name<K> }:index
all

{ index<U><0,1023> }:7
{ outbound
{ traffic-table
{ traffic-table
{ index<K>|name<K> }:index

{ index<K>|name<K> }:index
{ index<U><0,1023> }:7
```

// Inbound indicates the transmit direction (from the subscriber side to the network side).

Outbound indicates the receive direction (from the network side to the subscriber side).



Questions

at the moment not registered

- How to query the onu found by OLT but not registered?
 - A. display ont info B. display ont autofind
- While creating a line-profile, which 3 steps you should care more?

tcont, gemport and vlan

• When do we need to set Native VLAN?

customer vlan as native vlan



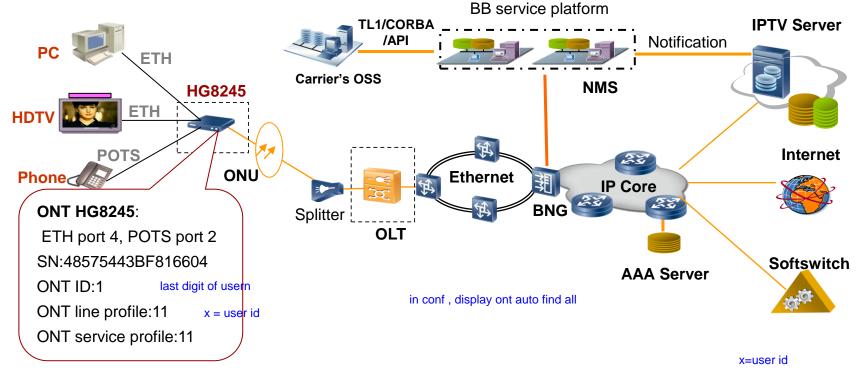


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GPON FTTH Case



diffent same 2000 + x

Туре	ONU Port	C-VLAN	GEM	DBA	TCONT	Traffic table	S-VLAN	OLT port
HSI	ETH1	20 same	1 same	11 1x	1	11: 10M/20M	2000 of common QinQ	GPON: 0/1/0 Uplink: 0/2/0



ONT HG8245: ETH port 4, POTS port 2 SN:48575443BF816604 ONT ID:1 ONT line profile:11 ONT service profile:11

Configure Procedure (2/3)

- Configure ONT service profile
 - huawei(config)#ont-srvprofile gpon profile-id 11 dba
 - huawei(config-gpon-srvprofile-11)#ont-port eth 4 pots 2
 - huawei(config-gpon-srvprofile-11)#port vlan eth 1 20
 - huawei(config-gpon-srvprofile-11)#commit
- Add ONT
 - huawei(config)#interface gpon 0/1
 - huawei(config-if-gpon-0/1)#port 0 ont-auto-find enable
 - huawei(config-if-gpon-0/1)# ont confirm 0 ontid 1 sn-auth
 48575443BF816604 omci ont-lineprofile-id 11 ont-srvprofile-id 11



Configure Procedure (3/3)

- Configure ONT native VLAN (Optional)
 - huawei(config)# interface gpon 0/1
 - huawei(config-if-gpon-0/1)#ont port native-vlan 0 0 eth 1 vlan 20
- Provision VLAN
 - huawei(config)#vlan 2000 smart
 - huawei(config)#vlan attrib 2000 q-in-q
 - huawei(config)#port vlan 2000 0/2 0
 - huawei(config)# service-port 2 vlan 2000 gpon 0/1/0 ont 1 gemport 1 multi-service user-vlan 20
 inbound traffic-table index 11 outbound traffic-table index 11



Configure Procedure (1/3)

- Configure traffic table
 - huawei(config)#traffic table ip index 11 cir 10240 pir 20480 cbs 20480 pbs 40960 priority user-cos 0 priority-policy local-Setting
- Configure DBA profile
 - huawei(config)#dba-profile add profile-id 11 type4 max 20480
- Configure ONT line profile
 - huawei(config)# ont-lineprofile gpon profile-id 11
 - huawei(config-gpon-lineprofile-11)#tcont 1 dba-profile-id 11
 - huawei(config-gpon-lineprofile-11)#gem add 1 eth tcont 1
 - huawei(config-gpon-lineprofile-11)#gem mapping 1 1 vlan 20
 - huawei(config-gpon-lineprofile-11)#commit





Questions

- What's the attribute of SVLAN in the double vlan tags mode?
 - A. Common B. QinQ C. Stacking
- How many management modes are there for onu?

omci

snmp

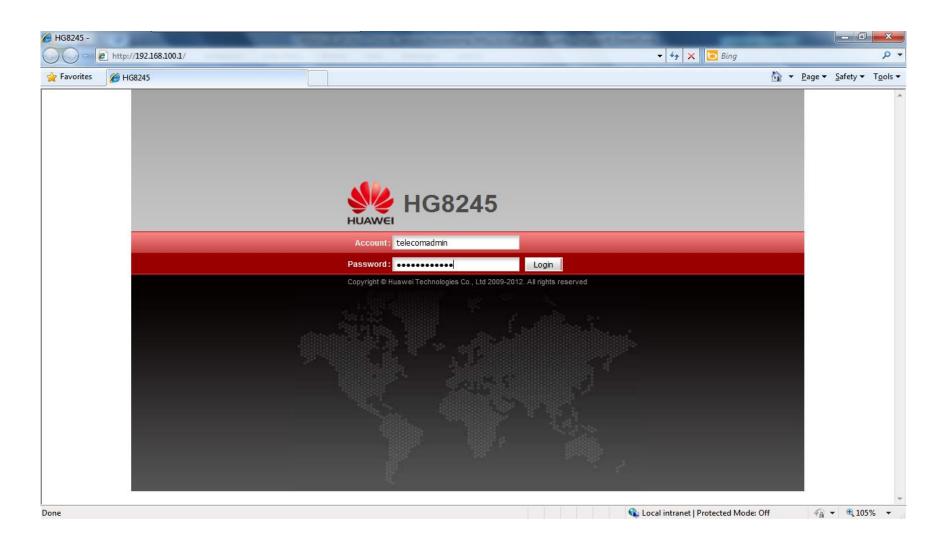


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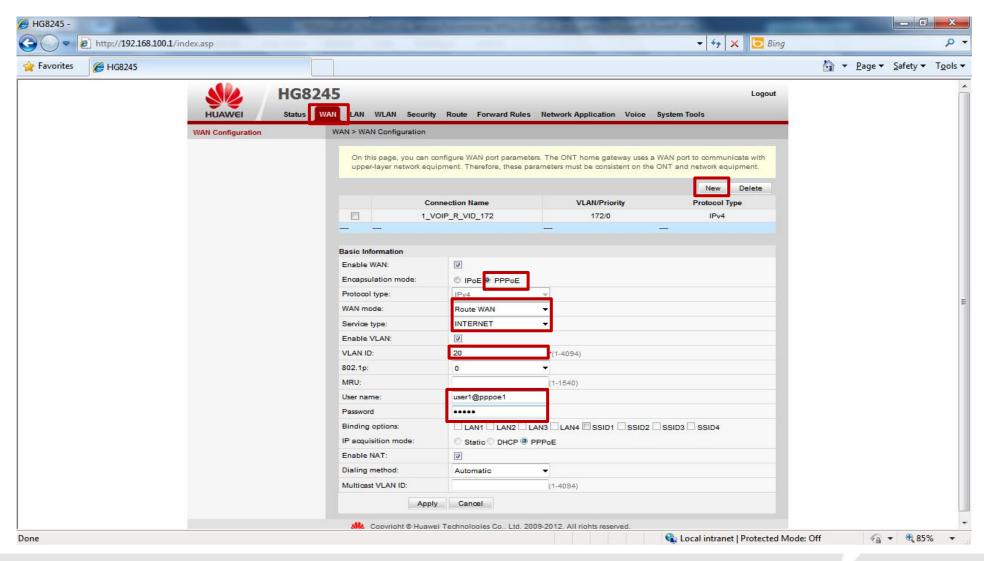
Config ONT by Web-login



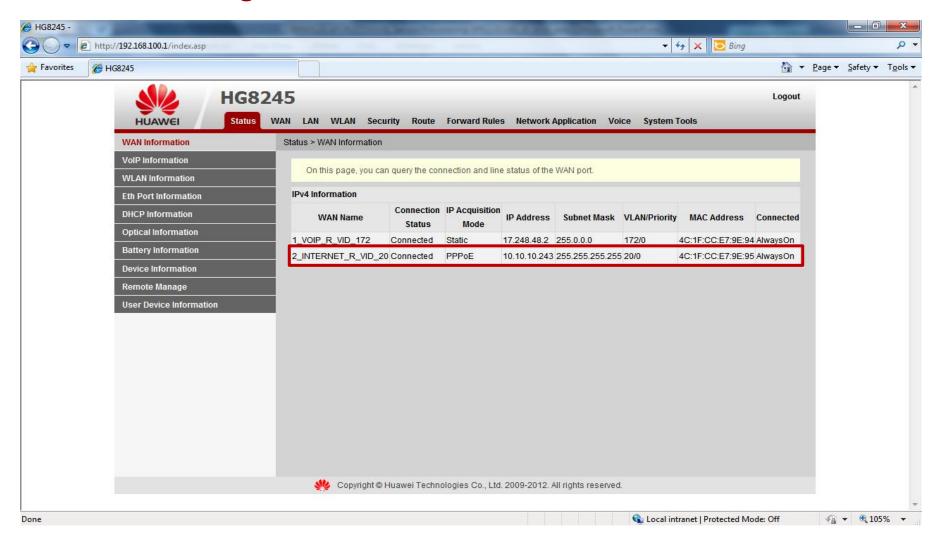
to monitor en configr



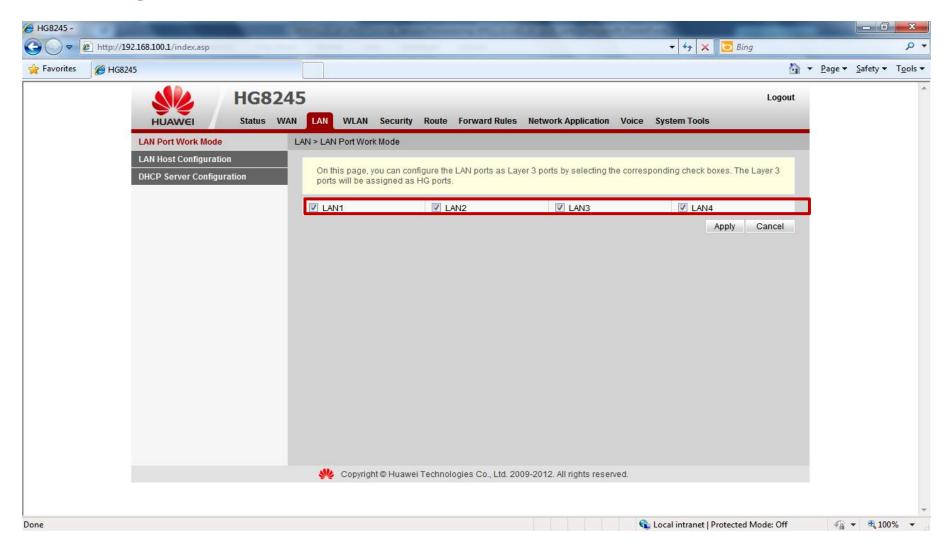
WAN Configuration



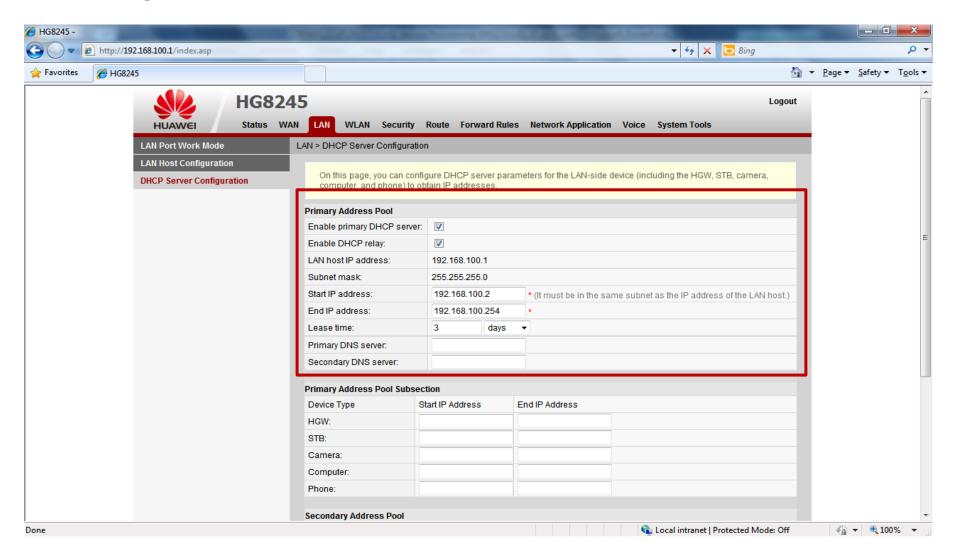
Show WAN Configuration



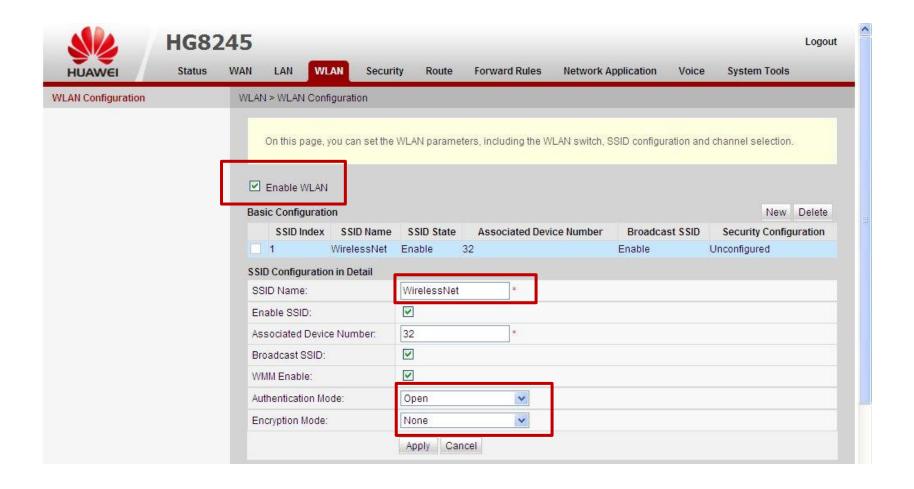
LAN Configuration 1/2



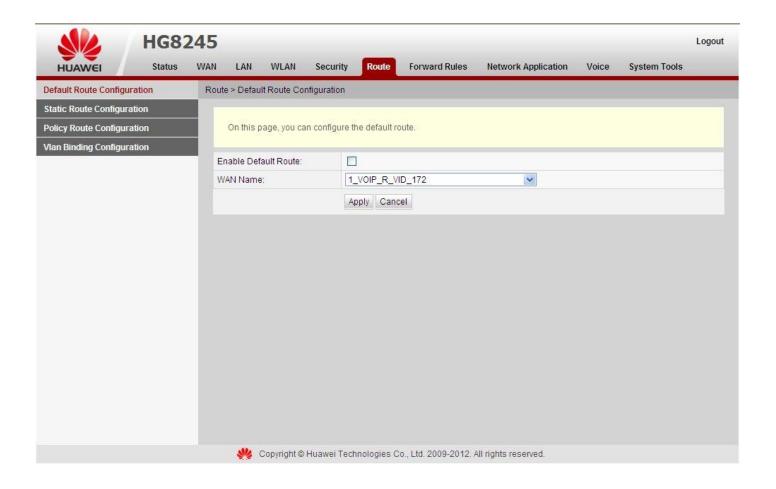
LAN Configuration 2/2



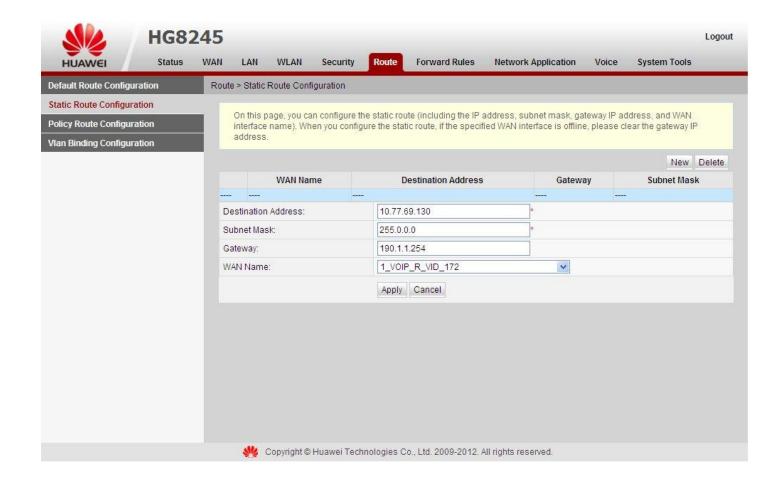
WLAN Configuration



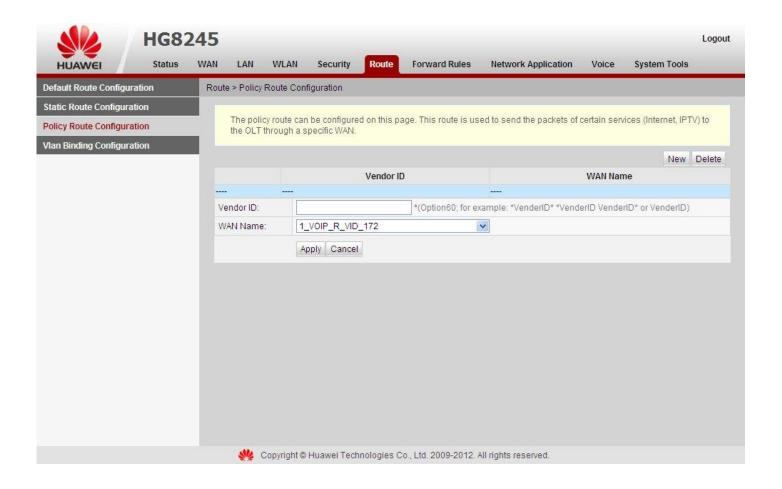
Route Configuration 1/4



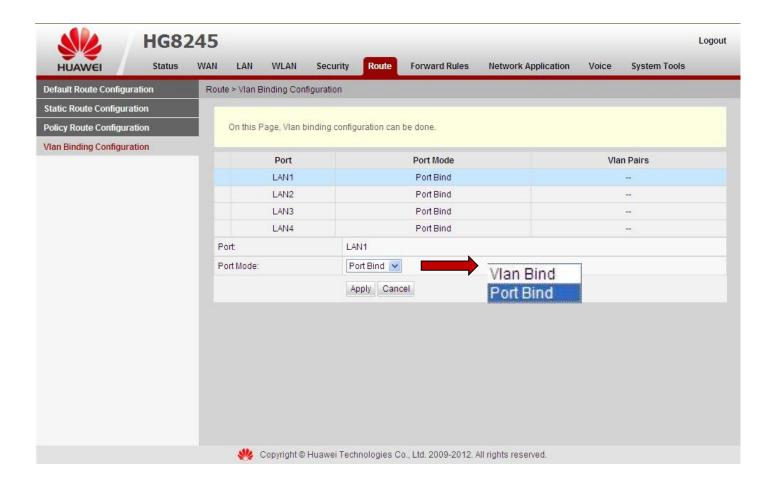
Route Configuration 2/4



Route Configuration 3/4



Route Configuration 4/4





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Query Board

```
huawei(config)#display board 0

    SlotID BoardName Status SubType0 SubType1 Online/Offline

                                                                                          to find subscribers on the board
             H901GPHF Normal
                                                                  status of all board
                                     service dusturbance
              H901OGHK Failed
              H901MPLB Active_normal
```

Query Auto-find ONT

huawei(config)#interface gpon 0/1

huawei(config-if-gpon-0/1)#port 0 ont-auto-find enable

■ huawei(config-if-gpon-0/1)#display ont autofind 0 display ont autofind all

.....

Number : 1

F/S/P : 0/1/0

Ont SN : 48575443BF816604

Password: 123456

Loid : 0000000000

Checkcode

VenderID : HWTC

Ont Version : V1R1C01B035

Ont SoftwareVersion: V1R1C01B035

Ont EquipmentID : EchoLife:HG850

Ont autofind time : 2021-01-25 16:26:19

Query ONT Status

huawei(config-if-gpon-0/1)#display ont info 0 all all the ont that are working on the olt F/S/P ONT SN Control Run Config Match Protect flag state state state side 0/ 1/0 1 48575443BF816604 active online normal match 0/ 1/0 2 48575443A7FE3705 active offline initial initial no F/S/P ONT-ID Description 0/ 1/0 1 ONT_NO_DESCRIPTION 0/ 1/0 2 ONT_NO_DESCRIPTION In port 0/1/0, the total of ONTs are: 2, online: 1



Query ONT Information

huawei(config-if-gpon-0/1)#display ont info 0 1 When the ONT is normal and online, F/S/P: 0/1/0 the status is "up" ONT-ID: 1 Control flag: active Run state: online After the ONT is normal and online, such status indicates whether the Config state: normal configuration restoration is enabled Match state: match and whether the configuration DBA type: SR restoration is complete ONT distance(m) : 18 : support but invalid ONT battery state Memory occupation : -It indicates whether the ONT actual **CPU** occupation capability is the same as the service Temperature profile bound to the ONT. Authentic type : SN-auth Ont-servprofile: 11 Ont-line profile: 11



Query DBA-profile

huawei(config)#display dba-profile all Profile-ID type Bandwidth Fix Assure Max Bind compensation(kbps)(kbps) (kbps) times 5120 No 1024 0 No 32768 1024000 No 32768 No No 102400 32768 No No 0 102400 No 32768 65536 1024000 No Remark: There are 9 default dba-profile, ID: 1-9.

Query Traffic Table

huawei(config)#display traffic table ip from-index 0

```
TID CIR(kbps) CBS(bytes) PIR(kbps) PBS(bytes) Pri Copy-policy Pri-Policy
0 1024
         34768
                  2048
                          69536
                                    6 - tag-pri
 1 2496
         81872
                  4992
                          163744
                                    6 - tag-pri
                         36768
        18384
                  1024
                                   0 - tag-pri
        20432
                  1152
                         40864
                                   2 - tag-pri
 4 64
        4048
                 128
                        8096
                                       tag-pri
 5 2048 67536
                  4096
                          135072

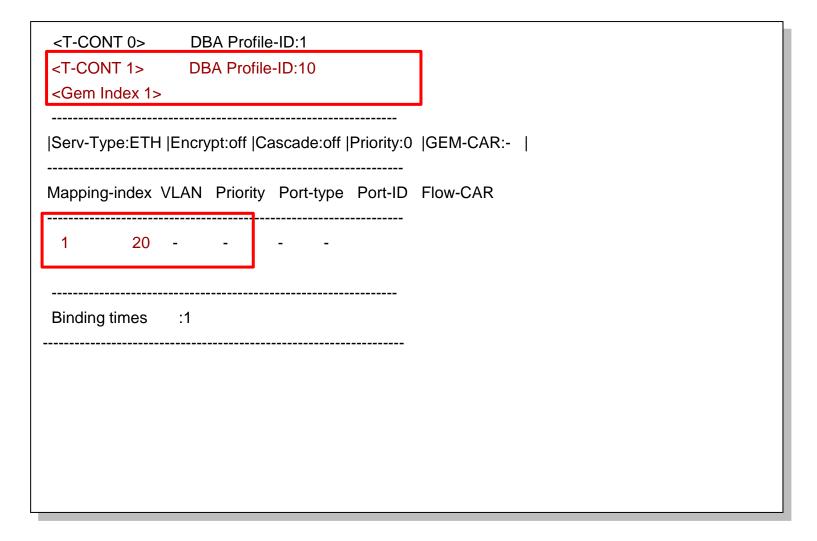
    tag-pri

                    off
                                   tag-pri
11 10240 20480
                   20480
                            40960
                                            local-setting
Total Num: 8
```

Query ONT Line Profile (1/2)

huawei(config)#display ont-lineprofile gpon profile-id 11 Profile-ID :11 Profile-name :hg8245 Access-type :GPON FEC upstream switch :Disable OMCC encrypt switch :Off Qos mode :PQ Mapping mode :VLAN VoIP config method :Default

Query ONT Line Profile (2/2)



Query ONT Service Profile (1/4)

huawei(config)#display ont-srvprofile gpon profile-id 11 Profile-ID: 11 Profile-name: hg8245 Access-type: GPON Port-number Port-type **POTS ETH** TDM 0 MOCA 0 **CATV** 0

Query ONT Service Profile (2/4)

- TDM port type : E1 - TDM service type : TDMoGem - MAC learning function switch : Enable - ONT transparent function switch : Disable - Multicast forward mode : Unconcern - Multicast forward VLAN : -- Multicast mode : Unconcern - Upstream IGMP packet forward mode : Unconcern - Upstream IGMP packet forward VLAN : -- Upstream IGMP packet priority : -



- Native VLAN option : Concern

Query ONT Service Profile (3/4)

```
Port-type Port-ID QinQmode PriorityPolicy Inbound outbound
 ETH
            unconcern unconcern unconcern unconcern
 Port-type Port-ID Dscp-mapping-table-index
 ETH
 ETH
 ETH
 ETH
IPHOST
```

Query ONT Service Profile (4/4)

```
Port Port Service-type Index S-VLAN S-PRI C-VLAN C-PRI ENCAP S-PRI
                               POLICY
type ID
        Translation 1 20 -
Notes: * indicates transparent attribute of the vlan
Port-type Port-ID IGMP-mode IGMP-VLAN IGMP-PRI Max-MAC-Count
ETH 1 -
               - - Unlimited
ETH 2 - - Unlimited
ETH

    Unlimited

ETH
                              Unlimited
Binding times: 1
```

Query VLAN

huawei(config)#display vlan all

VLAN Type Attribute STND-Port NUM SERV-Port NUM

1 smart common 2 0

10 smart common 1 1

2000 smart QinQ 1 1

huawei(config)#display vlan 2000

F/S /P Native VLAN State

O/2/0 1 up

uplink port in de service port

Query Service Port

huawei(config)#display service-port vlan 2000

INDEX VLAN VLAN PORT F/ S/ P VPI VCI FLOW FLOW RX TX STATE

ID ATTR TYPE

TYPE PARA

1 2000 QinQ gpon 0/1/0 1 1 vlan 20 11 11 up

Query ONT Port Attribute

gpon ont id

huawei(config-if-gpon-0/1)#display ont port attribute 0 1 eth

ONT ONT ONT Auto-neg Speed Duplex Port Flow
port port-type (Mbps) switch control VLAN

1 1 ETH enable auto auto on off 20 0
1 2 ETH enable auto auto on off 1 0
1 3 ETH enable auto auto on off 1 0
1 4 ETH enable auto auto on off 1 0





Questions

display service port and id

display ont info

- How to check the HSI service configuration succeeds ?
- If the connection failed and it prompts error 678, how to check the HSI service configuration?
 - A. Display onu info (including line-profile etc.)
 - B. Display onu autofind
 - C. Display service port
 - D. Display vlan





- GPON Concepts and functions:
 - TCONT, GEM Port, ONU, VLAN, Uplink Port
 - ont-lineprofile, ont-srvprofile, dba-profile, traffic table
- Service Configuration procedure:
 - Ont Profiles
 - Ont Register
 - VLAN provision



Thank You

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