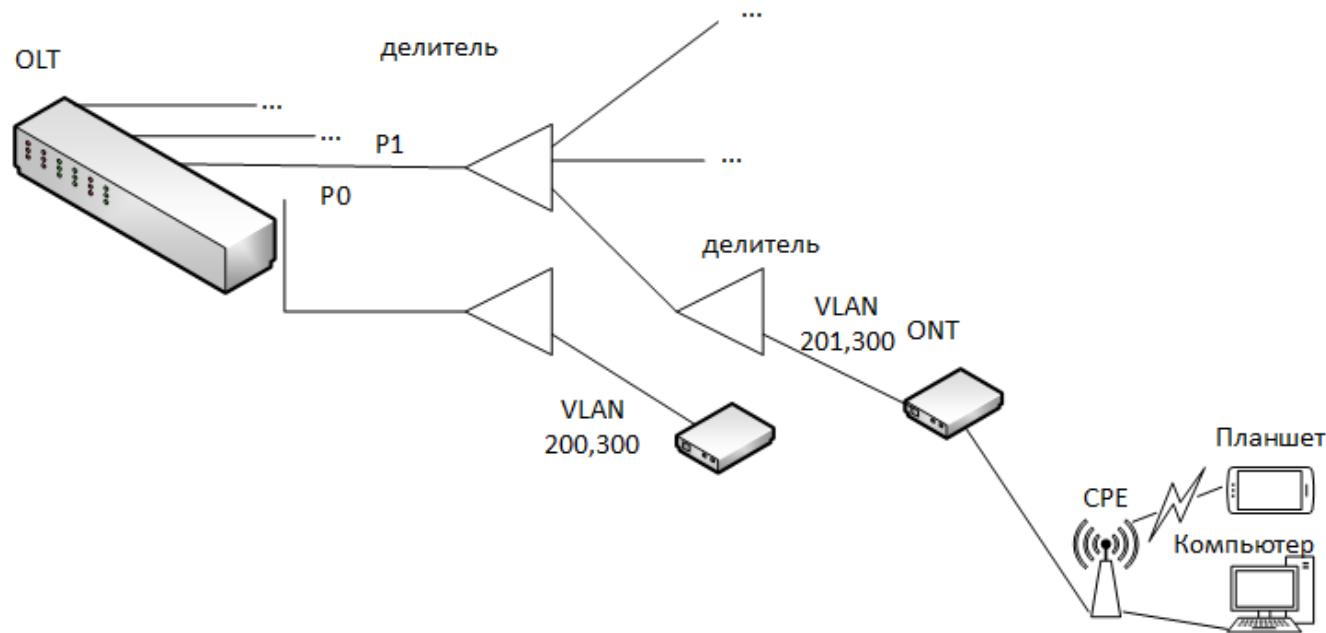


GPON. Huawei. OLT & ONT

HUAWEI OLT & ONT

(DBA profile, ont line profile, ont service profile), ("vlan-port ONT" (service-port)

- **DBA Profile** (Dynamic Bandwidth Allocation). (DBA)
- **ONT Line Profile** TCONT, GEM vlan GEM.
- **ONU service Profile** ONT (, VLAN ONT(VLAN ONT interface GPON



OLT .

root, admin

enable

conf

OLT

```
sysname our_olt
```

. "display board 0"

```
board add 0/0 H807GPBD
```

SNMP

```
snmp-agent community read test_snmp
```

Vlan.

```
vlan 100 smart
vlan 200 to 207 smart
vlan 300 smart
vlan desc 100 description "MNGM"
vlan desc 200 description "Internet PON0"
vlan desc 201 description "Internet PON1"
vlan desc 300 description "IPTV"
```

VLAN Uplink (board_id/slot_id port_num), board_id=0, slot_id=3, port=0

```
port vlan 100 0/3 0
port vlan 200 to 207 0/3 0
port vlan 300 0/3 0
```

IPTV , COS 4,

```
traffic table ip name IPTV cir off color-mode color-blind priority 4 priority-policy local-Setting
```

DBA "UNLIM_200M". , 1, 200

```
dba-profile add profile-name UNLIM_200M type3 assure 1024 max 204800
```

ONT PON "ONT_STD_P1" "ONT_STD_P1". tcont 4 2 GEM , vlan GEM

```
ont-lineprofile gpon profile-name "ONT_STD_P0"

tcont 4 dba-profile-name UNLIM_200M
gem add 11 eth tcont 4
gem add 12 eth tcont 4
gem mapping 11 1 vlan 200
gem mapping 12 1 vlan 300
commit
quit

ont-lineprofile gpon profile-name "ONT_STD_P1"

tcont 4 dba-profile-name UNLIM_200M
gem add 11 eth tcont 4
gem add 12 eth tcont 4
gem mapping 11 1 vlan 201
gem mapping 12 1 vlan 300
commit
quit
```

ONT vlan, VLAN

```
ont-srvprofile gpon profile-name "ONT_STD0"
ont-port eth adaptive
igmp-forward translation 300
multicast mode igmp-snooping
port vlan eth 1 200
port vlan eth 1 300
commit

ont-srvprofile gpon profile-name "ONT_STD1"
ont-port eth adaptive
igmp-forward translation 300
port vlan eth 1 201
port vlan eth 1 300
commit
```

ONT, 0-1

```
# GPON, 0 gpon 0/0
```

```
interface gpon 0/0
    port 0 ont-auto-find enable
    port 1 ont-auto-find enable
```

```
# ONT .(ONT , ont add
```

```
ont confirm 0 all sn-auth omci ont-lineprofile-name ONT_STD_P0 ont-srvprofile-name ONT_STD0
ont confirm 1 all sn-auth omci ont-lineprofile-name ONT_STD_P1 ont-srvprofile-name ONT_STD1
```

```
# ONU vlan access, vlan TAGGED, PON_id ONU_id
```

```
ont port native-vlan 0 0 eth 1 vlan 200
ont port native-vlan 0 1 eth 1 vlan 200
...
ont port native-vlan 0 128 eth 1 vlan 200

ont port native-vlan 1 0 eth 1 vlan 201
ont port native-vlan 1 1 eth 1 vlan 201
...
ont port native-vlan 1 128 eth 1 vlan 201
```

```
# ONU, Internet 0-1999, IPTV 2000-3999
```

```
# PON 0
```

```
service-port 0 vlan 200 gpon 0/0/0 ont 0 gemport 11 multi-service user-vlan 200
service-port 1 vlan 200 gpon 0/0/0 ont 1 gemport 11 multi-service user-vlan 200
...
service-port 127 vlan 200 gpon 0/0/0 ont 127 gemport 11 multi-service user-vlan 200

service-port 2000 vlan 300 gpon 0/0/0 ont 0 gemport 12 multi-service user-vlan 300 tag-transform translate
inbound traffic-table name IPTV outbound traffic-table name IPTV
service-port 2001 vlan 300 gpon 0/0/0 ont 1 gemport 12 multi-service user-vlan 300 tag-transform translate
inbound traffic-table name IPTV outbound traffic-table name IPTV
..
service-port 2127 vlan 300 gpon 0/0/0 ont 127 gemport 12 multi-service user-vlan 300 tag-transform translate
inbound traffic-table name IPTV outbound traffic-table name IPTV
```

```
# PON 1
```

```
service-port 128 vlan 200 gpon 0/0/1 ont 0 gemport 11 multi-service user-vlan 200
service-port 130 vlan 200 gpon 0/0/1 ont 1 gemport 11 multi-service user-vlan 200
...
service-port 255 vlan 200 gpon 0/0/1 ont 127 gemport 11 multi-service user-vlan 200

service-port 2128 vlan 300 gpon 0/0/1 ont 0 gemport 12 multi-service user-vlan 300 tag-transform translate
inbound traffic-table name IPTV outbound traffic-table name IPTV
service-port 2129 vlan 300 gpon 0/0/1 ont 1 gemport 12 multi-service user-vlan 300 tag-transform translate
inbound traffic-table name IPTV outbound traffic-table name IPTV
..
service-port 1255 vlan 300 gpon 0/0/1 ont 127 gemport 12 multi-service user-vlan 300 tag-transform translate
inbound traffic-table name IPTV outbound traffic-table name IPTV
```

IPTV

```
# IGMP. service-port VLAN. VLAN
```

service-port, vlan.

```
multicast routing-enable

btv
igmp user add smart-vlan 300
multicast-vlan 300
igmp version v2
igmp match mode disable
igmp multicast-vlan member smart-vlan 300
igmp mode snooping
igmp uplink-port 0/3/0
```

root SSH

```
terminal user password
  User Name(<=15 chars):root

  Old Password(<=15 chars):     "   admin"
  New Password(length<8,15>): "     ,     8 "
```

SSH

```
ssh user root authentication-type password
```

IP . IP vlan Uplink eth .

Eth IP **meth0**

```
interface meth0
ip address 172.16.0.2 255.255.255.0
```

VLAN

```
interface vlanif100
ip address 172.16.1.2 255.255.255.0
```

#

```
ip route-static 0.0.0.0 0.0.0.0 172.16.1.1
```