

ZTE ZXA10 C300

Configuration manual for Leox LXT-010G-D

Version: V1.2.5P3

VLAN translation with working multicast, rBSA(Orange) as an example

```
OLT Internet VLAN 1331 <-> 35 Client Internet VLAN
OLT IPTV VLAN 2031 <-> 839 Client IPTV Vlan
OLT VOD VLAN 2131 <-> 838 Client VOD Vlan
```

1. Create ONT type

```
pon
onu-type LXT010GD gpon description LXT-010G-D
onu-type LXT010GD gpon max-tcont 5
onu-type LXT010GD gpon max-gemport 8
onu-type LXT010GD gpon max-switch-perslot 2
onu-type LXT010GD gpon max-flow-perswitch 4
onu-type LXT010GD gpon max-iphost 3
onu-type-if LXT010GD eth_0/1
```

2. Register ONT

```
interface gpon-olt_RACK_ID/SHELF_ID/OLT-ID
onu ONU_ID type LXT010GD sn LEOXAxxxxxxx
```

3. Create tcont profiles

```
gpon
profile tcont OPL-TV type 3 assured 30720 maximum 122880
profile tcont OPL-NET type 4 maximum 634880
profile tcont OPL-VOD type 3 assured 26624 maximum 53248
```

4. Create IGMP profile

```
gpon
onu profile igmp IGMPfl fast-leave enable
onu profile igmp IGMPfl non-match-group forward tag replace
vlan 2031 down-tag replace vlan 839
```

5. Configure IPTV mvlan

```
igmp mvlan 2031
igmp mvlan 2031 work-mode snooping
igmp mvlan 2031 host-ip 192.168.10.15
igmp mvlan 2031 group-filter disable
igmp mvlan 2031 priority 4
igmp mvlan 2031 source-port gei_RACK_ID/SHELF_ID/OLT_ID
igmp mvlan 2031 receive-port gpon-onu_RACK_ID/SHELF_ID/OLT_ID:INDEX
vport 3
```

6. Configure ONT interface mode

```
interface gpon-onu_RACK_ID/SHELF_ID/OLT_ID:INDEX
description OPL
fec upstream
sn-bind enable sn
tcont 1 profile OPL-NET
tcont 3 profile OPL-TV
tcont 5 profile OPL-VOD
gemport 1 unicast tcont 1 dir both
gemport 3 unicast tcont 3 dir both
gemport 5 unicast tcont 5 dir both
max-mac-learn 2 vport 1
max-mac-learn 2 vport 3
max-mac-learn 2 vport 5
switchport mode hybrid vport 1
switchport mode hybrid vport 3
switchport mode hybrid vport 5
service-port 1 vport 1 user-vlan 35 vlan 1331
service-port 3 vport 3 user-vlan 839 vlan 2031
service-port 5 vport 5 user-vlan 838 vlan 2131
port-location format ft vport 1,3,5
port-location ft-cid xxxxxx#NEOxxxxxxxxxxxxx vport 1,3,5
dhcp-option82 enable vport 5
dhcp-option82 trust true replace vport 5
pppoe-plus enable vport 1,3,5
pppoe-plus trust true replace vport 1,3,5
ip dhcp snooping enable vport 5
igmp fast-leave enable vport 3
igmp max-groups 13 vport 3
```

7. Configure ONT remote management mode

```
pon-onu-mng gpon-onu_RACK_ID/SHELF_ID/OLT_ID:INDEX
service Net gemport 1 vlan 35
service TV gemport 3 vlan 839
service VOD gemport 5 vlan 838
igmp eth_0/1 max-groups 13 profile IGMPfl
igmp monitor eth_0/1
vlan port eth_0/1 mode trunk
vlan port eth_0/1 vlan 35,838-839
dhcp-ip ethuni eth_0/1 from-internet
multicast vlan add vlanlist 839
```

8. Configure mvlan translation in global configuration

```
mvlan-translate 1331 to 35  
mvlan-translate 2031 to 839  
mvlan-translate 2131 to 838
```

ONT Configuration in Access mode, Internet only

Step 1 and 2 similarly as in VLAN Translation

3. Create tcont profile

```
pon
  profile tcont 1g type 4 maximum 1048576
```

4. Configure ONT interface mode

```
interface gpon-onu_RACK_ID/SHELF_ID/OLT_ID:INDEX
  fec upstream
  sn-bind enable sn
  tcont 1 profile 1g
  gemport 1 name Internet unicast tcont 1 dir both
  switchport mode hybrid vport 1
  service-port 1 vport 1 user-vlan 3000 vlan 3000
```

5. Configure ONT remote management mode

```
pon-onu-mng gpon-onu_RACK_ID/SHELF_ID/OLT_ID:INDEX
  service Net gemport 1 vlan 3000
  onu-vlan ethuni eth_0/1 up-mode add up-prio 0 up-vid 3000 down-mode untag
```