

Dasan V5824G

Configuration manual for Leox LXT-010G-D

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 DBA profile

```
DASAN-OLT-V5824G(gpon)# dba-profile DBA create
mode sr
sla fixed 1024
sla maximum 1031616
apply
!
```

2. Create extended Vlan tagging operation

```
DASAN-OLT-V5824G(gpon)# extended-vlan-tagging-operation RBSA create
downstream-mode enable
single-tagged-frame 1
filter inner vid 35 cos any tpid any
treat remove single
treat inner vid 1331 cos copy-inner tpid copy-inner
single-tagged-frame 2
filter inner vid 838 cos any tpid any
treat remove single
treat inner vid 2131 cos copy-inner tpid copy-inner
single-tagged-frame 3
filter inner vid 839 cos any tpid any
treat remove single
treat inner vid 2031 cos copy-inner tpid copy-inner
apply
!
```

3. Create management Vlan configuration

```
DASAN-OLT-V5824G(gpon)# extended-vlan-tagging-operation MGMT create
downstream-mode enable
untagged-frame 1
treat inner vid 100 cos 0 tpid 0x8100
apply
!
```

4. Create multicast profile

```
DASAN-OLT-V5824G(gpon)# multicast-profile MCast create
igmp tag-control replace vid 2031
igmp ds-tag-control add vid 839 cos 4
igmp robustness-variable 7
igmp access-list vid 2031 dst-ip start 224.0.0.1 end 239.255.255.255 bw 4294952 gem 4094
apply
!
```

5. Create traffic-profile

```
DASAN-OLT-V5824G(gpon)# traffic-profile LXT010GD_RBSA create
mgmt-mode uni eth 1 omci
tcont 1
gemport 1/1-1/8
dba-profile DBA
tcont 2
gemport 2/1
dba-profile DBA
mapper 1
gemport count 8
mapper 2
gemport count 1
bridge 1
ani mapper 1
vlan-filter vid 100,1331,2031,2131 untagged discard
uni eth 1
multicast-profile MCast
extended-vlan-tagging-operation RBSA
igmp max-groups 13
max-frame 2036
bridge 2
ani mapper 2
link ip-host-config 1
ip-host-config 1
ip address dhcp
extended-vlan-tagging-operation MGMT
apply
!
```

6. Create onu profile

```
DASAN-OLT-V5824G(gpon)# onu-profile LXT010GD_RBSA create
traffic-profile LXT010GD_RBSA
apply
!
```

7. Select onu profile to ONT

```
DASAN-OLT-V5824G(config-gpon-olt[1])# onu-profile 14 LXT010GD_RBSA
```

8. Add Service ID to onu description

```
DASAN-OLT-V5824G(config-gpon-olt[1])# onu description 14 NEOxxxxxxxxxxxxx
```

9. Set DHCP Option82

```
DASAN-OLT-V5824G(config)# service dhcp
DASAN-OLT-V5824G(config)# ip dhcp option format CIRCUIT-ID
attr 1 type 1 length variable value string OPERATOR_CODE#
attr 2 type 2 length variable value string %ONU_DESCRIPTION
!
DASAN-OLT-V5824G(config)# ip dhcp option82
trust default permit
system-circuit-id port-type physical
system-circuit-id 1,9 option format CIRCUIT-ID
!
```

10. Set PPPOE

```
DASAN-OLT-V5824G(config)# pppoe tag-format remote
attr 1 value string thisisremote
!
DASAN-OLT-V5824G(config)# pppoe tag-format circuit
attr 1 value string OPERATOR_CODE#
attr 2 value string %ONU_DESCRIPTION
!
DASAN-OLT-V5824G(config)# pppoe tag-format full-tag
attr 1 value hex 00000DE9
attr 2 type 1 length variable value tag-format circuit
attr 3 type 2 length variable value tag-format remote
!
!
DASAN-OLT-V5824G(config)# pppoe snooping
tag-opr-id 2 type 0x0105 port 1 vid any action add format full-tag
!
```

11. Set IGMP

```
DASAN-OLT-V5824G(config)# ip igmp snooping
ip igmp snooping immediate-leave
ip igmp snooping port 1,9 immediate-leave
ip igmp snooping vlan 2031 version 2
```

12. Set DHCP snooping

```
DASAN-OLT-V5824G(config)# ip dhcp snooping
DASAN-OLT-V5824G(config)# ip dhcp snooping vlan 2131
DASAN-OLT-V5824G(config)# ip dhcp snooping trust 1,9
DASAN-OLT-V5824G(config)# ip dhcp snooping default-option code 1 format CIRCUIT-ID
```