

GPON. BDCOM. OLT.

OLT GPON BDCOM:

<https://data.nag.ru/BDCOM/Firmware/>

:

```
OLT GP 3600-08 ONU;  
vlan ;  
  Ge 1;  
vlan 5-, 11 , 20 – IPTV;  
IP 10.10.0.2/24;
```

```
OLT / = admin/admin.  
  "enable"
```

OLT:

```
conf  
hostname BDCOM_GPON
```

```
NAG admin "enable"
```

```
aaa authentication login default local  
aaa authentication enable default none  
aaa authorization exec default local  
username admin password 0 NAG  
enable password 0 NAG  
service password-encryption
```

VLAN':

```
vlan 5  
name manag  
  
vlan 11  
name internet  
  
vlan 20  
name MCAST
```

IP :

```
int vl5
ip address 10.10.0.2 255.255.255.0
```

```
ip route default 10.10.0.1
```

Uplink- OLT:

```
interface GigaEthernet0/1
description uplink
switchport trunk vlan-allowed 5,11
switchport trunk vlan-untagged none
switchport mode dot1q-tunnel-uplink
switchport pvid 20 - VLAN ( multicast BDCOM)
dhcp snooping trust
```

, :

```
time-zone Yekaterinburd 5 0
ntp server 10.10.0.1
ntp query-interval 3600
```

multicast:

```
ip mcst enable
ip mcst mc-vlan 20 range 239.255.0.1 - 239.255.0.254 , 239.255.1.1 - 239.255.0.254
ip mcst mrouter interface GigaEthernet0/1
```

, , :

```
ip mcst enable
ip mcst mrouter-multi-vlan 20
ip mcst mrouter interface GigaEthernet0/1 multi-vlan 20
ip mcst mc-vlan 20 range 239.255.0.1 - 239.255.0.254 , 239.255.1.1 - 239.255.0.254
```

DBA, ONU OLT:

```
gpon profile onu-tcont tcont-default id 1
gpon-profile tcont-type 4 pir 102400
```

,

.

, eth- tcont:

```
gpon profile onu-tcont-virtual-port-bind tvbind-default id 1
gpon-profile virtual-port 1 profile virtual-port-default tcont 1 profile tcont-default
```

VLAN uni-ONU :

```
gpon profile onu-flow-mapping flow-mapping-default id 1
gpon-profile entry 1 uni type eth-uni all
gpon-profile entry 1 virtual-port 1
```

HGU ONU SFU UNI ethernet , , VEIP (Virtual Ethernet interface point). flow mapping HGU ONU :

```
gpon profile onu-flow-mapping flow-mapping-default-hgu id 2
gpon-profile entry 1 uni type veip all
gpon-profile entry 1 virtual-port 1
```

PS: HGU ONU VEIP UNI Eth .

VLAN , VEIP, UNI ETH:

```
gpon profile onu-vlan ONU-VLAN-11 id 3
gpon-profile vlan mode tag - access
gpon-profile vlan pvid 11

pon profile onu-vlan ONU-VLAN-TRUNK id 4
gpon-profile vlan mode trunk - trunk
gpon-profile vlan pvid 11 - VLAN, Native ( )
gpon-profile vlan trunk vlan-allowed 100,200-203 - Trunk VLAN ((1,3,5,7) (1,3-5,7) (1-7))
```

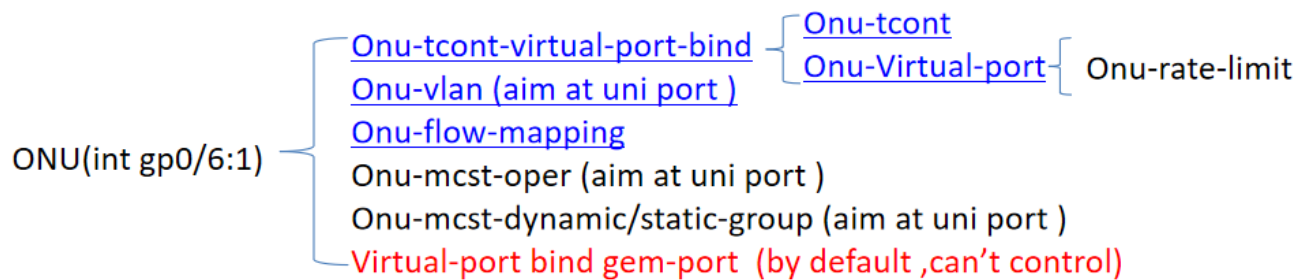
, , - gem-,vlan multicast-

```
gpon profile onu-mcst-oper IPTV id 1
gpon-profile upstream-igmp-tag add 20 4 - VLAN
gpon-profile downstream-mcst-tag strip - ( VLAN)
```

```
gpon profile onu-mcst-dynamic-group IPTV id 1
gpon-profile entry 1 multicast-gemport 4093
gpon-profile entry 1 multicast-vlan-id 20
gpon-profile entry 1 multicast-group-address-range 239.255.0.0 to 239.255.0.255
```

ONU - , ONU.

GPON OLT BDCOM:



ONU.

```
gpon onu-config-template internet
cmd-sequence 001 gpon onu tcont-virtual-port-bind-profile tvbind-default
cmd-sequence 002 gpon onu flow-mapping-profile flow-mapping-default
cmd-sequence 003 gpon onu uni 1 vlan-profile ONU-VLAN-11
cmd-sequence 004 gpon onu uni 1 mcst-oper-profile IPTV
cmd-sequence 005 gpon onu uni 1 mcst-dynamic-group-profile IPTV
```

GPON-:

```
interface range GPON 0/1-8
switchport mode trunk
switchport trunk vlan-allowed 11,20
switchport trunk vlan-untagged none
filter dhcp
gpon pre-config-template internet bind-onuid 1-128 - , ONU
```

DHCP snooping:

```
ip dhcpd enable
ip dhcp-relay snooping
ip dhcp-relay snooping vlan 11
```

:

```
write all
```

ONU :

```
show gpon active-onu
```

```
Interface GPON0/8 has bound 1 ONUs:
```

IntfName	VendorID	EquipmentID	SN	LOID	Status	Config Status	Active
GPON0/8:1	BDCM	1104	4244434DF79D168E	N/A	active	success	1970-01-14 20:00:02

ONU :

```
show run int GPON0/8:1
```

```
Building configuration...
```

```
Current configuration:
```

```
!
```

```
interface GPON0/8:1
```

```
gpon onu tcont-virtual-port-bind-profile tvbind-default
```

```
gpon onu flow-mapping-profile flow-mapping-default
```

```
gpon onu virtual-port 1 gem-port 257
```

```
gpon onu tcont 1 alloc-id 257
```

```
gpon onu uni 1 vlan-profile ONU-VLAN-11
```

```
gpon onu uni 1 mcst-oper-profile IPTV
```

```
gpon onu uni 1 mcst-dynamic-group-profile IPTV
```

:
<https://data.nag.ru/BDCOM/Configuration%20Manual/GP36XX/>