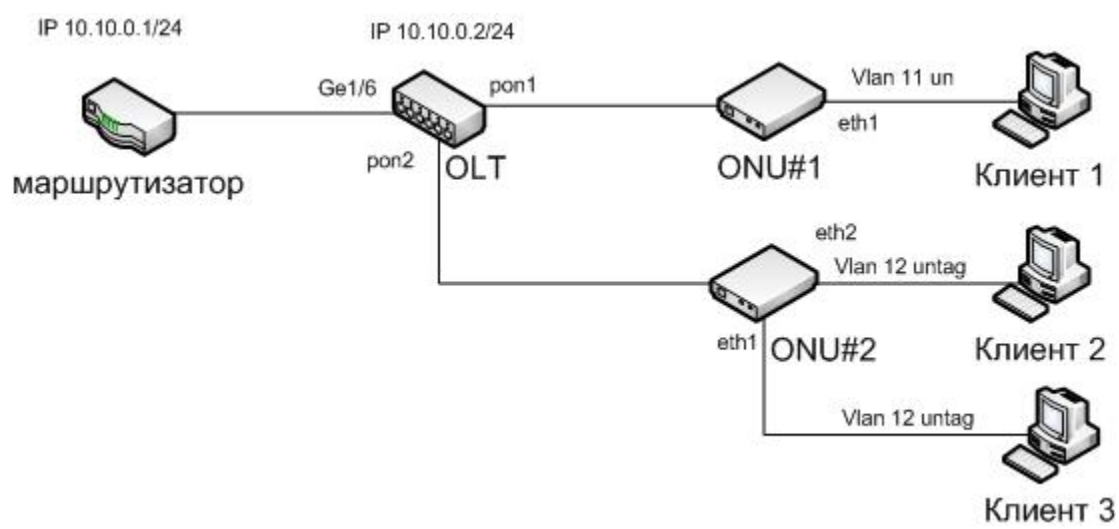


GEPON. BDCOM. OLT ONT.



OLT ,
[//data.nag.ru/BDCOM/Firmware/](http://data.nag.ru/BDCOM/Firmware/)

- vlan , PON ;
- Ge 1/6;
- vlan 5-, 11-14 , 20 – IPTV;
- IP 10.10.0.0/24;

OLT

```
hostname test-pon
```

vlan

```
vlan 5
  name mngm
vlan 11
  name internet_1
vlan 12
  name internet_2
vlan 13
  name internet_3
vlan 14
  name internet_4
vlan 20
  name IPTV
```

IP

```
interface vlan 5
no shutdown
ip address 10.10.0.2 255.255.255.0
```

```
ip default-gateway 10.10.0.1
```

```
aaa authentication login default local
aaa authentication enable default none
```

C admin passwd

```
username admin password 0 passwd
```

ONT T1, vlan .

:

1. MAC 5
2. loopback detection
3. multicast vlan

```
epon onu-config-template T1
```

```
cmd-sequence 1 switchport port-security dynamic maximum 6
cmd-sequence 2 switchport port-security mode dynamic
cmd-sequence 3 epon onu all-port ctc vlan mode tag %1
cmd-sequence 4 epon onu all-port ctc loopback detect
cmd-sequence 5 epon onu all-port ctc mcst tag-stripe enable
cmd-sequence 6 epon onu all-port ctc mcst mc-vlan add 20
```

()

```
interface GigaEthernet0/6
no shutdown
switchport mode trunk
switchport trunk vlan-allowed 5,11-14,20
switchport trunk vlan-untagged none
switchport pvid 20
dhcp snooping trust
```

: 10.1.0F Uplink ETH switchport mode - dot1q-tunnel-uplink

```
interface GigaEthernet0/6
no shutdown
switchport mode dot1q-tunnel-uplink
switchport trunk vlan-allowed 5,11-14,20
switchport trunk vlan-untagged none
switchport pvid 20
    dhcp snooping trust
```

EPON

```
interface EPON0/1
no shutdown
```

T1 ONU 1-64 vlan

```
epon pre-config-template T1 binded-onu-llid 1-64 param 11
```

vlan

```
switchport trunk vlan-allowed 11,20
switchport trunk vlan-untagged none
switchport mode trunk
filter dhcp
switchport protected 1

interface EPON0/2

no shutdown
epon pre-config-template T1 binded-onu-llid 1-64 param 12
switchport trunk vlan-allowed 12,20
switchport trunk vlan-untagged none
switchport mode trunk
filter dhcp
switchport protected 2

interface EPON0/3
no shutdown
epon pre-config-template T1 binded-onu-llid 1-64 param 13
switchport trunk vlan-allowed 13,20
switchport trunk vlan-untagged none
switchport mode trunk
filter dhcp
switchport protected 3

interface EPON0/4
no shutdown
epon pre-config-template T1 binded-onu-llid 1-64 param 14
switchport trunk vlan-allowed 14,20
switchport trunk vlan-untagged none
switchport mode trunk
filter dhcp
switchport protected 4
```

```
ip mcst enable
ip igmp-proxy enable
ip mcst mc-vlan 20 range 239.255.1.1 - 239.255.1.250
ip mcst mrouter interface GigaEthernet0/6
```

10.1.0F :

```
ip mcst enable
ip igmp-proxy enable
ip mcst mrouter-multi-vlan 20
ip mcst mrouter interface GigaEthernet0/6 multi-vlan 20
ip mcst mc-vlan 20 range 239.255.1.1 - 239.255.1.250
```

DHCP snooping

```
ip dhcp-relay snooping
ip dhcp-relay snooping vlan 11-14
```

snmp OLT ONU .

```
snmp-server community 0 communa RW
```

```
time-zone Yekaterinburd 5 0
ntp server 10.10.0.1
```

(DHCP

```
filter enable
```

ONU

```
show epon active-onu
```

Interface EPON0/1 has bound 1 active ONUs:

IntfName	MAC Address	Status	OAM Status	Distance(m)	RTT(TQ)	
LastRegTime	LastDeregTime	LastDeregReason	Alivetime			

EPON0/1:1	fcfa.f796.8dd1	auto_configured	ctc oam oper	30	55	1970.01.03.05:18:36
N/A	unknow	0.00:02:28				

vlan

```
Switch#show mac address-table interface epON 0/1:1
```

Mac Address Table (Total 1)

Vlan	Mac Address	Type	Ports
--	-----	--	--
11	082e.5f8d.4b4c	DYNAMIC	epon0/1:1

ONU SNMP OID .1.3.6.1.4.1.3320.101.10.5.1.5.X, X ONU

.1.3.6.1.4.1.3320.101.10.1.1.76 ONU

MGMT- 3310C .