

LTP-X 3.40.0

LTP-8X, LTP-4X

OLT LTP-X

3.40.0 (10.12.2020)

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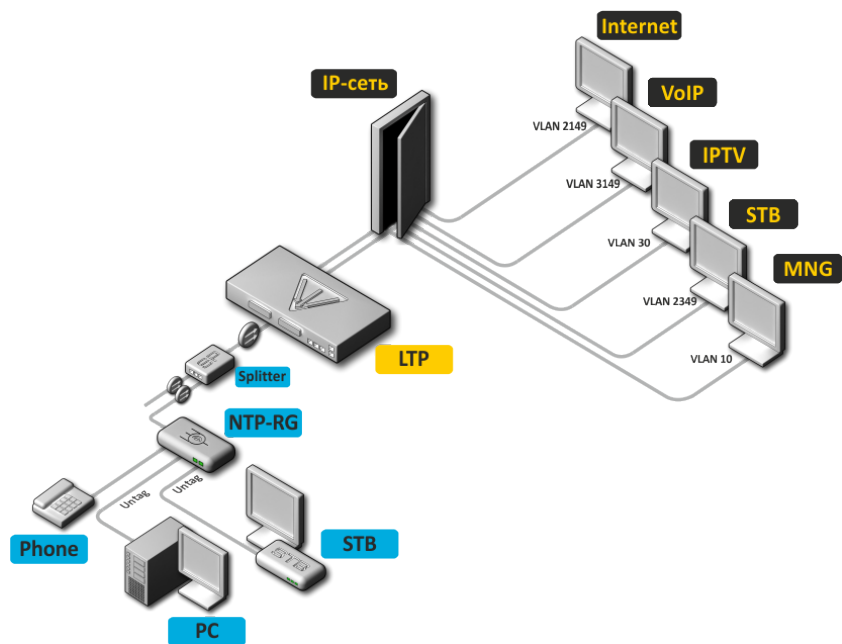


, -, -

:

- OLT LTP-X ();
- OLT;
- VLAN switch;
- IGMP switch;
- ONT: Cross-connect, Ports, Management;
- OLT: pppoe-ia, dhcp-ra;
- ONT.

, 1:



1 —

	VLAN
Internet	2149
VoIP	3149
IPTV (multicast)	30
STB	2349
MNG-ONT (acs)	4094
MNG OLT	4000

, SSH, Telnet, (, HyperTerminal).

« ».

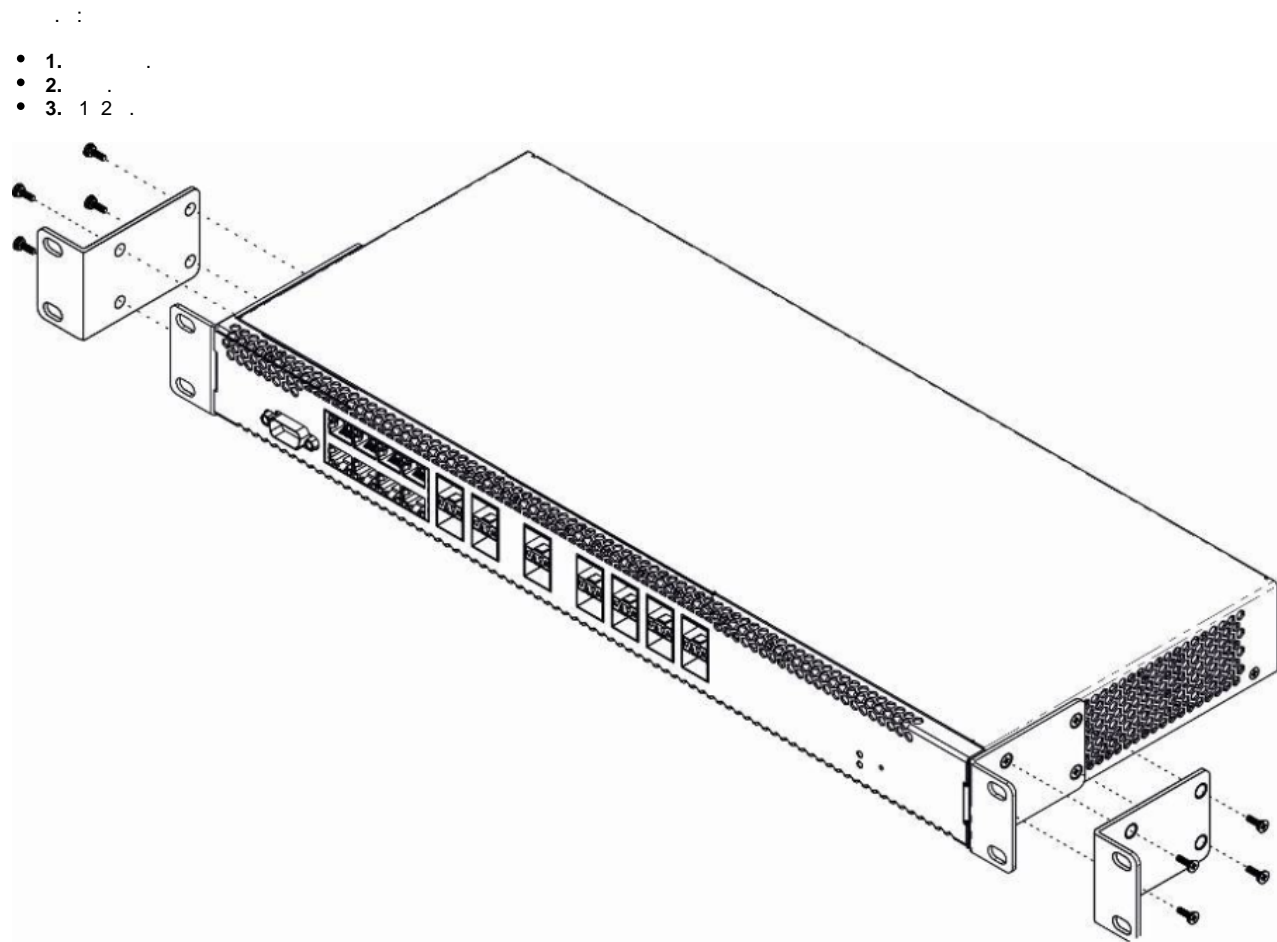


1. - , .
2. .
3. :
 - -5 +40°C;
 - 80% 25°C;
 - 6,010*4 10,710*4 (450 800 ..).
4. , , , .
5. .

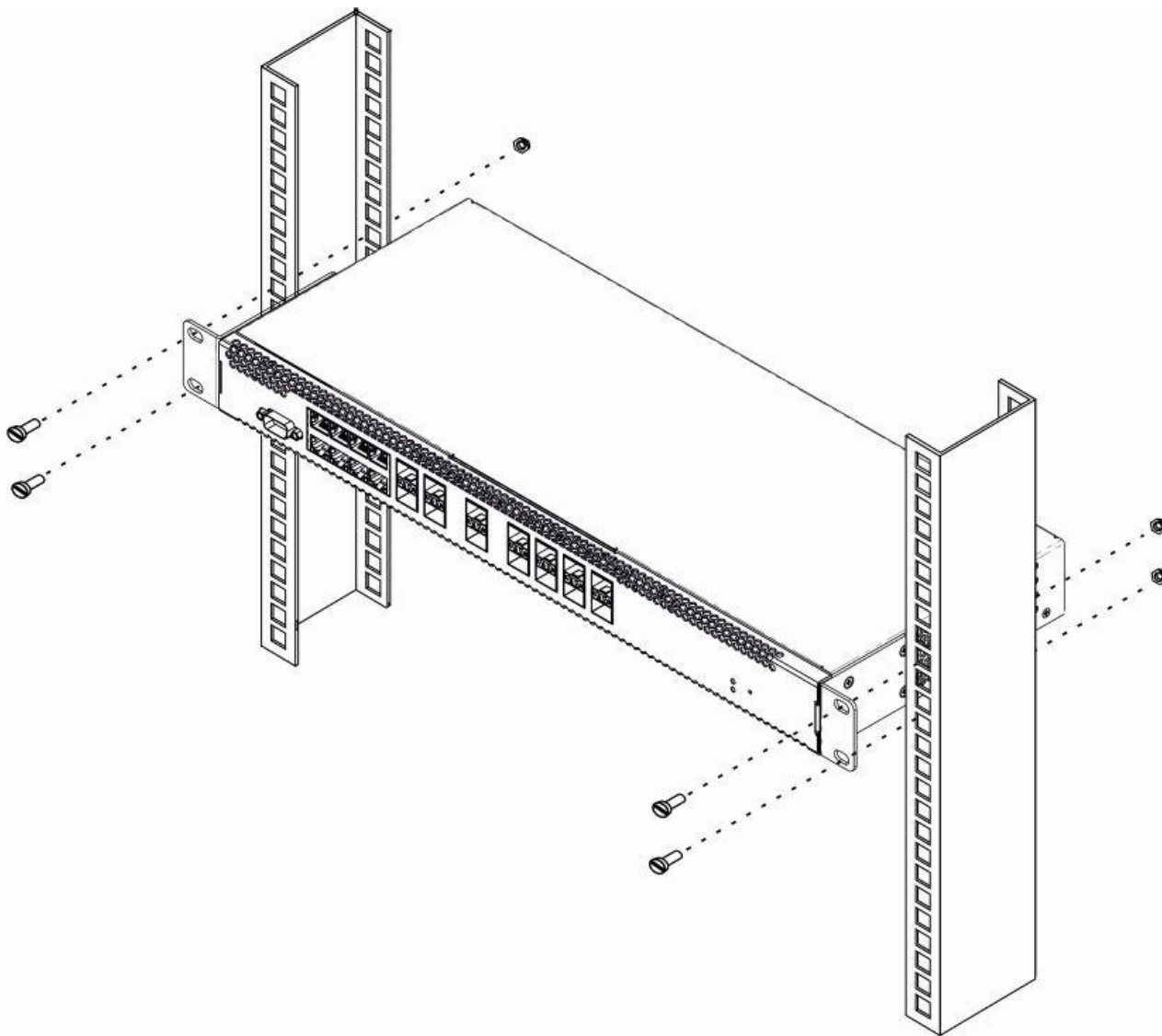
1. , . . 0,1 .
2. , . 1.
3. .
4. , .
5. :

- LTP-X rev.B ;
 - LTP-X rev.C/rev.D .
6. SFP-

12.



- 1.
- 2.
- 3.

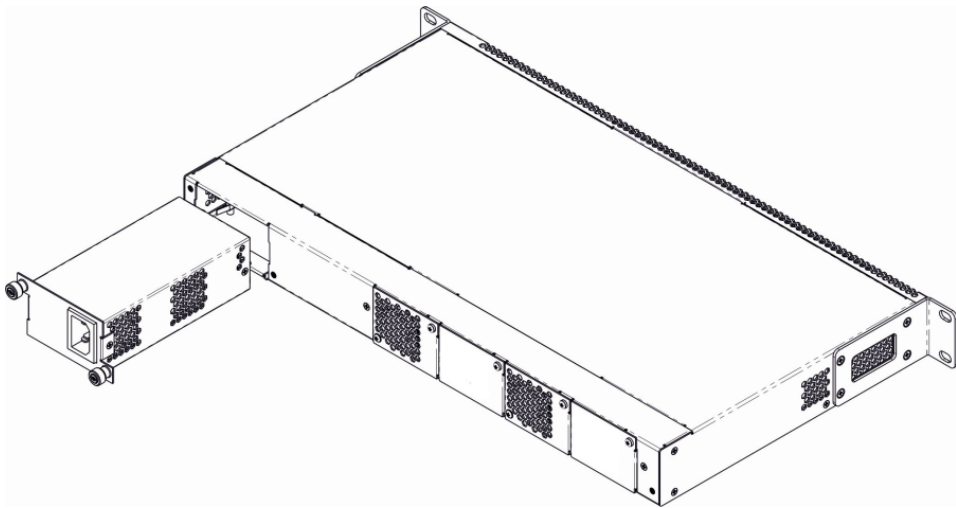


3—

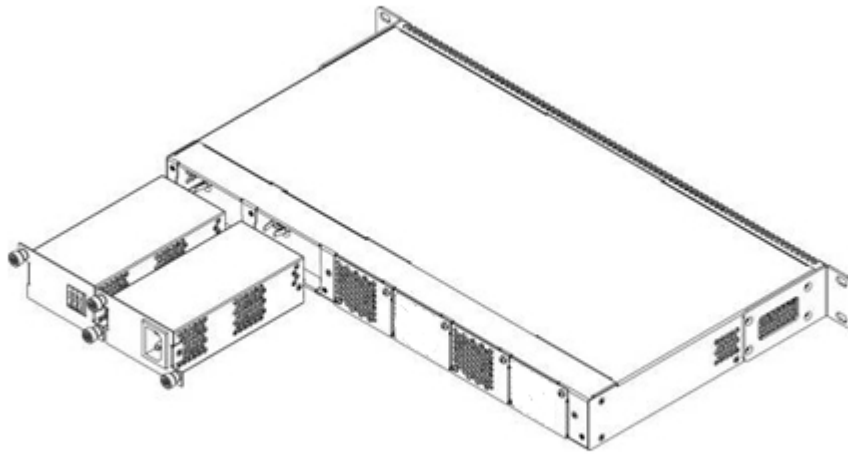


, 10.

220, 50, 48 . LTP-X rev.B 4.
LTP-X rev.C/rev.D 5.



4 — LTP-X rev.B



5 — LTP-X rev.C/rev.D

:

- 1. , ;
- 2. ;
- 3. .

- 1. . 19" , , .
- 2. ,
- 3. ,
- 4. .
- 5. .


(CLI)

telnet/ssh

«GE Port» «Combo GE» LTP-X. SSH/Telnet :

- **Default IP 192.168.1.2**
- **Default mask 255.255.255.0**
- **Default GW 0.0.0.0**
- **Login: admin**
- **Password: password**

```
login:admin
Password: password
```

 , (.).


IP-, C- (. [serial](#)).

serial

- . - . - RS-232.

:

- **: 115200 /;**
- **: 8 ;**
- **: ;**
- **: 1;**
- **: .**
- **Login: admin**
- **Password: password**

 , (.).

«show management».

```
LTP-X# show management
Network:
  Hostname:          'LTP-X'
  Ipaddr:            192.168.1.2
  Netmask:           255.255.255.0
  Vlan management:   1
  Gateway:           0.0.0.0
  Vlan prio:         7
  Dscp:              63
```

```
LTP-X# configure terminal

LTP-X(config)# do show users config

    admin
LTP-X(config)# user admin password XXXX

    root
LTP-X(config)# user root password XXXX

LTP-X(config)# do commit

LTP-X(config)# do save
```

LTP-X

LTP-X , . CLI serial .

```
LTP-X# configure terminal
```

, , IP=192.168.205.105, Mask=255.255.255.0, Gateway=192.168.205.230, VLAN=4000.

```
LTP-X(config)# management ip 192.168.205.105
LTP-X(config)# management mask 255.255.255.0
LTP-X(config)# management gateway 192.168.205.230
LTP-X(config)# management vid 4000
LTP-X(config)# exit
```

```
LTP-X# show management
```

```
Network:
  Hostname:                'LTP-X'
  Ipaddr:                  192.168.205.105
  Netmask:                 255.255.255.0
  Vlan management:        4000
  Gateway:                 192.168.205.230
  Vlan prio:               7
  Dscp:                   63
  Additional vlan:        <list is empty>
```

```
/    «commit», «save»    :
```

```
LTP-X# commit
```

```
LTP-X# save
```

```
VLAN (    VID=4000),    SWITCH:
```

```
SWITCH
```

```
LTP-X# switch
```

```
SWITCH
```

```
LTP-X(switch)# configure terminal
```

```
VLAN
```

```
LTP-X(switch)(config)# vlan 4000
```

```
VLAN front- 0
```

```
LTP-X(switch)(config-vlan)# tagged front-port 0
```

```
LTP-X(switch)(config-vlan)# exit
```

```
LTP-X(switch)(config)# commit
```

```
LTP-X(switch)(config)# exit
```

```
LTP-X(switch)# exit
```

```
LTP-X# save
```

OLT LTP-X

```
LTP-X . . .
```

```
TFTP- ( 3.40.0-build2358).
```

```
LTP-X, :
```



```
TFTP-
LTP-8X# copy tftp://192.168.205.250/ltp-8x-revc-revd-3.40.0-build2358.fw.bin
fs://firmware
Check free memory...ok
Downloading system firmware..
.....
.....
.....
System firmware successfully downloaded
Updating system firmware..
Current board version:      6
Current firmware version:  3.38.2.16
New firmware version:      3.40.0.2358
Update device mtd7
  Erase flash...
  Done.
  Write data...
  Done.
  Done.
Success
Update device mtd8
  Erase flash...
  Done.
  Write data...
  Done.
  Done.
Success
Update device mtd5
  Erase flash...
  Done.
  Write data...
  Done.
  Done.
Success
Update device mtd6
  Erase flash...
  Done.
  Write data...
  Done.
  Done.
Success
System firmware successfully updated

LTP-8X#
```

«reboot»:

```
LTP-X# reboot
Do you really want to reboot the system now? (y/n)  y
```

LTP-8X «show version»:

```
LTP-8X# show version
Eltex LTP-8X:rev.C software version 3.40.0 build 2358 on 10.12.2018 15:32
```

SNMP, SYSLOG, NTP, IP Source GUARD

SNMP

SNMP — SNMP .

```

LTP-X# configure terminal

      SNMP
LTP-X(config)# ip snmp enable

      v2    EMS
LTP-X(config)# ip snmp traps 192.168.205.200 type v2

      SNMP
LTP-X(config)# do show ip snmp
      Snmp:
          Enabled:                true
          Access control:         false
          Allow ip:                <list is empty>
          Traps [0]:
              Type:                v2
              Ipaddr:              192.168.205.200
          Version:                v2
          Community read-only [0]: 'QwYva0dvS3N'
          Community read-only [1]: 'QwYva0dvS3N'
          Community read-only [2]: 'QwYva0dvS3N'
          Community read-write [0]: 'LQtfx9v3m9+qA=='
          Community read-write [1]: 'LQtfx9v3m9+qA=='
          Community read-write [2]: 'LQtfx9v3m9+qA=='
          Trap community:         '9qXUEDwUMAg'
          Location:               'unknown'
          Contact:                 'admin'
          Alias:                   <for showing use
separate command>
          EngineID:               0xEF20CAF8234E12401216B17D85
          Users:                   <for showing use separate command>

LTP-X(config)# do commit

LTP-X(config)# do save

```

SYSLOG

Syslog — , , .

```

LTP-X# configure terminal

  syslog-
LTP-X(config)# logging remote 192.168.205.200

  SYSLOG
LTP-X(config)# do show logging
  Log:
    Remote syslog:          192.168.205.200
    Port:                  514
    Size:                  16384
    Origin-id:
      Type:                ip
    Save logs between boots: false
    Log input commands:    false
    Destinations:
      System:              notice
      Console:             critical
      Remote shells:       critical
      File:                notice

LTP-X(config)# do commit

LTP-X(config)# do save

```

NTP

NTP — , .

```

LTP-X# configure terminal

  NTP
LTP-X(config)# ip ntp enable

  NTP-
LTP-X(config)# ip ntp ip 192.168.205.200

  timezone
LTP-X(config)# ip ntp timezone 7

```

```

  NTP
LTP-X(config)# do show ip ntp
  Ntp:
    Enabled:                true
    Ntpserver:              192.168.205.200
    Interval:               3600
    Timezone:               7
    Daylightsaving:        false

LTP-X(config)# do commit

LTP-X(config)# do save

```

IP Source Guard

3.26.0, OLT IP Source Guard, IP- . IP- MAC- ONT.

```
LTP-X# configure terminal

Source Guard
LTP-X(config)# ip source-guard enable

LTP-X(config)# ip source-guard mode dynamic
```

:

LTP-X(config)# ip source-guard bind ip <IP> mac <MAC> interface-ont <ONT> service <NUM>

:

- **IP**— IP- ...;
- **MAC**— MAC-
- **ONT**— ONT /Y (Channel ID/ONT ID);
- **NUM**— ONT, ..

DHCP RA (broadcast — unicast relay)

DHCP- unicast- DHCP Relay Agent. Relay Agent VLAN. c, 802.1q.

1. L3-, IP- VLAN, . DHCP- management-, 3 . DHCP- VLAN, cross-connect, IP- DHCP-, 3 .

```
VLAN
LTP-X(switch)(config)# vlan 2000

IP- VLAN 2000
LTP-X(switch)(config-vlan)# ip address 10.10.10.1/32
```

2. DHCP-.

```
IP- DHCP-
LTP-X(switch)(config-vlan)# ip dhcp relay 192.168.56.1
```

3. L3-, IP- VLAN, , DHCP-.

```
VLAN
LTP-X(switch)(config)# vlan 1209
LTP-X(switch)(config-vlan)# ip address 192.168.209.240/24
```

4. DHCP- , L3-, .

```
LTP-X(config)# ip route prefix 192.168.56.0 mask 24 gateway 192.168.209.5
LTP-X(switch)(config-vlan)# ip address 192.168.209.240/24
```

SWITCH

```

SWITCH
LTP-X# switch

SWITCH
LTP-X(switch)# configure

VLAN
LTP-X(switch)(config)# vlan 2149,2349,30,3149,4094

pon-*
LTP-X(switch)(config-vlan-range)# tagged pon-port 0 - 7

VLAN front- 0
LTP-X(switch)(config-vlan-range)# tagged front-port 0

LTP-X(switch)(config-vlan-range)# exit

LTP-X(switch)(config)# commit
LTP-X(switch)(config)# exit
LTP-X(switch)# exit

LTP-X# save

```

* .
LTP-8 rev.B HW_revision 2v.
LTP-8 rev./rev.D HW_revision 1v.
LTP-4X rev.B, LTP-4X rev.C «tagged pon-port 0 – 3».

LTP-X , :

```

LTP-8X# show system environment
System information:
  CPU load average (1m, 5m, 15m):  0.83  2.35  1.48
  Free RAM/Total RAM (Mbytes):      279/495
  Temperature (sensor1/sensor2):     35C/48C
  Reset button:                      enabled

  Fan configured speed, %:           auto
  Fan minimum speed, %:              15
  Fan speed levels, %:               16 27 39 51 64 76 88 100
  Fan state (fan0/fan1):             6300rpm 6450rpm
  PLD FW version:                   14

TYPE:                               LTP-8X-rev.C
HW_revision:                        1v1
SN:                                 GP2B000024
MAC:                                A8:F9:4B:8B:50:00
Power supply information:
Module 1: PM150 220/12 1vX
  Type: Alternate current(AC)
  Intact: 1
Module 2: PM150 220/12 1vX
  Type: Alternate current(AC)
  Intact: 1

```



IGMP

```

IGMP SNOOPING
LTP-X(switch)(config)# ip igmp snooping

VLAN
30

LTP-X(switch)(config)# vlan 30

IGMP SNOOPING
VLAN

LTP-X(switch)(config-vlan)# ip igmp snooping enable

IGMP
LTP-X(switch)(config-vlan)# ip igmp snooping querier enable

IGMP-report
LTP-X(switch)(config-vlan)# exit
LTP-X(switch)(config)# ip igmp proxy report enable

IGMP-      VLAN unicast
multicast

LTP-X(switch)(config)# ip igmp proxy report range 224.0.0.1 239.255.255.255 from 2349 to 30

LTP-X(switch)(config)#
commit

LTP-X(switch)(config)# exit
LTP-X(switch)# exit

LTP-X#
save

```

CROSS_CONNECT, PORTS, ONT

```

LTP-X# configure terminal

datapath
2

LTP-X(config)# gpon olt model 2

Cross-Connect
ONT

LTP-X(config)# profile cross-connect
INTERNET

LTP-X(config-cross-connect)("INTERNET")#

VLAN
LTP-X(config-cross-connect)("INTERNET")# outer vid 2149

VLAN      ONT
LTP-X(config-cross-connect)("INTERNET")# user vid
10
LTP-X(config-cross-connect)("INTERNET")# exit

Cross-Connect SIP VoIP ONT
LTP-X(config)# profile cross-connect VOIP

VLAN

```

VoIP

LTP-X(config-cross-connect)("VOIP")# outer vid 3149

VLAN VoIP

ONT

LTP-X(config-cross-connect)("VOIP")# user vid

12

LTP-X(config-cross-connect)("VOIP")# exit

Cross-Connect multicast

LTP-X(config)# profile cross-connect MC_IPTV

VLAN

multicast

LTP-X(config-cross-connect)(" MC_IPTV ")# outer vid 30

VLAN multicast

ONT

LTP-X(config-cross-connect)(" MC_IPTV ")# user vid 30

multicast

LTP-X(config-cross-connect)(" MC_IPTV ")# type

multicast

LTP-X(config-cross-connect)(" MC_IPTV ")# exit

Cross-Connect UC_IPTV ONT

LTP-X(config)# profile cross-connect UC_IPTV

VLAN STB

unicast

LTP-X(config-cross-connect)(" UC_IPTV ")# outer vid 2349

VLAN STB unicast

ONT

LTP-X(config-cross-connect)(" UC_IPTV ")# user vid

11

LTP-X(config-cross-connect)(" UC_IPTV ")# exit

Cross-Connect management ONT

LTP-X(config)# profile cross-connect ACS

VLAN

management

LTP-X(config-cross-connect)("ACS")# outer vid 4094

VLAN management

ONT

LTP-X(config-cross-connect)("ACS")# user vid untagged

management

LTP-X(config-cross-connect)("ACS")# type

management

LTP-X(config-cross-connect)("ACS")# exit

LTP-X(config)# profile ports NTP-RG

IGMP Proxy VoIP-

NTP

LTP-X(config-ports)("NTP-RG")# veip multicast

IGMP- 30-

VLAN

LTP-X(config-ports)("NTP-RG")# veip upstream vid 30

```

30-
VLAN
LTP-X(config-ports)(" NTP-RG ")# veip downstream vid 30

VLAN multicast,
LTP-X(config-ports)(" NTP-RG ")# igmp multicast dynamic-entry 0 vid 30

LTP-X(config-ports)(" NTP-RG ")# igmp multicast dynamic-entry 0 group 224.0.0.1 239.255.255.255

LTP-X(config-ports)(" NTP-RG ")# do commit

LTP-X(config-ports)(" NTP-RG ")# do
save

```



, , .

OLT - PPPoE Intermedia Agent, DHCP Relay Agent

PPPoE Intermedia Agent

```

LTP-X# configure terminal

LTP-X(config)# profile pppoe-ia 1

Agent
LTP-X(config-pppoe-ia)("1")# enable

PPPoE-
LTP-X(config-pppoe-ia)("1")# sessions-limit 8094

PPPoE- ONT
LTP-X(config-pppoe-ia)("1")# sessions-limit per-user 4

circuit_id
LTP-X(config-pppoe-ia)("1")# format circuit-id %HOSTNAME%%ONTID%

remote_id
LTP-X(config-pppoe-ia)("1")# format remote-id %HOSTNAME%%ONTID%

LTP-X(config-pppoe-ia)("1")# do commit

LTP-X(config-pppoe-ia)("1")# do save

pppoe-ia 1 OLT
LTP-X(config-pppoe-ia)("1")# exit
LTP-X(config)# gpon olt profile pppoe-ia 1

LTP-X(config)# do commit

LTP-X(config) # do
save

```




OLT GPON (Auto reconfigure GPON-port: true), pppoe-ia OLT-.

:

```
LTP-X# reconfigure olt all
```

LTP-4X:

```
LTP-X# reconfigure olt
```

DHCP Relay Agent

```

LTP-X# configure terminal

      DHCP
LTP-X(config)# profile dhcp-ra 1

      Agent
LTP-X(config-dhcp-ra)("1")# enable

      HOSTNAME LTP-X id ONT , DHCP-
LTP-X(config-dhcp-ra)("1")# overwrite-option82 circuit-id %HOSTNAME%%ONTID%

      HOSTNAME LTP-X id ONT DHCP-
LTP-X(config-dhcp-ra)("1")# overwrite-option82 remote-id %HOSTNAME%%ONTID%

LTP-X(config-dhcp-ra)("1")# do commit

LTP-X(config-dhcp-ra)("1")# do save

LTP-X(config)# gpon olt profile dhcp-ra 1

      1 VLAN 3149
LTP-X(config)# gpon olt profile dhcp-ra 1 vid 3149

LTP-X(config)# do commit

LTP-X(config)# do save

      OLT
LTP-X# show gpon olt configuration
      Block duplicated mac: enabled
      Disable rogue ONT: disabled
      Ont block time: 5
      Dhcp-ra shaper: 100
      Profile pppoe-ia: 1
      OLT Profile PPPoE Intermediate Agent 1
      Profile dhcp-ra: 1
      OLT Profile DHCP Relay Agent 1
      Profile dhcpv6-ra: dhcpv6-ra-00 OLT Profile DHCP Relay Agent 0
      Profile dhcp-ra per VLAN 3149 [0]:
        Profile: 1
        OLT Profile DHCP Relay Agent 1
      Profile dhcpv6-ra per VLAN: <list is empty>
      Datapath:
        Model: model2
        Broadcast gem port: 4095
        Multicast gem port: 4094
      Encryption:
        Enable: false
        Key update interval: 1
      Unactivated timeout: 60
      ONT authentication mode: both
      Auto reconfigure ONT: true
      Auto reconfigure GPON-port: true
      Auto reconfigure OLT: true
      PLOAM password in alarm: false
      Auto-activation ONT: false
        Default template: unassigned

```

VLAN, 3149, 0 DHCP Relay Agent.
 DHCP-RA OLT-, OLT GPON Auto reconfigure GPON-port: true

:

```
LTP-X# reconfigure olt all
```

LTP-4X:

```
LTP-X# reconfigure olt
```

ONT

ONT 454C54580800F6B1 , 0 ONT ID 1 .

```
, ONT
LTP-X# show interface ont 0-7
unactivated
-----
GPON-port 0 ONT unactivated list
-----
## Serial          ONT ID GPON-port Status      RSSI[dBm] Version  EquipmentID Description
 1 454C54580800F6B1 n/a      0      UNACTIVATED  n/a      n/a      n/a      n/a

LTP-X# configure terminal

0 ONT ID 1
LTP-X(config)# interface ont 0/1

ONT
LTP-X(config)(if-ont-0/1)# serial 454C54580800F6B1

ports NTP-RG
LTP-X(config)(if-ont-0/1)# profile ports NTP-RG

cross-connect INTERNET
LTP-X(config)(if-ont-0/1)# service 0 profile cross-connect INTERNET

cross-connect VOIP
LTP-X(config)(if-ont-0/1)# service 1 profile cross-connect VOIP

cross-connect MC_IPTV
LTP-X(config)(if-ont-0/1)# service 2 profile cross-connect MC_IPTV

cross-connect UC_IPTV
LTP-X(config)(if-ont-0/1)# service 3 profile cross-connect UC_IPTV

cross-connect ACS
LTP-X(config)(if-ont-0/1)# service 4 profile cross-connect ACS

dba «dba 0»      :
LTP-X(config)(if-ont-0/1)# service 0 profile dba dba-00
LTP-X(config)(if-ont-0/1)# service 1 profile dba dba-00
LTP-X(config)(if-ont-0/1)# service 2 profile dba dba-00
LTP-X(config)(if-ont-0/1)# service 3 profile dba dba-00
LTP-X(config)(if-ont-0/1)# service 4 profile dba dba-00

LTP-X(config)(if-ont-0/1)# do commit

LTP-X(config)(if-ont-0/1)# do
save
```

10 :

```
LTP-X# send omci restore interface ont 0/1
```

```
ONT,
LTP-X# show interface ont 0-7
online
-----
GPON-port 0 ONT online list
-----

## Serial          ONT ID  GPON-port  Status  RSSI[dBm]  Version  EquipmentID  Description
1  454C54580800F6B1  1      0      OK      -25.38     3.22.0.1493  NTU-RG

Total ONT count: 1
```

ONT

ONT «Template», ONT.

```

LTP-X# configure terminal

TP

LTP-X(config)# template TP

    ports

LTP-X(ont-template)("TP")# profile ports NTP-RG

    cross-connect INTERNET service 0 TP
LTP-X(ont-template)("TP")# service 0 profile cross-connect INTERNET

    cross-connect VOIP service 1 TP
LTP-X(ont-template)("TP")# service 1 profile cross-connect VOIP

    cross-connect MC_IPTV service 2 TP
LTP-X(ont-template)("TP")# service 2 profile cross-connect MC_IPTV

    cross-connect STB service 3 TP
LTP-X(ont-template)("TP")# service 3 profile cross-connect UC_IPTV

    cross-connect ACS service 4 TP
LTP-X(ont-template)("TP")# service 4 profile cross-connect ACS

    dba «dba-00»      :
LTP-X(ont-template)("TP")# service 0 profile dba dba-00
LTP-X(ont-template)("TP")# service 1 profile dba dba-00
LTP-X(ont-template)("TP")# service 2 profile dba dba-00
LTP-X(ont-template)("TP")# service 3 profile dba dba-00
LTP-X(ont-template)("TP")# service 4 profile dba dba-00

LTP-X(ont-template)("TP")# do commit

LTP-X(ont-template)("TP")# do
save

    ONT 454C54580800F6B2:

LTP-X# configure terminal

    0 ONT ID
10

LTP-X(config)# interface ont 0/10

    ONT
LTP-X(config)(if-ont-0/10)# serial 454C54580800F6B2

    TP
LTP-X(config)(if-ont-0/10)# template TP

LTP-X(config)(if-ont-0/10)# do
commit

LTP-X(config)(if-ont-0/10)# do save

```

ONT 454C54580800F6B2 ONT 454C54580800F6B1 10, ONT 2. ONT [T] .

```

LTP-8X(config)(if-ont-0/10)# do show interface ont 0/10 configuration
-----
[ONT0/10] configuration
-----

Description:                                ''
Enabled:                                     true
Serial:                                     ELTX0800F6B1
Password:                                   '0000000000'
[T] Fec up:                                 false
[T] Downstream broadcast:                   true
[T] Ber interval:                           none
[T] Ber update period:                      60
[T] Rf port state:                          disabled
[T] Omc error tolerant:                     false
Service [0]:
[T] Profile cross connect:                  INTERNET      ONT Profile Cross Connect 1
[T] Profile dba:                            dba-00         ONT Profile DBA 0
Custom cross connect:                       disabled
Service [1]:
[T] Profile cross connect:                  VOIP           ONT Profile Cross Connect 2
[T] Profile dba:                            dba-00         ONT Profile DBA 0
Custom cross connect:                       disabled
Service [2]:
[T] Profile cross connect:                  MC_IPTV        ONT Profile Cross Connect 3
[T] Profile dba:                            dba-00         ONT Profile DBA 0
Custom cross connect:                       disabled
Service [3]:
[T] Profile cross connect:                  UC_IPTV        ONT Profile Cross Connect 4
[T] Profile dba:                            dba-00         ONT Profile DBA 0
Custom cross connect:                       disabled
Service [4]:
[T] Profile cross connect:                  ACS            ONT Profile Cross Connect 5
[T] Profile dba:                            dba-00         ONT Profile DBA 0
Custom cross connect:                       disabled
Service [5]:
[T] Profile cross connect:                  unassigned
[T] Profile dba:                            dba-00         ONT Profile DBA 0
Custom cross connect:                       disabled
[T] Profile shaping:                       shaping-00     ONT Profile Shaping 0
[T] Profile ports:                         NTP-RG        ONT Profile Ports 1
[T] Profile management:                    unassigned
[T] Profile scripting:                     unassigned
Custom model:                              none
Template:                                  TP             ONT Template 1
LTP-8X(config)(if-ont-0/10)#

```

LTP ACS

LTP-4/8X rev.B, LTP-4/8X rev.C/rev.D ACS-, ONT, OLT.

```
ACS-
LTP-X(config)# ip acs server enable

VLAN,      ACS-
LTP-X(config)# ip acs server vid 4094

DHCP-      IP ONT
LTP-X(config)# ip dhcp server enable

43 DHCP-
LTP-X(config)# ip dhcp server option-43

LTP-X(config)# ip dhcp server range "192.168.200.2" "192.168.201.254"

LTP-X(config)#do commit

LTP-X(config)#do save

SWITCH

LTP-X# switch

SWITCH

LTP-X(switch)# configure

VLAN
ACS

LTP-X(switch)(config)# vlan 4094

pon-*
LTP-X(switch)(config-vlan)# tagged pon-port 0 -
7

LTP-X(switch)(config-vlan)# exit
LTP-X(switch)(config)#
commit
LTP-X(switch)(config)# exit
LTP-X(switch)# exit

LTP-X# save

LTP-X# configure terminal

Cross-Connect management
ONT

LTP-X(config)# profile cross-connect ACS
```

```

VLAN management
LTP-X(config-cross-connect)("ACS")# outer vid
4094
LTP-X(config-cross-connect)("ACS")# type management

LTP-X(config-cross-connect)("ACS")# do commit

LTP-X(config-cross-connect)("ACS")# do save

```

* .
LTP-8 rev.B HW_revision 2v.
LTP-8 rev./rev.D HW_revision 1v.
LTP-4X rev.B/ LTP-4X rev.C «tagged pon-port 0 – 3».

ONT ACS ONT CC Management ONT.

ACS ONT

```

LTP-X> acs

ONT
(acs)# profile

ONT TEST
(acs-profiles)# add profile TEST

TEST
(acs-profiles)# profile TEST
(acs-profile-name='TEST'

.
(acs-profile-name='TEST')commit
(acs-profile-name='TEST')

```

ACS ONT ftp/tftp.

:

```

LTP-8x# copy tftp://10.0.0.1/acs-config fs://acs-config

```



OLT . CLI .

```

profile
add profile test1
profile test1
set property InternetGatewayDevice.LANDevice.1.WLANConfiguration.1.PreSharedKey.1.X_ELTEX_RU_UserDefinedPSK
1 nocheck
set property InternetGatewayDevice.LANDevice.1.WLANConfiguration.1.RadioEnabled 1 nocheck

```

ACS


```
(acs)#

(acs)# user

IVANOV

(acs-user)# add user IVANOV

IVANOV

(acs-user)# user IVANOV

ONT
IVANOV
(acs-user-subscriber='IVANOV')# set pon_serial 454C54580800F6B1

ACS IVANOV
(acs-user-subscriber='IVANOV')# set profile TEST

PPPoE-
(acs-user-subscriber='IVANOV')# set ppp_login test

PPPoE-
(acs-user-subscriber='IVANOV')# set ppp_password TEST

SIP PROXY
(acs-user-subscriber='IVANOV')# set sip_proxy 212.122.111.55

1
(acs-user-subscriber='IVANOV')# set voicel_enable enabled

1
(acs-user-subscriber='IVANOV')# set voicel_number 34234234

1
(acs-user-subscriber='IVANOV')# set voicel_password test
```

ONT ACS



, LTP-X .

```

ACS
LTP-X> acs

ONT

(acs)firmware

TFTP-

(acs-firmware)copy 192.168.16.26 ntp-rg-3.22.1.14.fw.bin

(acs-firmware)show files

(acs-firmware)show list

(acs-firmware)add firmware 1

(acs-firmware)firmware 1

(acs-firmware_config-fw id='1')show config

(acs-firmware_config-fw id='1')set file ntp-rg-3.22.1.14.fw.bin

( ONT, ). (acs-profile) «show list»
(acs-firmware_config-fw id='1')add profile TEST

```

ONT ACS ONT.

« ».

. ACS NTP-RG14XXG-W/NTU-RG14XXG-W

```

set property "InternetGatewayDevice.LANDevice.1.LANHostConfigManagement.DHCPSEnable" "1" nocheck
set property "InternetGatewayDevice.LANDevice.1.LANHostConfigManagement.DomainName" "HomeLAN" nocheck
set property "InternetGatewayDevice.LANDevice.1.LANHostConfigManagement.IPInterface.1.Enable" "1" nocheck
set property "InternetGatewayDevice.LANDevice.1.LANHostConfigManagement.IPInterface.1.
IPInterfaceAddressingType" "Static" nocheck
set property "InternetGatewayDevice.LANDevice.1.LANHostConfigManagement.IPInterface.1.IPInterfaceIPAddress"
"192.168.1.1" nocheck
set property "InternetGatewayDevice.LANDevice.1.LANHostConfigManagement.IPInterface.1.IPInterfaceSubnetMask"
"255.255.255.0" nocheck
set property "InternetGatewayDevice.LANDevice.1.LANHostConfigManagement.IPRouters" "192.168.1.1" nocheck
set property "InternetGatewayDevice.LANDevice.1.LANHostConfigManagement.MaxAddress" "192.168.1.254" nocheck
set property "InternetGatewayDevice.LANDevice.1.LANHostConfigManagement.MinAddress" "192.168.1.2" nocheck
set property "InternetGatewayDevice.LANDevice.1.LANHostConfigManagement.SubnetMask" "255.255.255.0" nocheck
set property "InternetGatewayDevice.Layer2Bridging.Bridge.1.BridgeEnable" "TRUE" nocheck
set property "InternetGatewayDevice.Layer2Bridging.Bridge.1.BridgeName" "brHSI" nocheck
set property "InternetGatewayDevice.Layer2Bridging.Bridge.1.BridgeStandard" "802.1Q" nocheck
set property "InternetGatewayDevice.Layer2Bridging.Bridge.1.VLANID" "10" nocheck
set property "InternetGatewayDevice.Layer2Bridging.Bridge.2.BridgeEnable" "1" nocheck
set property "InternetGatewayDevice.Layer2Bridging.Bridge.2.BridgeName" "brVoIP" nocheck
set property "InternetGatewayDevice.Layer2Bridging.Bridge.2.BridgeStandard" "802.1Q" nocheck
set property "InternetGatewayDevice.Layer2Bridging.Bridge.2.VLANID" "12" nocheck
set property "InternetGatewayDevice.Layer2Bridging.Bridge.3.BridgeEnable" "1" nocheck
set property "InternetGatewayDevice.Layer2Bridging.Bridge.3.BridgeName" "brIPTV" nocheck
set property "InternetGatewayDevice.Layer2Bridging.Bridge.3.BridgeStandard" "802.1Q" nocheck
set property "InternetGatewayDevice.Layer2Bridging.Bridge.3.VLANID" "11" nocheck
set property "InternetGatewayDevice.Layer2Bridging.Bridge.4.BridgeEnable" "1" nocheck
set property "InternetGatewayDevice.Layer2Bridging.Bridge.4.BridgeName" "MC" nocheck

```

[illegible]

[illegible]

```

nocheck
set property "InternetGatewayDevice.WANDevice.1.WANConnectionDevice.1.WANIPConnection.1.ConnectionType"
"IP_Routed" nocheck
set property "InternetGatewayDevice.WANDevice.1.WANConnectionDevice.1.WANIPConnection.1.DHCPClient.
SentDHCPOption.1.Enable" "1" nocheck
set property "InternetGatewayDevice.WANDevice.1.WANConnectionDevice.1.WANIPConnection.1.DHCPClient.
SentDHCPOption.1.Tag" "60" nocheck
set property "InternetGatewayDevice.WANDevice.1.WANConnectionDevice.1.WANIPConnection.1.DHCPClient.
SentDHCPOption.1.Value" "Vk9JUF9OVfAtUkc=" nocheck
set property "InternetGatewayDevice.WANDevice.1.WANConnectionDevice.1.WANIPConnection.1.Enable" "1" nocheck
set property "InternetGatewayDevice.WANDevice.1.WANConnectionDevice.1.WANIPConnection.1.Name" "VoIP_IpOE"
nocheck
set property "InternetGatewayDevice.WANDevice.1.WANConnectionDevice.1.WANIPConnection.2.AddressingType"
"Static" nocheck
set property "InternetGatewayDevice.WANDevice.1.WANConnectionDevice.1.WANIPConnection.2.ConnectionType"
"IP_Routed" nocheck
set property "InternetGatewayDevice.WANDevice.1.WANConnectionDevice.1.WANIPConnection.2.DefaultGateway"
"10.0.0.1" nocheck
set property "InternetGatewayDevice.WANDevice.1.WANConnectionDevice.1.WANIPConnection.2.Enable" "1" nocheck
set property "InternetGatewayDevice.WANDevice.1.WANConnectionDevice.1.WANIPConnection.2.ExternalIPAddress"
"10.10.10.10" nocheck
set property "InternetGatewayDevice.WANDevice.1.WANConnectionDevice.1.WANIPConnection.2.Name" "MC_IpOE" nocheck
set property "InternetGatewayDevice.WANDevice.1.WANConnectionDevice.1.WANIPConnection.2.SubnetMask" "255.0.0.0"
nocheck
set property "InternetGatewayDevice.WANDevice.1.WANConnectionDevice.1.WANIPConnection.2.
X_BROADCASTCOM_IGMPEnabled" "1" nocheck
set property "InternetGatewayDevice.WANDevice.1.WANConnectionDevice.1.WANPPPConnection.1.ConnectionTrigger"
"AlwaysOn" nocheck
set property "InternetGatewayDevice.WANDevice.1.WANConnectionDevice.1.WANPPPConnection.1.ConnectionType"
"IP_Routed" nocheck
set property "InternetGatewayDevice.WANDevice.1.WANConnectionDevice.1.WANPPPConnection.1.Enable" "1" nocheck
set property "InternetGatewayDevice.WANDevice.1.WANConnectionDevice.1.WANPPPConnection.1.IdleDisconnectTime"
"0" nocheck
set property "InternetGatewayDevice.WANDevice.1.WANConnectionDevice.1.WANPPPConnection.1.Name" "HSI_PPP" nocheck
set property "InternetGatewayDevice.WANDevice.1.WANConnectionDevice.1.WANPPPConnection.1.NATEnabled" "1" nocheck

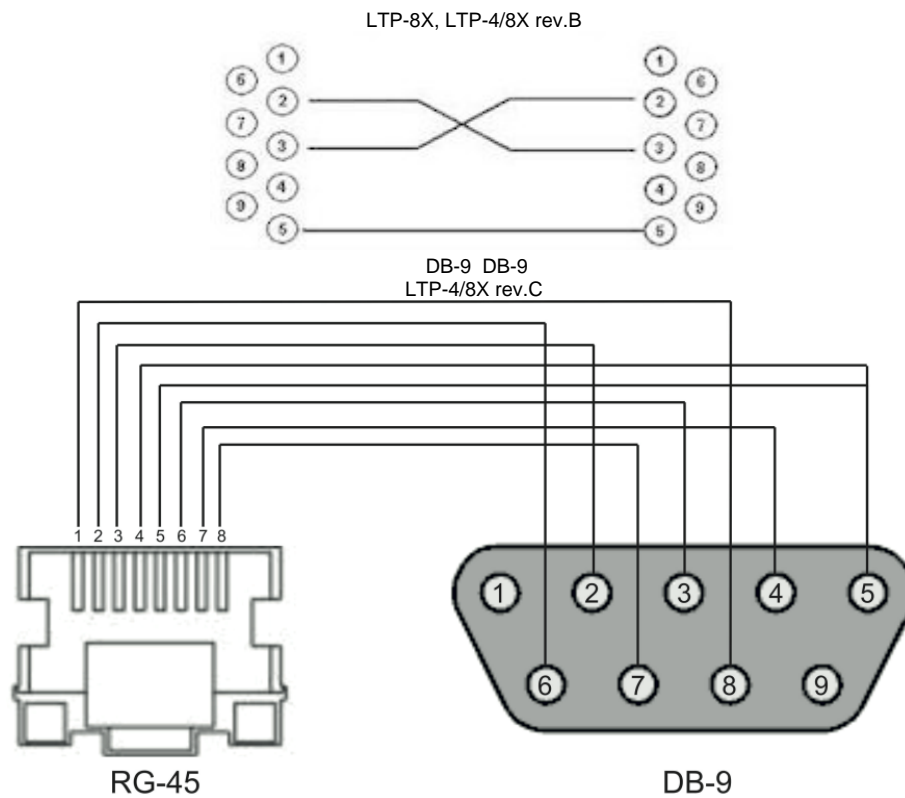
```

. NTP-RG14XXG/NTP-RG14XXG-W

```

set property "InternetGatewayDevice.Services.VoiceService.1.VoiceProfile.1.Line.1.CallingFeatures.CallerIDName"
"szt" nocheck
set property "InternetGatewayDevice.Services.VoiceService.1.VoiceProfile.1.Line.1.CallingFeatures.CallerIDName"
"szt" nocheck
set property "InternetGatewayDevice.Services.VoiceService.1.VoiceProfile.1.Line.1.CallingFeatures.CallerIDName"
"111" nocheck
set property "InternetGatewayDevice.Services.VoiceService.1.VoiceProfile.1.Line.1.DirectoryNumber" "111" nocheck
set property "InternetGatewayDevice.Services.VoiceService.1.VoiceProfile.1.Line.1.Enable" "Enabled" nocheck
set property "InternetGatewayDevice.Services.VoiceService.1.VoiceProfile.1.Line.1.SIP.AuthPassword" "111"
nocheck
set property "InternetGatewayDevice.Services.VoiceService.1.VoiceProfile.1.Line.1.SIP.AuthUserName" "111"
nocheck
set property "InternetGatewayDevice.Services.VoiceService.1.VoiceProfile.1.Line.2.CallingFeatures.CallerIDName"
"222" nocheck
set property "InternetGatewayDevice.Services.VoiceService.1.VoiceProfile.1.Line.2.DirectoryNumber" "222" nocheck
set property "InternetGatewayDevice.Services.VoiceService.1.VoiceProfile.1.Line.2.Enable" "Enabled" nocheck
set property "InternetGatewayDevice.Services.VoiceService.1.VoiceProfile.1.Line.2.SIP.AuthPassword" "222"
nocheck
set property "InternetGatewayDevice.Services.VoiceService.1.VoiceProfile.1.Line.2.SIP.AuthUserName" "222"
nocheck
set property "InternetGatewayDevice.Services.VoiceService.1.VoiceProfile.1.SIP.OutboundProxy" "test.ru" nocheck
set property "InternetGatewayDevice.Services.VoiceService.1.VoiceProfile.1.SIP.RegistrarServer" "test.ru"
nocheck
set property "InternetGatewayDevice.Services.VoiceService.1.VoiceProfile.1.SIP.UserAgentDomain" "test.ru"
nocheck

```



. ONT NTU-1

bridge, ONT VLAN 2149.

ONT NTU-1 (bridge), OLT OMCI ACS.
VLAN switch LTP.

```

SWITCH
LTP-X# switch

SWITCH
LTP-X(switch)# configure

VLAN
LTP-X(switch)(config)# vlan 2149

VLAN front- 0
LTP-X(switch)(config-vlan)# tagged front-port 0

pon-*
LTP-X(switch)(config-vlan)# tagged pon-port 0 - 7
LTP-X(switch)(config-vlan)# exit

LTP-X(switch)(config)# commit
LTP-X(switch)(config)# exit
LTP-X(switch)# exit

```

* .
LTP-8 rev.B HW_revision 2v.
LTP-8 rev. HW_revision 1v.
LTP-4X rev.B «tagged pon-port 0 – 3».

Cross Connect Ports.

```
LTP-X# configure terminal

      Cross-Connect  NTU-
1
LTP-X(config)# profile cross-connect NTU1

      bridge
LTP-X(config-cross-connect)("NTU1")# bridge

      Cross-connect  bridge group 20
LTP-X(config-cross-connect)("NTU1")# bridge group 20
```

```
VLAN
LTP-X(config-cross-connect)("NTU1")# outer vid 2149
LTP-X(config-cross-connect)("NTU1")# exit

      NTU-1
LTP-X(config)# profile ports NTU1

      0  bridge group 20
LTP-X(config-ports)("NTU1")# port 0 bridge group 20

LTP-X(config-ports)("NTU1")# do commit

LTP-X(config-ports)("NTU1")# do save
```

ONT NTU-1.

```
LTP-X# configure terminal

      0 ONT ID 3
LTP-X(config)# interface ont 0/3

      ONT
LTP-X(config)(if-ont-0/3)# serial 454C545862000078

      ports NTU-1
LTP-X(config)(if-ont-0/3)# profile ports NTU1

      cross-connect NTU-1
LTP-X(config)(if-ont-0/3)# service 0 profile cross-connect NTU1

      DBA
LTP-X(config)(if-ont-0/3)# service 0 profile dba dba-00

LTP-X(config)(if-ont-0/3)# do commit

LTP-X(config)(if-ont-0/3)# do save
```

ONT NTU-1 VLAN TRUNK.

8 VLAN trunk ONT NTU-1.

VLAN 100 200.

VLAN switch LTP.

```
SWITCH
LTP-X# switch

SWITCH
LTP-X(switch)# configure
```

```
VLAN
LTP-X(switch)(config)# vlan 100,200

VLAN front- 0
LTP-X(switch)(config-vlan)# tagged front-port 0

pon-*
LTP-X(switch)(config-vlan)# tagged pon-port 0 - 7

LTP-X(switch)(config-vlan)# exit
LTP-X(switch)(config)# commit
LTP-X(switch)(config)# exit
LTP-X(switch)# exit
```

* .
LTP-8 rev.B HW_revision 2v.
LTP-8 rev. HW_revision 1v.
LTP-4X rev.B «tagged pon-port 0 – 3».

Cross Connect Ports.

```
LTP-X# configure terminal

Cross-Connect NTU-1
LTP-X(config)# profile cross-connect NTU100

bridge
LTP-X(config-cross-connect)("NTU100")# bridge

Cross-connect bridge group 20
LTP-X(config-cross-connect)("NTU100")# bridge group 20

VLAN
LTP-X(config-cross-connect)("NTU100")# outer vid 100

VLAN
LTP-X(config-cross-connect)("NTU100")# user vid 100
LTP-X(config-cross-connect)("NTU100")# exit

Cross-Connect NTU-1
LTP-X(config)# profile cross-connect NTU200

Cross-connect bridge group 20
LTP-X(config-cross-connect)("NTU200")# bridge group 20

VLAN
LTP-X(config-cross-connect)("NTU200")# outer vid 200

VLAN
LTP-X(config-cross-connect)("NTU200")# user vid 200
LTP-X(config-cross-connect)("NTU200")# exit
```



```

        NTU-1
LTP-X(config)# profile ports NTU1

    0 bridge group 20
LTP-X(config-ports)("NTU1")# port 0 bridge group 20

LTP-X(config-ports)("NTU1")# do commit

LTP-X(config-ports)("NTU1")# do save

```

ONT NTU-1.

```

LTP-X# configure terminal

    0 ONT ID
3
LTP-X(config)# interface ont 0/3

    ONT
LTP-X(config)(if-ont-0/3)# serial 454C545862000078

    ports NTU1
LTP-X(config)(if-ont-0/3)# profile ports NTU1

    cross-connect NTU-1
LTP-X(config)(if-ont-0/3)# service 0 profile cross-connect NTU100

    DBA
LTP-X(config)(if-ont-0/3)# service 0 profile dba dba-00

    cross-connect NTU-1
LTP-X(config)(if-ont-0/3)# service 1 profile cross-connect NTU200

    DBA
LTP-X(config)(if-ont-0/3)# service 1 profile dba dba-00

LTP-X(config)(if-ont-0/3)# do
commit

```

. ONT SFP-ONU

bridge, ONT VLAN 2149.

ONT SFP-ONU (bridge), OLT OMCI ACS.
VLAN switch LTP.

```

SWITCH
LTP-X# switch

SWITCH
LTP-X(switch)# configure

VLAN
LTP-X(switch)(config)# vlan 2149

VLAN front- 0
LTP-X(switch)(config-vlan)# tagged front-port 0

pon-*
LTP-X(switch)(config-vlan)# tagged pon-port 0 - 7
LTP-X(switch)(config-vlan)# exit

LTP-X(switch)(config)# commit
LTP-X(switch)(config)# exit
LTP-X(switch)# exit

```

* .
 LTP-8 rev.B HW_revision 2v.
 LTP-8 rev. HW_revision 1v.
 LTP-4X rev.B «tagged pon-port 0 – 3».

Cross Connect Ports.

```

LTP-X# configure terminal

Cross-Connect NTU-1
LTP-X(config)# profile cross-connect SFP

bridge
LTP-X(config-cross-connect)("NTU1")# bridge

Cross-connect bridge group 20
LTP-X(config-cross-connect)("NTU1")# bridge group 20

```

```

VLAN
LTP-X(config-cross-connect)("NTU1")# outer vid 2149
LTP-X(config-cross-connect)("NTU1")# exit

SFP-ONU
LTP-X(config)# profile ports SFPONU

0 bridge group 20
LTP-X(config-ports)("NTU1")# port 0 bridge group 20

LTP-X(config-ports)("NTU1")# do commit

LTP-X(config-ports)("NTU1")# do save

```

ONT SFP-ONU.

```
LTP-X# configure terminal

    0 ONT ID 3
LTP-X(config)# interface ont 0/3

    ONT
LTP-X(config)(if-ont-0/3)# serial 454C545862000078

    ports SFPONU
LTP-X(config)(if-ont-0/3)# profile ports SFPONU

    cross-connect SFP-ONU
LTP-X(config)(if-ont-0/3)# service 0 profile cross-connect SFP

    DBA
LTP-X(config)(if-ont-0/3)# service 0 profile dba dba-00

LTP-X(config)(if-ont-0/3)# do commit

LTP-X(config)(if-ont-0/3)# do save
```

ONT SFP-ONU VLAN TRUNK

8 VLAN trunk ONT SFP-ONU.

VLAN 100 200.

VLAN switch LTP.

```
SWITCH
LTP-X# switch
```

```
SWITCH
LTP-X(switch)# configure
```

```
VLAN
LTP-X(switch)(config)# vlan 100,200

    VLAN front- 0
LTP-X(switch)(config-vlan)# tagged front-port 0

    pon-
LTP-X(switch)(config-vlan)# tagged pon-port 0 - 7

LTP-X(switch)(config-vlan)# exit
LTP-X(switch)(config)# commit
LTP-X(switch)(config)# exit
LTP-X(switch)# exit
```

Cross Connect Ports.

```
LTP-X# configure terminal

      Cross-Connect  SFP-ONU
LTP-X(config)# profile cross-connect SFP100

      bridge
LTP-X(config-cross-connect)("SFP100")# bridge

      Cross-connect  bridge group 20
LTP-X(config-cross-connect)("SFP100")# bridge group 20

      VLAN
LTP-X(config-cross-connect)("SFP100")# outer vid 100

      VLAN
LTP-X(config-cross-connect)("SFP100")# user vid 100
LTP-X(config-cross-connect)("SFP100")# exit

      Cross-Connect  SFP-ONU
LTP-X(config)# profile cross-connect SFP200

      Cross-connect  bridge group 20
LTP-X(config-cross-connect)("SFP200")# bridge group 20

      VLAN
LTP-X(config-cross-connect)("SFP200")# outer vid 200

      VLAN
LTP-X(config-cross-connect)("SFP200")# user vid 200
LTP-X(config-cross-connect)("SFP200")# exit

      SFP-ONU
LTP-X(config)# profile ports SFPONU

      0  bridge group 20
LTP-X(config-ports)("SFPONU")# port 0 bridge group 20

LTP-X(config-ports)("SFPONU ")# do commit
```

```
LTP-X(config-ports)("SFPONU ")# do save
```

ONT SFP-ONU.

```

LTP-X# configure terminal

    0 ONT ID 3
LTP-X(config)# interface ont 0/3

    ONT
LTP-X(config)(if-ont-0/3)# serial 454C545862000078

    ports SFPONU
LTP-X(config)(if-ont-0/3)# profile ports SFPONU

    cross-connect SFP-ONU
LTP-X(config)(if-ont-0/3)# service 0 profile cross-connect SFP100

    DBA
LTP-X(config)(if-ont-0/3)# service 0 profile dba dba-00

    cross-connect SFP-ONU
LTP-X(config)(if-ont-0/3)# service 1 profile cross-connect SFP200

    DBA
LTP-X(config)(if-ont-0/3)# service 1 profile dba dba-00

LTP-X(config)(if-ont-0/3)# do commit

```

ONT SFP-ONU VLAN TRUNK, VLAN Selective-tunnel VLAN Tunnel

3.26.0 .. trunk SFP-ONU.

uplink OLT VLAN 300 (multicast) QinQ VLAN 1100 1200 (). , OLT SFP-ONU.

OLT .

- 1. .

```

LTP-X(switch)(config)# vlan 300,1100,1200
LTP-X(switch)(config-vlan-range)# tagged pon-port 0
LTP-X(switch)(config-vlan-range)# front-port 0
LTP-X(switch)(config-vlan-range)# commit

```

- 2. cross-connect.

```

LTP-X(config)# profile cross-connect cc-tunnel
LTP-X(config-cross-connect)("cc-tunnel")# bridge
LTP-X(config-cross-connect)("cc-tunnel")# bridge group 10
LTP-X(config-cross-connect)("cc-tunnel")# tag-mode tunnel
LTP-X(config-cross-connect)("cc-tunnel")# exit
LTP-X(config)# profile cross-connect "cc-selecttunnel"
LTP-X(config-cross-connect)("cc-selecttunnel")# bridge
LTP-X(config-cross-connect)("cc-selecttunnel")# bridge group 10
LTP-X(config-cross-connect)("cc-selecttunnel")# tag-mode selective-tunnel
LTP-X(config-cross-connect)("cc-selecttunnel")# exit
LTP-X(config)# profile cross-connect "cc-single"
LTP-X(config-cross-connect)("cc-single")# bridge
LTP-X(config-cross-connect)("cc-single")# bridge group 10
LTP-X(config-cross-connect)("cc-single")# user vid 300
LTP-X(config-cross-connect)("cc-single")# exit

```

- 3. ports.

```

LTP-X(config)# profile ports bridge-10
LTP-X(config-ports)("bridge-10")# port 0 bridge group 10

```

- 4. address-table, VLAN, gpon-

```
LTP-X(config)# profile address-table at-tunnel
LTP-X(config-address-table)("at-tunnel")# s-vlan 1100 use c-vlan
LTP-X(config-address-table)("at-tunnel")# s-vlan 1200 use c-vlan
LTP-X(config-address-table)("at-tunnel")# exit
LTP-X(config)# interface gpon-port 0
LTP-X(config)(if-gpon-0)# profile address-table at-tunnel
```

- 5. SFP-ONU, .

```
LTP-X(config)# interface ont 0/0
LTP-X(config)(if-ont-0/0)# serial "454C545300000001"
LTP-X(config)(if-ont-0/0)# service 0 profile cross-connect cc-tunnel dba dba-00
LTP-X(config)(if-ont-0/0)# service 1 profile cross-connect cc-selecttunnel dba dba-00
LTP-X(config)(if-ont-0/0)# service 2 profile cross-connect cc-single dba dba-00
LTP-X(config)(if-ont-0/0)# profile ports "bridge-10"
LTP-X(config)(if-ont-0/0)# service 0 custom svid 1100
LTP-X(config)(if-ont-0/0)# service 1 custom svid 1200
LTP-X(config)(if-ont-0/0)# service 1 selective-tunnel uvid 201-203
LTP-X(config)(if-ont-0/0)# service 2 custom svid 300
```

. ONT/GPON-

ONT

ONT	
UNACTIVATED	ONT
ALLOCATED	ONT
AUTHINPROGRESS	ONT
AUTHFAILED	
AUTHOK	
PRECONFIG	ONT
CFGINPROGRESS	ONT
CFGFAILED	
OK	ONT
BLOCKED	ONT
MIBRESET	MIB ONT
FAILED	ONT
FWUPDATING	ONT
DISABLED	ONT

GPON-

INITED	
CFGINPROGRESS	
CFGFAILED	
OK	
FAILED	

DISABLED	
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« « » :

: <https://eltex-co.ru/support/>

Servicedesk: <https://servicedesk.eltex-co.ru>

« « », , .

: <https://eltex-co.ru/>

: <https://eltex-co.ru/forum>

: <https://docs.eltex-co.ru/display/EKB/Eltex+Knowledge+Base>

: <https://eltex-co.ru/support/downloads>