

LTP EasyMode 3.40.0

LTP-8X, LTP-4X

(EasyMode)
3.40.0 (10.12.2020)

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LTP-X (EasyMode)

(EasyMode) — LTP, GPON . EasyMode , GPON, Triple-Play .

EasyMode :

- GPON Eltex;
- ;
- .

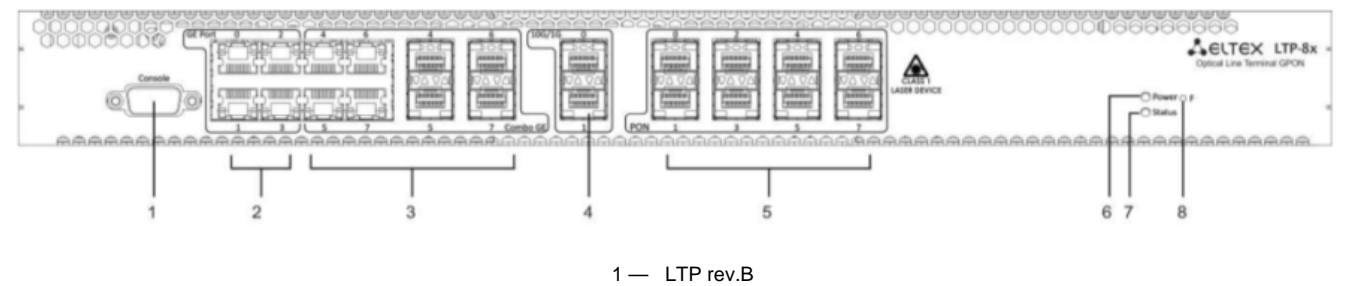
B, C NTU. :

LTP-8X(4X)	3.26.1
NTU-1	3.24.0
NTU-2W	3.25.1
NTU-2V(C), NTU-RG-1402G-W	3.25.2
NTU-RG-1421(31)G-Wac	3.28.1

, , « » LTP, <https://eltex-co.ru/catalog/olt-gpon/>.

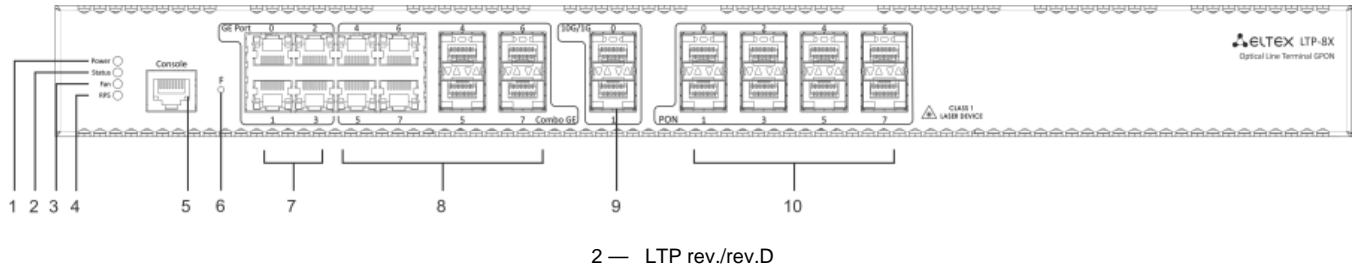
LTP , Ethernet- GE-.

LTP rev.B RS-232 DB9(F) – DB9(F), , 1 — LTP rev.B.



1 — LTP rev.B

LTP C D RS-232 RJ-45 – DB9(F), , 2 — LTP rev./rev.D.



2 — LTP rev./rev.D

1 — , LTP rev.B

1	Console	RS-232
2	GE Port 0..3	4 RJ-45 10/100/1000Base-T Gigabit uplink IP- (LTP-8X)
3	Combo GE 0..3	4 SFP- 1000Base-X uplink IP- (LTP-4X)
		4 RJ-45 10/100/1000Base-T Gigabit uplink IP- (LTP-4X)
		4..7 4 SFP- 1000Base-X uplink IP- (LTP-8X)
		4 RJ-45 10/100/1000Base-T Gigabit uplink IP- (LTP-8X)
4	10G/1G 0..1	2 SFP- 10GBase/1000Base-X uplink IP-
5	PON	4 SFP xPON 2,5 G (LTP-4X)
		8 SFP- xPON 2,5 G (LTP-8X)
6	Power	
7	Status	
8	F	:
		• 10 ;
		• 10 .
		CLI .

2 , , LTP rev.C/rev.D

2 — , LTP rev./rev.D

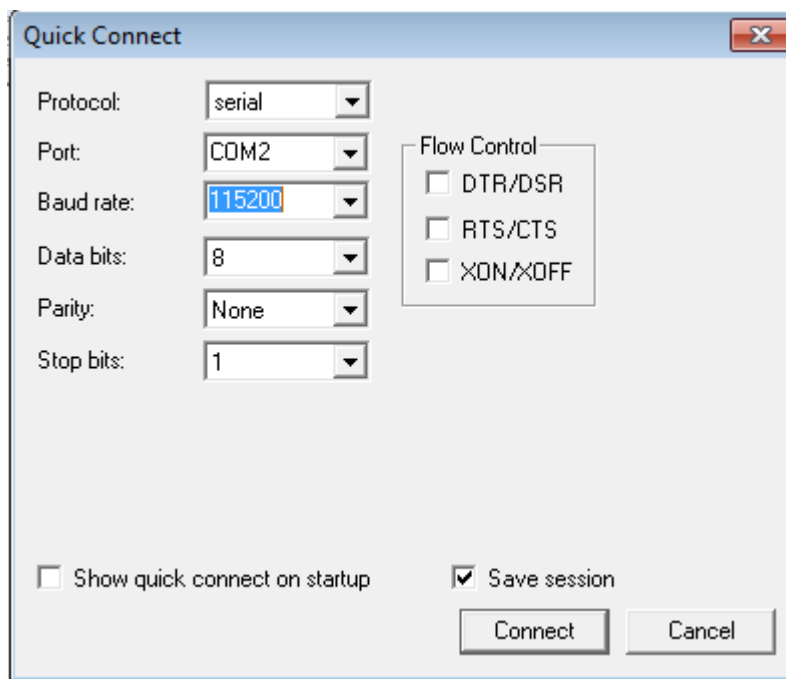
1	Power	
2	Status	
3	Fan	
4	RPS	

5	Console	: • • RX • GND • GND • TX • •
6	F	: • 10 ; • 10 . CLI .
7	GE Port 0..3	4 RJ-45 10/100/1000Base-T Gigabit uplink IP- (LTP-8X)
8	Combo GE 0..3	4 SFP- 1000Base-X uplink IP- (LTP-4X)
		4 RJ-45 10/100/1000Base-T Gigabit uplink IP- (LTP-4X)
		4 SFP- 1000Base-X uplink IP- (LTP-8X)
		4 RJ-45 10/100/1000Base-T Gigabit uplink IP- (LTP-8X)
9	10G/1G 0..1	2 SFP- 10GBase/1000Base-X uplink IP-
10	PON	4 SFP- xPON 2,5 G (LTP-4X)
		8 SFP- xPON 2,5 G (LTP-8X)

:

	Baud Rate	115200
	Data Bits	8
	Parity	
	Stop Bits	1
	Flow Control	

SecureCRT 3.



3 — SecureCRT

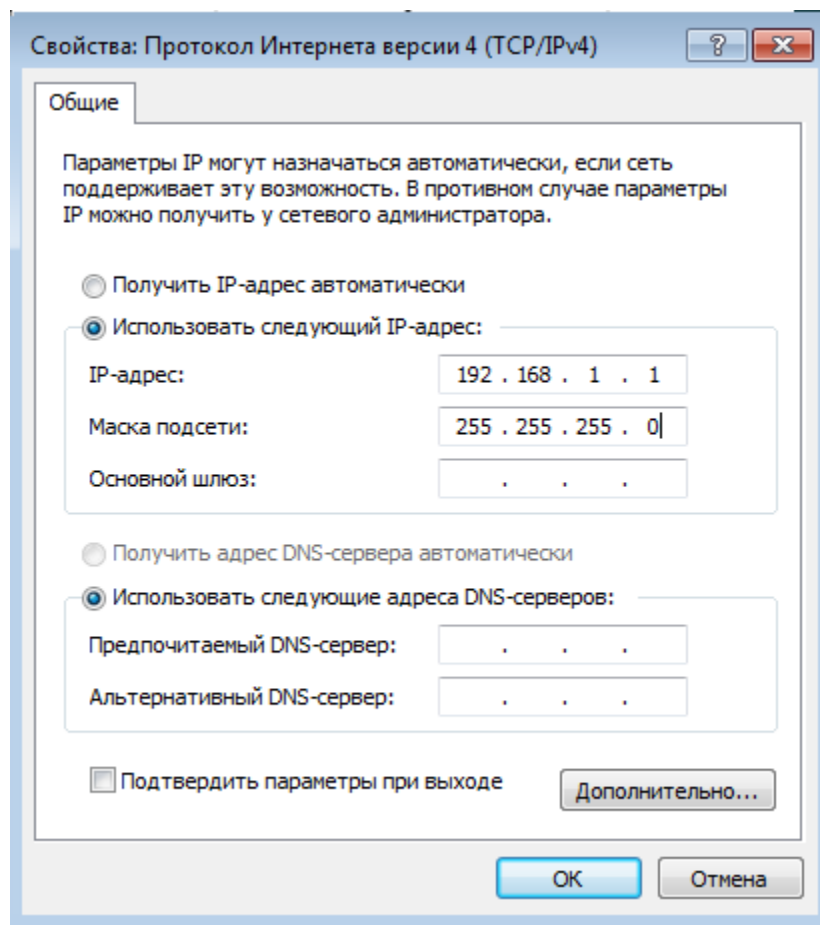
:

```
*****
*   Optical line terminal LTP-4X rev.B   *
*****
LTP-4X login:
```

: admin/password.

Telnet/SSH

Ethernet- GE/ComboGE . IP- LTP — 192.168.1.2/24. 192.168.1.1 255.255.255.0 4.



4 — IP

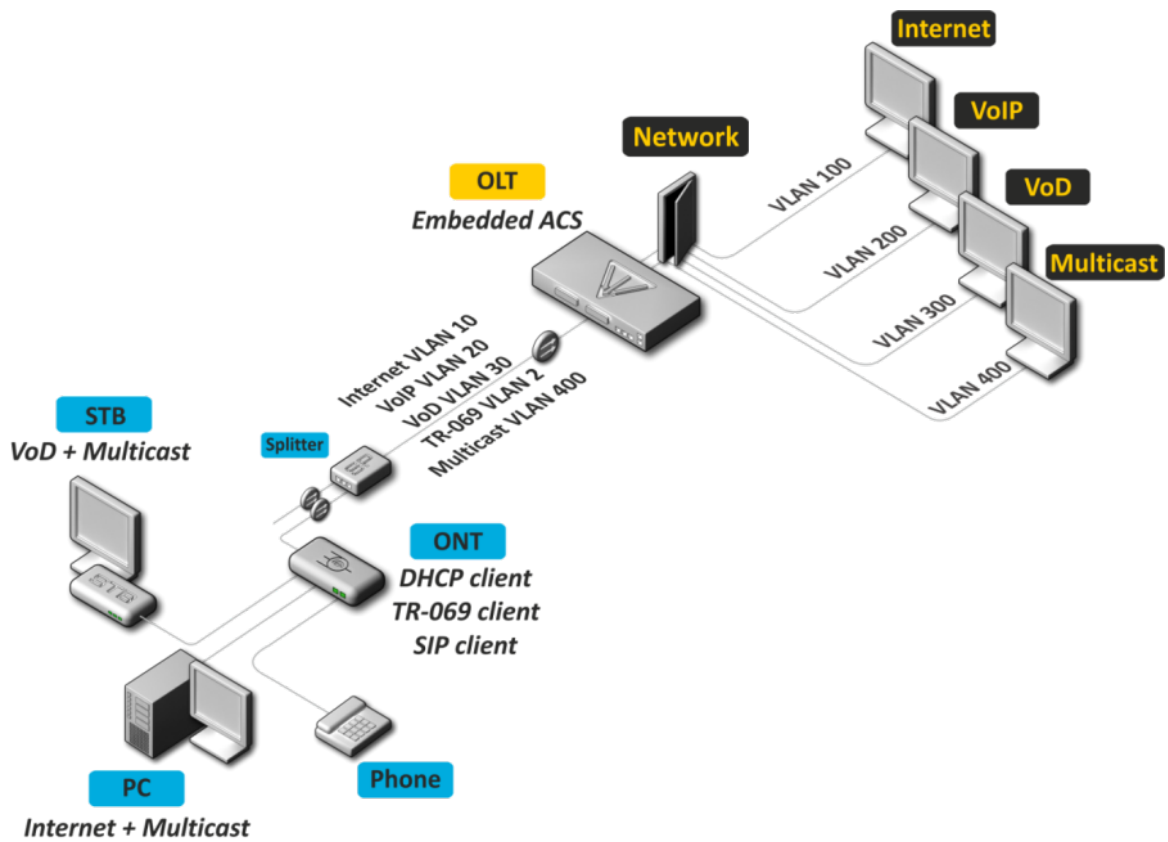
```
telnet ssh 192.168.1.2 .
```

```
*****
*   Optical line terminal LTP-4X rev.B   *
*****
LTP-4X login:
```

```
: admin/password.
```

EasyMode

, 5.



5 — EasyMode

- IPoE. DHCP 82.
- vlan--. vlan.
- .
- multicast vlan. Unicast IPTV (Video-On-Demand, VoD) multicast.
- Multicast-

EasyMode



EasyMode . , .

EasyMode .

, :

IP LTP	192.168.1.2
	255.255.255.0
VLAN	1
Gateway	
ACS VLAN (TR-069)	2
Internet VLAN	100
VoIP VLAN	200
VoD VLAN	300

Multicast VLAN	400
Option82 Circuit-Id	
Option82 Remote-Id	

EasyMode , **easy-mode.** , .

 , , , .

```
LTP-4X# easy-mode
  Enabling easy-mode will delete current configuration. Are you sure? (y/n)  y
  Configured easy-mode...
  Easy mode enable successfully
LTP-4X#
```

6.3 7 .

LTP, VLAN DHCP 82 *Wizard.* , .
Wizard **easy-mode wizard.** , .

```
LTP-4X# easy-mode wizard
  Enabling easy-mode will delete current configuration. Are you sure? (y/n)  y
Customize easy-mode configuration:
< ... >
```

VLAN

VLAN, . VLAN Ethernet-, VLAN ACS .
, , **N** . , , <Enter>.
VLAN :

ACS VLAN	2 ()
Internet VLAN	1001
VoIP VLAN	1002
VoD VLAN	1003
Multicast VLAN	3

```
Current VLAN configuration:
ACS VLAN ID: 2
Internet VLAN ID: 100
VoIP VLAN ID: 200
VoD VLAN ID: 300
Multicast VLAN ID: 400
Do you want to change VLAN configuration? (y/N):  y
  Enter ACS service VLAN ID (leave blank for default) [2]:
  Enter Internet service VLAN ID (leave blank for default) [100]: 1001
  Enter VoIP service VLAN ID (leave blank for default) [200]: 1002
  Enter VoD service VLAN ID (leave blank for default) [300]: 1003
  Enter Multicast VLAN ID (leave blank for default) [400]: 3
```


management LTP

LTP. , **N** . , , <Enter>.
management :

Management IP	10.189.55.19
---------------	--------------


Management mask	255.255.255.0
Management gateway	10.189.55.254
Management vid	189

```
Current management settings:
IP: 192.168.1.2
Mask: 255.255.255.0
Gateway: 0.0.0.0
Management VLAN ID: 1
Do you want to change management configuration?
Attention, it may cause disconnection from remote sessions! (y/N): y
Enter management IP (leave blank for default) [192.168.1.2]: 10.189.55.19
Enter management mask (leave blank for default) [255.255.255.0]:
Enter management gateway (leave blank for default) [0.0.0.0]: 10.189.55.254
Enter management VLAN ID (leave blank for default) [1]: 189
```

 VLAN ACS. :

Error: ACS VLAN intersects with management VLAN. Try again.

VLAN.

 IP ACS.

ACS 192.168.200.1/21. :

Error: ACS network intersects with management network. Try again.

IP-.

DHCP Relay Agent (option 82)

— DHCP 82 . . . 82, , N .
Circuit-Id Remote-Id.

Circuit-Id	%HOSTNAME%%PONSERIAL%%VLAN0%
Remote-Id	-

, . . . :

%HOSTNAME%	LTP
%MNGIP%	IP-
%GPON-PORT%	GPON ONT
%ONTID%	ONT GPON-
%PONSERIAL%	ONT
%GEMID%	GEM
%VLAN0%	() Vlan
%VLAN1%	() Vlan
%MAC%	MAC-
%OLTMAC%	MAC- OLT
%OPT60%	60

%OPT82_CID%	Circuit-Id 82
%OPT82_RID%	Remote-Id 82
%DESCR%	ONT

Circuit-Id Remote-Id , , N .

, IP- LTP 10.189.55.19, ONT 1 GPON ID 15. , :

Circuit-Id	1-15
Remote-Id	10.189.55.19

```
Do you want to use option 82? (y/N): y
Current configuration dhcp-ra overwrite-option 82:
Circuit id: %HOSTNAME%-%PONSERIAL%-%VLAN0%
Remote id: -
Do you want to setup Option 82 format?
(answer No for default option) (y/N): y
Enter Circuit ID (leave blank for empty option): %GPON-PORT%-%ONTID%
Enter Remote ID (leave blank for empty option): %MNGIP%
```

:

```
Configured easy-mode...
Easy mode enable successfully
```

, save. .

```
LTP-4X# save
.....
Configuration successfully saved to file
```

ONT

ONT

ONT, ONT . EasyMode. NTU-1, OMCI, *easy-ONT*. ONT *easy-RG*.

```
LTP-8X# show running-config gpon olt
configure terminal
gpon olt auto-activation ont enable
gpon olt auto-activation ont default template "easy-RG"
gpon olt auto-activation ont type NTU-1 template "easy-ONT"
exit
commit
LTP-8X#
```

ONT

EasyMode ONT :

- 1. ONT

```
LTP-8X(config)# no gpon olt auto-activation ont enable
```

- 2. ONT, GPON-, . , GPON-, . ONT **show interface ont 0-7 unactivated** (LTP-4X **show interface ont 0-3 unactivated**).

```
LTP-4X# show interface ont 0-3 unactivated

GPON-port 0 has no unactivated ONTs
GPON-port 1 has no unactivated ONTs
-----
GPON-port 2 ONT unactivated list
-----

  ##          Serial  ONT ID  GPON-port  Status  ...
  1  454C545862000100    n/a      2  UNACTIVATED  ...
  2  454C545866000101    n/a      2  UNACTIVATED  ...

GPON-port 3 has no unactivated ONTs
```

3. ONT ID GPON-. **show interface ont 2 unconfigured.**

```
LTP-4X# show interface ont 2 unconfigured

GPON-port 2 ONT unconfigured list: 2-127
Total ONT count: 126
LTP-4X#
```

4. . **configure terminal.**

```
LTP-4X# configure terminal
LTP-4X(config)#
```

5. ONT ID ONT. **interface ont 2/2.**

```
LTP-4X(config)# interface ont 2/2
LTP-4X(config)(if-ont-2/2)#
```

6. ONT :easy-ONT NTU-1 easy-RG . ONT.

```
LTP-4X(config)(if-ont-2/2)# serial 454C545862000100
LTP-4X(config)(if-ont-2/2)# template easy-ONT
LTP-4X(config)(if-ont-2/2)# exit
LTP-4X(config)#
```

7. 5-6 ONT.

```
LTP-4X(config)# interface ont 2/3
LTP-4X(config)(if-ont-2/3)# serial 454C545866000101
LTP-4X(config)(if-ont-2/3)# template easy-RG
LTP-4X(config)(if-ont-2/3)# exit
```

8. , **commit save.**

```
LTP-4X(config)# exit
LTP-4X# commit
Changes successfully committed (2 chunks)
LTP-4X# save
.....
Configuration successfully saved to file
LTP-4X#
```



...

ONT

RG ONT ACS . ACS « » Eltex ACS, <https://eltex-co.ru/catalog/management>.
ONT 454C545866000101 101 **secret** SIP- **sip.test.pon** :

1. ACS- **acs**.

```
LTP-4X# acs
LTP-4X(ac)#
```

2. ONT ONT **ont ont 454C545866000101**.

```
LTP-4X(ac)#ont
LTP-4X(ac-ont)#ont 454C545866000101
LTP-4X(ac-ont-sn='454C545866000101')#
```

3. , SIP-, :

```
LTP-4X(ac-ont-sn='454C545866000101')#set private sip_proxy sip.test.pon
Host property has been updated: 'InternetGatewayDevice.Services.VoiceService.1.VoiceProfile.1.SIP.
UserAgentDomain' = 'sip.test.pon'
Host property has been updated: 'InternetGatewayDevice.Services.VoiceService.1.VoiceProfile.1.SIP.
RegistrarServer' = 'sip.test.pon'
Host property has been updated: 'InternetGatewayDevice.Services.VoiceService.1.VoiceProfile.1.SIP.
ProxyServer' = 'sip.test.pon'
Host property has been updated: 'InternetGatewayDevice.Services.VoiceService.1.VoiceProfile.1.SIP.
OutboundProxy' = 'sip.test.pon'
Ok
LTP-4X(ac-ont-sn='454C545866000101')#set private voicel_enable TRUE
Host property has been updated: 'InternetGatewayDevice.Services.VoiceService.1.VoiceProfile.1.Line.1.
Enable' = 'TRUE'
Ok
LTP-4X(ac-ont-sn='454C545866000101')#set private voicel_number 101
Host property has been updated: 'InternetGatewayDevice.Services.VoiceService.1.VoiceProfile.1.Line.1.SIP.
AuthUserName' = '101'
Host property has been updated: 'InternetGatewayDevice.Services.VoiceService.1.VoiceProfile.1.Line.1.
DirectoryNumber' = '101'
Host property has been updated: 'InternetGatewayDevice.Services.VoiceService.1.VoiceProfile.1.Line.1.
CallingFeatures.CallerIDName' = '101'
Host property has been updated: 'InternetGatewayDevice.Services.VoiceService.1.VoiceProfile.1.Line.1.SIP.
URI' = '101'
Ok
LTP-4X(ac-ont-sn='454C545866000101')#set private voicel_password secret
Host property has been updated: 'InternetGatewayDevice.Services.VoiceService.1.VoiceProfile.1.Line.1.SIP.
AuthPassword' = 'secret'
Ok
```

4. **commit ONT reconfigure**.

```
LTP-4X(ac-ont-sn='454C545866000101')#commit
LTP-4X(ac-ont-sn='454C545866000101')#reconfigure
Ok
LTP-4X(ac-ont-sn='454C545866000101')#
```

5. ACS **exit**.

```
LTP-4X(ac-ont-sn='454C545866000101')#exit
LTP-4X(ac-ont)#exit
LTP-4X(ac)#exit
LTP-4X#
```

ONT EasyMode

EasyMode, ONT, LTP, .

:

- Internet

IPoE- u-VLAN 10 DHCP- IGMP proxy. LAN : 1 2 ONT c 4 (NTU-RG), 1 ONT 2 (NTU-2V(C), NTU-2W). LAN- . Upstream IGMP report'
VLAN. multicast VLAN *ip igmp proxy* LTP.

- VoIP

IPoE u-VLAN 20. SIP-.

- VoD

Bridge u- VLAN 30 LAN- 3, 4 ONT c 4 (NTU-RG), 2 ONT 2 (NTU-2V(C), NTU-2W).

ONT **easy-mode.**

```
LTP-4X# configure terminal
LTP-4X(config)# interface ont 2/2
LTP-4X(config)(if-ont-2/2)# easy-mode
LTP-4X(config)(if-ont-2/2)# exit
LTP-4X(config)# exit
LTP-4X# commit
Changes successfully committed (1 chunk)
```

. .

no easy-mode send omci restore interface ont.

```
LTP-4X# configure terminal
LTP-4X(config)# interface ont 2/2
LTP-4X(config)(if-ont-2/2)# no easy-mode
LTP-4X(config)(if-ont-2/2)# exit
LTP-4X(config)# exit
LTP-4X# commit
Changes successfully committed (1 chunk)
LTP-4X# send omci restore interface ont 2/2
[ONT2/2] was successfully restored to default config and rebooted
```

« «» :

: <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>