



Optical Line Terminals

LTP-8X, LTP-4X

ACS

CLI command reference guide, Version 9.4 (02.11.2022)

GPON equipment

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1 Introduction

1.1 Annotation


This manual describes the ACS mode CLI commands for the LTP-4X rev.B, LTP-8X rev.B, LTP-4X rev.C, LTP-8X rev.C, LTP-4X rev.D, LTP-8X rev.D (further LTP-X) administrator. Command Line Interface (CLI) allows to perform the device management and monitor its operation and status. You will require the PC application supporting Telnet protocol operation or direct connection via the console port (e.g. HyperTerminal).


1.2 Target audience

The CLI command guide is designed for technicians who install, configure, monitor and maintain LTP-X devices via the CLI configurator. Qualified technical personnel should be familiar with the operation basics of TCP/IP & UDP/IP protocol stacks and Ethernet and GPON networks design concepts.

1.3 Symbols

Notes and warnings

 Notes contain important information, tips or recommendations on device operation and configuration.

 Warnings are used to inform the user about situations that may cause harm to a software and hardware complex, lead to malfunction or data loss.

2 ACS description

TR-069 is a technical specification that defines the Internet protocol for management of network equipment – CWMP (CPE WAN Management Protocol). The standard was published in 2004 by the DSL Forum consortium, later renamed Broadband Forum. The goal is to standardize and unify the principles and approaches to subscriber equipment management from different manufacturers.

TR-069 protocol provides for implementation of automatic control (ACS, Auto-Configuration Server) in the carrier network, which organizes interaction with subscriber's modems, routers and other local network equipment via IP protocols, updating of drivers and firmware, diagnostics of equipment and lines status and making necessary settings. SSL and TLS protocols are used to provide secure access and management.

According to the specification, on the carrier's territory must be located Auto Configuration Server (ACS), which organizes interaction with subscriber's equipment, processing requests from devices and capable of connecting additional services. Session can be initiated from both the CPE side and the ACS side.

To be able to control the device, it must have an IP address regardless of the type of device (Bridge, Router, IP-Phone).

Switching to the ACS configuration mode is performed from the root menu with the **acs** command.

The figure 1 shows the interrelation of command modes that are accessed from the **ACS** mode.

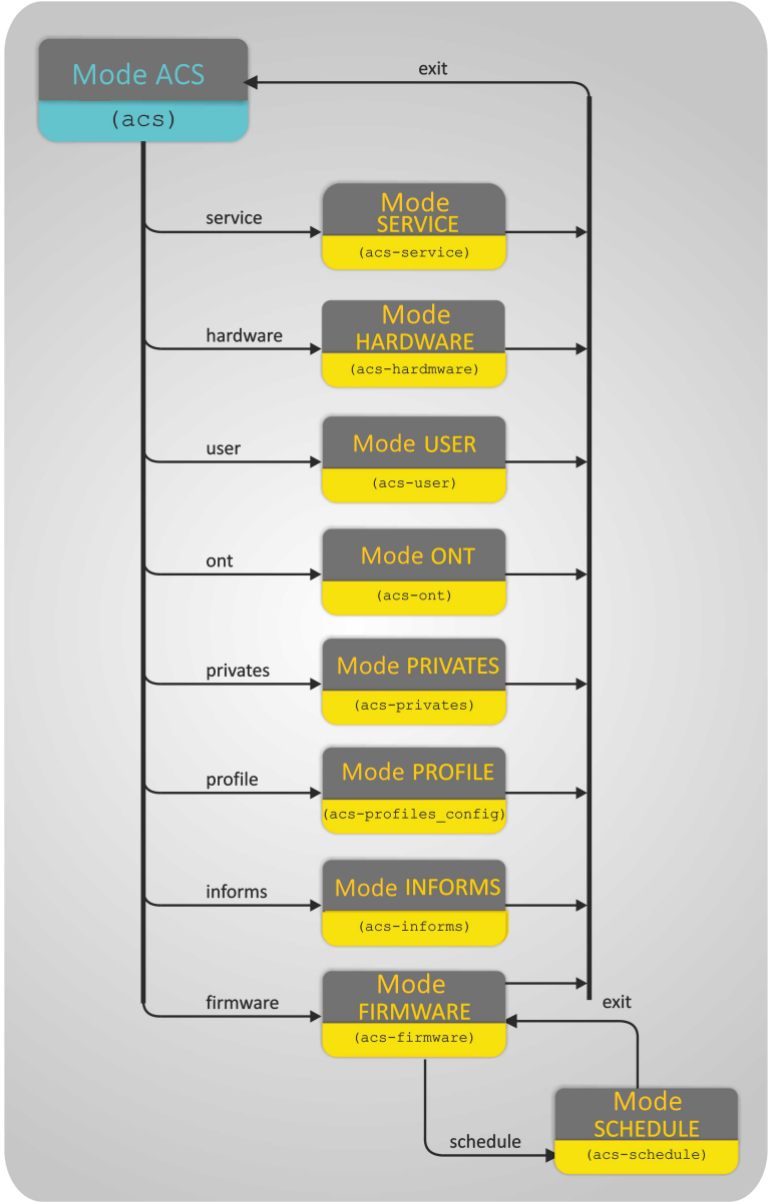


Figure 1 – Hierarchy of command modes of the acs block

Special aspects of command execution:

- The list that contains more than 50 items will be displayed in parts:
More? Enter – next line; Space – next page; Q – quit; R – show the rest.

When <ENTER> key is pressed, the next list line will be shown;
 When <SPACE> key is pressed, the next list page will be shown (50 items max.);
 When **R** character is entered, the list will be displayed to the last item without pagination;
 When **Q** character is entered, the list display will be aborted.

To proceed to configuration of system parameters, execute the **acs** command:

Table 1 – CLI ACS main level commands

Command	Parameter	Value	Action
backup	<Filename> <IP address>		Upload configuration file to the TFTP server
check	<Version>	1..214748 3647	The command is not used
debug	<VALUE>	on/off	Enable/disable cli interface debugging
default			Reset ACS configuration to default settings
dump script			Display the current server configuration
dump script	[filename]	1..250	Save server configuration file as text. The file is saved in the LTP-X file system
exit			Exit the current CLI session
firmware			Go to the Firmware section
hardware			Go to the Hardware section
informs			Go to the Informs section
ont			Go to the ONT section
privates			Go to the Privates section
profile			Go to the Profile section
restore	<File> <IP>	Source filepath (1..250) Source IP	Download ACS configuration from the TFTP server
service			Go to the Service section
user			Go to the User section

The commands available in all configuration modes

Table 2 – Basic commands available in all configuration modes

Command	Action
exit	Exit from any configuration mode to the upper level in CLI command hierarchy
top	Go back to the root menu

Table 3 – Command parameters system

Designation	Parameter type
<VALUE>	Mandatory parameter, specified in any events
[Value]	Optional parameter, defined when necessary

3 Firmware. Firmware parameters configuration mode

3.1 Adding a firmware update profile

Description: *This command adds a new firmware update profile.*

Command: **add firmware**

Command syntax: add firmware <Firmware ID>

Parameters:

<Firmware ID> – firmware update profile identifier, values in the range from 1 to 32.

Example:

add firmware 1

Execution result:

Ok

Meaning: *Firmware update profile with index 1 has been successfully added.*

3.2 Adding a new equipment model

Description: *This command adds a new equipment model to the specific firmware update profile.*

Command: **add hardware**

Command syntax: add hardware <Firmware ID> <Hardware name>

Parameters:


<Firmware ID> – firmware update profile identifier, values in the range from 1 to 32;

<Hardware name> – model name, no more than 250 characters.

Example:

add hardware 2 NTP-RG-1402G-W

Meaning: *NTP-RG-1402G-W hardware model has been added to the firmware update profile with index 2.*

 When a file is assigned to the update profile, the model list is automatically filled in.

3.3 Assigning equipment configuration profile to firmware update profile

Meaning: *This command assigns configuration profile for the specific firmware update profile.*

Command: **add profile**

Command syntax: add profile <Firmware ID> <Profile name>

Parameters:

<Firmware ID> – firmware update profile identifier, values in the range from 1 to 32;

<Profile name> – configuration profile name, 250 characters max.

Example:

add profile 2 NTU-2V

Meaning: *The "NTU-2V" configuration profile is assigned to the firmware update profile with index 2.*

3.4 ONT firmware file downloading

Description: *This command copies the firmware file from the TFTP server to the internal LTP memory.*

Command: **copy**

Command syntax: copy <IP> <File>

Parameters:

<IP> – TFTP server IP address;

<File> – firmware file name, 250 characters max.

Example:

copy 192.168.5.100 ntu-rg-1402-3.24.0.1588.bin

Meaning: *The command to copy the firmware file ntu-rg-1402-3.24.0.1588.bin from the TFTP server 192.168.5.100 to the internal LTP memory is provided.*

3.5 Settings deletion

3.5.1 Deleting all firmware files

Description: *This command deletes all ONT firmware files uploaded to the device.*

Command: **delete all files**

Command syntax: delete all files

Parameters: there are no parameters for this command.

3.5.2 Deleting a specified firmware file

Description: *This command deletes the firmware file by its name.*

Command: **delete file**

Command syntax: delete file <Filename>

Parameters:

<Filename> – file name, 250 characters max.

3.5.3 Deleting a firmware update profile

Description: *This command deletes the firmware update profile .*

Command: **delete firmware**

Command syntax: delete firmware <Firmware ID>

Parameters:

<Firmware ID> – firmware update profile identifier, values in the range from 1 to 32.

3.5.4 Deleting a device model from firmware update profile

Description: *This command deletes the device model from the list of the specific firmware update profile.*

Command: **delete hardware**

Command syntax: delete hardware <Firmware ID> <Hardware name>

Parameters:

<Firmware ID> – firmware update profile identifier, values in the range from 1 to 32;
<Hardware name> – model name.

3.5.5 Deleting update configuration profiles from firmware update profile

Description: *This command deletes ONT configuration profile from the firmware update profile.*

Command: **delete profile**

Command syntax: delete profile <Firmware ID> <Profile name>

Parameters:

<Firmware ID> – firmware update profile identifier, values in the range from 1 to 32;
<Profile name> – configuration profile name.

Example:

delete profile 1 NTU-2V

Meaning: *The "NTU-2V" configuration profile is deleted from the firmware update profile with index 1.*

3.6 Switching to firmware update profile configuration

Description: *This command transitions to the configuration of the selected profile.*

Command: **firmware**

Command syntax: firmware <Firmware ID>

Parameters:

<Firmware ID> – firmware update profile identifier, values in the range from 1 to 32.

3.6.1 Adding a new device model (ONT)

Command syntax: add hardware <Hardware name>

Parameters:

<Hardware name> – model name, 250 characters max.

 When a file is assigned to the update profile, the model list is automatically filled in.

Command syntax: add profile <Profile name>

3.7 Adding configuration profiles

Parameters:

<Profile name> – configuration profile name, 250 characters max.

3.7.1 Deleting the device model (ONT)

Command syntax: delete hardware <Hardware name>

Parameters:

<Hardware name> – hardware model name, 250 characters max.

3.7.2 Deleting configuration profiles

Command syntax: delete profile <Profile name>

Parameters:

<Profile name> – configuration profile name, 250 characters max.

3.7.3 Setting a firmware file for the firmware update profile

Command syntax: set file <Filename>

Parameters:

<Filename> – firmware file name, 250 characters max.

3.7.4 Setting a firmware file (by name) for the firmware update profile


Command syntax: set filename <Filename>

Parameters:

<Filename> – firmware file name, 250 characters max.

Example:

set filename ntu-rg-1402-3.24.0.1588.bin

 The set filename command is a service command and is used if the firmware file does not contain information about the ONT version or type.

3.7.5 Enable firmware update schedule operation

Command syntax: set schedule <Schedule mode>

Parameters:

<Schedule mode> – schedule status:

- *Enabled* – ONT firmware will be updated on schedule;
- *Disabled* – firmware update will not be performed.

3.7.6 Specify external HTTP server URL

Command syntax: set url <URL>

Parameters:

<URL> – external HTTP server URL, 250 characters max.

3.7.7 Assign firmware version to file specified in this profile

Command syntax: set version <Version>

Parameters:

<version> – firmware version, 250 characters max.

3.7.8 Display full information on specific profile

Command syntax: show config

Parameters: there are no parameters for this command.

3.7.9 Display list of models, that the current profile will be applied to

Command syntax: show hardware

Parameters: there are no parameters for this command.

3.7.10 List the assigned configuration profiles for the firmware update profile

Command syntax: show profile


Parameters: there are no parameters for this command.


3.8 Go to firmware update schedule configuration

Description: *This command transitions to the configuration of the update schedule.*

Command: **schedule**

Parameters: there are no parameters for this command.

 This section allows to define a schedule. If all 3 conditions are fulfilled: time, day of week, date, firmware update will be performed.

 For correct schedule operation, check the system time settings on LTP-X.

3.8.1 Adjust daily schedule

Description: *This command allows to set/adjust the daily schedule.*

Command: **set daily**

Command syntax: set daily <Time from> <Time to>

Parameters:

<Time from> – activation time in HH:MM format;

<Time to> – deactivation time in HH:MM format.

Example:

set daily 09:00 19:00

Execution result:

Ok

Meaning: Daily schedule is assigned – active from 9:00 to 19:00.

3.8.2 Adjust activity period

Description: *This command allows to set/adjust the periodic schedule.*

Command: **set period**

Command syntax: `set period <Time from> <Time to>`

Parameters:

<Day from> – activation date, in YYYY-MM-DD format;

<Day to> – deactivation date, in YYYY-MM-DD format.

Example:

set period 2011-09-01 2012-03-01

Execution result:

Ok

Meaning: Schedule is assigned – active from 1 September 2011 to 1 March 2012.

3.8.3 Adjust weekly schedule

Description: *This command allows to set/adjust the weekly schedule.*

Command: **set weekly**

Command syntax: `set weekly <Time from> <Time to>`

Parameters:

<Day from> – activation day, in the range of 1 to 7 (1 – Monday, 2 – Tuesday, 3 – Wednesday, 4 – Thursday, 5 – Friday, 6 – Saturday, 7 – Sunday);

<Day to> – deactivation day, in the range of 1 to 7.

Example:

set weekly 1 5

Execution result:

Ok

Meaning: Weekly schedule is assigned – active from Monday to Friday.

3.8.4 Define default schedule settings

Description: *This command defines daily/weekly/periodic schedule settings.*

Command: **set default**

Command syntax: `set default <Type>`

Parameters:

<Type> schedule type:

- *Daily – daily;*
- *Period – periodic;*
- *Weekly – weekly.*

Default schedule parameters:

1: *daily 00:00 23:59*

2: *period 2011-06-01 2099-12-31*

3: *weekly 1 7*

3.8.5 Show firmware update schedule settings

Description: *This command shows assigned ACS schedules.*

Command: **show**

Parameters: there are no parameters for this command.

3.9 Configuration of the list of displayed parameters for the command show list

Description: *This command allows you to select fields to be displayed, while viewing the configuration.*

Command: **set mode**

Syntax: set mode <Field num> [Mode] [Length]

Parameters:

<Field num> – field number, field numbers correspond to the following parameters:

1 – hardware identifier;

2 – firmware version;

3 – URL;

4 – firmware file name;

5 – security mode;

6 – version downgrade;

5 – schedule;

6 – hardware (equipment);

7 – profiles;

[Mode] – field display mode:

On – field is displayed (default value);

Off – field is not displayed;

[Length] – field length, from 1 to 250 characters:

0 is default.

3.10 View update configuration

3.10.1 View file list

Description: *This command is used to view the list of ONT firmware files on the LTP-8X file system.*

Command: **show files**

Command syntax: show files

Parameters: there are no parameters for this command.

3.10.2 View firmware update profile configuration

Description: *This command is used to view full information about the firmware update profile.*

Command: **show firmware**

Command syntax: show firmware <Firmware ID>>

Parameters:

<Firmware ID> – firmware update profile identifier, values in the range from 1 to 32.

3.10.3 View the list of device models assigned to this firmware update profile

Description: *This command is used to view the list of equipment, for which the specified profile is intended.*

Command: **show hardware**

Command syntax: show hardware <Firmware ID>

Parameters:

<Firmware ID> – firmware update profile identifier, values in the range from 1 to 32.

3.10.4 View the list of firmware update profiles

Description: *This command is used to view the full list of firmware update profiles and their configuration.*

Command: **show list**

Command syntax: show list

Parameters: there are no parameters for this command.

3.10.5 View configuration profiles assigned to a specified firmware update profile

Description: *This command is used to view the list of assigned configuration profiles for this firmware update profile.*

Command: **show profile**

Command syntax: show profile <Firmware ID>

Parameters:

<Firmware ID> – firmware identifier, values in the range from 1 to 32.

Example 1:

show profile 1

Command execution result:

```
Profiles for firmware '1'
Name Inform interval Script name Base profile Description
1: 1 3600 ntp-rg-51
2: 2 3600 ntp-rg-W-51
```

Meaning: 2 configuration profiles are assigned to the firmware update profile with index 1.

Example 2:

show profile 2

Command execution result:

```
Profiles for firmware '1'
Name Inform interval Script name Base profile Description
1: 3 3600 ntp-2
```

Meaning: One configuration profile is assigned to the firmware update profile with index 2.

3.11 Viewing information display parameters of the command show list

Description: *This command is used to view the list of fields to be displayed and their size when executing the command show list.*

Command: **show mode**


Command syntax: show mode


Parameters: there are no parameters for this command.

Command execution result:

```
(acs-firmware)show mode
Firmware show mode:
1: Firmware ID - on [11]
2: Version - on [20]
3: URL - off [30]
4: Filename - on [40]
5: Schedule - on [10]
6: Safe-mode - on [10]
7: Downgrade - on [10]
8: Hardware - on [20]
9: Profiles - on [20]
```

4 Hardware – hardware parameters configuration mode.

 Service section. This menu allows to configure the hardware list.

 When new models are added, their parameters are filled in automatically.

4.1 Adding a new equipment model

Description: *This command adds a new equipment model.*

Command: **add hardware**

Command syntax: `add hardware <Name>`

Parameters:

<Name> – equipment name, no more than 250 characters.

4.2 Deleting equipment

Description: *This command deletes an equipment model.*

Command: **delete hardware**

Command syntax: `delete hardware <Name>`

Parameters:

<Name> – equipment name, no more than 250 characters.

4.3 Switching to equipment parameters configuration

Description: *This command transitions to the mode of editing parameters of the equipment model.*

Command: **hardware**

Command syntax: `hardware <Name>`

Parameters:

<Name> – equipment name, no more than 250 characters.

Example:

hardware NTP-RG-1402G

Command execution result:

```
(acs-hardware-name='NTP-RG-1402G')
```

4.3.1 Equipment parameters configuration: assignment of class

Command: **set class**

Command syntax: `set class <Product class>`

Parameters:

<Product class> – product class, 250 characters max.

Example:

(acs-hardware-name='NTP-RG-1402G')set class NTP-RG-1402G

Meaning: *The product class «NTP-RG-1402G» is assigned to the NTP-RG-1402G equipment model.*

4.3.2 Equipment parameters configuration: manufacturer

Command: **set manufacturer**

Command syntax: set manufacturer <Manufacturer OUI>

Parameters:

<Manufacturer OUI> – manufacturer's unique identifier, 250 characters max.

Example:

(acs-hardware-name='NTP-RG-1402G')set manufacturer Eltex

Meaning: Manufacturer "Eltex" has been assigned for the equipment model NTP-RG-1402G.

4.3.3 Equipment parameters configuration: hardware version

Command: **set version**

Command syntax: set version <Hardware version>

Parameters:

<Hardware version> – hardware version, 250 characters max.

Example:

(acs-hardware-name='NTP-RG-1402G')set version 1v3

Meaning: Hardware version 1v3 has been assigned for the equipment model NTP-RG-1402G.

4.3.4 Equipment parameters configuration: default profile

Command: **set profile**

Command syntax: set profile <profile name>

Parameters:

<profile name > – profile name, 250 characters max.

Example:

(acs-hardware-name='NTP-RG-1402G')set profile new_ont

Meaning: For the NTP-RG-1402G equipment model, the default profile new_ont is assigned.

4.3.5 View hardware information

Command: **show config**

Command syntax: show config

Parameters: there are no parameters for this command.

Command execution result:

```
Information about hardware:
ID = 2
Display name = "NTP-RG-1402G"
Manufacturer OUI = "A8F94B"
Product class = "NTP-RG-1402G"
Manufacturer = "Eltex"
Hardware version = "1v3"
```

4.4 Parameter display mode configuration

Description: *This command allows to select fields to be displayed, while viewing the hardware configuration.*

Command: **set mode**

Command syntax: `set mode <Field num> [Mode] [Length]`

Parameters:

<Field num> – field number, field numbers correspond to the following parameters:

1 – hardware identifier;

2 – displayed hardware name;

3 – unique manufacturer identifier;

4 – product class;

5 – manufacturer;

6 – hardware version;

[Mode] – field display mode:

On – field is displayed (default value);

Off – field is not displayed;

[Length] – field length, from 1 to 250 characters:

0 – length is not specified.

4.5 View hardware configuration

4.5.1 View hardware information

Description: *This command is used to view full information about the selected equipment model.*

Command: **show hardware**

Command syntax: `show hardware <Name>`

Parameters:

<Name> – equipment name, no more than 250 characters.

Example:

(acs-hardware)show hardware ntu-2v

Command execution result:

```
Information about hardware:
ID = 1
Display name = "NTU-2V"
Manufacturer OUI = "A8F94B"
Product class = "NTU-2V"
Manufacturer = "Eltex"
Hardware version = "2v2"
```


4.5.2 View the list of equipment models

Description: *This command is used to view the list of equipment models.*

Command: **show list**

Parameters: there are no parameters for this command.

Example of command execution:

```

ID Display name Manufacturer OUI Product class Manufacturer Hardware version
1: 1 NTP-2 A8F94B NTP-2 Eltex 1v2
2: 2 NTP-RG-1402G A8F94B NTP-RG-1402G Eltex 1v3
3: 3 NTP-RG-1402G-W A8F94B NTP-RG-1402G-W Eltex 1v3
4: 4 NTP-RG-1400G A8F94B NTP-RG-1400G
5: 5 NTP-RG-1400G-W A8F94B NTP-RG-1400G-W
6: 6 NTP-RG-1400G-W2 A8F94B NTP-RG-1400G-W2
7: 7 NTP-RG-1402G-W2 A8F94B NTP-RG-1402G-W2
8: 8 NTP-RG-1400GC A8F94B NTP-RG-1400GC
9: 9 NTP-RG-1400GC-W A8F94B NTP-RG-1400GC-W
10: 10 NTP-RG-1400GC.. A8F94B NTP-RG-1400GC..
11: 11 NTP-RG-1402GC A8F94B NTP-RG-1402GC
12: 12 NTP-RG-1402GC-W A8F94B NTP-RG-1402GC-W
13: 13 NTP-RG-1402GC.. A8F94B NTP-RG-1402GC..
14: 14 NTP-RG-1402GB A8F94B NTP-RG-1402GB
15: 15 NTP-RG-1402GB-W A8F94B NTP-RG-1402GB-W
16: 16 NTP-RG-1402GB.. A8F94B NTP-RG-1402GB..
17: 17 NTP-RG-1402GCB A8F94B NTP-RG-1402GCB
18: 18 NTP-RG-1402GC.. A8F94B NTP-RG-1402GC..
19: 19 NTP-RG-1402GC.. A8F94B NTP-RG-1402GC..
20: 20 96816GWV A8F94B 96816GWV
21: 21 96816PVWM A8F94B 96816PVWM
22: 22 96812PG A8F94B 96812PG
23: 23 NTP-2C A8F94B NTP-2C

```

4.5.3 View the configuration of the command to display the list of configured equipment models: show list

Description: *This command is used to view the status of the fields when displaying configuration parameters show list.*

Command: **show mode**

Command syntax: show mode

Parameters: there are no parameters for this command.

Example of command execution:

```

Hardware model show mode:
1: ID - on [10]
2: Display name - on [15]
3: Manufacturer OUI - on [20]
4: Product class - on [15]
5: Manufacturer - on [15]
6: Hardware version - on [16]

```

5 Informs – ACS information message settings

5.1 Message deletion

Description: *This command allows to delete Inform ACS messages during the specified period or delete all messages.*

Command: **delete**

Command syntax: delete [from= Date from] [to= Date to]

Filters:

[from= Date from] start date in the YYYY-MM-DD format;

[to= Date to] end date in the YYYY-MM-DD format.

5.2 Parameter display mode configuration

Description: *This command allows to select fields to be displayed, while viewing the information using the show list command.*

Command: **set mode**

Command syntax: set mode <fld num> [mode] [Length]

Parameters:

<fld num> – field number, field numbers correspond to the following parameters:

1 – message identifier;

2 – device serial number;

3 – event on the device;

4 – current date and time;

5 – manufacturer;

6 – manufacturer identifier;

7 – device model;

8 – MaxEnvelopes ;

9 – restart counter;

10 – general information on device;

11 – specification version;

12 – hardware version;

13 – firmware version;

14 – initialization version;

15 – connection request link;

16 – device state;

17 – interface;

18 – device IP address;

[mode] – field display mode:

On – field is displayed (default value);

Off – field is not displayed;

[Length] – field length, from 1 to 250 characters.

5.3 View parameters

5.3.1 View the Informs log for the specified device

Description: *This command allows to view the list of information messages related only to the specified device.*

Command: **show by serial**

Command syntax: show by serial <Serial>

Filters:

<Serial> – ONT serial number, 250 characters max.

Example:

(acs-informs)show by serial 454C54581A010F91

Command execution result:

```
ID SerialNumber Events CurrentTime SoftwareVersion IPAddress
1: 41454C54581A010F91 2 PERIODIC 2015-08-11 15:25:50 3.22.0.2452
2: 42454C54581A010F91 2 PERIODIC 2015-08-11 15:37:36 3.22.0.2452
```

Meaning: *Displays the list of information messages for ONT number 454C54581A010F91.*

5.3.2 View Inform message information

Description: *This command allows to view the full information about the information message with the specified identifier.*

Command: **show inform**

Command syntax: show inform <Inform ID>

Filters:

<Inform ID> – information message identifier, value in the range 1..2147483647.

Example:

(acs-informs) show inform 41

Command execution result:

```
(acs-informs)show inform 41
Inform (ID=41):
ID = 41
SerialNumber = "454C54581A010F91"
Events = "2 PERIODIC"
CurrentTime = "2015-08-11 18:31:13"
Manufacturer = "Eltex"
OUI = "A8F94B"
ProductClass = "NTP-RG-1402G-W:rev.C"
MaxEnvelopes = 1
RetryCount = 0
DeviceSummary = "InternetGatewayDevice:1.1[](Baseline:1, EthernetLAN:1, USBLAN:1,
WiFiLAN:1, ADSLWAN:1, Time:1, IPPing:1, ATMLoopback:1, DSLDiagnostics:1,
DeviceAssociation:1), VoiceService:1.0[1](Endpoint:1, SIPEndpoint:1)"
```

```

SpecVersion = "1.0"
HardwareVersion = "1v10"
SoftwareVersion = "3.22.0.2452"
ProvisioningCode = "33"
ConnectionRequestURL = "http://192.168.200.155:30005/"
ParameterKey = ""
Interface = ""
IPAddress = ""
Parameters of inform:
Name 1 =
"InternetGatewayDevice.X_ITU_T_ORG.G_984_4.Layer3DataServices.IpHostConfigData.
1.CurrentAddress"
Value 1 = "3232286875"
(acsc-informs)

```

Meaning: Detailed information about message with identifier 41 is displayed.

5.3.3 View Informs log

Description: *This command is used to view the list of inform messages.*

Command: **show list**

Command syntax: show list [from= Date from] [to= Date to]

Filters:

[from= Date from] start date in the YYYY-MM-DD format;
[to= Date to] end date in the YYYY-MM-DD format.

5.3.4 View the parameter display mode

Command: **show mode**

Command syntax: show mode

Parameters: there are no parameters for this command.

Command execution result:

```

Informs show mode:
 1: ID - on [6]
 2: SerialNumber - on [13]
 3: Events - on [20]
 4: CurrentTime - on [20]
 5: Manufacturer - off [10]
 6: OUI - off [10]
 7: ProductClass - off [20]
 8: MaxEnvelopes - off [2]
 9: RetryCount - off [3]
10: DeviceSummary - off [30]
11: SpecVersion - off [11]
12: HardwareVersion - off [15]
13: SoftwareVersion - on [15]
14: ProvisioningCode - off [16]
15: ConnectionRequestURL - off [20]
16: ParameterKey - off [20]
17: Interface - off [30]
18: IPAddress - on [15]

```

6 Ont – ONT parameters configuration mode

6.1 Settings addition

6.1.1 Adding ONT to configuration

Description: *This command adds ONT to the configuration.*

Command: **add ont**

Command syntax: `add ont <serial>`


Parameters:

<serial> – ONT serial number, 64 characters max.

Example:

add ont 454C54581A010F91

Meaning: *ONT with serial number 454C54581A010F91 has been added to the configuration.*

 When ONT is connected to an ACS, it is automatically added to the database.

6.1.2 Adding parameters to ONT configuration

Description: *This command is used to add new parameters to the ONT configuration.*

Command: **add property**

Command syntax: `add property <Serial> <Prop name> <Prop value> [Check mode]`

Parameters:

<serial> – ONT serial number;

<Prop name> – parameter name;

<Prop value> – parameter value;

[Check mode] – model conformance test mode:

- Nocheck – do not perform the conformance check;
- Check – perform the conformance check (default value).

Example:

add property eltx08000001 "InternetGatewayDevice.WANDevice.1.WANConnectionDevice.1.WANPPPConnection.1.Username""1"

6.1.3 Adding service for ONT

Description: *This command is used to add a new service for ONT.*

Command: **add service**

Command syntax: `add service <Serial> <Service name> [Instance]`

Parameters:

<serial> – ONT serial number;

<service name> – service name;

[instance] – mapping parameter, may take values in the range from 0..100, the default is 1.

Example:

(acs-ont)add service 454C54581A010F91 22

Execution result: Ok

6.2 Configuration reset

6.2.1 Reset ONT parameters

Description: *This command deletes all existing ONT parameters.*

Command: **clear property**

Command syntax: clear property <Serial>

Parameters:

<serial> – ONT serial number, 64 characters max.

Example:

clear property 454C54581A010F91

Meaning: *For ONT with serial number 454C54581A010F91, all existing parameters have been removed.*

6.2.2 Reset ONT services

Description: *This command deletes all existing ONT services.*

Command: **clear service**

Command syntax: clear service <Serial>

Parameters:

<serial> – ONT serial number, 64 characters max.

Example:

clear service 454C54581A010F91

Meaning: *For ONT with serial number 454C54581A010F91, all existing services have been removed.*

6.3 Settings deletion

6.3.1 ONT Deletion

Description: *This command deletes the specified ONT service.*

Command: **delete ont**

Command syntax: delete ont <Serial>

Parameters:

<serial> – ONT serial number, 64 characters max.

Example:

delete ont 454C54581A010F91

Meaning: *ONT with serial number 454C54581A010F91 has been removed from configuration.*

6.3.2 Deleting ONT parameters

Description: *This command deletes the specified ONT parameter.*

Command: **delete property**

Command syntax: delete property <Serial> <Prop name>

Parameters:

<serial> ONT serial number, 64 characters max.;

<Prop name> parameter name.

6.3.3 Deleting ONT services

Description: *This command deletes the specified ONT service.*

Command: **delete service**

Command syntax: delete service <Serial> <Service name> [Instance]

Parameters:

<serial> – ONT serial number, 64 characters max.;

<service name> service name;

[instance] – mapping parameter, may take values in the range from 0..100, the default is 1.

6.4 Switch to ONT parameters configuration

Description: *This command moves on to configuring the ONT parameters.*

Command: **ont**

Command syntax: ont <Serial>

Parameters:

<serial> – ONT serial number, 64 characters max.

Example:

ont 454C54581A010F91

Command execution result:

```
(acs-ont-sn='454C54581A010F91')
```

6.4.1 ONT parameters configuration: adding parameters

Command: **add property**

Command syntax: add property <Prop name> <Value> [Check mode]

Parameters:

<Prop name> – parameter name, 250 characters max.;

<Value> – parameter value, 250 characters max.;

[Check mode] – check mode to verify that the entered parameter matches the device's data model:

- Nocheck – do not perform the conformance check;
- Check – perform the conformance check (default value).

6.4.2 ONT parameters configuration: adding services

Command: **add service**

Command syntax: add service <Service name> [Instance]

Parameters:

<service name> – service name;

[instance] – mapping parameter, may take values in the range from 0..100, the default is 1.

6.4.3 ONT parameters configuration: deleting all parameters

Command: **clear property**

Command syntax: clear property

Parameters: there are no parameters for this command.

6.4.4 ONT parameters configuration: deleting all services

Command: **clear service**

Command syntax: clear service

Parameters: there are no parameters for this command.

6.4.5 ONT parameters configuration: deleting specified parameters

Command: **delete property**

Command syntax: delete property <Prop name>

Parameters:

<Prop name> – parameter name, 250 characters max.

6.4.6 ONT parameters configuration: deleting specified services

Command: **delete service**

Command syntax: delete service <Service name> [Instance]

Parameters:

<service name> – service name, 250 characters max.;

[instance] – mapping parameter, may take values in the range of 0..100, the default is 1.

6.4.7 ONT management: reboot ONT

Command: **reboot**

Command syntax: reboot

Parameters: there are no parameters for this command.

6.4.8 ONT management: reconfiguration

Command: **reconfigure**

Command syntax: reconfigure

Parameters: there are no parameters for this command.

6.4.9 ONT parameters configuration: assigning the configuration name

Command: **set config**

Command syntax: set config <Config name>

Parameters:

<Config name> – configuration name, 250 characters max.

6.4.10 ONT parameters configuration: assigning the customer identifier

Command: **set customer**

Command syntax: set customer <Customer ID>

Parameters:

<Customer ID> – customer identifier, 250 characters max.


6.4.11 ONT parameters configuration: device model configuration

Command: **set hardware**

Command syntax: set hardware <Hardware name>

Parameters:

<Hardware name> – device model, 250 characters max.

 The field is filled in automatically when the device is connected to an ACS server.

6.4.12 ONT parameters configuration: access password configuration

Command: **set password**

Command syntax: set password <Password>

Parameters:

<Password> – device access password, 250 characters max.

6.4.13 ONT parameters configuration: assigning the configuration profile

Command: **set profile**

Command syntax: set profile <profile name>

Parameters:

<Profile name> – profile name, 250 characters max.

6.4.14 ONT parameters configuration: assigning the configuration parameters

Command: **set property**

Command syntax: set property <Prop name> <Value> [Check mode]

Parameters:

<Prop name> – parameter name, 250 characters max.;

<Prop value> – parameter value, 250 characters max.;

[Check mode] – check mode to verify that the entered parameter matches the device's data model:

- Nocheck – do not perform the conformance check;
- Check – perform the conformance check (default value).

6.4.15 ONT parameters configuration: assigning the user name

Command: **set username**

Command syntax: set username <Username>

Parameters:

<Username> – user name, 250 characters max.

6.4.16 ONT management: reset to the default settings

Command: **setfactdef**

Command syntax: setfactdef

Parameters: there are no parameters for this command.

6.4.17 ONT parameters configuration: view the configuration

Command: **show config**

Command syntax: show config

Parameters: there are no parameters for this command.

Example of command execution:

```
(acs-ont-sn='454C54581A010F91')show config
```

```
Information about ONT '454C54581A010F91':
```

```
ID = 66
```

```
Serial = "454C54581A010F91"
```

```
Profile = "cycleupd"
```

```
Hardware name = "NTP-RG-1402G-W:rev.C"
```

```
Firmware = "3.22.0.2452"
```

```
URL = "http://192.168.200.155:30005/"
```

```
Config name = "Default"
```

```
Sfw upd time = "2000-01-01 00:35:30"
```

```
Sfw upd res = ""
```

```
Cfg upd res = ""
```

```
Last contact = "2015-08-11 19:31:15"
```

```
Cfg upd time = "1901-12-14 03:45:52"
```

```
Hardware = "1v10"
```

```
Cfg version = ""
```

```
Username = ""
```

```
Password = ""
```

```
Authtype = 0
```

```
Customer ID = ""
```

```
Con req user = "admin"
```

```
Con req pass = "admin"
```

```
Cfg force = 0
```

```
Subscriber = ""
```

```
(acs-ont-sn='454C54581A010F91')
```

6.4.18 ONT parameters configuration: view the list of configuration parameters assigned to the ONT

Command: **show property**

Command syntax: show property

Parameters: there are no parameters for this command.

6.4.19 ONT parameters configuration: view the list of assigned services

Command: **show service**

Command syntax: show service

Parameters: there are no parameters for this command.

6.4.20 ONT parameters configuration: view the full ONT configuration

Command: **show full**

Command syntax: show full

Parameters: there are no parameters for this command.

6.5 Parameter display mode configuration

Description: *This command allows to select fields to be displayed, while viewing the list using the ONT show list command.*

Command: **set mode**

Command syntax: set mode <Field num> [Mode] [Length]

Parameters:

<Field num> – field number, may take values in the range of 1 ..22:

- 1 – device identifier;
 - 2 – ONT serial number;
 - 3 – ONT profile name;
 - 4 – hardware name (device model);
 - 5 – firmware version;
 - 6 – address;
 - 7 – configuration name;
 - 8 – date and time of the last firmware update;
 - 9 – firmware update status;
 - 10 – configuration update status;
 - 11 – date of the last connection to the device;
 - 12 – date and time of the last configuration update;
 - 13 – hardware version;
 - 14 – configuration version;
 - 15 – user name;
 - 16 – password;
 - 17 – authorization type;
 - 18 – user identifier;
 - 19 – connection request counter (user name);
 - 20 – connection request counter (password);
 - 21 – configuration interventions;
 - 22 – subscriber;
- [Mode] – field display mode:
- On – field is displayed (default value);

Off – field is not displayed;
[Length] – field length, from 1 to 250 characters.

6.6 ONT parameters configuration

Description: *This command adjusts the ONT configuration parameter (adding a new one or changing an existing one).*

Command: **set property**

Command syntax: `set profile <Serial> <Prop name> <Prop value> [Check mode]`

Parameters:

<Serial> – ONT serial number, 64 characters max.;

<Prop name> – ONT parameter name, 250 characters max.;

<Prop value> – ONT parameter value, 250 characters max.;

[Check mode] – Conformance mode:

- Nocheck – do not perform the conformance check;
- Check – perform the conformance check (default value).

6.7 View ONT parameters

6.7.1 View full information on ONT

Description: *This command is used to view full information about ONT.*

Command: **show full**

Command syntax: `show full <Serial>`

Parameters:

<Serial> – ONT serial number, 64 characters max.

6.7.2 View list of configured ONTs

Description: *This command is used to view the list of configured ONTs.*

Command: **show list all**

Command syntax: `show list all`

Command execution result:

```
(acs-ont)show list all
```

```
Serial Profile Hardware name Firmware Last contact
179: 454C54585D000068 0: Default NTU-RG-1402G-Wac 3.22.0.1471 2015-07-29 03:22:25
```

```
180: 454C54585C00960C 0: Default NTU-RG-1402G-W 3.22.0.1568 2015-08-06 05:09:11
181: 454C54585D000090 0: Default NTU-RG-1402G-Wac 3.22.0.1471 2015-07-29 03:22:26
182: 454C54585C00007C 0: Default NTU-RG-1402G-W 3.22.0.1568 2015-08-06 05:02:38
183: 454C54585C009620 0: Default NTU-RG-1402G-W 3.22.0.1568 2015-08-06 05:02:29
184: 454C54585C000FC0 0: Default NTU-RG-1402G-W 3.22.0.1568 2015-08-06 05:02:19
185: 454C54585C009684 0: Default NTU-RG-1402G-W 3.22.0.1568 2015-08-06 05:03:18
186: 454C54585D000040 0: Default NTU-RG-1402G-Wac 3.22.0.1471 2015-07-29 03:22:41
187: 454C54585D0000E4 0: Default NTU-RG-1402G-Wac 3.22.0.1471 2015-07-29 03:22:46
188: 454C54585C000FA4 0: Default NTU-RG-1402G-W 3.22.0.1568 2015-08-06 05:02:42
```

6.7.3 View list of connected ONTs with filter

Description: *This command is used to view the list of connected ONTs filtered by the specified value.*

Command: **show list include**

Command syntax: **show list include <Search value>**

Parameters:

<Search value> – searched value, which will be filtered on the list of connected ONTs, 250 characters max.

Example 1:

```
(acs-ont_config)show list include 64
(acs-ont)show list include 64
Serial Profile Hardware name Firmware Last contact
1: 454C54585D000064 0: Default NTU-RG-1402G-Wac 3.22.0.1471 2015-07-29 03:20:51
2: 454C54585C009764 0: Default NTU-RG-1402G-W 3.22.0.1568 2015-08-06 05:02:56
3: 454C54585C009664 0: Default NTU-RG-1402G-W 3.22.0.1568 2015-08-06 05:02:42
```

Meaning: *Among the connected ONTs, a device was found containing "64" in the serial number.*

Example 2:

```
(acs-ont_config)show list include NTU-RG-1402G-W
(acs-ont)show list include NTU-RG-1402G-W
Serial Profile Hardware name Firmware Last contact
1: 454C54585D0000E0 revC NTU-RG-1402G-Wac 3.22.0.1241 2015-07-29 09:13:25
2: 454C54585C00A270 0: Default NTU-RG-1402G-W 3.22.0.1492 2015-07-30 09:10:07
3: 454C54585C009674 0: Default NTU-RG-1402G-W 3.22.0.1568 2015-08-06 05:02:38
4: 454C54585C000FB4 0: Default NTU-RG-1402G-W 3.22.0.1568 2015-08-06 05:04:16
5: 454C54585C009688 0: Default NTU-RG-1402G-W 3.22.0.1568 2015-08-06 05:02:35
6: 454C54585D000094 0: Default NTU-RG-1402G-Wac 3.22.0.1471 2015-07-29 03:20:29
7: 454C54585D00006C 0: Default NTU-RG-1402G-Wac 3.22.0.1471 2015-07-29 03:20:36
8: 454C54585C00968C 0: Default NTU-RG-1402G-W 3.22.0.1568 2015-08-06 05:09:31
9: 454C54585D00005C 0: Default NTU-RG-1402G-Wac 3.22.0.1471 2015-07-29 03:20:49
10: 454C54585D000064 0: Default NTU-RG-1402G-Wac 3.22.0.1471 2015-07-29 03:20:51
11: 454C54585D000058 0: Default NTU-RG-1402G-Wac 3.22.0.1471 2015-07-29 03:22:56
12: 454C54585C009764 0: Default NTU-RG-1402G-W 3.22.0.1568 2015-08-06 05:02:56
```

Meaning: *ONT output with the specified hardware type is presented.*

6.7.4 View an ordered list of connected ONTs

Description: *This command is used to view the list of connected ONTs ranged by the specified parameter.*

Command: **show list sort**

Command syntax: `show list sort <Field name>`

Parameters:

<Field name> – sort parameter:

Default – do not sort;

Serial – subscriber serial number;

Hardware – hardware version (device model);

Firmware – firmware version;

Profile – profile name;

Lastcontact – date and time of last connection to the device.

Example:

(acs-ont_config)show list sort lastcontact

(acs-ont)show list sort lastcontact

Serial Profile Hardware name Firmware Last contact

```

1: 454C54585D000094 0: Default NTU-RG-1402G-Wac 3.22.0.1471 2015-07-29 03:20:29
2: 454C54585D00006C 0: Default NTU-RG-1402G-Wac 3.22.0.1471 2015-07-29 03:20:36
3: 454C54585D00005C 0: Default NTU-RG-1402G-Wac 3.22.0.1471 2015-07-29 03:20:49
4: 454C54585D000064 0: Default NTU-RG-1402G-Wac 3.22.0.1471 2015-07-29 03:20:51
5: 454C54585D0000AC 0: Default NTU-RG-1402G-Wac 3.22.0.1471 2015-07-29 03:21:00
6: 454C54585D0000B0 0: Default NTU-RG-1402G-Wac 3.22.0.1471 2015-07-29 03:21:11
7: 454C54585D000084 0: Default NTU-RG-1402G-Wac 3.22.0.1471 2015-07-29 03:21:24
8: 454C54585D000044 0: Default NTU-RG-1402G-Wac 3.22.0.1471 2015-07-29 03:21:38
9: 454C54585D0000A4 0: Default NTU-RG-1402G-Wac 3.22.0.1471 2015-07-29 03:21:41
10: 454C54585D000028 0: Default NTU-RG-1402G-Wac 3.22.0.1471 2015-07-29 03:21:41
11: 454C54585D00007C 0: Default NTU-RG-1402G-Wac 3.22.0.1471 2015-07-29 03:21:45
12: 454C54585D0000BC 0: Default NTU-RG-1402G-Wac 3.22.0.1471 2015-07-29 03:21:50

```

Meaning: A list of connected ONTs is displayed, ordered by the date of the last connection to the device.

6.7.5 View the information about the fields to be displayed when executing the show list command

Description: *This command is used to view the status of fields when displaying the ONT list, by show list command.*

Command: **show mode**

Command syntax: `show mode`

Parameters: there are no parameters for this command.

6.7.6 View information on ONT parameters

Description: *This command is used to view information about ONT.*

Command: **show ont**

Command syntax: show ont <Serial>

Parameters:

<Serial> – ONT serial number, 64 characters max.

Example:

```
(acs-ont)show ont 454C54581A002AA1
Information about ONT '454C54581A002AA1':
ID = 55
Serial = "454C54581A002AA1"
Profile = "cycleupd"
Hardware name = "NTP-RG-1402G-W:rev.C"
Firmware = "3.22.0.2452"
URL = "http://192.168.200.113:30005/"
Config name = "Default"
Sfw upd time = "2000-01-01 00:35:19"
Sfw upd res = ""
Cfg upd res = ""
Last contact = "2015-08-11 19:46:05"
Cfg upd time = "1901-12-14 03:45:52"
Hardware = "1v8"
Cfg version = ""
Username = ""
Password = ""
Authtype = 0
Customer ID = ""
Con req user = "admin"
Con req pass = "admin"
Cfg force = 0
Subscriber = ""
(ac-s-ont)
```

6.7.7 View the list of ONT parameters

Description: *This command is used to view the list of ONT parameters.*

Command: **show property**

Command syntax: show property <Serial>

Parameters:

<Serial> – ONT serial number, 64 characters max.

6.7.8 View the list of ONT services

Description: *This command is used to view the list of services assigned to the ONT.*

Command: **show service**

Command syntax: show service <Serial>

Parameters:

<Serial> – ONT serial number, 64 characters max.

6.7.9 Viewing a specific subscriber's configuration

Description: *This command is used to view information about subscribers.*

Command: **show config**

Parameters: there are no parameters for this command.

Command execution result:

```
(acs-ont-sn='454C54585D000064')show config
Information about ONT '454C54585D000064':
ID = 63
Serial = "454C54585D000064"
Profile = "internet_iptv_voip"
Hardware name = "NTP-RG-1402G-W:rev.C"
Firmware = "3.22.0.2393"
URL = "http://192.168.200.165:30005/"
Config name = "Default"
Sfw upd time = "2000-01-01 00:35:26"
Sfw upd res = ""
Cfg upd res = ""
Last contact = "2015-07-30 02:55:20"
Cfg upd time = "1901-12-14 03:45:52"
Hardware = "1v10"
Cfg version = ""
Username = ""
Password = ""
Authtype = 0
Customer ID = ""
Con req user = "admin"
Con req pass = "admin"
Cfg force = 0
Subscriber = "petrov"
(acs-ont-sn='454C54585D000064')
```

Meaning: *The configuration information for the petrov user is displayed.*

7 Privates – personal configuration mode

7.1 Adding the personal parameter

Description: *This command adds the correspondence between the personal parameter and the personal rule.*

Command: **add**

Command syntax: **add** <Param name> <Private name> [Check mode]

Parameters:

<Param name> – personal parameter name, 240 characters max.;

<Private name> – personal rule name, 240 characters max.;

[Check mode] – check mode, optional parameter, the default is «check». Takes the following values:

- check – perform the conformance check (default value);
- nocheck – do not perform the conformance check.

Example:

```
LTP-X(acs-privates)add ip InternetGatewayDevice.WANDevice.5.WANConnectionDevice.1.WANIPConnection.1.ExternalIPAddress
```

Ok

7.2 Deleting a rule by number

Description: *This command deletes the rule of the specified parameter by its sequential number.*

Command: **delete index**

Command syntax: **delete index** <Param name> <Index>

Parameters:

<Param name> – personal parameter name, 240 characters max.;

<Index> – sequential number, is assigned to rule, may take values [1..250].

Example:

```
LTP-X(acs-privates)# delete index ip 1
```

Ok

7.3 Deleting a rule by name

Description: *This command deletes the firmware file by its name.*

Command: **delete name**

Command name: **delete name** <Private name>

Parameters:

<Private name> – personal rule name.

Example:

```
LTP-X(acs-privates)# delete name InternetGatewayDevice.WANDevice.5.WANConnectionDevice.1.WANIPConnection.1.ExternalIPAddress
```

Ok

7.4 Deleting a personal parameter by name

Description: *This command deletes a personal parameter.*

Command: **delete param**

Command syntax: delete param <Param name>

Parameters:

<Param name> – personal parameter name.

Example:

```
LTP-X(acs-privates)# delete param ip
```

7.5 View the information about personal parameters

Description: *This command allows to view a list of personal parameters and rules that match them.*

Command: **show**

Command syntax: show param <Param>

show all

Parameters:

all – when the "all" command is specified, the list of all personal parameters and their rules will be displayed;

param – when the "param" command is specified, you can view information on a certain parameter;

<Param> – personal parameter name.

Example:

```
LTP-X(acs-privates)# show param voice1_enable
```

```
List of privates for user property 'voice1_enable':
```

```
1. InternetGatewayDevice.Services.VoiceService.1.VoiceProfile.1.Line.1.Enable
```

8 Profiles – configuration profile configuration mode

8.1 Settings addition

8.1.1 Adding a configuration profile

Description: *This command adds a new profile for the device.*

Command: **add profile**

Command syntax: add profile <Name> [Base profile]

Parameters:

<Name> – profile name, 250 characters max.;

[Base profile] – base profile name.

8.1.2 Adding parameters to the configuration profile

Description: *This command adds new parameters to the profile.*

Command: **add property**

Command syntax: add property <Name> <Prop name> <Prop value> [Check mode]

Parameters:

<Name> – profile name, 250 characters max.;

<Prop name> – profile parameter name, 250 characters max.;

<Prop value> – profile parameter value, 250 characters max.;

[Check mode] – the device data model check mode:

- Nocheck – do not perform the conformance check;
- Check – perform the conformance check (default value).

8.2 Deleting all parameters from profile

Description: *This command deletes all parameters from the specified profile.*

Command: **clear property**

Command syntax: clear property <Name>

Parameters:

<Name> – profile name, 250 characters max.

8.3 Settings deletion

8.3.1 Deleting configuration profile

Description: *This command deletes the profile.*

Command: **delete profile**

Command syntax: delete profile <Name>

Parameters:

<Name> – profile name, 250 characters max.

8.3.2 Deleting parameters from the specified profile

Description: *This command deletes the profile parameters.*

Command: **delete property**

Command syntax: delete property <Name> <Prop name>

Parameters:

<Name> – profile name, 250 characters max.;

<Prop name> – profile parameter name, 250 characters max.

8.4 Configure parameter output mode using show list command

Description: *This command allows to select fields to be displayed, while viewing the configuration profiles list.*

Command: **set mode**

Command syntax: set mode <Field num> [Mode] [Length]

Parameters:

<Field num> – field number, field numbers correspond to the following parameters:

1 – profile name;

2 – Inform interval (ONT and ACS exchange period);

3 – script name;

4 – base profile;

5 – Description;

[Mode] – field display mode:

On – field is displayed (default value);

Off – field is not displayed;

[Length] – field length, from 1 to 250 characters.

8.5 Modify/add configuration profile settings

Description: *This command is used to modify/add device profile settings.*

Command: **set property**

Command syntax: set property <Name> <Prop name> <Prop value> [Check mode]

Parameters:

<Name> – profile name, 250 characters max.;

<Prop name> – profile parameter name, 250 characters max.;

<Prop value> – profile parameter value, 250 characters max.;

[Check mode] – device data model check mode:

- Nocheck – do not perform the conformance check
- Check – perform the conformance check (default value).

Example:

```
(acs-profile)set property NTP-2
"InternetGatewayDevice.X_BROADCOM_COM_IGMPCfg.AvailableGroupsEntity.
1.DestinationIPStart""233.7.70.1"
```

8.6 View settings

8.6.1 View profile list

Description: *This command is used to view the list of configuration profiles.*

Command: **show list**

Command syntax: show list

Parameters: there are no parameters for this command.

Example of command execution:

```
(acs-profile)show list
Listing of device profiles:
Name Inform interval Script name Base profile
1: 0 3600
2: cycleupd 3600
3: internet_ipvtv_voip 600
4: internet_ipvtv 3600
5: ntu-2v 3600
(acs-profile)
```

8.6.2 View the information about fields to be displayed

Description: *This command is used to view the status of the fields when displaying ONT parameters.*

Command: **show mode**

Command syntax: there are no parameters for this command.

Command execution result:

```
Device profile show mode:
1: Name - on [5]
2: Inform interval - on [15]
3: Script name - on [20]
4: Base profile - on [20]
5: Description - on [20]
```

8.6.3 View the list of ONT

Description: *This command shows the list of ONTs, that the current profile is assigned to.*

Command: **show ont**

Command syntax: show ont <Name>

Parameters:

<Name> – profile name.

Example:

```
show ont internet_ipvtv
```

Command execution result:

```
(acs-profile)show ont internet_ipvt
List of hosts by profile 'internet_ipvt':
Serial Profile Hardware name Firmware Last contact
1: 454C54581A002E95 internet_ipvt NTP-RG-1402G-W:rev.C 3.22.0.2452 2015-08-11 19:53:
36
2: 454C54581A0021BD internet_ipvt NTP-RG-1402G-W:rev.C 3.22.0.2452 2015-08-11 19:46:
14
3: 454C54581A0021BC internet_ipvt NTP-RG-1402G-W:rev.C 3.22.0.2452 2015-08-11 19:48:
40
4: 454C54581A00F998 internet_ipvt NTP-RG-1402G-W:rev.C 3.22.0.2393 2015-07-30 02:51:
11
5: 454C54581A000041 internet_ipvt NTP-RG-1402G-W:rev.C 3.22.0.2393 2015-07-30 02:47:
34
6: 454C54581A00219F internet_ipvt NTP-RG-1402G-W:rev.C 3.22.0.2452 2015-08-11 19:49:
49
7: 454C54581A0021A5 internet_ipvt NTP-RG-1402G-W:rev.C 3.22.0.2452 2015-08-11 19:51:
23
8: 454C54581A002E93 internet_ipvt NTP-RG-1402G-W:rev.C 3.22.0.2452 2015-08-11 19:48:
18
9: 454C54581A002AE2 internet_ipvt NTP-RG-1402G-W:rev.C 3.22.0.2452 2015-08-11 19:50:
19
10: 454C54581A0021A0 internet_ipvt NTP-RG-1402G-W:rev.C 3.22.0.2452 2015-08-11 19:51:
59
11: 454C54581A00219C internet_ipvt NTP-RG-1402G-W:rev.C 3.22.0.2452 2015-08-11 19:47:
48
12: 454C54581A0021A7 internet_ipvt NTP-RG-1402G-W:rev.C 3.22.0.2452 2015-08-11 19:51:
26
Meaning: You will see the list of ONTs with assigned «internet_ipvt» profile, that
includes 12 devices.
```

8.6.4 View information on profile

Description: *This command shows the full information on specific profile.*

Command: **show profile**

Command syntax: show profile <Name>

Parameters:

<Name> – profile name.

8.6.5 View profile settings list

Description: *This command shows the profile settings list.*

Command: **show property**

Command syntax: show property <Name>

Parameters:

<Name> – profile name.

8.6.6 View a hierarchically constructed list of profiles

Description: *This command is used to view the ordered list of configuration profiles.*

Command: **show struct**

Command syntax: there are no parameters for this command;

Command execution result:

```
(acs-profile)show list
Listing of device profiles:
Name Inform interval Script name Base profile
0 : 0 3600
1 : cycleupd 3600
2 : internet_ipvtv_voip 600
3 : internet_ipvtv 3600
4 : ntu-2v 3600
(acs-profile)
```

8.7 Switch to configuration profile parameter configuration

Description: *This command allows to configure the configuration profile.*

Command: **profile**

Command syntax: profile <Name>

Parameters:

<Name> – profile name;

Example:

profile ntu-2v

Command execution result:

```
(acs-profile-name='NTU-2V')
```

8.7.1 Adding parameters to the configuration profile

Description: *This command adds new parameters to the profile.*

Command: **add property**

Command syntax: add property <Prop name> <Prop value> [Check mode]

Parameters:

<Prop name> – profile parameter name, 250 characters max.;

<Prop value> – profile parameter value, 250 characters max.;

[Check mode] – the device data model check mode:

- Nocheck – do not perform the conformance check;
- Check – perform the conformance check (default value).

8.7.2 Deleting all parameters from profile

Description: *This command deletes all parameters from the specified profile.*

Command: **clear property**

Command syntax: there are no parameters for this command.

8.7.3 Deleting parameters from the specified profile

Description: *This command deletes parameters from the profile.*

Command: **delete property**

Command syntax: delete property <Prop name>

Parameters:

<Prop name> – profile parameters name, 250 characters max.

8.7.4 Assigning basic profile

Description: *This command assigns the basic configuration profile.*

Command: **set base_profile**

Command syntax: set base_profile <Base profile>

Parameters:

<Base profile> – profile name, 250 characters max.

8.7.5 Setting the profile description

Description: *This command assigns a description to the profile.*

Command: **set description**

Command syntax: set description < Description>

Parameters:

<Description> – profile description, 250 characters max.

8.7.6 Setting the ONT exchange interval with ACS

Description: *This command assigns the period of ONT exchange with ACS server.*

Command: **set inform_interval**

Command syntax: set inform_interval < Inform interval>

Parameters:

<Inform interval> – exchange interval value 60..2147483647 in seconds.

8.7.7 Adding/changing parameters in the configuration profile

Description: *This command adds new/changes parameters in the profile.*

Command: **set property**

Command syntax: set property <Prop name> <Prop value> [Check mode]

Parameters:

<Prop name> – profile parameter name, 250 characters max.;

<Prop value> – profile parameter value, 250 characters max.;

[Check mode] – the device data model check mode:

- Nocheck – do not perform the conformance check;
- Check – perform the conformance check (default value).

8.7.8 View information on profile

Description: *This command shows the full information on specific profile.*

Command: **show config**

Command syntax: there are no parameters for this command.

8.7.9 View the list of ONT

Description: *This command shows the list of ONTs, that the current profile is assigned to.*

Command: **show ont**

Command syntax: there are no parameters for this command.

8.7.10 View profile settings list

Description: *This command shows the profile settings list.*

Command: **show property**

Command syntax: there are no parameters for this command.

9 Service – configuration mode of services for ONT

9.1 Settings addition

9.1.1 Adding the service

Description: *This command adds a new service for the device.*

Command: **add service**

Command syntax: add service <Name> <Description>

Parameters:

<Name> – service name, 250 characters max.;
<Description> – service description, 250 characters max.

9.1.2 Adding parameters to the service

Description: *This command adds new parameters to the service.*

Command: **add property**

Command syntax: add property <Name> <Prop name> <Prop value> [Is param] [Check mode]

Parameters:

<Name> – service name, 250 characters max.;
<Prop name> – service parameter name, 250 characters max.;
<Prop value> – service parameter value, 250 characters max.;
[Is param] – flag to check the specified parameter value:

- 0 – do not check, use the value specified in the parameter <Prop value>;
- 1 – check. In this case, the value specified in the parameter <Prop value> is not used;

[Check mode] – device data model conformance check mode:

- Nocheck – do not perform the conformance check;
- Check – perform the conformance check (default value).

9.2 Deleting all parameters from service

Description: *This command deletes all parameters from the specified service.*

Command: **clear property**

Command syntax: clear property <Name>

Parameters:

<Name> – service name, 250 characters max.

9.3 Settings deletion

9.3.1 Deleting service

Description: *This command deletes the service.*

Command: **delete service**

Command syntax: delete service <Name>

Parameters:

<Name> – service name, 250 characters max.

9.3.2 Deleting parameters from the specified service

Description: *This command deletes the service parameters.*

Command: **delete property**

Command syntax: delete property <Name> <Prop name>

Parameters:

<Name> – service name, 250 characters max.;

<Prop name> – service parameter name, 250 characters max.

9.4 Configure parameter output mode using show list command

Description: *This command allows to select fields to be displayed, while viewing the services list.*

Command: **set mode**

Command syntax: set mode <Field num> [Mode] [Length]

Parameters:

<Field num> – field number, field number correspond to the following parameters:

1 – Service identifier;

2 – Service name;

3 – Description;

4 – Mapping parameter;

[Mode] – field display mode:

On – field is displayed (default value);

Off – field is not displayed;

[Length] – field length, from 1 to 250 characters.

9.5 Change settings

9.5.1 Modify/add service settings

Description: *This command is used to modify/add device service settings.*

Command: **set property**

Command syntax: set property <Name> <Prop name> <Prop value> [Is param] [Check mode]

Parameters:

<Name> – service name, 250 characters max.;

<Prop name> – service parameter name, 250 characters max.;

<Prop value> – service parameter value, 250 characters max.;

[Is param] – flag to check the specified parameter value:

- 0 – do not check, use the value specified in the parameter <Prop value>;
- 1 – check. In this case, the value specified in the parameter <Prop value> is not used;

[Check mode] – device data model conformance check mode:

- Nocheck – do not perform the conformance check;
- Check – perform the conformance check (default value).

Example:

```
(acs-service)set property NTP-2
"InternetGatewayDevice.X_BROADCOM_COM_IGMPCfg.AvailableGroupsEntity.
1.DestinationIPStart""233.7.70.1"
```

9.5.2 Modify/add service

Description: *This command edits the selected service.*

Command: **set service**

Command syntax: add service <Name> <Description>

Parameters:

<Name> – service name, 250 characters max.;

<Description> – service description, 250 characters max.

9.6 Switch to service parameter configuration

Description: *This command allows to configure the service.*

Command: **service**

Command syntax: service <Name>

Parameters:

<Name> – service name.

Example:

service ntp-rg

Command execution result:

```
(acs-service-name='ntp-rg')
```

9.6.1 Adding parameters to the service

Description: *This command adds new parameters to the service.*

Command: **add property**

Command syntax: add property <Prop name> <Prop value> [Is param] [Check mode]

Parameters:

<Prop name> – profile parameter name, 250 characters max;

<Prop value> – profile parameter value, 250 characters max.;

[Is param] – flag to check the specified parameter value:

- 0 – do not check, use the value specified in the parameter <Prop value>;
- 1 – check. In this case, the value specified in the parameter <Prop value> is not used;

[Check mode] – device data model conformance check mode:

- Nocheck – do not perform the conformance check;
- Check – perform the conformance check (default value).

9.6.2 Deleting all parameters from service

Description: *This command deletes all parameters from the specified service.*

Command: **clear property**

Command syntax: there are no parameters for this command.

9.6.3 Deleting parameters from the service

Description: *This command deletes parameters from the service.*

Command: **delete property**

Command syntax: delete property <Prop name>

Parameters:

<Prop name> – service parameter name, 250 characters max.

9.6.4 Adding/changing parameters in the service

Description: *This command adds new/changes parameters in the service.*

Command: **set property**

Command syntax: set property <Prop name> <Prop value> [Is param] [Check mode]

Parameters:

<Prop name> – service parameter name, 250 characters max.;

<Prop value> – service parameter value, 250 characters max.;

[Is param] – flag to check the specified parameter value:

- 0 – do not check, use the value specified in the parameter <Prop value>;
- 1 – check. In this case, the value specified in the parameter <Prop value> is not used;

[Check mode] – device data model conformance check mode:

- Nocheck – do not perform the conformance check
- Check – perform the conformance check (default value).

9.6.5 View information on service

Description: *This command shows the full information on specific service.*

Command: **show config**

Command syntax: there are no parameters for this command.

9.6.6 View service settings list

Description: *This command shows the service settings list.*

Command: **show property**

Command syntax: there are no parameters for this command.

9.7 View settings

9.7.1 View profile list

Description: *This command is used to view the list of services.*

Command: **show list**

Command syntax: show list

Parameters: there are no parameters for this command.

9.7.2 View the information about fields to be displayed

Description: *This command is used to view the status of the fields when displaying service parameters.*

Command: **show mode**

Command syntax: there are no parameters for this command.

9.7.3 View service settings list

Description: *This command shows the service settings list.*

Command: **show property**

Command syntax: show property <Name>

Parameters:

<Name> – service name.

9.7.4 View information on profile

Description: *This command shows the full information on specific service.*

Command: **show service**

Command syntax: show service <Name>

Parameters:

<Name> – service name.

10 User – ACS information message settings

10.1 Adding the user

Description: *This command adds the user to the ACS by his identifier.*

Command: **add user**

Command syntax: add user <Sub ID>

Parameters:

<Sub ID> – subscriber identifier, 250 characters max.;

Example:

(acs-user) add user test3

Command execution result:

Ok

Meaning: User **test3** has been successfully added.

10.2 Deleting a user

Description: *This command allows to view the full information about the information message with the specified identifier.*

Command: **delete user**

Command syntax: delete user <Sub ID>

Parameters:

<Sub ID> – subscriber identifier, 250 characters max.

10.3 Parameter display mode configuration

Description: *This command allows to select fields to be displayed.*

Command: **set mode**

Command syntax: set mode <Field num> [Mode] [Length]

Parameters:

<Field num> – field number, field numbers correspond to the following parameters:

1 – subscriber identifier;

2 – PON serial number;

3 – profile;

[Mode] – field display mode:

On – field is displayed (default value);

Off – field is not displayed;

[Length] – field length, from 1 to 250 characters.

10.4 Switch to editing individual subscriber characteristics

Description: *This command is used to edit the characteristics of the specified user.*

Command: **user**

Command syntax: user <Sub ID>

Parameters:

<Sub ID> – subscriber identifier, 250 characters max.;

Example:

(acs-user) user petrov

Command execution result:

```
(acs-user-subscriber='petrov')
```

*Meaning: Switch to editing the **petrov** user settings.*

10.4.1 Specify/delete «Username for PPPoE authorization» parameter

Command: **set/delete ppp_login**

Command syntax: set/delete ppp_login <Value>

Parameters:

<Value> – username for authorization.

Example:

(acs-user-subscriber='petrov')set ppp_login petrov

Command execution result:

Ok

Meaning: The name «petrov» is set for the user petrov to authorize PPPoE.

10.4.2 Specify/delete «Password for PPPoE authorization» parameter

Command: **set/delete ppp_password**

Command syntax: set/delete ppp_password <Value>

Parameters:

<Value> – password for authorization.

Example:

(acs-user-subscriber='petrov')set ppp_pass 12345678

Command execution result:

Ok

Meaning: The password «n08fri5» is set for the user petrov to authorize PPPoE.

10.4.3 Set/delete «sip_proxy» parameter

Command: **set sip_proxy**

Command syntax: set sip_proxy <Value>

Parameters:

<Value> – SIP proxy address/name.

Example:

(acs-user-subscriber='petrov') set sip_proxy sip.proxy.ru

Command execution result:

Ok

Meaning: The sip.proxy.ru SIP server is set on the device to use for registration For the petrov user.

10.4.4 Set/delete "voice_enable" parameter

Command: **set/delete voice1(2)_enable**

Command syntax: set/delete voice1(2)_enable <Value>

Parameters:

<Value> – activate phone port, enabled/disabled.

Example:

(acs-user-subscriber='petrov') set voice1_enable enabled

Command execution result:

Ok

Meaning: The phone port 1 is activated on the device for the user.

10.4.5 Set/delete "voice_number" parameter

Command: **set/delete voice1(2)_number**

Command syntax: set/delete voice1(2)_number <Value>

Parameters:

<Value> – port phone number, 10 digits max.

Example:

(acs-user-subscriber='petrov') set voice1_number 2734561

Command execution result:

Ok

Meaning: The number 1 is set for user Petrov on port 1.

10.4.6 Set/delete «voice_password» parameter

Command: **set/delete voice1(2)_password**

Command syntax: set/delete voice1(2)_password <Value>

Parameters:

<Value> – password for access, 250 characters max.

Example:

(acs-user-subscriber='petrov') set voice1_password fd29zur4

Command execution result:

Ok

Meaning: On port 1, user petrov has a password to access fd29zur4.

10.4.7 Set the PON serial

Command: **set pon_serial**

Command syntax: **set pon_serial <Serial> [Apply mode]**

Parameters:

<Serial> – ONT serial number;

[Apply mode] – parameter apply mode:

- *idle* – do not apply;
- *apply* – apply, set by default;

Example:

(acs-user-subscriber='petrov') set pon_serial 454C54585D000064

Command execution result:

Ok

Meaning: A device with the serial number 454C54585D000064 is allocated to the petrov user.

10.4.8 Set the configuration profile for this user

Command: **set profile**

Command syntax: **set profile <Profile>**

Parameters:

<Profile> – profile name, 250 characters max.

10.4.9 Set/delete «wifi_enable» parameter

Command: **set wifi_enable**

Command syntax: **set wifi_enable <status>**

Parameters:

<status> – Wi-Fi module status, enable/disable.

Example:

(acs-user-subscriber='petrov') set wifi_enable enable

Command execution result:

Ok

Meaning: The user has the Wi-Fi module enabled.

10.4.10 Set/delete «wifi_encoding» parameter

Command: **set wifi_encoding**

Command syntax: **set wifi_encoding <Encoding>**

Parameters:

<Encoding> – encryption type.

Example:

(acs-user-subscriber='petrov') set wifi_encoding 11i

Command execution result:

Ok

Meaning: WPA-2 encryption has been set for the petrov user.

10.4.11 Set/delete «wifi_password» parameter

Command: **set wifi_password**

Command syntax: set service_wifi_password <Password>

Parameters:

<Password> – Wi-Fi network password.

Example:

(acs-user-subscriber='petrov') set wifi_password poiuy38ghs

Command execution result:

Ok

Meaning: The petrov user has a password for the Wi-Fi network "poiuy38ghs".

10.4.12 Set/delete "wifi_ssid" parameter

Command: **set wifi_ssid**

Command: set wifi_ssid <SSID>

Parameters:

<SSID> – Wi-Fi network identifier.

Example:

(acs-user-subscriber='petrov') set wifi_ssid HomeNet

Command execution result:

Ok

Meaning: The petrov user has the Wi-Fi network name "HomeNet".

10.4.13 Set/delete "admin_password" parameter

Command: **set admin_password**

Command syntax: set admin_password <Password>

Parameters:

<Password> – admin user password on ONT.

Example:

(acs-user-subscriber='petrov') set admin_password 12345

Command execution result:

Ok

Meaning: A password for the petrov user is set for the admin user on ONT "12345".

10.5 View parameters

10.5.1 User list preview

Description: *This command is used to view the list of subscribers.*

Command: **show list**

Parameters: there are no parameters for this command.

Command execution result:

```
Listing of subscribers:
Subscriber ID PON serial
1: petrov 454C54585D000064
2: ivanov 454C54585D0000AC
3: sidorov 454C54585D0000B0
```

10.5.2 View settings

Description: *This command allows to view the configured parameters for a subscriber.*

Command: **show property**

Command syntax: show property <Sub ID>

Parameters:

<Sub ID> – subscriber identifier, 250 characters max.

Example:

(acs-user) show property ivanov

Command execution result:

```
(acs-user)show property ivanov
ONT not found for subscriber!
voice1_enable: - "Enabled"
voice1_number: - "2728335"
voice1_password: - "fg33wer5"
voice2_enable: -
voice2_number: -
voice2_password: -
sip_proxy: - "sip.proxy.ru"
ppp_login: - "fftx1e3op"
ppp_password: - "fn84et0x"
user_password: -
admin_password: -
wifi_enable: -
wifi_ssid: -
wifi_encoding: -
wifi_password: -
internet_vlanid: -
service_vlanid_1_ip: -
service_vlanid_2_ip: -
service_vlanid_3_ip: -
service_vlanid_4_ip: -
```

```

service_vlanid_5_ip: -
service_vlanid_6_ip: -
service_vlanid_7_ip: -
service_vlanid_8_ip: -
service_vlanid_1_ppp: -
service_vlanid_2_ppp: -
service_vlanid_3_ppp: -
service_vlanid_4_ppp: -
service_vlanid_5_ppp: -
service_vlanid_6_ppp: -
service_vlanid_7_ppp: -
service_vlanid_8_ppp: -
(acs-user)

```

*Meaning: The parameters for the **ivanov** user are displayed.*

10.5.3 View information on user

Description: *This command allows to view full information about the specified user.*

Command: **show user**

Command syntax: show user <Sub ID>

Parameters:

<Sub ID> – subscriber identifier, 250 characters max.

Example:

(acs-user) show user petrov

Command execution result:

```

(acs-user)show user petrov
Information about subscriber 'petrov':
Subscriber ID = "petrov"
PON serial = "454C54585D000064"
Profile = "internet_iptv_voip"
ONT not found for subscriber!
voice1_enable: - "Enabled"
service_vlanid_5_ip: -
service_vlanid_6_ip: -
service_vlanid_7_ip: -
service_vlanid_8_ip: -
service_vlanid_1_ppp: - "101"
service_vlanid_2_ppp: -
service_vlanid_3_ppp: -
service_vlanid_4_ppp: -
service_vlanid_5_ppp: -
service_vlanid_6_ppp: -
service_vlanid_7_ppp: -
service_vlanid_8_ppp: -
voice1_number: - "2734561"
voice1_password: - "fd29zur4"
voice2_enable: -
voice2_number: -
voice2_password: -

```

```
sip_proxy: - "sip.proxy.ru"  
ppp_login: - "ftpx67otw"  
ppp_password: - "n08fri5"  
user_password: -  
admin_password: - "12345"  
wifi_enable: - "1"  
wifi_ssid: - "HomeNet"  
wifi_encoding: - "11i"  
wifi_password: - "poiuy38ghs"  
internet_vlanid: -  
service_vlanid_1_ip: -  
service_vlanid_2_ip: -  
service_vlanid_3_ip: -  
service_vlanid_4_ip: -
```

*Meaning: Detailed information about the **petrov** user is displayed.*

10.5.4 View the parameters display mode

Command: **show mode**

Command syntax: show mode

Parameters: there are no parameters for this command.

Command execution result:

```
Subscriber show mode:  
1: Subscriber ID - on [20]  
2: PON serial - on [20]  
3: Profile - off [20]
```

11 The list of changes

Document Version	Issue Date	Revisions
Version 9.4	02.11.2022	Synchronization with firmware version 3.46.0
Version 9.3	13.12.2021	Synchronization with firmware version 3.44.0
Version 9.2	30.11.2021	Synchronization with firmware version 3.42.2
Version 9.1	14.10.2021	Synchronization with firmware version 3.42.1
Version 9	31.05.2021	Synchronization with firmware version 3.42.0
Version 8	28.04.2021	Synchronization with firmware version 3.40.2
Version 7	10.12.2020	Synchronization with firmware version 3.40.0
Version 6	20.05.2020	Synchronization with firmware version 3.38.2
Version 5	07.02.2020	Synchronization with firmware version 3.38.1
Version 4	13.12.2019	Synchronization with firmware version 3.38.0 Sections added: <ul style="list-style-type: none"> • Equipment parameters configuration: default profile.
Version 3	08.10.2019	Fourth issue
Version 2	21.03.2019	Third issue
Version 1.2	12.03.2016	Second issue
Version 1.0	12.08.2015	First issue

TECHNICAL SUPPORT

For technical assistance in issues related to operation of Eltex Ltd. equipment, please contact the Service Center.

Feedback form on the website: <https://eltex-co.com/support/>

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

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Official website: <https://eltex-co.com/>

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