

- Monitoring of the main devices characteristics
- Online display of the device failures in text and graphic forms
- Grouping line terminals into nodes with a capability to display all failures of a selected node
- Automatic search for Eltex devices in network



### Eltex.EMS

Eltex.EMS is a centralized management system of the network equipment which is manufactured by Eltex.

Eltex.EMS system is based on the client-server architecture. The single access server provides a web interface allowing independent and simultaneous control over different network elements.

### Management automation subsystem (Northbound Interface)

Management automation subsystem (Northbound Interface) is designed to provide EMS system integration with superior OSS/BSS of a provider. Especially, it allows integrating with an operator billing system by standardized open protocols, which allows automating such routine operation as mass disconnection of subscriber ports with unpaid service, following connection of service in accordance with payment and changing device configuration.

### System installation

Support is provided for Ubuntu Server 20.04 LTS / 22.04 LTS, Astra Linux Special Edition 1.7.5 (Voronezh, Orel), 1.7.1 (Voronezh), RedOS 7.3.1 (Murom). Eltex maintains its own public repositories, allowing quick and easy installation of the system for demonstration and operation on customer's servers.

## Supported Eltex devices<sup>1</sup>

PON	Ethernet switches	VoIP	Wi-Fi	Transport	Routers	Servers	Power supply devices	DSLAM devices
– LTP-4X – LTP-8X – LTP-8N – LTP-16N – LTX-8 – LTX-16 – LTE-2X – LTE-8X – LTE-8ST – MA4000-PX	– MES1024 – MES1124x – MES2124x – MES2208P – MES2308x – MES2324x – MES2348x – MES2408x – MES2411X – MES2424x – MES2428x – MES2448x – MES3108x – MES3116x – MES3124x – MES3324x – MES3348x – MES3508P – MES5148 – MES5248 – MES5312 – MES53xxA – MES5400-xx – MES5500-32 – MES5448 – MES7048	– SSW ECSS-10 – MSR – SMG-2 – SMG-4 – SMG-200 – SMG-500 – SMG-1016 – SMG-1016M – SMG-1016M-R – SMG-2016 – SMG-3016 – SBC-1000 – SBC-2000 – SBC-3000 – TAU-16.IP – TAU-24.IP – TAU-32M.IP – TAU-36.IP – TAU-72.IP – MSAN – MC1000-PX	– WOP-12ac – WOP-12ac-LR – WOP-2ac – WOP-2ac-LR2 – WOP-2ac-LR5 – WOP-2L – WOP-20L – WOP-3ax – WOP-30L – WOP-30LS – WEP-12ac – WEP-2ac – WEP-2ac Smart – WEP-2ac-Z – WEP-3ax – WEP-1L – WEP-2L – WEP-3L – WEP-20L – WEP-20L-Z – WEP-30L – WEP-30L-Z – WEP-200L – WLC-15 – WLC-30 – WLC-3200	– ToPGATE-1E1-1FG – ToPGATE-2E1-1F – ToPGATE-4E1-2FG – ToPGATE-8E1-2FG – ToPGATE-16E1-2FG – ToPGATE-24E1-2FG – ToPGATE-2STM1-2FG – SHDSL modem MXL2E	– ESR-10 – ESR-12V – ESR-15 – ESR-15R – ESR-20 – ESR-30 – ESR-100 – ESR-200 – ESR-1000 – ESR-1200 – ESR-1500 – ESR-1700 – ESR-3100 – ESR-3200	– Eltex.ACS	– UEP2-3 – UEP2-5 – UEP3-3 – UEP4-1	– MXA-24 – MXA-32 – MXA-64

## Eltex.EMS structure

Name	Description
EMS server	System of data receiving, processing, interpreting, distributing and controlling
Data base	Storage built on the basis of MariaDB DBMS. The database stores the list of network objects and individual access settings for each device (SNMP parameters). The database is also used to store user accounts, messages from devices, etc.
Java applet	Software for data request, processing and output, the main control element (a part of an operator workplace)
TL1 module	Subsystem for connecting a service-activator from the provider's OSS/BSS via TL1 protocol and directly controlling subscriber devices of PON technology.

<sup>1</sup> The list of supported devices can be changed. For more information, contact Eltex Sales Department.

## Features and capabilities

### Key system capabilities

- System redundancy
- Monitoring of the main device parameters: operation time, temperature, process loading, work of coolers, firmware version and serial number
- Statistic monitoring by physical and logical interfaces
- Tracking temperature of terminals, drawing graphs and sending email notifications
- Group operations with devices
- Visualisation of device external view with the current status of ports and sensors displayed
- Subscriber profile management for all device types
- Power supply monitoring
- Automatic update of device firmware
- Automation of configuration files processing
- System for collecting and storing the alert messages received via SNMP
- Quick system launch for main configuration tools: SSH, TELNET, Web
- Centralized collection of device messages via Syslog with a possibility to filter and display them in text format
- Subscriber port control: DSLAM, PON and VoIP configurations, profile assignment

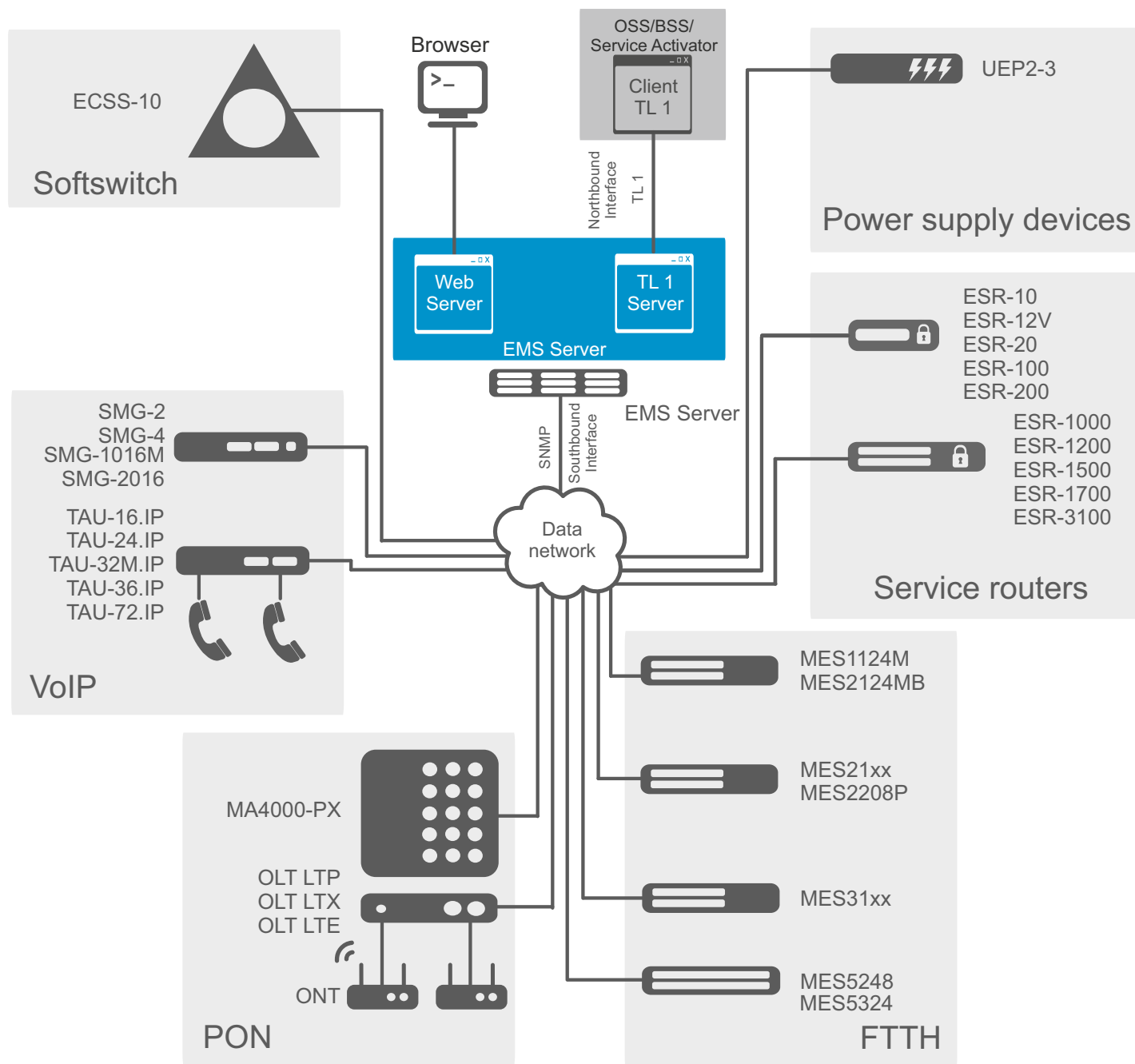
### Optional system capabilities for PON equipment

- Optical interfaces parameters: module type, optical power and level of a received signal, measured distance
- SFP module control
- Information on the number of PON active subscribers
- Status monitoring and Internet, VoIP, IPTV statistics gathering for GPON subscribers
- System of quick subscriber terminals search in optical trees among Eltex linear terminals
- Statistics on PON subscribers activity
- Management of the system for mass firmware autoupdate of subscriber PON devices
- Capability to monitor damaged ONT for frequent connection or RSSI parameter overrunning
- Information on installed PPPoE sessions

### Optional system capabilities for VoIP equipment

- TAU devices ports testing
- Configuration of TAU devices ports, profiles, dialplans, serial groups and firewalls
- Receiving and displaying of alert messages from Softswitch ECSS-100

## Use case



## Contact us

## About Eltex

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**Eltex Enterprise** is a leading Russian developer and manufacturer of communication equipment with 30 years of history. Complete solutions and their seamless integrability into the Customer's infrastructure are the priority growth areas of the company.