

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

### Eltex.EMS

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

The 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)

Subsystem of the automation control (NorthboundInterface) 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; it 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 configurations.

### Flexibility of package providing

Packages can be chosen and installed depending on the type of the equipment used. This ensures optimal loading of operator's server resources, display of network current status, and rational use of human resources. Thus, you get the maximum performance of your system.

### System installation

The Eltex.EMS system can be provided as standard Linux distribution packages of two common formats—rpm and deb—and as a ready-to-install ISO image, which allows quick installation to a real host or a virtual machine supervisor. This enables dynamical deployment of a monitoring system in the shortest possible time.



### Supported Eltex devices

#### PON equipment

- GPON
  - OLT LTP-4X
  - OLT LTP-8X
  - MA4000-PX
- EPON/TurboGEPON
  - OLT LTE-2X
  - OLT LTE-8X

#### Ethernet-switches

- Access
  - MES1000
  - MES2100
- Aggregation
  - MES3100
  - MES5200

#### VoIP equipment

- Trunk gateway
  - SMG-2; SMG-4
  - SMG-1016M
  - SMG-2016
- Customer gateway of IP-telephony (Voice over IP)
  - TAU-16.IP
  - TAU-24.IP
  - TAU-32M.IP
  - TAU-36.IP
  - TAU-72.IP
- MSAN MC1000-PX

#### DSLAM equipment

- MXA-32; MXA-64

#### Power supply devices

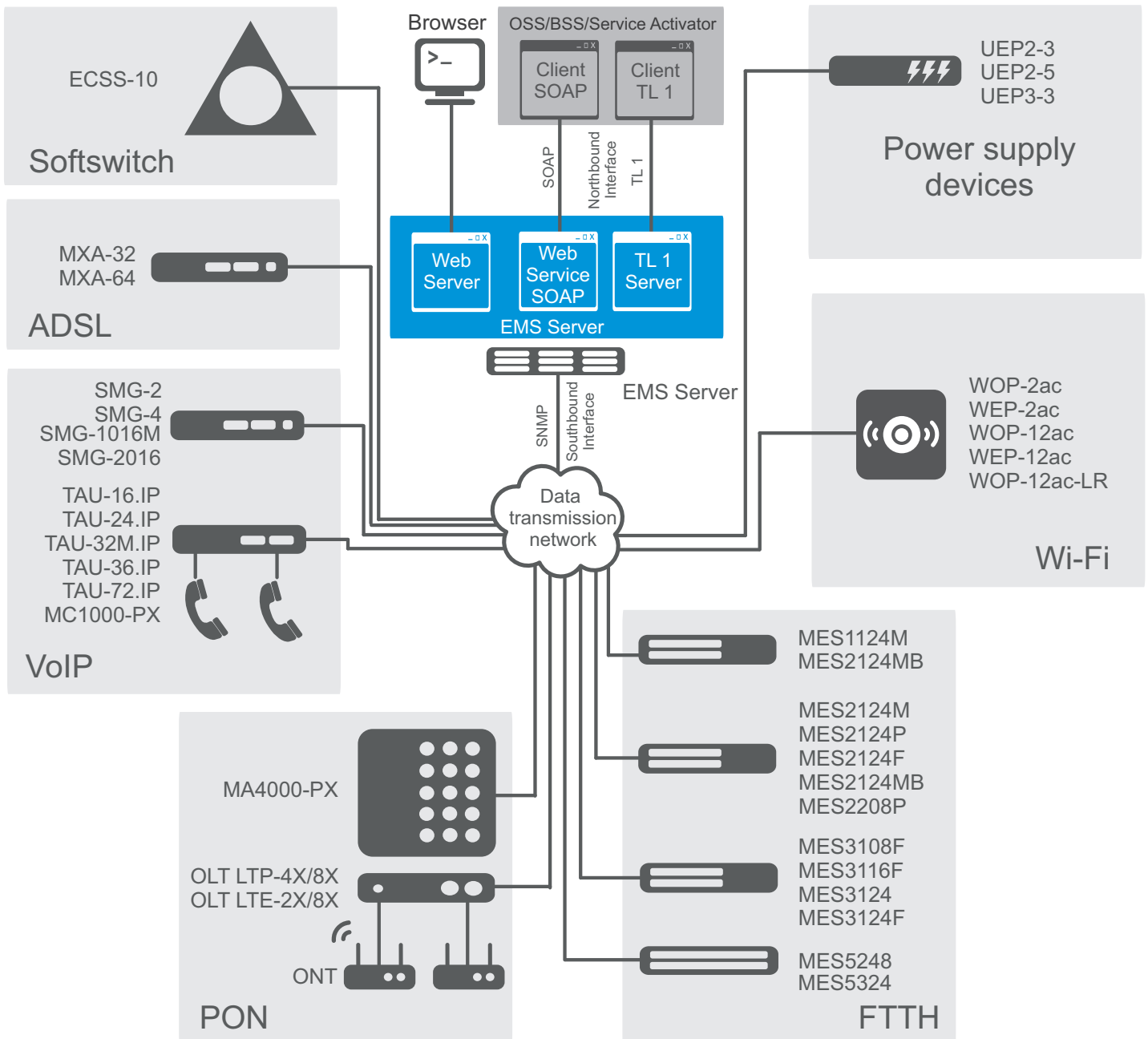
- UEP2-3; UEP2-5; UEP3-3

#### Wi-Fi equipment

- WOP-2ac; WEP-2ac
- WOP-12ac; WEP-12ac
- WOP-12ac-LR

**Eltex.EMS structure**

Name	Description
<b>EMS server</b>	System of data receiving, processing, interpreting, distributing and controlling
<b>Data base</b>	Data store is based on the MySQL DBMS. The database holds network object list and individual access settings for the each device ('snmp' parameters). Also it is used to storage user accounts, messages from devices and etc.
<b>Web Service SOAP</b>	Service is a part of Eltex.EMS system which provides integration with the superior OSS provider systems.
<b>Browser (Web browser)</b>	Software for query, process and data-out is the main control element. (It is a part of the operator workplace)
<b>Client SOAP/TL1</b>	System is a part of the OSS provider which provides integration with WEB Service SOAP/TL1 of Eltex.EMS system.



## Functional system capabilities

### Core system capabilities

- System backup
- Monitoring of the main device parameters: operation time, temperature, process loading, work of coolers, software version and serial number
- Statistic monitoring by using of the physical and logical interfaces
- Tracking temperature of terminals, drawing graphs, and sending email notifications
- Group operation on devices
- Visualisation of device external view with the current status of ports and sensors displayed
- Subscriber profile management for all the device types
- Power supply monitoring
- Automatic firmware updates on devices
- Automation of configuration files processing
- A system to receive and store alarm messages sent via SNMP
- A quick launch system for main configuration tools: SSH, TELNET, and Web
- Centralised collection of device messages via Syslog protocol with a possibility to filter them and display as text
- Subscriber port control: DSLAM, PON and VoIP configurations, profile destination

### Optional system capabilities for PON equipment

- Information about optical interfaces: module type, optical power and level of received signal, measured distance
- SEP-module control
- Information about the number of the PON network active subscribers
- Status monitoring and statistics gathering about Internet, VoIP, IPTV services for GPON subscribers
- System of the quick subscriber terminals search among Eltex linear terminals in the optical trees
- Statistics of the PON subscriber activity
- Control of the system for the mass software autoupdate of the PON subscriber devices
- Capability to control of the damaged ONT by using the fact of the frequent connection or RSSI-parameter overrunning
- Information about the installed PPPoE-sessions

### Optional system capabilities for the VoIP equipment

- Port testing in the TAU devices
- Adjustment of the ports, profiles, dialplans, serial groups and firewalls in the TAU devices
- Receiving and displaying of the alert messages from Softswitch ECSS-10

## Ordering information

Name	Description
EMS_OLT	EMS_OLT option of Eltex.EMS management system to control and monitor Eltex network elements: One OLT network element
EMS_MA4000	EMS_MA4000 option of Eltex.EMS management system to control and monitor Eltex network elements: One MA4000-PX network element
EMS_MES-3100	EMS_MES-3100 option of Eltex.EMS management system to control and monitor Eltex network elements: One MES-3100-PX network element
EMS_MES-access	EMS_MES-access option of Eltex.EMS management system to control and monitor Eltex network elements: One MES-1024 / MES-1124 / MES-2124 network element
EMS_MXA	EMS_MXA option of Eltex.EMS management system to control and monitor Eltex network elements: One MXA-32 / MXA-64 network element
EMS_MC1000-PX	EMS_MC1000-PX option of Eltex.EMS management system to control and monitor Eltex network elements: One MC1000-PX network element
EMS_TAU	EMS_TAU option of the Eltex.EMS management system to control and monitor Eltex network elements: One TAU-72.IP / TAU-36.IP / TAU-32M.IP network element
EMS_SMG	EMS_SMG option of Eltex.EMS management system to control and monitor Eltex network elements: One SMG network element
EMS_UEP	EMS_UEP option of Eltex.EMS management system to control and monitor Eltex network elements: One UEP2-3/ UEP2-5 network element

## About Eltex Company

Eltex Company is leading Russian developer and manufacturer of telecommunications equipment with 20 years of history. Integrity of solutions and seamless integration capability into customer infrastructure is priority area of company development

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