ELTEX

Integrated Networking Solutions

EMS

EMS

ELTEX

- – 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 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)

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; 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 configuration.

System installation

The Eltex.EMS system can be provided as a distributive (of deb packets) for wide-spread Linux operation systems – Ubuntu Server 14.04 amd64 LTS and Ubuntu Server 16.04 amd64 LTS. Virtualization is possible. The company supports public deb repository that provides quick and simplified installation of packets for demonstration and maintenance on customer's servers.

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
- – MES2300
– Aggregation
- – MES3100
- – MES3200
- – MES3300
- – MES3500
- – MES5100
- – MES5200
- – MES5300

VoIP devices
– Trunk gateways
- – SMG-2; SMG-4
- – SMG-1016M
- – SMG-2016
– Subscriber gateways
- – TAU-16.IP
- – TAU-24.IP
- – TAU-32M.IP
- – TAU-36.IP
- – TAU-72.IP
– MSAN MC1000-PX
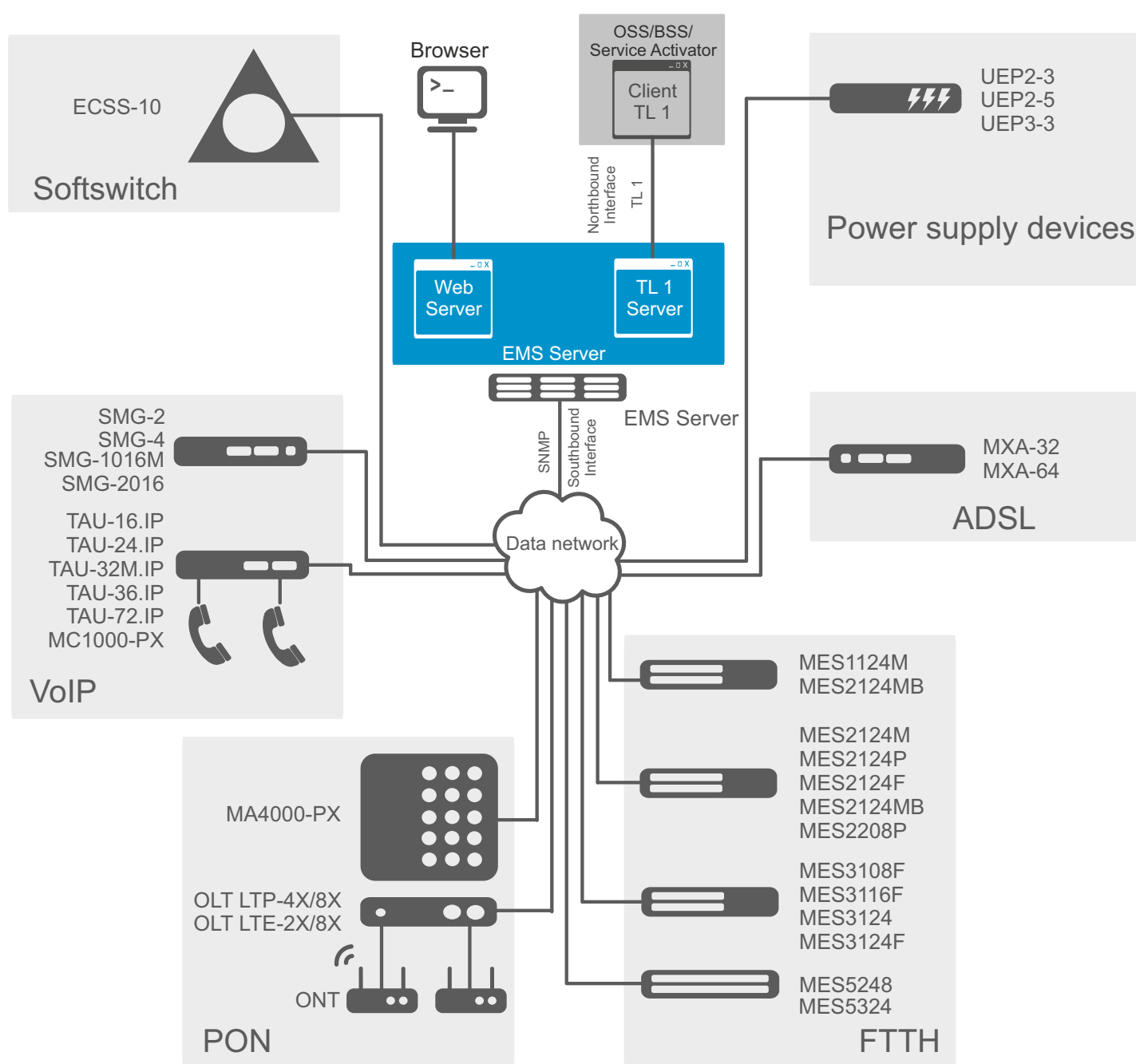
DSLAM devices
– MXA-32; MXA-64

Power supply devices
– UEP2-3; UEP2-5; UEP3-3; UEP4-1

Eltex.EMS structure

Name	Description
EMS server	System of data receiving, processing, interpretating, distributing and controlling
Data base	Data storage is based on the MySQL DBMS. The database holds network object list and individual access settings for each device ('snmp' parameters). Also it is used to store user accounts, messages from devices and etc.
Web browser	Software for data request, processing and output is the main control element (it is a part of an operator workplace).
Client TL1	System, which is part of the OSS provider, providing integration with WEB Service TL1 of Eltex.EMS system.

Use case

¹*Current firmware version 3.13.0*

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Features and capabilities

Key system capabilities

– System redundancy
– Monitoring of the main device parameters: operation time, temperature, process loading, work of coolers, software 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 launch system 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 software 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

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

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Eltex company is a leading Russian developer and manufacturer of telecommunication equipment with 26 years of history. Integrity of solutions and seamless integration capability into Customer infrastructure is a priority area of company development.