- **Device configuration and inventory data monitoring**
- **Logging and event analysis on equipment, detecting network troubleshooting and recommendations**
- **Centralized firmware updating**
- **Role-based access model, integration with LDAP/MSAD, and user activity logging**
- **Network maps with automatic detection of links between devices via LLDP**
- **GUI for firewall configuration on ESR and WLC**
- **Device terminal emulator**
- **Group editing of device configurations using Jinja templates**
- **Zero Touch Provisioning (ZTP) basic implementation**
- **IP fabric creation and monitoring**
- **Centralized management and monitoring of wireless network**
- **FBWA equipment monitoring**
- **Integration with Peeper**
- **REST API for collecting data on devices, groups, events, and tasks**



ECCM is a configuration monitoring and management service.

The service is managed via user-friendly web interface that provides convenient tools for customizing the service and network equipment to the user's needs.

Handling device configurations

According to user-defined rules, ECCM automatically searches the network for supported devices and starts monitoring all subsequent configuration changes.

The service allows a user to change configuration of specific devices manually. Each time a device configuration is changed, ECCM complements the incremental backup database. Any saved configuration version, as well as its differences from another selected version, can be viewed by a system user and applied to a device on user's command.

To manage firewalls on the ESR and WLC devices, a GUI is provided.

Network configuration automatization

The service minimizes labor costs required to reconfigure devices when replacing failed equipment with similar ones.

It provides tools for generating configurations from templates and applying them to groups of devices.

Working with device firmware

One of the most important aspects of maintaining a high level of network security is timely updating the firmware of network equipment. ECCM makes it possible to update the firmware of devices individually or in groups.

The updating is launched manually.

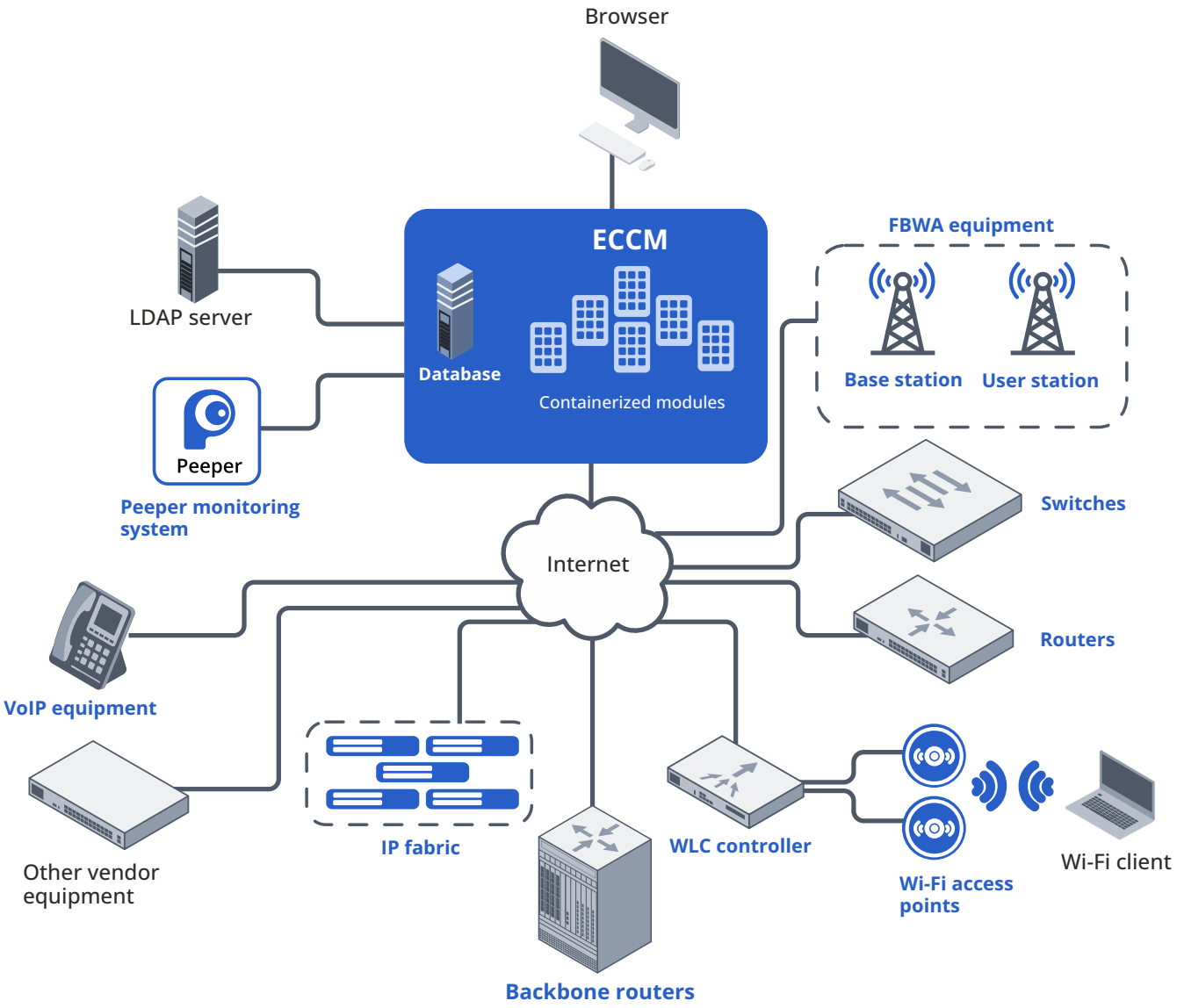
Event and issue management

ECCM implements services for collecting various equipment data, event logging, analysis, issue detection and providing recommendations on their troubleshooting, as well as sending notifications to users.

Features and capabilities

– Performing operations on individual devices: rebooting, firmware updating, configuration editing
– Creating device configurations
– Using Jinja templates when creating configurations
– Configuring firewall on ESR service routers and WLC wireless access controllers
– Monitoring and managing the ESR cluster
– Managing MES switch configurations via SNMP SET
– Template-based management of MES device configurations
– Group editing of device configurations
– Group import of tech-support files for MES/ESR/vESR devices
– Monitoring of device configuration changes
– Connecting to the device using a terminal emulator
– Service for storing firmware for devices
– Group update scheduler
– Maintenance of stacked switches
– Device grouping and user access restriction
– Device auto-discovery
– User roles with different rights
– User account blocking/unblocking
– IP address blocking
– Flexible configuration of password administration policies
– Integration with LDAP and Active Directory
– User authentication monitoring
– User action monitoring
– User session monitoring and management
– Real-time device state monitoring
– Collecting, storing, and analyzing inventory data and metrics from devices
– Device availability survey
– Detecting network issues based on event analysis, issue management
– Collecting, processing and storing wireless events
– Centralized management of WLC wireless configuration
– Access point layout on the floor plan
– Monitoring and management of access points and wireless clients
– Receiving, filtering and analyzing SNMP traps of devices
– Viewing detailed information about accepted traps
– Monitoring and processing SNMP traps of other vendor devices
– Downloading and viewing MIB files of other vendor devices
– Receiving, filtering and analyzing Syslog messages from devices
– Creating user dashboards
– Template-based description of events in event generation rules
– Sending notifications about issues and events via email/telegram channels
– Ability to forward events and issues to an external SIEM system

Use case


Browser
ECCM
Database
Containerized modules
LDAP server
Peeper
Peeper monitoring system
FBWA equipment
Base station
User station
Switches
Routers
Internet
VoIP equipment
Other vendor equipment
IP fabric
Backbone routers
WLC controller
Wi-Fi access points
Wi-Fi client

Supported devices

MES	ESR	ME	SMG[1]	TAU	WLC	WB	WOP
MES1024	ESR-1x	ME2001	SMG-2	TAU-16.IP	WLC-15	WB-3P-PTP2	WOP-3ax-LR5
MES11xx	ESR-15R	ME5000	SMG-4	TAU-24.IP	WLC-30	WB-3P-PTP5	WOP-3ax-LR6
MES14xx	ESR-2x	ME5000M	SMG-200	TAU-32M.IP	WLC-3200	WB-3P-PTP6	
MES21xx	ESR-30	ME5100	SMG-500	TAU-36.IP	WLC-3250	WB-3P-LR5	
MES22xx	ESR-31	ME5100S	SMG-1016M	TAU-72.IP	WLC-3350	WB-3P-LR6	
MES23xx	ESR-100	ME5100 rev.X	SMG-2016				
MES2300-xx	ESR-200	ME5200	SMG-3016				
MES24xx	ESR-1000	ME5200S	SMG-3116				
MES2410-xx	ESR-1200	ME5210S					
MES2420-48P	ESR-15xx	ME6008					
MES2420B-24D	ESR-1700						
MES2420D-24DP	ESR-3100						
MES31xx	ESR-3150						
MES33xx	ESR-3200						
MES3300-xx	ESR-3200L						
MES3400-xx	ESR-3250						
MES35xx	ESR-3300						
MES3500(I)-xx(F)	ESR-3350						
MES3500I-8P8F	vESR						
MES3510(D)S-xx(F)							
MES36xx							
MES37xx							
MES53xx							
MES5300-xx							
MES5305-48							
MES5310-48							
MES5320-24							
MES53xxA							
MES54xx							
MES5400-xx							
MES5410-48							
MES5500-xx							
MES5700-32							
MES7048							

[1] *SMG-2, SMG-4, SMG-200, SMG-500 — monitoring only; SMG-1016M, SMG-2016, SMG-3016 — for firmware version 3.20.5.X and later.*

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About Eltex

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.