



Iran
Communications
Industries



ECSS-10

ELTEX Class 4/5 Softswitch

- Functionality of private branch exchange, rural, city, trunk line, combined and international telephone exchanges
- Virtual PBX
- Call-center functions
- Teleconference
- Geographical redundancy
- Active-active redundancy mode
- Scalability
- User-friendly management interface

ECSS-10 is a hardware and software platform designed for integrated infocomm networks construction. The software and hardware components of ECSS-10 were developed and manufactured by ELTEX and have a high level of reliability.



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Application

4/5 class Softswitch ECSS-10 is a flexible system for any level communication center construction: departmental networks, enterprise networks and provider networks (local, zonal, transit, intercity, international).

Scalability

ECSS-10 modular architecture provides its scalability. It allows using the solution in small corporate communication centers as well as in international transit stations.

Virtual PBX

ECSS-10 supports Virtual PBX service. It allows connecting subscribers to dedicated Virtual PBX with private dial plans, modern services, billing reports, etc. Customers obtain up-to-date VoIP services without additional expenses for installing and maintaining of a standalone PBX.

Key Features

- More than 100 000 subscribers
- AutoProvision
- Certified as private branch exchange, rural, city, trunk line, combined and international telephone exchange
- Virtual PBX
- Call center
- Teleconference
- Operation as a SaaS platform
- Support for Session border controller functions
- Support for a wide range of VAS (Value Added Services)
- Group notification
- Support for Astra Linux
- Geographic redundancy
- Local redundancy
- Hot software update
- Load balancing
- Flexible IVR builder
- Support for widely used CRM systems, integration with customer CRM
- Operation under KVM and VMa Ware
- Support for TTS (Text to speech) and ASR (Automatic speech recognition)
- Subscriber portal

Mobile VoIP

Mobile IP telephony provides telecommunication services to remote subscribers and helps to optimize roaming costs.

The mobile VoIP service can be used anywhere via the Internet due to session border controllers (SBC). To access this service, just install a SIP application on your mobile device and activate an account.

With the FMC service, a subscriber mobile phone can be connected to a corporate network even without the Internet. In this case, all the data will be transmitted via GSM channels.

Monitoring and Management

All software and hardware components of ECSS-10 Softswitch are developed and produced by ELTEX. That allows implementing a unified monitoring and control interface via the Eltex.EMS system. The system provides a customer with easy-to-use management tools: elements aggregation, centralized configuration and firmware version management, scheduled maintenance, main parameters monitoring in a single window.

AutoProvision

Autoprovision subsystem is used for centralized configuration of phones and VoIP gateways. The subsystem allows uploading configuration files to end-user devices automatically. Equipment from a wide range of vendors is supported: ELTEX, Yealink, Cisco, Grandstream, Snom, Siemens, Fanvil, etc.

AutoProvision subsystem provides automatic configuration for different subscriber accounts and transparent replacing of a phone (not only by another model, but by a device from another vendor as well). After replacing a phone, the configuration will be adapted automatically.

The subsystem is able to synchronize a list of subscribers with ECSS-10 to keep the AutoProvision user base up-to-date.

Fault Tolerance

The cluster architecture of ECSS-10 Softswitch allows achieving 99.9999% reliability. Due to the local active-active redundancy and geographic redundancy, any single hardware failure won't be able to affect calls at any stage of their processing.

SIGTRAN

The SIGTRAN subsystem implemented on ECSS-10 supports MTP3, ISUP and M2UA. The redundancy system for signal and media traffic is fully supported. H.248/MEGACO are used as gateway management protocols. Supported transport protocols are SCTP, UDP and TCP.