

- Up to 2000 simultaneous calls
- Business process security
- Efficient management
- Hardware redundancy¹

Session border controller

Eltex SBC is an element of VoIP network that participates in call processing as a session border controller. The device provides signal protocol normalization, statistics collection and network protection against unauthorized access and attacks.

Application

Eltex SBC is deployed at the border of the IP networks:

- between service providers' networks;
- between service provider network and Customer's corporate network;
- between service provider network and a public network.

Features

- Ensuring security for service provider networks
- Public IP addresses translation
- Flexible distribution of redundancy routes
- Extended Firewall settings
- Statistics gathering
- Media streams transcoding²
- Alarm log
- Linear scaling²
- RADIUS access control
- Operation with subscribers behind NAT
- SDP analysis and verification
- End-to-end SLA²
- Dynamic firewall
- RTCP control
- RTP sessions management
- Efficient management
- Black and white lists
- Quality of Service (QoS)²
- Integration with Eltex.EMS
- Signaling protocol conversion²
- Load balancing between trunks
- Trunks with registration
- Flexible calls distribution according to established rules
- 1+1 redundancy¹



SBC-1000



SBC-3000

Bypassing NAT

NAT bypassing is a necessary feature that provides transparent transmission of voice and video traffic over IP networks. Different types of NAT are supported.

Security

Eltex SBC provides network protection against unauthorized access and DoS attacks. Intellectual access management, ingress load limiting and network topology hiding ensure security of a network.

Network topology hiding

Eltex SBC allows providing access to a carrier or corporate network from an untrusted connection, ensuring security of a Company business data.

The following mechanisms are used:

- intellectual IP addresses translation for signalling and media traffic;
- full B2BUA provides a required network isolation level.

Redundancy

Complete redundancy is ensured by the cluster redundancy scheme and presence of backup power modules.

Interconnection

Eltex SBC provides the opportunity of interaction between terminal devices that have non-intersecting codec packs² and different SIP versions and extensions.

	SBC-1000	SBC-3000
Load	up to 500 calls	up to 2000 calls

¹ Not supported for SBC-3000 in the current firmware version 1.10.0

² Not supported in the current firmware version 1.10.0

Features and capabilities

Signaling protocols

- SIP, SIP-T/I

SIP functionality

- SIP L5 NAT/Topology hiding
- SIP dialogue transparency
- SIP transit of unrecognized headers
- B2BUA as defined in RFC-3261
- RFC-2833 (Telephone Event)
- RFC-3264 (Offer/Answer)
- RFC-3204 (MIME Support)
- RFC-4028 (Session Timers)
- RFC-3326 (Reason Field)
- RFC-3262 (PRACK)
- RFC-3372 (SIP-T)
- B2BUA peering
- B2BUA access
- RFC-1889 (RTP)
- RFC-4566 (SDP)
- RFC-3261
- RFC-3581
- RFC-3515 (Refer Method)
- RFC-3265 (Subscribe)

Media protocols

- RTP and RTCP

Media modes

- Flow-through
- Flow-around²

Transport protocols

- TCP
- UDP
- TCP/UDP interworking

Network protocols

- LACP¹
- IPv4
- IPv6²

Video codecs

- H.263
- H.263-1998
- H.264

Capacity

- Up to 500 simultaneous calls (SBC-1000)
- Up to 2000 simultaneous calls (SBC-3000)

Redundancy¹

- Warm standby 1+1 redundancy
- Automatic switching to backup
- Automatic synchronization of primary and backup equipment settings

Security

- Up to 40 VLAN (up to 500 on SBC-3000)
- VPN (L2TP, PPTP)
- Rogue RTP detection
- Toll-free, fraud protection²
- Protection against SIP/ICMP DoS flood
- DDoS²
- Protection against overloading based on registration
- IP address filtering by geographical criterion

Fax transmission

- T.38
- G.711

Voice codecs

- G.711 (a-law, μ -law), G.729, G.729 (A/B), G.723.1, G.722, G.728, G.726

Quality of Service (QoS)

- IP priority mechanism²
- Differentiated Services Code Point (DSCP) marking²

Interfaces (SBC-1000)

IP

- 2 x 1000BASE-X ports (2 slots for SFP modules)
- 3 x 10/100/1000BASE-T (RJ-45) ports

USB port, 2 e-SATA ports

- Alarm logging
- Billing data recording

Interfaces (SBC-3000)

IP

- 2 x 10/100/1000BASE-T (RJ-45)/1000BASE-X(SFP) ports
- 2 x 10/100/1000BASE-T (RJ-45) ports

USB port, 2 slots for SATA HDD, form factor 2,5"

- Alarm logging
- Billing data recording

Connection statistics

- Writing CDR files to the SATA storage
- Writing CDR files to the remote FTP server
- Transmission connection data via the AAA protocol²

Management

The following management means provides access right differentiation:

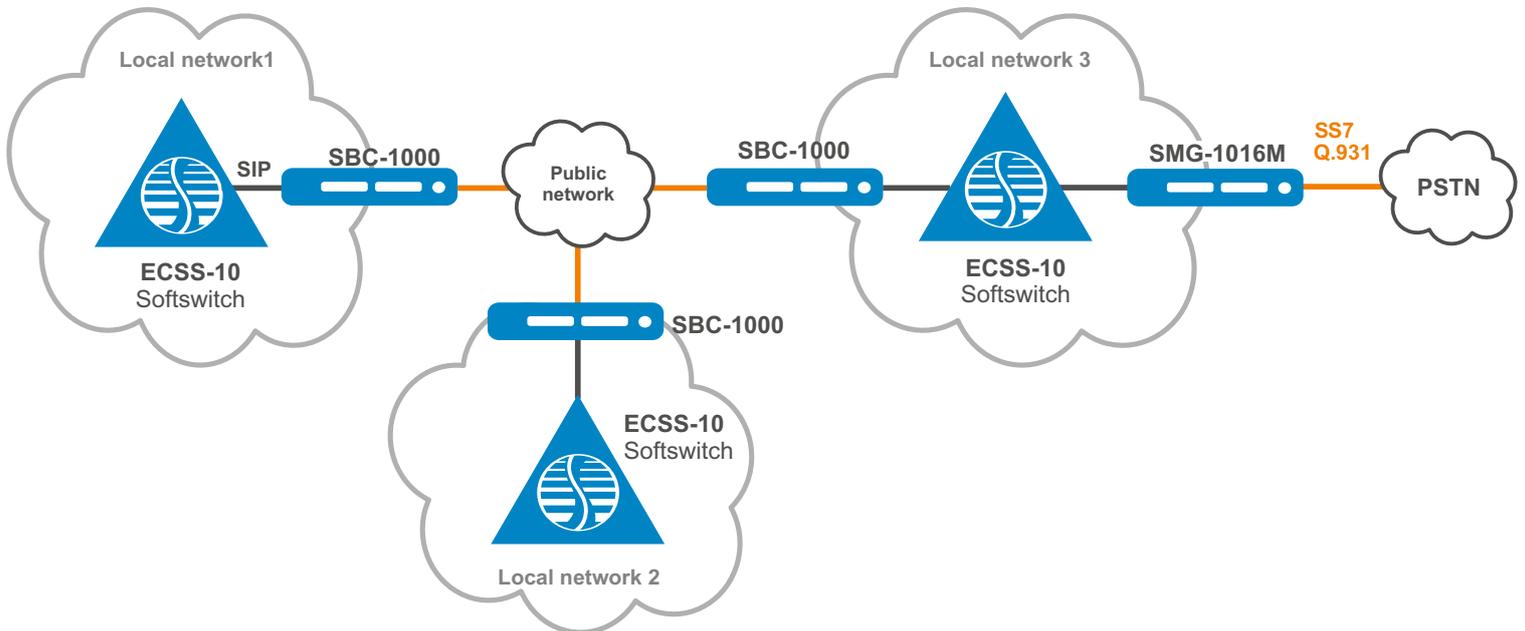
- MML console (SSH/Telnet)
- Web interface
- Active registration list monitoring and editing
- Possibility of integration with Eltex.EMS (SNMP)

¹ Not supported for SBC-3000 in the current firmware version 1.10.0

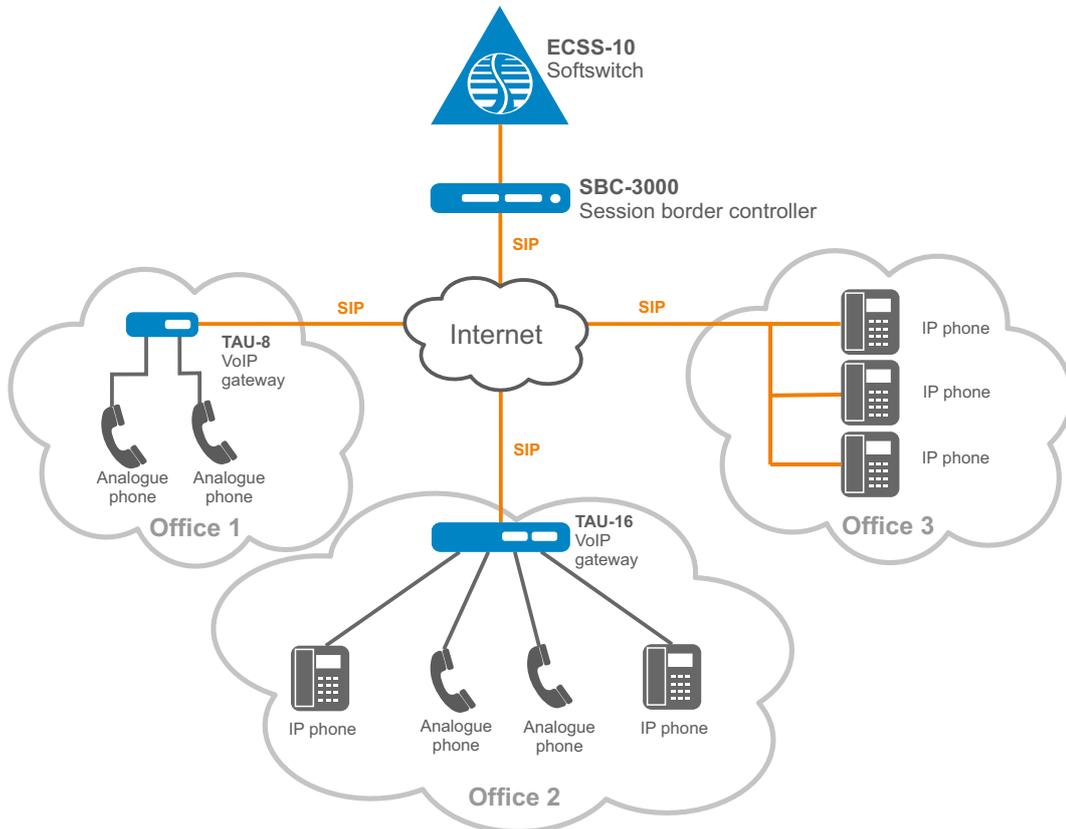
² Not supported in the current firmware version 1.10.0

Application

Service providers' interaction



«Virtual PBX» service



Physical parameters

	SBC-1000	SBC-3000
Physical specifications and ambient parameters		
Operating temperature	from 0 to +40°C	
Operating humidity	no more than 80%	
Noise level	from 44 to 60 dB	
Power supply	AC: 220 V+/-20%, 50 Hz DC: -48 V+30%-20% Power supply options: -1 AC/DC power supply; -2 hot-swappable AC/DC power supplies.	
Power modules	AC, power module PM160-220/12 160 W	DC, power module PM100-48/12 100 W
Maximum power consumption	50 W	
Dimensions (W x H x D)	430 x 45 x 260 mm	430 x 45 x 340 mm
Form factor	19", 1U	
Weight	3.2 kg	5.3 kg

Ordering information

Name	Description
Session border controller	
SBC-1000	Session border controller SBC-1000
SBC-3000	Session border controller SBC-3000
Supplementary modules	
PM160-220/12	Power module PM160-220/12, 220 V AC, 160 W
PM100-48/12	Power module PM100-48/12, 48 V DC, 100 W
Options	
SBC1-SW-500	Up to 500 simultaneous calls for SBC-1000
SBC1-RESERVE	Redundancy activation for SBC-1000
SBC3-SW-500	Up to 500 simultaneous calls for SBC-3000
SBC3-SW-1000	Up to 1000 simultaneous calls for SBC-3000
SBC3-SW-2000	Up to 2000 simultaneous calls for SBC-3000
SBC3-VNI-500	Up to 500 VLAN interfaces for SBC-3000

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About ELTEX

ELTEX company is a leading Russian developer and manufacturer of telecommunication equipment with more than 25 years of history. Integrity of solutions and seamless integration capability into Customer infrastructure is a priority area of company development.