

Resilient SIP Box (RSB)

Survivable remote site telephony for Broadworks - to better serve your customers

Efficient, high performance device, designed to provide telephony service for remote objects in case of accidents on the network.

Key benefits:

- fail-safety and routing flexibility
- no need to configure the local dial plan (if you work as part of Broadworks)
- communication channel quality control
- support of the basic network services
- provides VPN services
- supports secured connections TLS/SRTP
- tools for diagnostics
- connection to PSTN
- CDR generation



Exploitation

RSB provides a basic set of phone services (CALL TRANSFER, HOLD, N-WAY CONFERENCE, MOH), as well as connection to the PSTN. Flexible routing settings allow you to configure access to PSTN directions in case of IP PBX unavailability, and the generation of CDR will allow to bill for the completed calls correctly. The device provides up to 200 simultaneous calls at the moment when IP PBX is unavailable.

Intelligent call routing

The mechanisms of the communication channel quality control allow you to automatically redirect the SIP traffic to the alternative SIP Proxy or Voice Gateway. The administrator can configure up to 255 different destinations, controlling the timers and thresholds of switching between routes. It does not require any configuration of subscriber devices, and the switching occurs without any interruption of communications clear to the subscriber.

Monitoring, analysis and troubleshooting

RSB is equipped with network connectivity diagnostics, which enables it to collect traffic using the tcpdump tool and storing it on a local flash drive for further analysis. Also, there is the required access to the statistical information that RSB uses to interact with the SIP servers. The SNMP protocol support enables RSB to be connected to the monitoring systems.



Additional features

RSB allows to localize the mechanisms of subscriber devices provisioning in order to save bandwidth on WAN channels. For this purpose, a local flash drive is used and protocols FTP/TFTP are supported. RSB also provides DHCP, DNS and NTP services. These functions allow to localize everything you need on RSB to operate IP telephony services, freeing network equipment from non-typical functions.

Security

RSB, in order to improve connections security, can act as a VPN server that can be connected to subscriber devices (PPTP) or which can be connected a higher-level VPN server (L2TP). Besides, RSB also provides protection for SIP connections using the TLS/SRTP protocols.

Fail-safety

RSB provides work in a clustered configuration, while switching between cluster nodes is carried out without interrupting the ongoing conversations. Also it is possible to replace the system software of RSB without service interruption in cluster mode.

Our company

We develop and manufacture IT equipment and solutions. Our experts have over 20 years of experience in IT. Our primary business profile includes development and production of resilient horizontally scalable data storage systems, solutions for ensuring information security and solutions for telephony and telecommunications.

RCNTEC's flagship products are

- Resilient Cloud Storage, a fault-tolerant, easily scalable data storage system
- Resilient Power Control Module (RPCM), a module for remote power management in data centers
- Resilient Sip Box, a telephony gateway providing fault tolerance
- AUTH.AS, a high-performance horizontally scalable two-factor authentication service
- COMPLAUD, a system for monitoring information security and auditing for standard and configuration compliance

We supply solutions to large oil and gas companies, banks, leading telecommunications operators, delivery services, online malls and so on among our clients.

The network connection scheme

