

Product Datasheet

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SVI-SBC

Session Border Controller



The SVI-SBC is a state-of-the-art, cloud enabled, Session Border Controller providing comprehensive network edge security for fixed and mobile service providers and large enterprise customers.

The SVI-SBC is a mature, proven product deployed globally since 2011 and built from the ground up to deliver carrier grade robustness, scalability and flexibility.

The innovative, distributed software architecture has insured that the SVI-SBC is a single software component that can be delivered across a range of platforms. The SVI-SBC can be shipped on Commercial-Of-The-Shelf (COTS) Dell servers. It can be delivered as a Virtual Machine (VM) into any data center environment using a hypervisor like VMware. Finally it can be enabled in the cloud as a Virtual Network Function (VNF) running in OpenStack cloud infrastructure or as a VNF in Amazon Web Services (AWS) public cloud.

FEATURES

- Scalability: 500 to 30K cc
- Cloud Enabled
- Leading Edge Security
- Full Media Support
- Feature Rich OA&M
- Powerful SIP Message Manipulation
- Comprehensive Service Assurance
- High Availability Options

APPLICATIONS

- ✓ Peering - Comprehensive session control, interworking and media management
- ✓ SIP Trunks - Robust, flexible SIP trunking solution
- ✓ SKYPE for business - Support for Microsoft "Skype for Business" SIP interconnects
- ✓ IMS Interworking - support for A-SBC and I-SBC access and interworking modes. VoLTE interconnect support.
- ✓ Real-Time Fraud Prevention - Combat SIP based fraud in real-time with the integrated SVI-FPG Fraud Prevention Gateway
- ✓ Lawful Intercept - Enable ETSI, CALEA, SIPREC intercepts

SVI-SBC

Technical Specifications

PERFORMANCE

- Simultaneous Calls 500 to 30,000
- Calls Per Second (CPS) 500
- Max Subscribers up to 250,000

VoIP SIGNALLING PROTOCOLS

- SIP, SIP-I, SIP-T, H.323

VoIP MEDIA

Transcoding Support

- G711u/a, G.729, G723.1, G726, T.38, AMR/AMR-WB, GSM-FR, GSM-EFR, Silk, Opus, EVRC-A/-B, EVRC-NW2K

ENCRYPTION

- SIP TLS
- SRTP
- ZRTP

SECURITY

SBC DoS/DDoS protection

- Allow trusted/authenticated users access while under DoS attack
- Dynamically accept or reject traffic based on device behaviour
- Throttling and Overload Protection

Topology Hiding and Privacy

- Hide network topology preventing direct attacks and maintain privacy
- Mask user information for privacy and confidentiality

Access Control

- Control of max concurrent sessions
- Filter devices/networks on a per application basis
- Permit access to known devices or networks
- Authorize/deny access for registered users; permit or deny access to mask users
- Dynamically accept or reject traffic based on device behaviour
- Accept media only for authorized sessions

VoIP PROXY

Signalling Proxy

- SIGTRAN, H.248, MGCP

Media Proxy

- Voice, Video, Fax, DTMF

IMS INTERWORKING

- I-SBC
- Interconnect SBC supporting
- IBCF, IWF, I-BGF / TrGW
- A-SBC
- Access SBC supporting
- P-CSCF, E-CSCF, BGCF, AGW, ATCF, ATGW
- VoLTE

SERVICE ASSURANCE

- Statistical Analysis
- Debug and Trace
- Sophisticated Routing
- Elastic Stack / Kibana support

FRAUD PREVENTION

- Combat fraud in real-time
- Integrated Fraud Prevention Gateway
- Seamless interface to industry firewalls
- Enable call tear-down, transfer

RADIUS

- RADIUS AAA support
- RFC 2138,2139
- Cisco VSA compliant

DIAMETER

- Diameter Rf

LAWFUL INTERCEPT

- ETSI 101 671

SUPPORT



Squire Technologies provides a range of post-sales support packages to meet client requirements and budget up to and including 24x7 365 day support.



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