squire technologies
Signalling Specialists to the Telecoms Industry

SS7 VoIP

Leading edge SS7 and VoIP products with world class installation and support services to deliver carrier grade telecom products worldwide
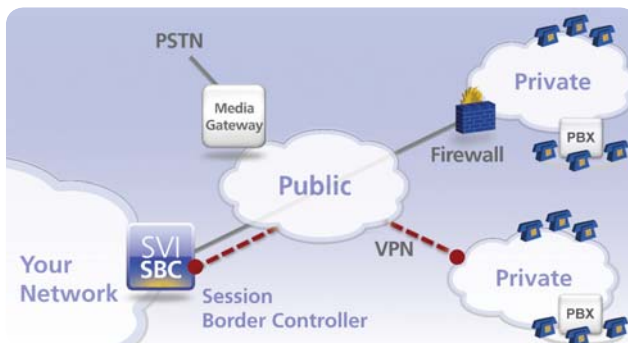
SVI-SBC

Session Border Controller

The SVI-SBC polices real-time multimedia traffic between IP network borders ensuring your Private network is robustly secure and fully manageable. Built to protect your IP core and ensure network availability.

This cost effective SBC provides unified or distributed signalling deployment while securing the network boundary from comprehensive Denial Of Services (DOS), registration throttling and authorization overload with comprehensive firewall protection including subscriber authentication and policy enforcement. Focused session management capabilities are controlled using the industry leading Graphic User Interface (GUI) which simplifies the process of securing and managing your network border.

Benefits

At its core the SVI-SBC offers the following key components :-

- **Core Network Unification** - Simplifying, reducing the costs and power demands of your core network.
- **Security** – comprehensive security features including protection from Denial Of Service (DoS) attacks, User Authentication, Access Control, Fraud Prevention.
- **Service Level Agreement (SLA) Assurance** – Providing session admission control, overload protection, failure detection, re-routing and recovery, transport control QoS marking, quality reporting and routing.
- **RFC Inter-working** – Full interoperability between industry standard protocols SIP, H.323, SIP-I, SIP-T.
- **Network Address Translation (NAT)** - Full support for NAT traversal including comprehensive Network Topology Hiding.
- **Voice Transcoding** – Feature rich support for wire and wireless codecs and inter-codec translation. *(requires hardware)*
- **Redundant Architecture** – Ensures 99.999% reliability at network edge.

Features

- Comprehensive security features including DoS, DDoS protection
- SIP, SIP-I, SIP-T, H.323, SIGTRAN
- NAT Firewall Traversal
- Topology Hiding
- Public to Private Network Traversal
- Security Assured Connection using VPN
- Scales from 500 to 10,000 simultaneous calls
- Full redundancy support for automatic fail-over
- Comprehensive web GUI/CLI interface
- Full Class 4 SoftSwitch capabilities

SVI-SDK

Create your own service logic for this product using our SQL Development Kit. The SDK enables you to create or manipulate existing databases to deliver your unique service

To find out more visit squire-technologies.com/svi-sdk

squire technologies
Signalling Specialists to the Telecoms Industry

SS7 **VoIP**

Leading edge SS7 and VoIP products with world class installation and support services to deliver carrier grade telecom products worldwide

Technical Specifications

Security

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

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

VPN Support
- Secure L2 and L3 VPN customers
- Support inter-VPN sessions
- IPSEC - Encryption levels: DES, 3DES, AES
- PPTP - PPP (PAP or CHAP), 40/128bit MPPE
- L2TP

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
- Full RADIUS AAA support
- Accept media only for authorized sessions

Fraud prevention
- Perform signalling and media validation by authenticating and authorizing users

Firewall Traversal Capabilities

NAT/PAT Translation
- Allows for public to private address translation.

Network Topology Hiding
- Allowing VoIP endpoint IP addresses to be hidden from their IP destination.

VoIP Supported Protocols

SIP, SIP-I, SIP-T, H.323
- Visit www.squire-technologies.com/products/svi-softswitch-specifications.php for a comprehensive list

VoIP Media

Voice Transcoding Support
- G711a, G711µ, G723, G723.1, G729, G726, GSM FR, AMR, iLBC

High Bandwidth > Low Bandwidth

Low Bandwidth > Low Bandwidth

VoIP Coders

Proxy all of:
- Voice, Video, Fax, DTMF

Tunnelled/Proxied Protocols

SIGTRAN, H.248, MGCP

Intelligent Routing Function

Full Class 4 Routing capabilities including
- Least Cost Routing (LCR)
- Percentage Routing
- Call Re-attempts
- White List/Black List

End Point Support

SIP phone

Softswitch

Media Gateway

PBX

SIP Proxy

Gatekeeper

Hardware Options

Form Factor
- PCI

Chassis
- P2500 2U Rack Mount Chassis, full length expansion slots
- Redundant PSU 550W + 550W Autoranging 90 - 265V AC
- 1 or 2 Intel Quad Core Xeon E5504 2GHz 4.8GT/s Embedded
- 2 embedded GB ethernet ports
- 4 x GB ethernet PCIe card (expandable up to 12)
- 2 x SSD Raid 80GB 2.5" SATA (expandable up to 2TB)
- DVD RW +/-R

Environmental
- EN55022, EN55024, CISPR 22,
- 47 CFR 15 (ANSI C63.4: 1992)

Safety
- BSEN 60950, EN41003:
- 1998, IEC CB Scheme 1950 Third Edition
- RoHS Compliant

Related Products

- SVI-MG Media Gateway
- SVI-MGC Media Gateway Controller
- SVI-C4 Softswitch Upgrade

Visit www.squire-technologies.com

For further product information on SS7 VoIP products for carriers, operators and service providers, plus case studies and customer testimonials.

Ask the Experts
Call + 44 1305 757314

Partners & Resellers
Squire Technologies are actively building partnerships globally.

Contact us for information about resellers in your country, or find out how to establish a channel partnership.

Specifications and other information and images herein is subject to change without notice.

© squire technologies