

SS7 Media Gateway



The SVI_MG SS7 Media Gateway enables Next Generation VoIP and VoLTE / IMS networks to seamlessly interconnect to legacy PSTN and mobile 2G + 3G networks.

The Squire's SS7 Media Gateway provides a single, one-stop SS7 to VoIP /VoLTE product solution offering full signalling interconnect and media conversion to industry-standard codecs.



BENEFITS

With full support for VoLTE and IMS based standards the SVI-MG media gateway from Squire Technologies provides a full Breakout Gateway Control Function (BGCF). It provides clients with a mature, proven, carrier grade technology packed with feature rich capabilities derived from over 15 years of global deployments.

As standard the SVI Media Gateway provides a fully featured onboard and remote management interface, powerful routing engine and built in security with a range of industry standard interfaces i.e. RADIUS and SQL to allow seamless integration into clients existing routing and billing network infrastructure.

The SVI_MG also offers a feature rich gateway platform providing call progress tones, voice announcements. Bolt-on options include an integrated and comprehensive wholesale billing platform and SIP registration database.

Our media gateway has been deployed globally and combined with Squire Technologies first class installation and support services allows new VoIP services to be delivered rapidly and cost effectively.

The SVI-MG is offered in two models, the 1000 and 8000 to satisfy client's deployment requirements and budget.

FEATURES

- Comprehensive web GUI/CLI interface
- Scales from 1 to 72 E1/T1
- SIP, H.323, SIP-I, SIP-T
- Full support for VoLTE/IMS BGCF
- Support for wide range of industry standard VoIP Codecs
- SS7, ISDN
- SIGTRAN
- 1+1 Redundancy Support
- RADIUS support for 3rd party billing
- Intelligent Call Routing
- Network Management over SNMP

SVI_MG 1000

Technical Specifications

Physical Dimensions

Physical interfaces

- E1/T1

Scaling

- 1 to 72 E3

Upgrades

- 1E1, 2E1, 4E1 & 8E1

Form factor

- PCI

Chassis

- 1U, 2U, 4U

SS7 Dimensions

- SS7 Signalling links - 128
- Originating Point Codes OPC - 32
- Destination Point Codes DPC - 1024
- Linksets - 128
- A, F SS7 link support

PSTN Supported Protocols

SS7

- ANSI, ETSI, ITUT and over 50 variants

ISDN

- ETSI, ITUT, ANSI and country/switch variants

VoIP Supported Protocols

SIP Version 2

SIP-T

- RFC 3372 Session Initiation Protocol for Telephones (SIP-T)

SIP-I

- ITU Q.1912 for ISUP/C7-to-SIP inter working

H.323

- ITU Version 2 and 4 Fast and Slow Start Gateway and Gatekeeper interconnect

SIGTRAN

- IM3UA, M2UA, M2PA, IUA

VoIP Media

Voice Coders

- G.711, G726/G727, G723.1, G.729 A/B, Linear PCM, GSM-FR, MS-GSM, OKI ADPCM, NetCoder, G.728, G.729E, EVRC, QCELP, AMR, GSM EFR, ILBC

Echo Cancellation

- G.165 and G.168 with 32, 64 or 128 ms tail length

Fax

- T.38 compliant group 3 fax relay, FAX over G711

DTMF Packet and PSTN side detection and generation

- RFC 2833, SIP Info, H323 Event

Call Progress tone, VAD, CNG, modem detection, jitter buffer, silence suppression

IP Management

- ToS/DiffServ support

Routing & Call Management

- Called/Calling Party Number
- Originating Route
- Time of Day / Week
- Reattempt on alternative routes
- Call blocking
- Digit Manipulation
- Protocol Manipulation
- SQL Support for MySQL

System Logging

- Real time configurable logging levels
- Detailed protocol debug
- System and exception logs
- User and Admin history

SNMP

- SNMP Version 2

Billing

CDR

- CSV format for easy analysis
- Automated FTP upload

RADIUS

- RFC 2139, 2138 Cisco VSA compliant

Integrated Wholesale Billing

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- Detailed protocol debug
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Hardware Options

Chassis options depending on customer requirements

- Standard entry level chassis 1U, 2U & 4U Hardware High Availability chassis -48 DC and 240 AC

Environmental

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

Safety

- BSEN 60950
- EN41003: 1998
- IEC CB Scheme 1950 Third Edition

Support

Squire Technologies provides a range of post-sales support packages to meet client requirements and budget. These range from 6 months web and email support provided free of charge on all purchased products to dedicated 24/7 telephone support



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