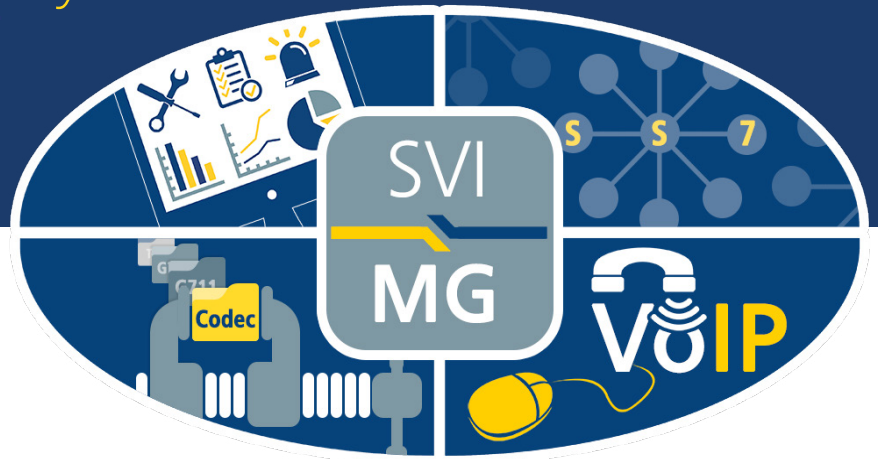


## SS7 Media Gateway



The SVI\_MG 8000 media gateway is the flagship product in the SVI-MG range providing for the largest deployments with full carrier grade dual redundancy as standard.

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.



### BENEFITS

With full support for VoLTE and IMS based standards the SVI-MG provides a full Breakout Gateway Control Function (BGCF). A mature, proven, carrier grade technology packed with feature rich capabilities derived from a decade of global deployments.

Provides as standard 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, SQL to allow easy integration into clients existing routing and billing network infrastructure.

The SVI-MG media gateway offers a comprehensive feature rich gateway platform that provides call progress tones and voice announcements. Bolt-on options include an integrated wholesale billing platform and SIP registration database.

The SVI-MG has been deployed globally and combined with Squire Technologies first class installation and support services allows new VoLTE and VoIP services to be delivered rapidly and cost effectively. The SVI-MG is offered in 2 models, 1000 and 8000 to satisfy client's deployment requirements and budget.

### FEATURES

- Support for E1/T1/STM-1/T1/T2/T3
- 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
- Fully featured OA&M interface

# SVI\_MG 8000

## Technical Specifications

### Physical Dimensions

#### Physical interfaces

- E1/T1, OC-3/STM-1/DS3/T3

#### Scaling

- 8E1 to 1000E1, 1 to 9x STM-1, 2 to 27 T3

#### Upgrades

- 8E1, 16E1, 1x T3, 2x T3, 3x T3, 1x STM-1

#### Form factor

- PCI

#### Chassis

- 1U, 2U, 5U, 8U, 11U

### 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

- M3UA, 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, PostgreSQL

### 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

### System Logging

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

### 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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**Squire Technologies**

[www.squire-technologies.co.uk](http://www.squire-technologies.co.uk)

Tel:

+44 (0)1305 757 314

Fax:

+44 (0)1305 757 309

Email:

[enquiries@squire-technologies.co.uk](mailto:enquiries@squire-technologies.co.uk)