squire technologies
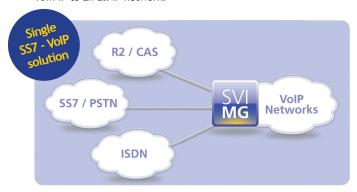## Signalling Specialists to the Telecoms Industry

SS7 VoIP

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

SVI-MG 1000

SS7 Media Gateway

The Squire's SS7 Media Gateway provides a single, one-stop SS7 to VoIP product solution offering full SS7 to SIP/H.323 signalling interconnect and TDM Voice/Data conversion to industry-standard VoIP Codecs.

This entry level product allows carriers, ISPs and service providers to add VoIP network breakout to legacy SS7, ISDN, CAS and R2 networks scaling from 1E1 to 72E1 allowing full migration from a TDM-IP to an all-IP network.

Benefits

Where competing media gateways only provide lower layer access to the PSTN network especially for SS7 interconnect, the SVI-MG SS7 Media Gateway provides full call control routing for SS7 traffic without the need for third party media gateway controllers or protocol converters.

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** offers a feature rich gateway platform providing call progress tones, voice announcements. Bolt-on options include an integrated wholesale billing platform, SIP registration database, and a fully featured Call-Back service.

The **MG** has been deployed worldwide and combined with Squire Technologies first class installation and support services allows new VoIP services to be delivered quickly, cost effectively and is offered in 3 models, **1000, 2000** 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

- Support for wide range of industry standard VoIP Codecs

- SS7, ISDN, CAS, R2

- SIGTRAN

- 1+1 Redundancy Support

- Optional Integrated Wholesale Billing

- RADIUS support for 3rd party billing

- Intelligent Call Routing

- Network Management over SNMP

- Fully featured OA&M interface

- SIP Registration

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Make the switch

www.squire-technologies.com

* Due to ongoing revision of our products, images may vary.

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Technical Specifications

Physical Dimensions

- **Physical Interfaces**
  E1/T1
- **Scaling**
  1 to 72 E1
- **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 link support - Yes

PSTN Supported Protocols

- **SS7**
  ANSI, ETSI, ITUT and over 50 variants
- **ISDN**
  ETSI, ITUT, ANSI and country/switch variants
- **CAR/R2**
  MF-R1, MFC-R2 with many country 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 and 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

Statistics

- Call statistics (Ingress, egress)
- ASR, PDD, ACD, QoS (native and SNMP)
- CDR analysis

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.

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.

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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.

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