

## SVI-MGC

# SS7 Media Gateway Controller

The SVI-MGC SS7 Media Gateway Controller enables SS7 on leading VoIP Media Gateways using industry based standards - MGCP, MEGACO H.248, SIGTRAN, SIP, SIP-I, SIP-T and H.323.



The globally deployed product enables clients to interface their VoIP networks to traditional SS7 PSTN based telephone networks allowing the rapid launch of VoIP services, NAS Modem Dial-Up and distributed networks with industry leading VoIP Media Gateways from Cisco, AudioCodes and Alcatel-Lucent.

## Benefits

- **Excellent ROI** - allows clients to deploy SS7 on Media Gateways already in their existing networks
- **Multi vendor choice** - MGC supports multi-vendor Media Gateways allowing clients to choose the media gateway to match their requirements - not tying clients to any single vendor
- **Investment** in equipment is based on real demand - scale the SVI-MGC to match clients bandwidth requirements as and when needed through software-based license key updates.
- **Software deployment** model allows rapid remote deployment and avoids shipping / import issues

Couple the above features with full Dual Plane Redundancy support providing automatic failover for unparalleled reliability. Full support for RADIUS and SQL database standards, optional integrated Web Based Wholesale billing solution, a fully featured OA&M (Operations Administration and Maintenance) interface providing secure remote access, real time configuration, intelligent call routing, detailed logfiles, onboard CDRs, web based SNMP performance monitoring solution the SVI-MGC provides a full end-to-end carrier grade SS7 to VoIP product solution.



## Features

- Comprehensive web GUI/CLI interface
- Standards based SIGTRAN, MGCP, MEGACO, SIP and H.323
- Compliant with industry leading media gateways, Cisco, AudioCodes and Alcatel-Lucent
- Scales to 10,000 simultaneous calls using software license key upgrades
- 128 SS7 signalling links
- Dual plane redundancy for automatic fail-over
- Full featured OA&M
- Intelligent Call Routing

## Support



Post-sale support packages are available to meet all customer requirements including dedicated 24/7 mobile support.

## Technical Specifications

### SS7 Dimensions

- SS7 Signalling links - 2 to 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

### VoIP Supported Protocols

- SIP
  - RFC 3261 Session Initiate Protocol
  - RFC 2976 SIP INFO Method
  - RFC 3398 ISUP-SIP Mapping
  - RFC 3515 Refer Method
  - RFC 3578 Overlap
  - RFC 2327 Session Description Protocol
  - RFC 3581 An Extension to the Session Initiation Protocol (SIP) for Symmetric Response Routing
  - RFC 3665 Session Initiation Protocol (SIP) Basic Call Flow Examples
  - RFC 3666 Public Switched Telephone Network (PSTN) Call Flows
  - RFC 3892 Referred-By Mechanism
  - RFC 3891 "Replaces" Header
- 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

- M2UA, M3UA, SUA, M2PA, IUA

### Scalability

- Supports up to 10,000 simultaneous calls
- Simple license key upgrades
- Supports up to 100 media gateways

### 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

### Redundancy

- 1 + 1 Dual Plane worker/standby
- Automatic fail-over
- Single IP - VIP address

### 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 Platform

### System Logging

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

### Hardware Options

- Physical Interfaces
  - Dependant on Deployment
  - E1/T1/T3 J1 (configurable) STM-1/DS3/OC3
- Form Factor
  - PCI
- Chassis
  - 1U - Telco Standard
- 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](http://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



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