SVI-MGCF Product Overview

The SVI-MGCF is a state-of-the-art, virtualised, Media Gateway Controller Function providing extensive interworking support between next generation IMS & VoIP networks and legacy SS7 networks.

Highly Flexible MGCF

The SVI-MGCF provides a gateway between traditional Circuit Switched (CS) SS7 networks and next generation IMS based networks such as LTE and VoLTE.

Our highly flexible product provides registration and management of resources on industry leading Media Gateways. Fully scalable the SVI-MGCF can be used to deploy large distributed networks with centralised intelligent routing and configuration.

The SVI-MGCF provides conversion between SS7-ISUP signalling, SIP-I, SIP-T and traditional IMS compliant SIP using H.248 MEGACO to control Media Gateways and DIAMETER to record charging information.
Key Specifications

Fully scalable - utilised to deploy large distributed networks with centralised intelligent routing and configuration including dedicated Technical Architecture and Installation teams.

Scalability
• 500 to 50,000 sim calls
• 128 x SS7 Signalling Links
• 2000 CAPS

Billing Support
• RADIUS AAA
• DIAMETER
• Onboard CDRs
• SQL

Protocol Support
• Number Portability etc.
• RADIUS /DIAMETER – AAA
• SQL, SOAP, XML, HTTP

Media Gateways
• Support up to 100 media gateways
• Off-the shelf support for Cisco + AudioCodes Media Gateways
• Free lab test for all MGCP/ MEGACO compliant gateways
Key Features

A flexible pricing model to meet budget expectations, scale of deployment and future growth requirements with carrier grade technology packed with feature rich capabilities.

Intelligent Call Routing
- Called / Calling Party
- LCR / Time of day
- Outgoing Call Manipulation
- Reattempts

API Support
- Integrate with external BSS billing, Number Portability etc.
  - Radius / Diameter - AAA
  - SQL, SOAP, XML, HTTP

High Availability
- Comprehensive carrier grade redundancy options as standard

OA&M
- Comprehensive web based SVI-MS Management System providing: Configuration, Monitoring, Debug

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Deployment Scenarios
Deployment Scenarios

Deployment Model 1

Deployment Model 2
SVI-MGCF Benefits

✔ First Media Gateway Controller deployed in 2004.

✔ Carrier grade technology packed with feature rich capabilities.

✔ Flexible pricing model to meet budget expectations, scale of deployment and future growth requirements.

✔ Dedicated Technical Architecture and Installation team.

✔ 24x7 365 Day Global Support.
Distributed Architecture

Microservices
- SVI-MGCF architected on microservices principals separating the signalling and media planes into distinct software components.

Centralised Signalling Plane
- High availability.
- Centralised routing and control.

Distributed Media Plane
- Dynamically launched to match demand.
- Distributed across territories.

Delivers
- Distributed Architecture.
- Elasticity - rapid auto-scaling to match network bandwidth and latency.
- Dynamic Load Balancing - for optimal network performance.
- Network Resiliency - coupled with high availability delivering carrier grade reliability.
High Availability

- 1+1 Dual Plan Worker/ Hot Standby
  - Database and signalling information check pointed between planes
  - Replicated hardware and software
- Maintain SIP, TDM calls in answer on failover
- Eliminates single points of failure
- Five Nines uptime (99.999%)
- Single Point code spread across dual plane architecture
- Single IP service address using VIP technology
- Real time Maintenance upgrades
Services & Support Packages

Product Services
Choose from our range of Product based services to deliver installation, training, ongoing support and product enhancements to ensure your continued business success.

Managed Platform as a Service
This allows clients to lease core network products while our dedicated network specialists will install and commission products directly into your network with ongoing support provided.

Support Packages
Providing a range of post-sales support packages to meet client requirements and budget.
Let’s Talk…

Squire Technologies Limited are a UK based core network product vendor to the Telecoms industry. Talk to us today about your network signalling issues and plans for the future.

International Accreditation ISO9001

Following in-depth evaluation by an independent assessor, Squire Technologies has been successful in achieving ISO 9001 Certification.

This prestigious award is internationally recognised as a benchmark of standardised and quality procedures and systems within the operation of an organisation.

ISO 9001 is a set of requirements against which the quality management system of an organisation is evaluated. This certification assures customers that the production processes in place at Squire Technologies have been measured and achieved a standardised award. This award indicates that Squire Technologies is committed to operating to these requirements and has subscribed to ongoing and regular, internal and external audits of its systems.

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