

QuesCom SIM Server

A COMPLETE SIM CARD MANAGEMENT SOLUTION
FOR QUESCOM GSM GATEWAYS

The QuesCom SIM Server centralises SIM cards in one place providing huge benefits while operating large GSM gateways deployment.

SIM centralisation

With the QuesCom SIM management solution, SIM cards are not located in GSM gateways and dispatched anymore but centralised in one place.

SIM management becomes quick and easy. Nevertheless, an architecture can mix local SIM cards in GSM gateways and remote SIM cards in SIM server.

Intelligent routing

The QuesCom SIM server routes calls intelligently thanks to pre-defined rules. When prepaid cards or monthly plans are running short of credit, SIM cards are automatically removed from routing tables.

A new SIM card is then immediately allocated improving drastically your ASR (Answer Seizure Ratio) and taking full advantage of your GSM gateways.

As an addition to your QuesCom GSM gateway solution architecture, the QuesCom SIM Server takes the best out of GSM providers price plans. By gathering all SIM cards in one single location, it manages the SIM allocation without the need of human intervention.

According to the time of the day, calls to GSM are routed to the best SIM card without ever exceeding plans.

No more need to send technical people on site every few days to change SIM cards; all management operations are done from a central site even if your GSM gateways are deployed in several locations or even across countries.

Key benefits

Highly scalable architecture

Up to 224 SIM cards support per chassis

Price plan management

Easy SIM management per GSM provider

No changes on your existing architecture

Main features

Always use the right SIM at the right time

Easy web based management

SIM mobility simulation

Dynamic SIM swap

QuesCom SIM Server

A COMPLETE SIM CARD MANAGEMENT SOLUTION FOR QUESCOM GSM GATEWAYS

Solution architecture

The QuesCom SIM Server consists of 3 entities :

- the SIM array, the SIM card bank,
- the SIM proxy,
- the SIM server management software that provides an intuitive web-based interface to manage the SIM.

They communicate with each other through TCP/IP with QuesCom GSM gateways.

Each entity can be installed at different locations. They can scale independently, given your needs & business.

The QuesCom SIM Server is fully compatible with both QuesCom 400 GSM and QuesCom 400 IP/GSM and does not require any hardware nor software changes.

SIM ARRAY

Dimensions	Rackable 19", 6U
Power requirements	Power supply 220V/110V 50-60 Hz
SIM card boards	Hot swappable compact-PCI board Automatic SIM 3V and 5V detection 32 x ID-000 SIM format per board Up to 7 boards per chassis (224 SIM)
Local network	Ethernet 10/100 Mbps , TCP/IP protocol

SIM PROXY

Dimensions	Rackable 19", 1U
Power requirements	Autoranging power supply 100-240 V AC 150 VA
Capacity	Manage up to 60 GSM gateway ports
Local network	Ethernet 10/100 Mbps , TCP/IP protocol

SIM MANAGEMENT SOFTWARE

Minimum PC configuration requirements	Operating system : Windows 2000 or XP Processor : Pentium 4, RAM : 512 MB, Hard disk : 20 GB 17" colour screen, keyboard, mouse, 1 CD-ROM driver, 1 Ethernet 10/100 port
----------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

SIM allocation

SIM cards are stored in the SIM array. The GSM gateway queries the SIM proxy in order to get remote SIM cards.

The SIM management software allocates SIM cards to GSM gateway's ports. While in operation, it also shows SIM usage for each GSM gateway.

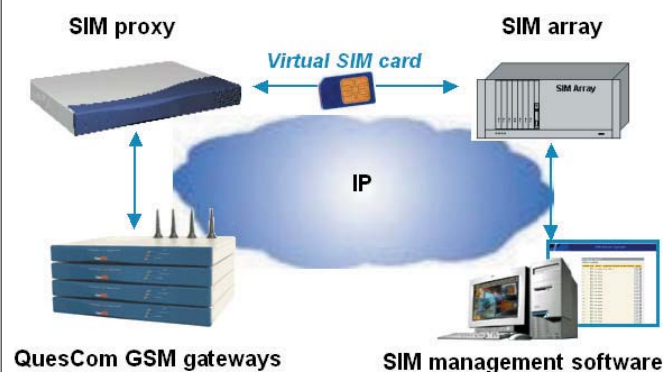
Management rules

The SIM management software allocates SIM cards to GSM gateways according to criteria like :

- time-of-the day
- SIM group mapping
- GSM port group mapping
- GSM provider
- prepaid limit and threshold
- Pay Monthly/ Pay As You Go plan support
- maximum usage time per day.

It can then decide to swap SIM cards according to these criteria.

QUESCOM SIM SERVER ARCHITECTURE



QuesCom

www.quescom.com
info@quescom.com

Headquarters
7, rue Soutrane
B.P. 327
06906 Sophia Antipolis Cedex
France
Tel. : +33 (0)4 97 23 48 48
Fax : +33 (0)4 97 23 48 49

Sales office
Parc des Barbanniers Bât 16
3, allée des Barbanniers
92230 Gennevilliers
France
Tel. : +33 (0)1 41 47 27 00
Fax : +33 (0)1 41 47 27 09