

SMPP Gateway

Whitepaper

AGOSTO 2009

www.iquall.net/mensajeria_smppgateway.html



SMPP Gateway

Introduce yourself in the SMS World without being an expert in the field of telecommunication. Use your actual platforms to connect to a cell phone network.

The SMPP Gateway is a protocol converter which goal is to interconnect existent systems (XML, SMTP, APIs, etc) with SMPP services for SMS messages. This product allows an easy integration between SMS Platforms and any kind of external application in a simple way. This allows the access to the SMPP world which makes possible to send quality service SMS and preferential transference rates.

The Gateway accepts messages originated from an application or system which sends a mail via SMTP and sends them to the SMS platforms using the SMPP protocol. In addition, has an XML entrance that allows a similar conversion.

As a complementary feature the Gateway allows bidirectional communications, this means that the message received can answer it from his cell phone and the one who sends the answer will be received via SMTP by the original application.

It is ideal for messages exchange with different operators and technologies (3G, GSM, TDMA, iDEN and CDMA) in a simultaneous way and using a single interface.

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Cases of use	Conversion of Messaging Protocols	Added-value services based on MMS	MVNO SMS Integration	Applications requiring SMS/MMS

Operation

The system is a protocol converter achieving an efficient interaction between different worlds of messaging.



Diagram of use

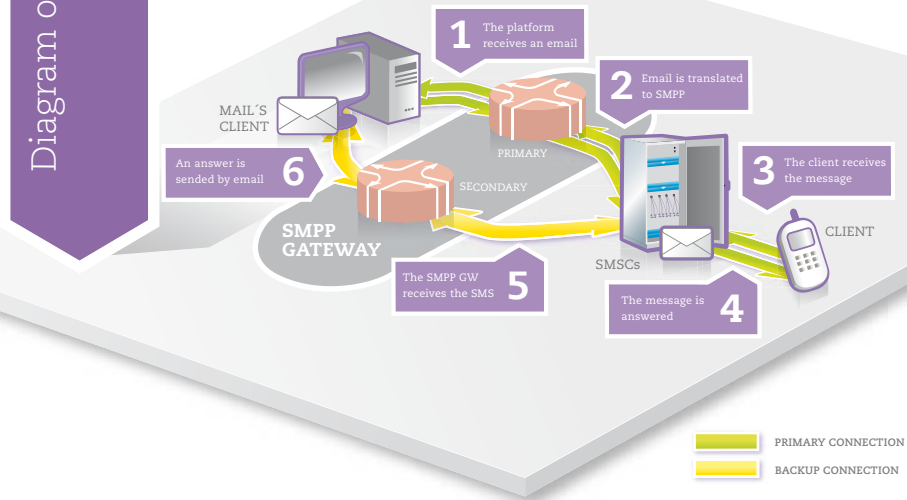
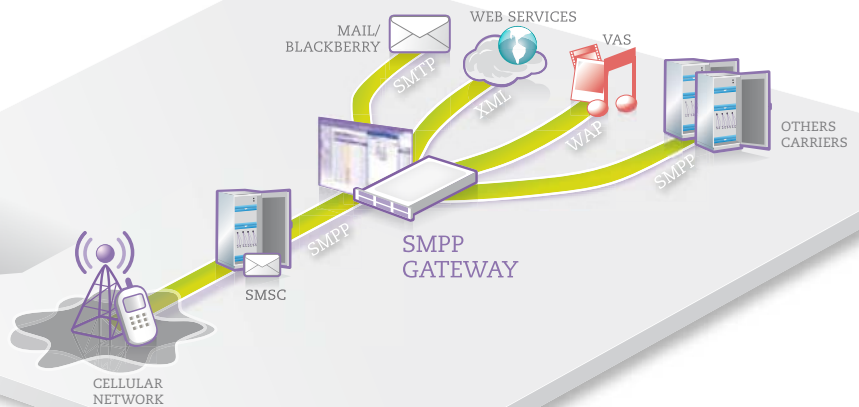


Diagram of the network



Summary

Highlights

- 1000 SMS/sec.
- SMTP Authentication
- Bidirectional communication
- SMPP v3.3 and v3.4, EMI/UCP, SMTP, SOAP, XML Protocols
- Linux O.S.
- Redundant configurations

Features

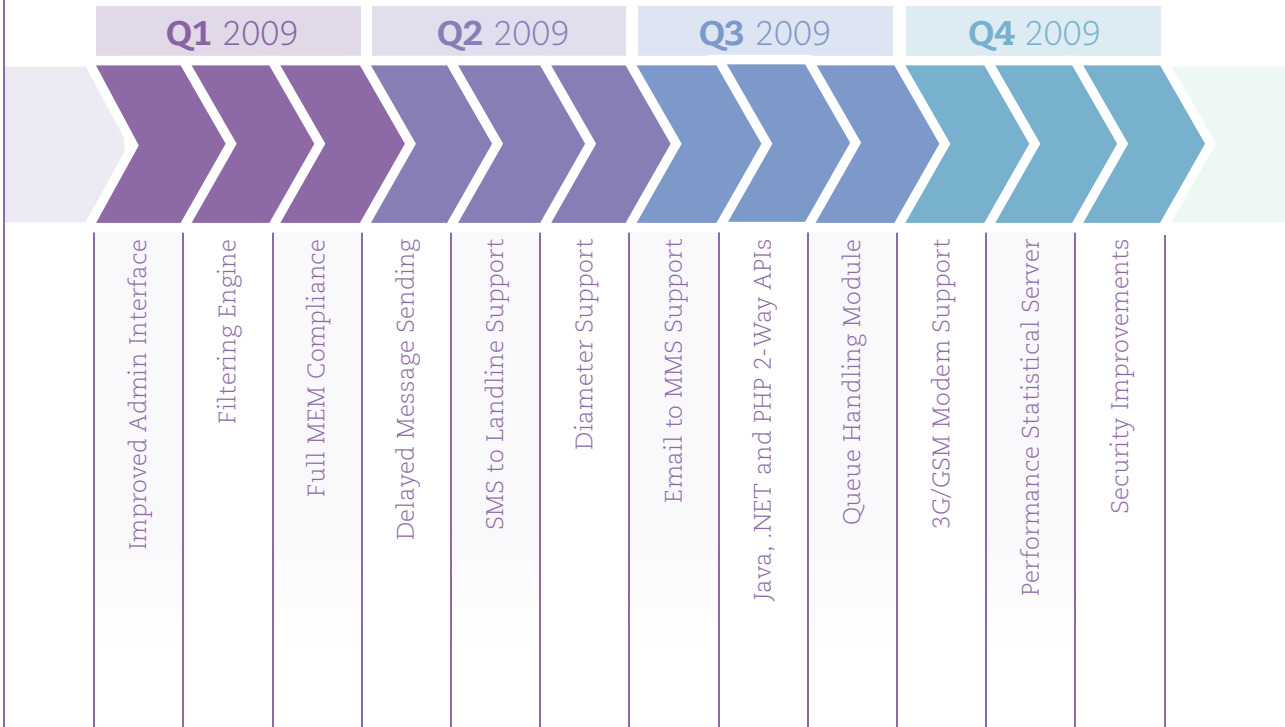
- Simple integration to SMS world
- SMTP, SMPP, UCP and XML interfaces
- SMS Applications based deployed in minutes
- Optimization of informatics resources

Technical Specifications

Functionality	SMS Legacy integration SMTP SMS Gateway VAS Service Gateway
Supported protocols	SMPP v3.3 SMPP v3.4 EMI/UCP (Using SMPP Router) SMTP SOAP XML
Non Stop Operation	SMPP GW can be configured in a cluster operation using an Hot Stand By or Load Balancing Architectures
Supported SMSC	Logical, Huawei, Motorola, Sema, Converse, SS8
Capacity	More than 1000 SMS/seg.
Load balancing	Supported
Remote Management	The management can be made by an web based interface using an standard web browser
Hardware	The system can be installed in Linux or Unix environments. No networks adapters or specific HW is needed
Operative system	Linux Unix



Roadmap



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Recommend hardware

To achieve a scalability in the integration of futures versions and expansions of Iquall Networks' products, the recommend hardware consist on several HP servers on the Enclosure C3000 with N+1 Power Redundancy.

The recommend servers for a Sase Cluster consists on two modules BL260c G5 with:

- 1xQuad Core
- 8GB RAM
- HD 3x160GB



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