



# MessageMover SMS Proxy

## SMS HUBBING

*Broaden your coverage and recover otherwise lost revenue. Account for AA.19*

## SMS ANTISPOOFING

*Successfully block faked SMS-MO going through your SMSC*

## SMS ANTIFAKING

*Block faked SMS-MT going towards your network which try to get around AA.19*

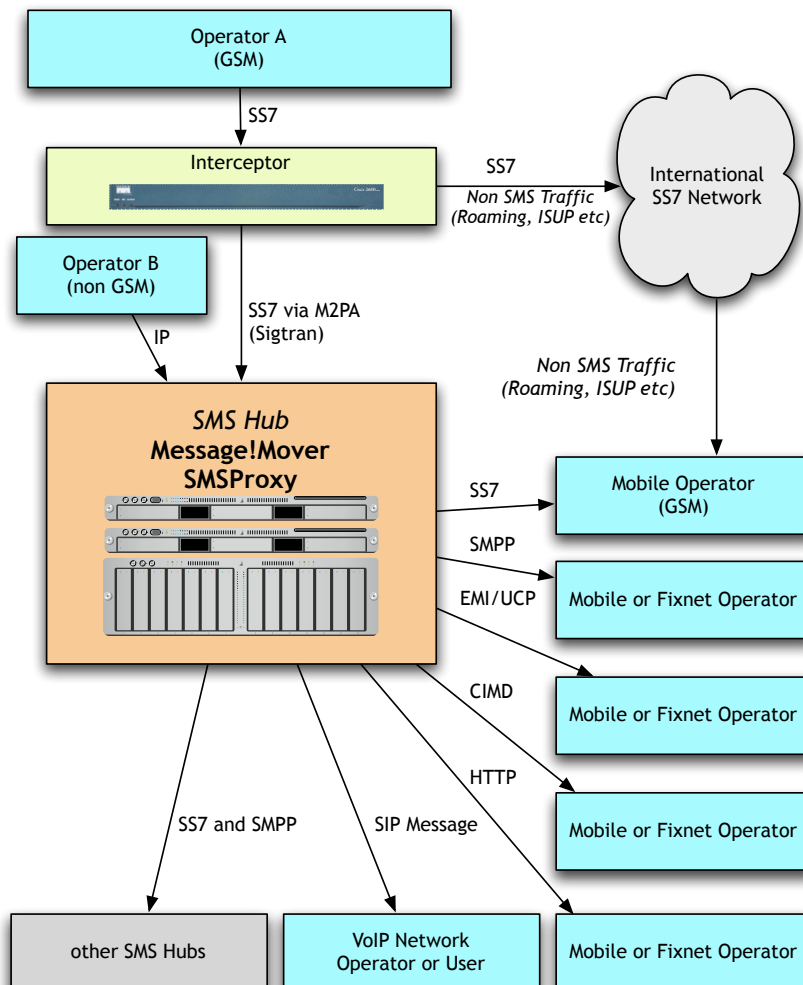
## SMS INTERWORKER

*Exchange SMS with VoIP SIP based SMS, PSTN SMS, Mobitex, CDMA, Pagers etc.*

## SMS HUBBING

Message!Mover SMSProxy is a product which follows the upcoming GSMA IR.75 specification about SMS Hubbing while integrating additional protocols and features. It allows to break out SMS by destination network and route them to its hub for delivery to destinations you can't reach today or for whom you need to do AA.19 accounting.

Message!Mover SMSProxy of course supports delivery to roaming subscribers as well as number portability.



### Supported Standards:

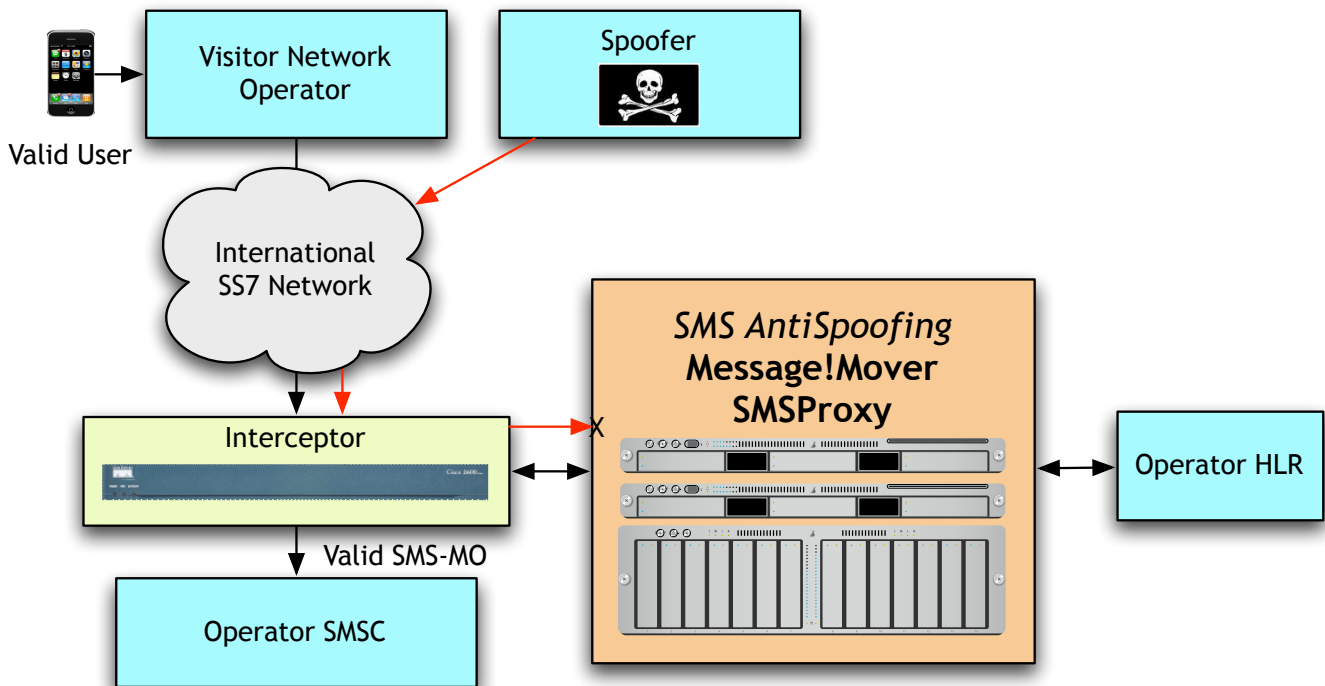
SMSProxy supports a large variety of protocols and standard to accept and deliver SMS:

- ITU SS7
- MTP3, TCAP, GSM-MAP
- Sigtran SCTP, M2PA, M3UA, SUA
- SMPP
- EMI/UCP
- HTTP (Kannel Style)
- CIMD
- Mobitex MDOT, SIP Message
- IR.70 aware
- AA.19 accounting output

### Planned Features for 2007:

- ETSI ES 201 912 PSTN SMS
- ISDN fixet SMS
- ANSI SS7
- IS41 support

SMSHubbing is available as a license part of of Message!Mover SMSProxy. Its also the base of the Global Network's Hubbing Service.



## SMS ANTISPOOFING

Message!Mover SMSProxy supports SMS Anti Spooing to block fraud SMS-MO coming from foreign sources. It does this by verifying the real location of the valid user. If the subscriber is inside the operator's network or if the subscriber is roaming on a foreign network but the MSC's address inserted as originating MSC by the spoofer is incorrect, the message is being dropped.

If the spoofer is smart enough to request the current location by sending a SendRoutingInfoForSM request first, he will reveal his real identity. Also he gets a modified answer which will force the routing of the SMS through SMSProxy (the same mechanism is used in SMSHubbing). In other words, he will never be able to find out the real location of the subscriber and because of this, he will never know the MSC's number to put into the SMS-MO as sending address to bypass the filter mechanism.

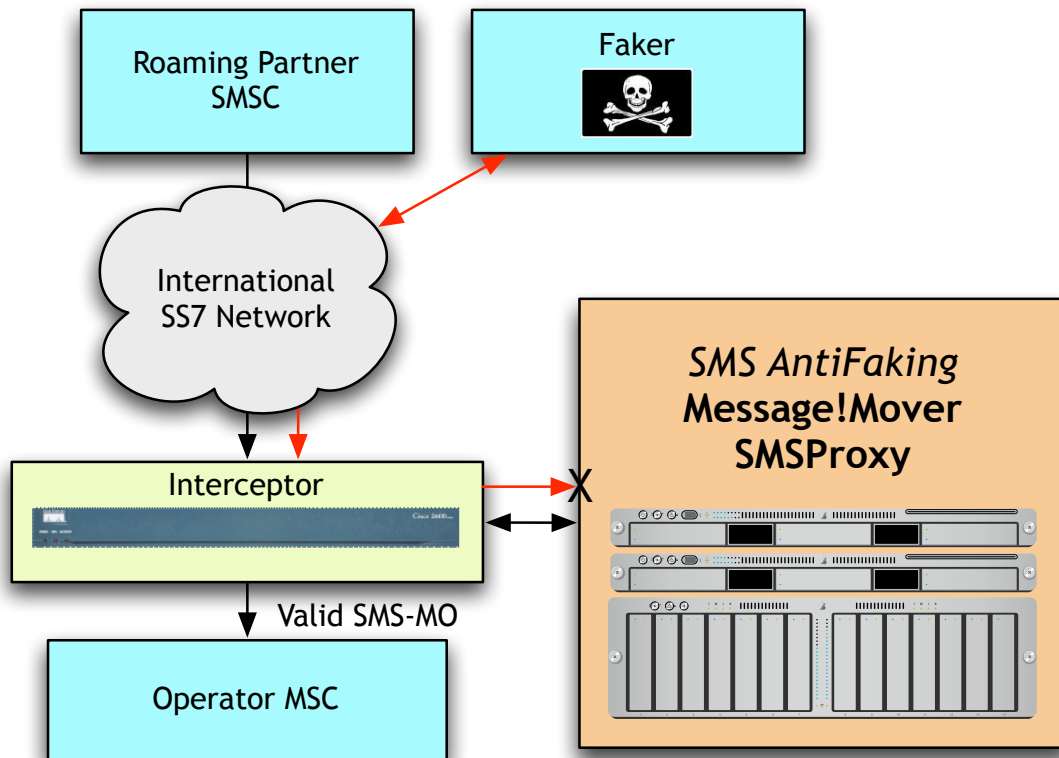
SMSAntiSpooing (pat. pending) is a very efficient way to block outside SMS going through your SMSC for which you have to pay AA.19 fees to the terminating network. It also blocks abuse of premium service short ID's by non subscribers. It further does account for AA.19 valid incoming MO messages and when combined with SMS Hubbing and/or SMS AntiFaking accounts the MT messages too.

SMS AntiSpooing can be part of a Message!Mover SMSProxy SMS Hubbing solution or can be implemented independently of it or combined with other Message!Mover solutions such as the Message!Mover SMSC, Message!Mover SMS Interworker or Message!Mover SMS AntiFaking.

### SMSAntiSpooing supports:

- ITU SS7
- MTP3, TCAP, GSM-MAP
- Sigtran SCTP, M2PA, M3UA, SUA
- IR.70 Spoofing blocking
- AA.19 accounting output for SMS-MO

SMS AntiSpooing is available as a license part of Message!Mover SMSProxy or as a hosted service by Global Networks Switzerland AG



## SMS ANTI FAKING

Message!Mover SMSProxy supports SMS Anti Faking to block fraud SMS-MT coming from foreign sources. Faking is defined (according to IR.70) as traffic coming from a SMSC with invalid SMSC number in the ForwardShortMessage GSM-MAP Message.

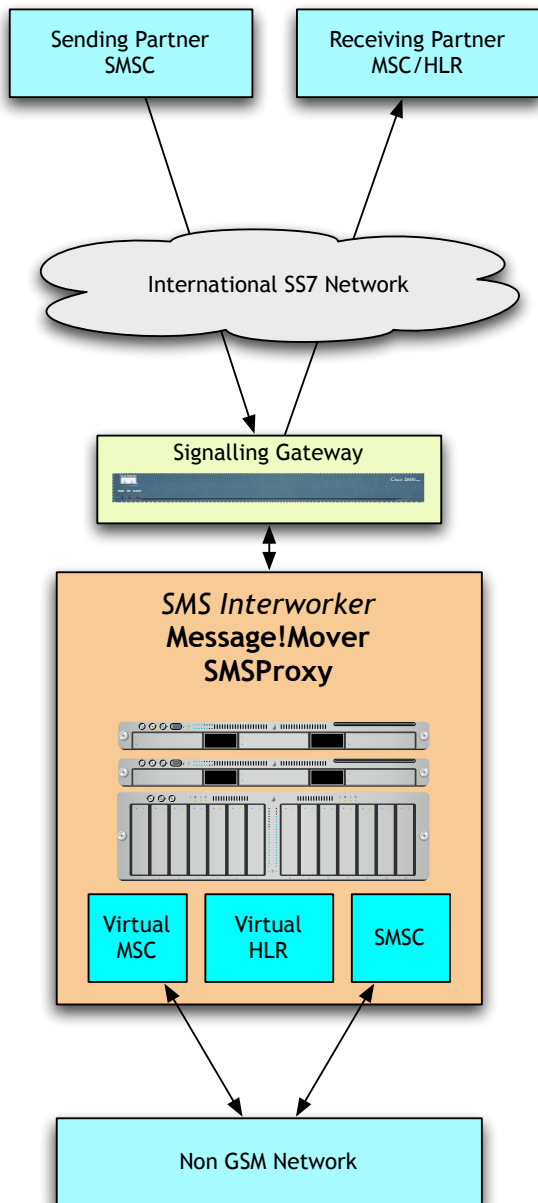
### SMS AntiFaking supports:

- ITU SS7
- MTP3, TCAP, GSM-MAP
- Sigtran SCTP, M2PA, M3UA, SUA
- IR.70 Faking blocking
- AA.19 accounting for incoming SMS-MT

SMS AntiFaking is available as a license part of Message!Mover SMSProxy or as a hosted service by Global Networks Switzerland AG

The "Fake" SMSC sends a normal SendRoutingInfoForSM request to find the location of the subscriber. Message!Mover SMSProxy logs this request and modifies the location MSC and IMSI number in the message for delivering the Forward SM. The "fake SMSC" will then forward the message to Message!Mover SMSProxy with the indicated MSC number and IMSI. If the calling number of the SMSC is not the same as in the previous request, the requesting SMSC is faked and thus the message will be dropped. If the sending SMSC is still the same, the calling number must be valid because only that SMSC has received that exact answer so the SMS-MT will pass in this case.

SMSAntiFaking (pat. pending) is a very efficient way to block faked SMSC to deliver to your network and have someone else paying for it. It is an excellent way to enforce AA.19 revenue. It also does account for AA.19 valid incoming MT messages so you can easily collect AA.19 revenues from foreign operators when they send to your network. SMS AntiFaking can be part of a Message!Mover SMSProxy SMS Hubbing solution or can be implemented independently of it or combined with other Message!Mover solutions such as the Message!Mover SMSC, Message!Mover SMS Interworker or Message!Mover SMS AntiSpoofting.



## SMS INTERWORKER

Message!Mover SMS Interworker is a GSM network simulation for non GSM Networks to allow sending and receiving of SMS.

Message!Mover SMS Interworker can send SMS as a normal GSM SMSC and it can receive SMS by simulating a mobile GSM Network for the foreign SMSC delivering to it. Message!Mover SMS Interworker can be used to deliver to any type of non GSM network such as a Mobitex two way paging network, a VoIP SIP network (via SIP Message), a CDMA or TDMA network (via SMPP, EMI/UCP, CIMD or similar SMSC access protocol) or it can be used to deliver messages to applications directly.

## THE MESSAGE!MOVER PRODUCT FAMILY

The Message!Mover (M!M) product family consists today out of:

- M!M SMSC                      Deliver GSM SMS
- M!M SMS Hubbing            IR.75 Hubbing Solution
- M!M SMS AntiFaking Block faked SMSCs delivering SMS-MT
- M!M SMS AntiSpoofing      Block fake MSCs delivering SMS-MO
- M!M SMS Interworker      GSM network simulation
- M!M SMS Mail                SMS to e-mail gateway
- M!M MMSC                    Multimedia Messaging Center
- M!M WAP Gateway        WAP Gateway

M!M SMS Proxy is a bundle of SMS Hubbing, SMS Anti Faking, SMS Anti Spoofing and SMS Interworker.

*New products planned for release in 2007:*

- M!M Desktop SMS            Send and receive SMS from your desktop
- M!M PSTN SMSC              Support of PSTN SMS (Analog and ISDN)



**Global Networks Switzerland AG**

Clarastrasse 3  
4058 Basel  
Switzerland

tel:            +41 61 6666333  
fax:            +41 61 6666334  
e-mail:        info@global-networks.ch  
web:            www.global-networks.ch