



# HSL Application SMSC

## Short Message Service Center for A2P and P2A SMS

*The HSL Application SMSC allows operators and service providers to deliver services that use ubiquitous SMS messaging to bridge the gap between applications and mobile devices.*

The HSL Application SMSC becomes part of the SS7 signalling network of the operator or service provider using SIGTRAN M2PA or M3UA to enable applications connected to the SMSC using SMPP over IP to send and receive SMS. The SMSC is available from HSL for installation within the signalling network or as "Platform as a Service" (PaaS) with or without pre-existing international signalling connectivity to mobile networks worldwide.

Outbound mobile terminated SMS messages can be sent from the SMSC at a high rate and delivery confirmed to the sending application. Individual messages can have the timestamp localised to the country to which the mobile belongs so that recipient can relate the message to the time in their own time zone.

Inbound messages can be received with low latency and high throughput by the SMSC from mobiles using one of three methods and relayed to an application. Mobiles can use the SMSC as their own service center and submit messages direct to the SMSC. Using the Virtual Mobile Number method mobiles can send SMS to mobile numbers belonging to the service provider or operator that are associated with the SMSC instead of a physical mobile. Finally, using the Virtual SIM hosting method a SIM from a roaming partner of the service provider or operator can be "roamed" onto the SMSC so that any SMS sent to the SIM is routed to the SMSC and onto an application.

The SMSC is intended for connection direct to a service provider or operator's own messaging platforms to which their customers connect. Light-weight administration makes the platform simple and quick to install and maintain.

### Datasheet

# HSL APPLICATION SMSC

## FEATURES

The SMSC supports these general features:

- Message persistence (incoming and outgoing).
- CDR generation.
- Extensive logging.
- Virtual Mobile Number support.
- Virtual SIM hosting support.
- Localised time zone in outbound SMS.
- SMPP interface.
- GSM, ASCII, ISO-8859-1, UCS2 and binary data coding schemes.

For detailed specifications please see the HSL Application SMSC Feature List document.

## PRODUCT DESCRIPTION

The SMSC is available in a number of variants based on the required level of signalling throughput (64kbps link equivalent) and SIGTRAN signalling stack. SMSCs can either be sold or leased to customers.

<i>Sale</i>	<i>CloudSMSC</i>	<i>Description</i>
HGSMU-U	HGSHU-U	<b>HSL Application SMSC</b> 4-link equivalent M3UA signalling stack; inbound SMS; outbound SMS; VSIM support; VMN support; SMPP interface
HGSMU-K	HGSHU-K	<b>HSL Application SMSC</b> 128-link equivalent M3UA signalling stack; inbound SMS; outbound SMS; VSIM support; VMN support; SMPP interface
HGSMC-U	HGSHC-U	<b>HSL Application SMSC</b> 4-link equivalent M2PA signalling stack; inbound SMS; outbound SMS; VSIM support; VMN support; SMPP interface
HGSMC-K	HGSHC-K	<b>HSL Application SMSC</b> 128-link equivalent M2PA signalling stack; inbound SMS; outbound SMS; VSIM support; VMN support; SMPP interface
SMU12-A	-	<b>Support &amp; Maintenance</b> Charged annually at a percentage of the original purchase price. First year provided FOC.

Support and maintenance is required for software updates and technical support.

## REQUIREMENTS

Platform (onto which HSL Application SMSC software is installed):

- Microsoft Windows Server 2003. 1GHz processor. 512MB RAM. 1GB HDD storage. *(minimum)*
- Microsoft Windows Server 2008. 2GHz processor. 2048MB RAM. 1GB HDD storage. *(recommended)*

Access to signalling network via M3UA or M2PA. Signalling network has connectivity for GSM MAP to destination and originating GSM mobiles.

## ORDERING INFORMATION

### Sale and supply: SMSC for installation on customer's own platform within their signalling network

Sale of SMSC software license to customer for installation and operation of SMSC software on customer's own platform within their signalling network.

SIGTRAN		Product Code (HGSMx-x)			
Stack	64kbps link equiv.	HGSMU-U	HGSMU-K	HGSMC-U	HGSMC-K
M3UA	4	●	○	○	○
	128	○	●	○	○
M2PA	4	○	○	●	○
	128	○	○	○	●

### CloudSMSC: Leased SMSC solution connecting via Internet to customer's own signalling network

Leased SMSC platform that is installed and managed by HSL. The SMSC is connected via the Internet to the customer's own signalling network using either M3UA or M2PA. The customer connects via the Internet to the SMSC using SMPP to send and receive SMS. IPsec VPN available for SMPP and M3UA or M2PA. Minimum term of lease is 3 months.

SIGTRAN		Product Code (HGSHx-x)			
Stack	64kbps link equiv.	HGSHU-U	HGSHU-K	HGSHC-U	HGSHC-K
M3UA	4	●	○	○	○
	128	○	●	○	○
M2PA	4	○	○	●	○
	128	○	○	○	●

### DirectSMSC: Leased SMSC solution with pre-existing international signalling network connectivity

Leased SMSC platform that is installed and managed by HSL. The SMSC has pre-existing signalling connectivity using HSL's signalling network to mobile networks throughout the world. The customer connects via the Internet to the SMSC using SMPP to send and receive SMS. IPsec VPN available for SMPP. Minimum term of lease is 3 months.

## CONTACT DETAILS

HSL Mobile Networks Sales can be contacted by email or telephone:

[sales@haysystems.com](mailto:sales@haysystems.com)

+44(0)1506 605 260 option 1 (voice)

Hay Systems Ltd  
www.haysystems.com

# Datasheet

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