Genesys SMS Aggregation Service SMPP API User Guide

Genesys SMS Aggregation Service 2016CD

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Genesys SMS Aggregation Service SMPP API User's Guide

This document details the SMPP API connectivity to the Genesys messaging platform. Genesys supports a subset of the SMPP 3.4 API. For more information regarding the specification, see Short Message Peer-to-Peer.

This Guide contains the following information:

- Connection Parameters
- General Notes
- Delivery Receipts
- Tag-Length-Value (TLV) Parameters

Connection Parameters

The Genesys SMS Platform is co-located in multiple datacenters, each with multiple Hosts. To support high availability and maintain business continuity, clients should provision and connect to all SMSC Hosts concurrently.

If provisioned to a single SMSC Host and upon failure, the client should provision to one of the other available SMSC Hosts.

Ashburn, VA - DC3

Hosts	smsc1.dc3.genesyscloud.com	smsc2.dc3.genesyscloud.com
Port	**14000**	**14000**
System_ID	(*to be supplied*)	
Password	(*to be supplied*)	
System_Type	(*any*)	
Interface_version	**0x34**	
Address_TON	(*any*)	
Address_NPI	(*any*)	
Address_range	(*any*)	

San Jose, CA - SV5

Host	smsc1.bos.genesyscloud.com	smsc2.bos.genesyscloud.com
Port	**14000**	**14000**
System_ID	(*to be supplied*)	
Password	(*to be supplied*)	
System_Type	(*any*)	
Interface_version	**0x34**	
Address_TON	(*any*)	
Address_NPI	(*any*)	
Address_range	(*any*)	

General Notes

The following PDUs are supported:

- bind_transmitter
- bind_receiver
- bind_transceiver
- submit_sm
- deliver_sm
- enquire_link
- generic_nack

The following PDU's are not supported:

- submit_multi
- query_sm
- cancel_sm
- replace_sm

Phone numbers should be sent in international format, with no leading + or access code. For example, a U.S. number should be formatted as 12025551212; a UK number should be formatted as 447700900000, and so on.

Unsupported Features

This section details features which are part of the SMPP specification that Genesys does not currently support. It also describes the expected behaviour should the feature be sent in any requests.

Bind Requests

- service_type
  - If provided Genesys will ignore.
- interface_version
  - Genesys assumes 3.4.
- addr_ton, addr_npi
  - If provided Genesys will ignore.

Messages sent TO Genesys

- schedule_delivery_time
  - If provided Genesys will ignore.
- The TON and NPI parameters.
  - If provided Genesys will ignore. Numbers should be sent in the format described above.
- replace_if_present.
  - If provided Genesys will ignore.
- service_type
  - If provided Genesys will ignore.

Messages sent FROM Genesys

- service_type will never be sent by Genesys to clients.
- Both the TON and API values will be set to 0. The format of the phone numbers will be as described above.
- schedule_delivery_time will be set to NULL
- validity_period will be set to NULL

Encodings

Genesys supports the following data encodings:

DCS Value	Encoding Scheme
0	Genesys Default Encoding
1	ASCII
2	GSM_0338
3	ISO8859_1
5	JIS0201
6	ISO8859_5
7	ISO8859_8
8	UTF-16
10	ISO2022JP
13	JIS0212
14	EUC_KR

General Notes

The default encoding is UTF-8. If you need to change the encoding, please work with your Genesys account manager.

Delivery Receipts

To request a delivery receipt set the registered_delivery field to 1. Genesys may return more than one delivery receipt for each MT. Every receipt Genesys receives from a mobile carrier is forwarded to the client.

The text of the delivery receipt is passed unmodified from the carrier. Some arrive in the format suggested by the SMPP spec; some do not.

To correlate the receipt to an MT use the TLV parameter `receipted_message_id` in the receipt.

Do not rely on any ID specified in the text of the receipt, as this will be the carrier's message ID and not the ID from Genesys SMS Aggregation Service.

Delivery Receipt Status Codes

The TLV `message_state` parameter contains the status of a receipt.

The value of this field is per the SMPP 3.4 specification, but is also listed below:

Message State	Code	Description
ENROUTE	1	The message is en-route to the handset.
DELIVERED	2	The message has been delivered to the handset.
EXPIRED	3	The message expired before reaching the handset.
DELETED	4	The message was deleted by an Aggregator.
UNDELIVERABLE	5	The message is undeliverable to the handset.
ACCEPTED	6	The message has been accepted by an Aggregator.
UNKNOWN	7	The state of the message is unknown.
REJECTED	8	The message has been rejected.

Tag-Length-Value (TLV) Parameters

> **Important**
> All optional parameters are to be encoded as strings.

Carrier ID

- The Carrier ID TLV parameter is mandatory for MTs. Use 0x1401 parameter for it.

    - If carrier is not known please work with your account manager

- When sending a Delivery Receipt or MO to clients Genesys will include the Carrier ID in the 0x1401 parameter.

Refer to the Reach List for a list of the `CarrierID` values.