SMSC SMPP User Guide

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2 Change history

Rev	Date	By	Changes from previous release
1.0	2010-03-16	KCN	Created
1.1	2019-06-11	TPE	Updated LINK logos
1.2	2019-09-27	PNI	Added reference to SMPP 3.4 specification
1.3	2019-10-31	EP	Observation about the *validity_period* tag

3 Introduction

LINK Mobility has been a SMS distributor since 2001 and has much experience in working with both operators and connection aggregators. This platform is designed to handle large traffic volumes, maintain a high availability and make it easy to route traffic via multiple connections.

This is document describes the SMPP interface to the SMSC-platform and which parameters and commands that are required and which parameters are supported.

This document will not handle specific use cases as concatenated messages, WAP-push, Flash SMS, etc. More information about those cases can be provided by contacting support.

4 Supported commands

LINK Mobility's server should be treated as SMPP 3.4. The official specification can be found here.
All methods are not supported, and all differences are specified below.

4.1 Bind

The following bind commands are supported.

- Transmitter
- Transciever
- Receiver

Required parameters:

- system_id – obtained from support
- password – obtained from support

Optional parameters:

- addr_ton – default value if TON is set to Unknown during submit.
- addr_npi – default value if NPI is set to Unknown during submit.

Unsupported parameters:

- address_range

4.2 Unbind

The unbind command is supported.

4.3 Enquire link

The enquire link command is supported and should be called every 60 seconds.

4.4 Submit

The submit method should be used for delivering messages.

Required parameters:

- source_addr_ton
- source_addr_npi
- source_addr
- dest_addr_ton
- dest_addr_npi
- dest_addr
- esm_class
- data_coding
- sm_length
- short_message

Unsupported parameters:

- service_type
- protocol_id
- priority_flag
- schedule_delivery_time
- replace_if_present_flag
- sm_default_msg_id

Note that the payload tag is not supported and only one SMS may be delivered per call and it is recommended that the *validity_period* tag has a value of 15 minutes long at least.

4.4.1 Recommended TON and NPI

The following TON and NPI should be used when sending messages using submit command.

4.4.1.1 Source

The following TON and NPI combinations are supported for source address. All other combinations will be treated as invalid. The default TON from bind command will be used if TON is set to Unknown (0). The default NPI from bind command will be used if NPI is set to Unknown (0).

TON	NPI	Description
Alphanumeric (5)	Unknown (0) ISDN (1)	Will be treated as Alphanumeric sender text
International (1)	Unknown (0) ISDN (1)	Will be treated as MSISDN
National (2) Network specific (3) Subscriber number (4) Abbreviated (6)	Unknown (0) ISDN (1) National (8)	Will be treated as country specific short number.

4.4.1.2 Destination

The following TON and NPI combinations are supported for destination address. All other combinations will be treated as invalid. The default TON from bind command will be used if TON is set to Unknown (0). The default NPI from bind command will be used if NPI is set to Unknown (0).

TON	NPI	Description
International (1)	Unknown (0) ISDN (1)	Will be treated as MSISDN

4.4.2 Supported encodings

The following encodings are supported. X may contain any value.

DCS	Encoding
0xX0	Default GSM Alphabet with extension
0xX2	8-bit binary

0xX8	UCS2 (ISO-10646-UCS-2)

5 Delivery report

Only none or final delivery with successful/failure result are supported.

Format on delivery report:

```
id: xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx done date: yyMMddHHmm stat: <status>
```

Available values in status:

- DELIVRD
- EXPIRED
- REJECTD
- UNDELIV
- DELETED