



TECHNICAL SPECIFICATION

MC Connect SMPP

Document version 1.03

Basic information

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Purpose of this document

Complete specification of bi-directional SMPP v3.4 protocol for transport of short messages (SMS) and delivery reports is covered in [1]. This document defines subset of SMPP datagrams and parameters supported, and additional error codes.

References

[1] Short Message Peer to Peer Protocol Specification v3.4, 12-Oct-1999 Issue 1.2, SMPP_v3_4_Issue1_2.pdf

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History of changes

Date	Version	Author	Description
2008-10-08	1.01		Document created.
2019-10-22	1.02	MSp	Company logo update
2022-01-24	1.03	JBr	Optional feature: custom message ID

1. List of supported SMPP PDUs

MC Connect SMPP implements server (SMSC) role (initiates deliver_sm and receives submit_sm).
Client's application implements ESME role of SMPP interface (initiates submit_sm).

List of commands supported by MMR implementation

SMPP operation	Supported
bind_transmitter	no
bind_receivre	no
bind_transceiver	yes
unbind	yes
generic_nack	yes
submit_sm	yes
submit_sm_multi	no
deliver_sm	yes
data_sm	no
query_sm	no
cancel_sm	no
replace_sm	no
enquire_link	yes
alert_notification	no

2. Flow Control

According to [1], paragraph 2.4 "SMPP Network Layer Connections", MC Connect SMPP provides:

windowing available	yes
maximum window size	10

3. Optional feature: custom message ID

Custom message ID can be passed in submit_sm (incoming MT) as a vendor specific TLV.

The same custom message ID TLV is sent back in deliver_sm (outgoing DN paired with the MT).

Custom message ID TLV:

- tag: any from range 0x1400-0x3FFF (reserved for SMSC vendor specific optional parameters), must be negotiated with vendor
- length: 1-50 octets

- value: ASCII printable chars only (0x20-0x7E)

Invalid TLV is rejected with error code 0x00000402.

4. Error Codes

a) Unrecoverable errors in submit_sm_resp

Any of error codes declared in [1], paragraph 5.1.3 “command_status”, page 112+, may occur. There is more detailed explanation of following error codes:

0x0000000A ESME_RINVSRCADR Invalid Source Address

Bad format or value of source_addr. Your connection has limited range/list of source_addr's to use. UNRECOVERABLE – don't submit the same message again.

0x0000000B ESME_RINVDSTADR Invalid Dest Addr

The destination that your message would be routed to is barred. UNRECOVERABLE – don't submit the same message again.

0x00000008 ESME_RSYSERR System Error

Your message was not accepted due to system overload. RECOVERABLE - please re-submit the same message after reasonable delay (min. 15 seconds).

0x00000058 ESME_RTHROTTLED Throttling error (ESME has exceeded allowed message limits)

You are submitting short messages too fast. There is a speed limit (number of sm/sec) set on your account. RECOVERABLE - please do not submit any message within next 10- seconds. Ask vendor for throughput limitation.

0x00000043 ESME_RINVESMCLASS Invalid esm_class field data

Bad value of esm_class. UNRECOVERABLE – don't submit the same message again.

0x00000401 Vendor specific: Submit of Premium Rate MT SMS is not allowed

Recipient (destination_addr) is blacklisted for Premium Rate MT SMS.

0x00000402 Vendor specific: Invalid custom message ID TLV

Custom message ID TLV is invalid. See “Optional feature: custom message ID” chapter for details.