SMPP server supports the SMPP protocol, Interface version 0.00v1

Bind Operation and authentication

1. Use the following IP Address and Port number to connect to SMPP server.

For message submission [TX- Transmitter mode]

IP – 103.16.142.110

Port – 7887

For receiving delivery report [Rx- Receiver mode]

IP – 103.16.142.110

Port – 7887

For message submission and receiving delivery report [TxRx- Transceiver mode]

IP – 103.16.142.110

Port – 7887

2. To authenticate you in our system, when connecting to the SMPP server, please specify

Username /System_ID : **smppdemo**

Password: **demosmpp**

3. If it is necessary to adjust the TON and NPI settings, be sure to set it to:

Destination TON=1

Destination NPI=1

4. System type = 0

5. Leave Address range blank if it is not provided by the technical support administrator.

6. Throughput/TPS: its Depend on TXrX : 1txrx =20

 [Note – For connecting to SMPP Server you will have to validate public IP]

1.0 Connection to SMPP Gateway

Appropriate connection details are required in order to connect to our SMS gateway. Necessary

information required is mentioned in following sections. Kindly note that your connection username and

password will be issued to your separately.

1.1 Connection Configuration

SMPP Version	3.4
SMPP Bind Type	Transceiver or Transmitter and Receiver separately
SMPP service type, System Type, Address range	All values are ignored can be left blank
Destination TON and NPI	All values are ignored can be left blank
Window Size (Asynchronous only)	10
Maximum allowed session	Default 3. Check with your account manager for details
Enquire Link interval	Set to 30 seconds

1.2 Host and Port

Please check with your account manager for SMPP Server IP and port.

1.3 Supported Encoding

SMPP Server supports GSM and Latin1 (ISO-9959-1)

1.4 Data Coding and ESM Class

Please set proper Data Coding scheme (DCS) (All values are mentioned in decimal)

- Text Message: DCS = 0
- Flash Message: DCS = 240
- Unicode Message: DCS = 8
- Binary Message: DCS = 245

Note: Set ESM class value to 64 in case message contains UDH

2.0 Overview

SMPP (Short Message Peer-to-Peer Protocol) is an open standard message transfer protocol that enables user to interact with an SMS center. The protocol defines the information which needs to be exchanged between the user and the SMSC and the operations associated with the exchange of SMS messages.

It may be noted that every request made using SMPP has an associated response.
In order to connect to our SMS gateway, you need to install an SMPP Client application also known as ESME client.

3.0 Bind Operations

There are three modes to open a connection our SMPP server using your SMPP Client application.
- Transmitter- To submit short message to our SMSC and receive responses
- Receiver- To receive delivery receipts from SMSC and return responses.
- Transceiver- To send and receive messages to and from the SMSC over a single SMPP session

4.0 SMPP Commands

Our SMS Gateway supports following SMPP commands

Command	Description	SIH Value
generic_nack	Generic error (Not acknowledged)	0X80000000
bind_receiver	Bind as Receiver	0X00000001
bind_receiver_resp	Response to bind_receiver	0X80000001
bind_transmitter	Bind as Transmitter	0X00000002
bind_transmitter_response	Response to bind_transmitter	0X80000002
submit_sm	Submit an SMS	0X00000004
submit_sm_resp	Response to submit_sm	0X80000004
deliver_sm	Submit an SMS with delivery receipt	0X00000005
deliver_sm_resp	Response to deliver_sm	0X80000005
unbind	Close bind session	0X00000006
unbind_resp	Response to unbind	0X80000006
bind_transceiver	Bind as Transceiver	0X00000009
bind_transceiver_resp	Response to bind_transceiver	0X80000009
enquire_link	Check link status	0X00000015
enquire_link_resp	Response to enquire_link	0X80000015

Please note any command in the SMPP specification which is not listed above is not currently supported.

5.0 Delivery Receipts

SMPP delivery receipt has the following format:

id:IIIIIIIIII sub:SSS dlvrd:DDD submit date:YYMMDDhhmm done

date:YYMMDDhhmm stat:DDDDDDD err:E Text: . . . .

Details of each value is described below:

- id- the message ID allocated to the message by the server
- sub- the number of short messages originally submitted
- dlvrd- the number of short messages delivered
- submit date- the date and time at which the short message was submitted
- done date- the date and time at which the short message reached its final state
- stat- the final status of the message
- err- where appropriate this may hold a network specific error code or an SMSC error code
- text- the first 20 characters of the short message

Please note SMPP 3.3 and 3.4 differ such that message IDs returned from an SMPP 3.3 connection are encoded as HEX whereas 3.4 SMPP connections return message IDs as ASCII encoded integers.

6.0 Transaction Error Codes

Following are the list of error codes returned by our SMSC in case of any error

SMPP Error Code	Hex Value	Description
ESME_ROK	0x00000000	No Error Command executed successfully
ESME_RINVMSGLEN	0x00000001	Message Length is invalid
ESME_RINVCMDLEN	0x00000002	Command Length is invalid
ESME_RINVCMDID	0x00000003	Invalid Command ID
ESME_RINVBNDSTS	0x00000004	Incorrect BIND Status for given command
ESME_RALYBND	0x00000005	ESME Already in Bound State
ESME_RINVPRTFLG	0x00000006	Invalid Priority Flag
ESME_RINVREGDLVFLG	0x00000007	Invalid Registered Delivery Flag

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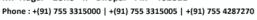
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ESME_RSYSERR	0x00000008	System Error
ESME_RINVSRCADR	0x0000000A	Invalid Source Address
ESME_RINVDSTADR	0x0000000B	Invalid Destination Address
ESME_RINVMSGID	0x0000000C	Message ID is invalid
ESME_RBINDFAIL	0x0000000D	Bind Failed
ESME_RINVPASWD	0x0000000E	Invalid Password
ESME_RINVSYSID	0x0000000F	Invalid System ID
ESME_RCANCELFAIL	0x00000011	Cancel SM Failed
ESME_RREPLACEFAIL	0x00000013	Replace SM Failed
ESME_RMSGQFUL	0x00000014	Message Queue Full
ESME_RINVSERTYP	0x00000015	Invalid Service Type
ESME_RINVNUMDESTS	0x00000033	Invalid number of destinations
ESME_RINVSUBREP	0x00000042	Submit w/replace functionality has been requested where it is either unsupported or inappropriate for the particular MC
ESME_RINVESMCLASS	0x00000043	Invalid esm_class field data
ESME_RSUBMITFAIL	0x00000045	submit_sm, data_sm or submit_multi failed
ESME_RINVSRCTON	0x00000048	Invalid Source address TON
ESME_RINVSRCNPI	0x00000049	Invalid Source address NPI
ESME_RINVDSTTON	0x00000080	Invalid Destination address TON
ESME_RINVDSTNPI	0x00000051	Invalid Destination address NPI
ESME_RINVSYSTYP	0x00000053	Invalid system_type field
ESME_RINVREPFLAG	0x00000054	Invalid replace_if_present flag
ESME_RINVNUMMSGS	0x00000055	Invalid number of messages
ESME_RTHROTTLED	0x00000058	Throttling error (ESME has exceeded allowed message limits)
ESME_RINVSCHED	0x00000061	Invalid Scheduled Delivery Time
ESME_RINVEXPIRY	0x00000062	Invalid message validity period (Expiry time)
ESME_RINVDFTMSGID	0x00000063	Predefined Message ID is Invalid or specified predefined message was not found
ESME_RX_R_APPN	0x00000066	ESME Receiver Reject Message Error Code
ESME_RQUERYFAIL	0x00000067	Query_Sm request failed

ESME_RINVTLVSTREAM	0x000000c0	Error in the optional part of the PDU Body
ESME_RTLVNOTALLWD	0x000000c1	TLV not allowed
ESME_RINVTLVLEN	0x000000c2	Invalid Parameter Length
ESME_RMISSINGTLV	0x000000c3	Expected TLV missing

7.0 Message Status

Delivery report status indicates the current status of any SMS. In case SMS is not delivered successfully, delivery report will give specific reason.

Status	Description
DELIVRD	Message delivered to destination
ACCEPTD	Message is in accepted state
EXPIRED	Message validity period has expired
DELETED	Message has been deleted
UNDELIV	Message is undeliverable
UNKNOWN	Message is in unknown state
REJECTD	Message is in rejected state

8.0 Further Information

For further information please contact your account manager.