

1. SMPP specification

Connection between application and Infobip SMPP server is SMPP version 3.4 (version 3.3 is not supported).

SMPP parameters are:

system_id	<provided for each client>
password	<provided for each client>
IP address	smppl.infobip.com
port	8888
timeout (keep alive or msg)	30 sec

Optional parameters:

system_type	<r:route_code>
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You are allowed to bind like transmitter, receiver or transceiver.

In order to receive delivery reports, you must bind as transceiver or receiver.

You will receive delivery reports only if your route provides delivery reporting.

We will send delivery reports to your first acceptable bind session (transceiver or receiver).

You are allowed to bind with at most 4 sessions.

PDU's supported:

bind_transmitter, bind_receiver, bind_transceiver, unbind, submit_sm, deliver_sm, enquire_link

DR format:

```
"id:<message_id> sub:<message_sub> dlvr:<message_dlvrd>
```

submit date:

```
<message_submit_date> done date:<message_done_date>
```

stat:

```
<message_stat> err:<message_err>"
```

Delivery statuses (message_stat):

DELIVRD, EXPIRED, DELETED, UNDELIV, ACCEPTE, UNKNOWN, REJECTD

Text encoding:

Please use ISO-8859-1 (Latin1) as default encoding when sending messages. If you are using GSM7 (IA5) please let us know so we can setup your account properly.

Using different routes:

In case you are allowed to use few different routes, you must use system_type parameter in bind request. System_type parameter should be in format "R:route_code" (example: "R:route_hq"). Route code will be provided by your key account manager.

In case you set system_type = null (""), the default routing setup will be used.

2. HLR over SMPP specification

Using Infobip SMPP account, it is possible to request HLR data (IMSI).

In order to use HLR, you can use your default system_id and password, setting `system_type = "HLR"` (without quotes) in Bind PDU.

SubmitSM PDU is used for submitting HLR request, having `destAddress` parameter set to required destination address. All other parameters will be ignored (`srcAddress`, `TON/NPI`, etc). Infobip HLR subsystem will respond using regular `SubmitSMResp`, containing messageid reference.

Once the HLR requests is being finalized on Infobip system, you will receive `DeliverSM PDU`, containing the IMSI for the required `destAddress`, or error code in case of failure. `DeliverSM` will contain short message data with our regular delivery report, together with "IMSI:xxxxxxx" part (containing IMSI).

Beside `DeliverSM.shortMessage`, we included IMSI also as an extra-optional parameter:

```
SMPP_VENDOR_SPECIFIC_IMSI = 0x1403
```

Examples:

In case HLR request was successful, `DeliverSM` will be as follows (IMSI 21910110053751):

```
addr: 0 0 38591xxxxxx
addr: 0 0 0000000000
msg: id:19011123440556060 sub:001 dlvr:001 submit date:0901112344 done date:0901112344
stat:DELIVRD err:000 IMSI:21910110053751
opt: (oct: (tlv: 1059) 030000) (byte: (tlv: 1063) 2) (str: (tlv: 30) 19011123440556060) (extraopt: (oct:
(tlv: 5123) 3231393130313130303533373531) )
```

If an error occurred, `DeliverSM` will be as follows (no IMSI, error code=0x06 - absent subscriber):

```
addr: 0 0 385915369423
addr: 0 0 0000000000
msg: id:19011123500214093 sub:001 dlvr:001 submit date:0901112350 done date:0901112350
stat:UNDELIV err:006 IMSI:
opt: (oct: (tlv: 1059) 030006) (byte: (tlv: 1063) 5) (str: (tlv: 30) 19011123500214093) (extraopt: (oct:
(tlv: 5123) ) )
```