

## 3 ESME Application Configuration

### 3.1 Smpp.xml

The main task in manipulating our ESME is by ensuring that configurations in the smpp.xml are correct. It can be found at the \$WILDFLY\_HOME/standalone/deployments/ESME.war/WEB-INF/classes/smpp.xml. A sample [smpp.xml](#) is attached here.

In order to create a successful binding with the SMSC (Short Message Service Centre), first make sure that following tags are configured correctly at both sides.

1. **smsc id** - unique smsc id
2. **IP address** – ip address of SMSC
3. **port** - smpp port
4. **System-id** - Identifies the ESME system requesting to bind as a transceiver with the SMSC
5. **Password** - As per the smpp standard, the password should be less than 9 characters.

We can get more ideas about this in the [Smpp 3.4 Documentation](#). After making the initial configurations, we can proceed with the others.

6. **Bind mode** - The bind mode can be t, r, or tr for transmitter, receiver or transceiver respectively.
7. **Registereddelivery** - whether we need delivery receipt from smsc or not. The default setting of the registered\_delivery parameter is 0x00.

```
<REGISTERED-DELIVERY>1</REGISTERED-DELIVERY>
```

1 → need delivery receipt                      0 → no delivery receipt

8. **Interface-version** - should be equal to ascii value of the smpp version, current smpp version 3.4 ~ 4.
9. **Npi & Ton values** - the set of TON (Type of Number) & NPI (Numbering Plan Indicator) values.

```
<sourceAddrTon>0</sourceAddrTon>
```

```
<sourceAddrNpi>0</sourceAddrNpi>
```

```
<destAddrTon>0</destAddrTon>
```

```
<destAddrNpi>0</destAddrNpi>
```

**5 → Alphanumeric** [address is alphanumeric, like a word with numbers]

## 4 API Packets

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### 4.1 ESME Xml Request Packet

**Adapters:** <http://localhost:8081/ESME/HttpAdapter>  
<http://localhost:8081/ESME/HttpNoRespAdapter>

#### 4.1.1 Submit\_sm

```
<REQ>
<FEATURE>submit_sm</FEATURE>
<TIME-STAMP>25062009103510</TIME-STAMP>
<RESPONSE-URL>http://localhost:8080/ESME/TestServlet</RESPONSE-URL>
<PARAMETERS>
  <REQ-TRANSACTION-ID>0</REQ-TRANSACTION-ID>
  <SMSC-ID>airtel</SMSC-ID>
  <SUBMIT-SM>
    <SOURCE-ADDR-TON>0</SOURCE-ADDR-TON>
    <SOURCE-ADDR-NPI>0</SOURCE-ADDR-NPI>
    <SOURCE-ADDR>1234</SOURCE-ADDR>
    <DEST-ADDR-TON>0</DEST-ADDR-TON>
    <DEST-ADDR-NPI>0</DEST-ADDR-NPI>
    <DESTINATION-ADDR>9945626828</DESTINATION-ADDR>
  </SUBMIT-SM>
  <ESM-CLASS>0</ESM-CLASS>
  <concatenatedSMesmClass>0</concatenatedSMesmClass>
  <SHORT-MESSAGE>UkNIUiAyMjly</SHORT-MESSAGE>
  <DATA-CODING>0</DATA-CODING>
</PARAMETERS>
</REQ>
```

#### Instant response

```
<RESP>
  <TIME-STAMP>23072021202222</TIME-STAMP>
  <STATUS>0</STATUS>
</RESP>
```

#### Final response

```
<RESP>
  <STATUS>0</STATUS>
  <STATUS-CODE>0</STATUS-CODE>
  <TIME-STAMP>30072021192109</TIME-STAMP>
  <PARAMETERS>
    <REQ-TRANSACTION-ID>0</REQ-TRANSACTION-ID>
    <RESP-TRANSACTION-ID>0</RESP-TRANSACTION-ID>
    <SMSC-ID>airtel</SMSC-ID>
  </PARAMETERS>
</RESP>
```

## 4.1.2 Synch\_Submit\_sm

```

<REQ>
<FEATURE>synch_submit_sm</FEATURE>
<TIME-STAMP>09092015184542</TIME-STAMP>
<PARAMETERS>
<REQ-TRANSACTION-ID>2</REQ-TRANSACTION-ID>
<SMSC-ID>airtel</SMSC-ID>
<SUBMIT-SM>
<SOURCE-ADDR-TON>0</SOURCE-ADDR-TON>
<SOURCE-ADDR-NPI>0</SOURCE-ADDR-NPI>
<SOURCE-ADDR>8688492301</SOURCE-ADDR>
<DEST-ADDR-TON>0</DEST-ADDR-TON>
<DEST-ADDR-NPI>0</DEST-ADDR-NPI>
<DESTINATION-ADDR>222222222</DESTINATION-ADDR>
<ESM-CLASS>0</ESM-CLASS>
<concatenatedSMesmClass>0</concatenatedSMesmClass>
<SHORT-
MESSAGE>SSBjYWxsZWQgWW91IGF0IFdlZCwgOSBTZXAgMjAxNSAxODoxMDoxNQ==</SHORT-MESSAGE>
<REGISTERED-DELIVERY>1</REGISTERED-DELIVERY>
<DATA-CODING>0</DATA-CODING>
</SUBMIT-SM>
</PARAMETERS>
</REQ>

```

### Synch\_submit\_response

```

<RESP>
<STATUS>0</STATUS>
<STATUS-CODE>0</STATUS-CODE>
<TIME-STAMP>23072021202301</TIME-STAMP>
<PARAMETERS>
<REQ-TRANSACTION-ID>2</REQ-TRANSACTION-ID>
<RESP-TRANSACTION-ID>7</RESP-TRANSACTION-ID>
<SMSC-ID>airtel</SMSC-ID>
<MESSAGE-ID>5</MESSAGE-ID>
</PARAMETERS>
</RESP>

```

## 4.1.3 MESSAGE PAYLOAD & UDH

### 4.1.3.1 UDH Support [Primary Method]

```

<REQ>
<FEATURE>submit_sm</FEATURE>
<TIME-STAMP>09092015184542</TIME-STAMP>
<PARAMETERS>
<REQ-TRANSACTION-ID>2</REQ-TRANSACTION-ID>
<SMSC-ID>airtel</SMSC-ID>
<SUBMIT-SM>

```

```

<SOURCE-ADDR-TON>0</SOURCE-ADDR-TON>
<SOURCE-ADDR-NPI>0</SOURCE-ADDR-NPI>
<SOURCE-ADDR>8688492301</SOURCE-ADDR>
<DEST-ADDR-TON>0</DEST-ADDR-TON>
<DEST-ADDR-NPI>0</DEST-ADDR-NPI>
<DESTINATION-ADDR>22222222</DESTINATION-ADDR>
<ESM-CLASS>64</ESM-CLASS>
<concatenatedSMesmClass>64</concatenatedSMesmClass>
<SHORT-
MESSAGE>SSBjYWxsZWQgWW91IGF0IFdlZCwgOSBTZXAgMjAxNSAxODoxMDo
yNQ==</SHORT-MESSAGE>
<DATA-CODING>0</DATA-CODING>
</SUBMIT-SM>
</PARAMETERS>
</REQ>

```

### 4.1.3.2 Message Payload [SMSC Support Required]

```

<REQ>
<FEATURE>submit_sm</FEATURE>
<TIME-STAMP>09092015184542</TIME-STAMP>
<PARAMETERS>
<REQ-TRANSACTION-ID>2</REQ-TRANSACTION-ID>
<SMSC-ID>airtel</SMSC-ID>
<SUBMIT-SM>
<SOURCE-ADDR-TON>0</SOURCE-ADDR-TON>
<SOURCE-ADDR-NPI>0</SOURCE-ADDR-NPI>
<SOURCE-ADDR>8688492301</SOURCE-ADDR>
<DEST-ADDR-TON>0</DEST-ADDR-TON>
<DEST-ADDR-NPI>0</DEST-ADDR-NPI>
<DESTINATION-ADDR>22222222</DESTINATION-ADDR>
<ESM-CLASS>0</ESM-CLASS>
<concatenatedSMesmClass>0</concatenatedSMesmClass>
<SHORT-
MESSAGE>SSBjYWxsZWQgWW91IGF0IFdlZCwgOSBTZXAgMjAxNSAxODoxMDo
yNQ==</SHORT-MESSAGE>
<DATA-CODING>0</DATA-CODING>
<MESSAGE-PAYLOAD>true</MESSAGE-PAYLOAD>
</SUBMIT-SM>
</PARAMETERS>
</REQ>

```

### 4.1.4 ESME MO & Delivery Packets [ in smpp.xml ]

#### 4.1.4.1 MO Flow [Connector url]

```

<XML>
<TIME-STAMP>{0}</TIME-STAMP>
<TRANSACTION-ID>{1}</TRANSACTION-ID>
<SMPP-ID>{2}</SMPP-ID>

```

```

<ESM-CLASS>{4}</ESM-CLASS>
<OA>{5}</OA>
<DA>{6}</DA>
<DCS>{7}</DCS>
<SMS>{8}</SMS>
<SMS-BYTE>{9}</SMS-BYTE>
<OPTIONAL-PARAM>{11}</OPTIONAL-PARAM>
<MESSAGE>{17}</MESSAGE>
<MESSAGE-IDENTIFIER>{18}</MESSAGE-IDENTIFIER>
<MESSAGE-PARTS>{19}</MESSAGE-PARTS>
<MESSAGE-PART-NUMBER>{20}</MESSAGE-PART-NUMBER>
</XML>

```

### Sample

```

<XML>
<TIME-STAMP><![CDATA[20210730194044]]></TIME-STAMP>
<TRANSACTION-ID><![CDATA[74376]]></TRANSACTION-ID>
<SMPP-ID><![CDATA[airtel]]></SMPP-ID>
<OA><![CDATA[4477665544]]></OA>
<DA><![CDATA[337788665522]]></DA>
<DCS><![CDATA[0]]></DCS>
<SMS><![CDATA[Hello from SMPPSim Hello from SMPPSim Hello from SMPPSim
Hello from SMPPSimHello from SMPPSimHello from SMPPSimHello from
SMPPSim]]></SMS>
<SMS-
BYTE><![CDATA[IEhIbGxvIGZyb20gU01QUFNpbSBIZWxsbyBmcm9tIFNNUFBTaW
0gSGVsbG8gZnJvbSBTTVBQU2ltIEhIbGxvIGZyb20gU01QUFNpbUhlbGxvIGZyb20
gU01QUFNpbUhlbGxvIGZyb20gU01QUFNpbUhlbGxvIGZyb20gU01QUFNpbQ==]]>
</SMS-BYTE>
<OPTIONAL-PARAM><![CDATA[]]></OPTIONAL-PARAM>
<MESSAGE><![CDATA[from SMPPSim Hello from SMPPSim Hello from SMPPSim
Hello from SMPPSim Hello from SMPPSim Hello from SMPPSim]]></MESSAGE>
<MESSAGE-IDENTIFIER><![CDATA[111]]></MESSAGE-IDENTIFIER>
<MESSAGE-PARTS><![CDATA[2]]></MESSAGE-PARTS>
<MESSAGE-PART-NUMBER><![CDATA[1]]></MESSAGE-PART-NUMBER>
</XML>

```

### 4.1.4.2 Delivery Receipt [Delivery connector url]

```

<REQ>
<FEATURE>DELIVERY-RECEIPT</FEATURE>
<TIME-STAMP>{0}</TIME-STAMP>
<TRANSACTION-ID>{1}</TRANSACTION-ID>
<SMPP-ID>{2}</SMPP-ID>
<COMMAND-ID>{3}</COMMAND-ID>
<ESM-CLASS>{4}</ESM-CLASS>
<OA>{5}</OA>
<DA>{6}</DA>
<DCS>{7}</DCS>
<SMS>{8}</SMS>
<MESSAGE-ID>{10}</MESSAGE-ID>

```

</REQ>

## Sample

```
<REQ>
<FEATURE>DELIVERY-RECEIPT</FEATURE>
<TIME-STAMP><![CDATA[20210730194217]]></TIME-STAMP>
<TRANSACTION-ID><![CDATA[74378]]></TRANSACTION-ID>
<SMPP-ID><![CDATA[airtel]]></SMPP-ID>
<COMMAND-ID><![CDATA[5]]></COMMAND-ID>
<OA><![CDATA[22222222]]></OA>
<DA><![CDATA[8688492301]]></DA>
<DCS><![CDATA[0]]></DCS>
<SMS><![CDATA[id:1 sub:001 dlvr:001 submit date:2107301942 done
date:2107301942 stat:DELIVRD err:000 Text:I called You at Wed,]]></SMS>
<MESSAGE-ID><![CDATA[1]]></MESSAGE-ID>
</REQ>
```

## 4.2 ESME Json Request Packet

**Adapters:** <http://localhost:8081/ESME/HttpJsonAdapter>

### 4.2.1 Submit\_sm

```
{
  "featureId": "submit_sm",
  "timeStamp": 25062009103510,
  "respUrl": "http://localhost:8080/ESME/TestServlet",
  "parameters": {
    "reqTransactionId": 0,
    "smscd": "airtel",
    "submitSm": {
      "sourceAddrTon": "0",
      "sourceAddrNpi": "0",
      "sourceAddr": 1234,
      "destAddrTon": "0",
      "destAddrNpi": "0",
      "destinationAddr": 11111111,
      "esmClass": "0",
      "concatenatedSMesmClass": "0",
      "dataCoding": 0,
      "shortMessage": "UkNIUiAyMjly"
    }
  }
}
```

### Instant response

```
{
  "Response": {
    "timeStamp": "23072021104848",
```

```

    "status": "0"
  }
}

```

### Final response

```

{
  "status": "0",
  "statusCode": "0",
  "timeStamp": "23072021122642",
  "parameters": {
    "reqTransactionId": "0",
    "respTransactionId": "0",
    "smscd": "airtel"
  }
}

```

### 4.2.2 Synch\_Submit\_sm

```

{
  "featureId": "synch_submit_sm",
  "timeStamp": "09092015184542",
  "parameters": {
    "reqTransactionId": "1",
    "smscd": "airtel",
    "submitSm": {
      "sourceAddrTon": "0",
      "sourceAddrNpi": "0",
      "sourceAddr": "8688492301",
      "destAddrTon": "0",
      "destAddrNpi": "0",
      "destinationAddr": "22222222",
      "esmClass": "0",
      "concatenatedSMesmClass": "0",
      "dataCoding": 0,
      "shortMessage":
"SSBjYWxsZWQgWW91IGF0IFdlZCwgOSBTZXAgMjAxNSAxODoxMDoyNQ==",
      "registeredDelivery": "1"
    }
  }
}

```

### Synch\_submit\_response

```

{
  "status": "0",
  "statusCode": "0",
  "timeStamp": "23072021123007",
  "parameters": {
    "reqTransactionId": "2",
    "respTransactionId": "1",
    "smscd": "airtel",

```

```

    "messageId": "38"
  }
}

```

## 4.2.3 MESSAGE PAYLOAD & UDH

### 4.2.3.1 UDH Support Support [Primary Method]

```

{
  "featureId": "synch_submit_sm",
  "timeStamp": "09092015184542",
  "parameters": {
    "reqTransactionId": "1",
    "smscId": "airtel",
    "submitSm": {
      "sourceAddrTon": "0",
      "sourceAddrNpi": "0",
      "sourceAddr": "8688492301",
      "destAddrTon": "0",
      "destAddrNpi": "0",
      "destinationAddr": "22222222",
      "esmClass": "64",
      "concatenatedSMesmClass": "64",
      "shortMessage":
"SSBjYWxsZWQgWW91IGF0IFdlZCwgOSBTZXAgMjAxNSAxODoxMDoyNQ==",
      "registeredDelivery": "1"
    }
  }
}

```

### 4.2.3.2 Message Payload [SMSC Support Required]

```

{
  "featureId": "synch_submit_sm",
  "timeStamp": "09092015184542",
  "parameters": {
    "reqTransactionId": "1",
    "smscId": "airtel",
    "submitSm": {
      "sourceAddrTon": "0",
      "sourceAddrNpi": "0",
      "sourceAddr": "8688492301",
      "destAddrTon": "0",
      "destAddrNpi": "0",
      "destinationAddr": "22222222",
      "esmClass": "0",
      "concatenatedSMesmClass": "0",
      "shortMessage":
"SSBjYWxsZWQgWW91IGF0IFdlZCwgOSBTZXAgMjAxNSAxODoxMDoyNQ==",
      "messagePayload": "true",

```



```

    "registeredDelivery": "1"
  }
}
}

```

## 4.2.4 ESME MO & Delivery Packets [ in smpp.xml ]

### 4.2.4.1 MO Flow [Connector url]

```

{
  "timeStamp": "{0}",
  "transactionId": "{1}",
  "smscID": "{2}",
  "esmClass": "{4}",
  "originatingAddress": "{5}",
  "destinationAddress": "{6}",
  "dcs": "{7}",
  "sms": "{8}",
  "byteSms": "{9}",
  "optionalParamText": "{11}",
  "message": "{17}",
  "messageIdentifier": "{18}",
  "messageParts": "{19}",
  "messagePartNumber": "{20}"
}

```

#### Sample

```

{
  "timeStamp": "20210723191615",
  "transactionId": "38592",
  "smscID": "airtel",
  "esmClass": "64",
  "originatingAddress": "3333333333",
  "destinationAddress": "337788665522",
  "dcs": "0",
  "sms": " Hello from SMPPSim Hello from SMPPSim Hello from SMPPSim Hello
from SMPPSim Hello from SMPPSim Hello from SMPPSim Hello from SMPPSim
Hello from SMPPSim Hello from SMPPSim ",
  "byteSms":
  "IEhlbGxvIGZyb20gU01QUFNpbSAglEhIbGxvIGZyb20gU01QUFNpbSAglCBIZWxs
byBmcm9tIFNN
UFBTaW0glCBIZWxsbyBmcm9tIFNNUFBTaW0glCBIZWxsbyBmcm9tIFNNUFBTa
W0glCBIZWxsbyBm
cm9tIFNNUFBTaW0glCBIZWxsbyBmcm9tIFNNUFBTaW0glCBIZWxsbyBmcm9tIFN
NUFBTaW0glCBI
ZWxsbyBmcm9tIFNNUFBTaW0glA==",
  "optionalParamText": "",
  "message": " from SMPPSim Hello from SMPPSim Hello from SMPPSim Hello
from SMPPSim Hello from SMPPSim Hello from SMPPSim Hello from SMPPSim
Hello from SMPPSim Hello from SMPPSim ",

```

```
"messageIdentifier": "111",
"messageParts": "2",
"messagePartNumber": "1"
}
```

#### 4.2.4.2 Delivery Receipt [Delivery connector url]

```
{
  "featureId": "DELIVERY-RECEIPT",
  "timeStamp": "{0}",
  "transactionId": "{1}",
  "smscId": "{2}",
  "commandId": "{3}",
  "originatingAddress": "{5}",
  "destinationAddress": "{6}",
  "dcs": "{7}",
  "sms": "{8}",
  "messageId": "{10}"
}
```

##### Sample

```
{
  "featureId": "DELIVERY-RECEIPT",
  "timeStamp": "20210723191555",
  "transactionId": "38591",
  "smscId": "airtel",
  "commandId": "5",
  "originatingAddress": "22222222",
  "destinationAddress": "8688492301",
  "dcs": "2",
  "sms": "id:2 sub:001 dlvr:001 submit date:2107231915 done date:2107231915  
stat:DELIVRD err:000 Text:I called You at Wed",
  "messageId": "2"
}
```

## 5 Definitions

Terms in json	Terms in xml	Size (octets) & Type	Description
<i>featureId</i>	FEATURE	string	Feature of the esme
<i>timeStamp</i>	TIME-STAMP		Time stamp
<i>reqTransactionId</i>	REQ-TRANSACTION-ID	integer	Transaction id of the request
<i>respUrl</i>	RESPONSE-URL	string	Url to which response of submit_sm feature should send, not needed in synch_submit_sm
<i>submitSm</i>	SUBMIT-SM		
<i>smsId</i>	SMSC-ID	string	Unique id that is used to identify the specific smsc.
<i>sourceAddr</i>	SOURCE-ADDR	Var. max 21, C Octet String	Address of SME which originated this message.
<i>sourceAddrTon</i>	SOURCE-ADDR-TON	1, Integer	Type of Number for source address. If not known, set to NULL (Unknown).
<i>sourceAddrNpi</i>	SOURCE-ADDR-NPI	1, Integer	Numbering Plan Indicator for source address. If not known, set to NULL (Unknown).
<i>destinationAddr</i>	DESTINATION-ADDR	Var. max 21, C Octet String	Destination address of this short message. For mobile terminated messages, this is the directory number of the recipient MS.
<i>destAddrTon</i>	DEST-ADDR-TON	1, Integer	Type of Number for destination.
<i>destAddrNpi</i>	DEST-ADDR-NPI	1, Integer	Numbering Plan Indicator for destination.
<i>esmClass</i>	ESM-CLASS	1, Integer	Indicates Message Mode & Message Type. 0→ short message 64→ long message[UDHI flag]
<i>concatenatedSM esmClass</i>	concatenatedSMes mClass	1, Integer	Indicates Message Mode & Message Type. 0→ short message

Terms in json	Terms in xml	Size (octets) & Type	Description
			64→ long message[UDHI flag]
<i>dataCoding</i>	DATA-CODING	1, Integer	Defines the encoding scheme of the short message user data. 0 → English 8 → Other Language
<i>shortMessage</i>	SHORT- MESSAGE	Var, 0- 254,Octet String	Up to 254 octets of short message user data. The exact physical limit for short_message size may vary according to the underlying network. Applications which need to send messages longer than 254 octets should use the message_payload parameter.
<i>messagePayload</i>	MESSAGE- PAYLOAD	boolean	True → sends long message in a single packet, without multi-part False → sends long message in multi-part, with UDH
<i>registeredDelivery</i>	REGISTERED- DELIVERY	1, Integer	Indicator to signify if an SMSC delivery receipt or an SME acknowledgement is required. Possible values are 0 & 1. 0 → no delivery receipt 1 → delivery receipt
<i>protocolId</i>	PROTOCOL-ID	1, Integer	Protocol Identifier. 64 → silent 0 → normal
<i>priorityFlag</i>	PRIORITY-FLAG	1, Integer	Designates the priority level of the message.
<i>replaceIfPresent Flag</i>	REPLACE-IF- PRESENT-FLAG	1, Integer	Flag indicating if submitted message should replace an existing message.
<i>smDefaultMsgId</i>	SM-DEFAULT- MSG-ID	1, Integer	Indicates the short message to send from a list of pre-defined ('canned') short messages stored on the SMSC. If not using an SMSC canned message, set to NULL.

Figure 12 Definitions

## 8 Error Codes

### 8.1 ESME Response Codes

ErrorCode	ErrorDesc
-1001	Unknown feature or Illegal feature
-1002	Overload rejection
-1003	Internal server error (check feature_id)
-1004	Unknown Operation or Exception
1000	Illegal request Message
1005	Mandatory field missing
1006	Illegal data type
1007	Username or password is not match
1008	Other Error i.e. Not able to send response
1009	Unknown CommandId
1010	Execute Exception
1011	CMD_FIELD_MISSING_ERRORCODE
1012	UNKNOWN_COMMANDID_ERRORCODE
1013	UNKNOWN_SMSC_ERRORCODE
1014	NOT_BOUND_WITH_SMSC_ERRORCODE
1015	ALREADY_BOUND_WITH_SMSC_ERRORCODE
1016	IOEXCEPTION_ERRORCODE
1017	NEGATIVE_RESPONSE_ERRORCODE
1018	RESPONSE_TIMEOUT_ERRORCODE
1019	UNSUC_DELIVERY_SME_ERRORCODE
1020	THROTTLING_LIMIT_ERRORCODE

Figure 32: ESME Response Codes

## 8.2 SMSC Error Codes

VALUE	DESCRIPTION
0x00000000	No Error
0x00000001	Message Length is invalid
0x00000002	Command Length is invalid
0x00000003	Invalid Command ID
0x00000004	Incorrect BIND Status for given command
0x00000005	ESME Already in Bound State
0x00000006	Invalid Priority Flag
0x00000007	Invalid Registered Delivery Flag
0x00000008	System Error
0x00000009	Reserved
0x0000000A	Invalid Source Address
0x0000000B	Invalid Destination Address
0x0000000C	Message ID is invalid
0x0000000D	Bind Failed
0x0000000E	Invalid Password
0x0000000F	Invalid System ID
0x00000010	Reserved
0x00000011	Cancel SM Failed
0x00000012	Reserved
0x00000013	Replace SM Failed
0x00000014	Message Queue Full
0x00000015	Invalid Service Type
0x00000016	
0x00000032	Reserved
0x00000033	Invalid number of destinations
0x00000034	Invalid Distribution List name

VALUE	DESCRIPTION
0x00000035	
0x0000003F	Reserved
0x00000040	Destination flag is invalid (submit_multi)
0x00000041	Reserved
0x00000042	Invalid 'submit with replace' request (e.g. submit_sm with replace_if_present_flag set)
0x00000043	Invalid esm_class field data
0x00000044	Cannot Submit to Distribution List
0x00000045	submit_sm or submit_multi failed
0x00000046	
0x00000047	Reserved
0x00000048	Invalid Source address TON Check the document for correct TON/NPI values
0x00000049	Invalid Source address NPI
0x00000050	Invalid Destination address TON
0x00000051	Invalid Destination address NPI
0x00000052	Reserved
0x00000053	Invalid system_type field
0x00000054	Invalid replace_if_present flag
0x00000055	Invalid number of messages
0x00000056	
0x00000057	Reserved
0x00000058	Throttling error (ESME has exceeded allowed message limits)
0x00000059	
0x00000060	Reserved
0x00000061	Invalid Scheduled Delivery Time
0x00000062	Invalid message validity period (Expiry time)
0x00000063	Predefined Message Invalid or Not Found

VALUE	DESCRIPTION
0x00000064	ESME Receiver Temporary App Error Code
0x00000065	ESME Receiver Permanent App Error Code
0x00000066	ESME Receiver Reject Message Error Code
0x00000067	query_sm request failed
0x00000068	
0x000000A9	
0x000000BF	Reserved
0x000000C0	Error in the optional part of the PDU Body
0x000000C1	Optional Parameter not allowed
0x000000C2	Invalid Parameter Length.
0x000000C3	Expected Optional Parameter missing
0x000000C4	Invalid Optional Parameter Value
0x000000C5	
0x000000FD	Reserved
0x000000FE	Delivery Failure (used for data_sm_resp)
0x000000FF	Unknown Error
0x00000100	
0x000003FF	Reserved for SMPP extension
0x00000400	
0x000004FF	Reserved for SMSC vendor specific errors
0x00000500	
0xFFFFFFFF	ReservedMessage State

Figure 33: SMSC Error Codes