Melrose Labs

SMPP Testing Scope Document

Vendor : []

Product : []

Date : []

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# Instructions on Completing SMPP Testing Scope Document

## Overview

The first part of the document, the 'Implementation Identification' (section 2), is to be completed as indicated with the information necessary to identify both the vendor and the implementation.

The main part of the document (sections 3 and 4) are a fixed format questionnaire divided into a number of major subclasses; these are then divided into further detail to the specific questions. Answers to the questionnaire are to be provided in the right most column, either by simply marking an answer to an indicated restricted choice (usually YES or NO), or by entering a value or a range of values.

Each item is identified by a unique item reference in the first column. The second column contains the question to be answered.

The last section in the document (section 5) contain questions which are related to the implementation of the protocol. These are formatted in the same manner as the standard questionnaire as described previously.

## Additional Information or Exception Information

A vendor may also provide further information, categorised as either Additional Information or Exception Information. Items of Additional Information allow a vendor to provide further information intended to assist in the interpretation of the answers. Items of Exception Information allow a vendor to detail any restrictions that may exist with the answer they have supplied and provide a rationale to explain this behaviour, to assist in the understanding of the answer.

# Implementation Identification

The following table must be completed. This is to be completed with the information to uniquely identify both the vendor and the implementation to which the rest of the document applies.

|  |  |
| --- | --- |
| Vendor’s company name |  |
| Contact point in vendor’s organisation for queries about information supplied in this document (name, e-mail) |  |
| Product name and version |  |
| Does the product act as an ESME or SMSC? |  |
| SMPP versions supported | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | |  | v3.3 |  | v3.4 |  | v5 | |

# Operations Supported

## PDUs Supported

This table must be completed. If supported and the cross-reference section includes another table, that table must also be completed.

**Table 1:** **PDU's Supported**

|  |  |  |  |
| --- | --- | --- | --- |
| **Item** | **Functional Unit/Description** | **Support**  **YES NO** | |
| PDU-OUTBIND | Is the ***outbind*** PDU supported? |  |  |
| PDU-BIND-TRANSMITTER | Is the ***bind transmitter*** PDU supported? |  |  |
| PDU-BIND-RECEIVER | Is the ***bind receiver*** PDU supported? |  |  |
| PDU-BIND-TRANSCEIVER | Is the ***bind transceiver*** PDU supported? |  |  |
| PDU-UNBIND | Is the ***unbind*** PDU supported? |  |  |
| PDU-ESME- GENERIC-NACK | Is the ***generic\_nack*** PDU initiated by the EMSE supported? |  |  |
| PDU-SMSC-GENERIC-NACK | Is the ***generic\_nack*** PDU initiated by the SMSC supported? |  |  |
| PDU-SUBMIT-SM | Is the ***submit\_sm*** PDU supported? |  |  |
| PDU-SUBMIT-MULTI | Is the ***submit\_multi*** PDU supported? |  |  |
| PDU-DELIVER-SM | Is the ***deliver\_sm*** PDU supported? |  |  |
| PDU-ESME-DATA | Is the ***data\_sm*** PDU initiated by the EMSE supported? |  |  |
| PDU-SMSC-DATA | Is the ***data\_sm*** PDU initiated by the SMSC supported? |  |  |
| PDU-QUERY | Is the ***query\_sm*** PDU supported? |  |  |
| PDU-CANCEL | Is the ***cancel\_sm*** PDU supported? |  |  |
| PDU-REPLACE | Is the ***replace\_sm*** PDU supported? |  |  |
| PDU-ESME-ENQUIRE-LINK | Is the ***enquire\_link*** PDU initiated by the EMSE supported? |  |  |
| PDU-SMSC-ENQUIRE-LINK | Is the ***enquire\_link*** PDU initiated by the SMSC supported? |  |  |
| PDU-ALERT | Is the ***alert\_notification*** PDU supported? |  |  |

## 

## *Outbind* PDU

This table must be completed if PDU-OUTBIND was YES. The question OUTBIND-2 only applies if the implementation is an ESME.

Table: Outbind PDU

|  |  |  |  |
| --- | --- | --- | --- |
| **ITEM** | **Functional Unit/Description** | **Support**  **YES NO** | |
| OUTBIND-1 | Is the *password* field supported? |  |  |
| OUTBIND-2 | Is the *password* field used by the ESME for access control before connecting to the SMSC? |  |  |

## *Bind* PDU

This table should be completed if the answer to any of PDU-BIND-TRANSMITTER, PDU-BIND-RECEIVER or PDU-BIND-TRANSCEIVER was YES.

Table: Bind PDU

|  |  |  |  |
| --- | --- | --- | --- |
| **ITEM** | **Functional Unit/Description** | **Support**  **YES NO** | |
| BIND-1 | Is *sc\_interface\_version* field supported in a response to the operation? |  |  |
| BIND-2 | Is the *interface\_version* field supported in the bind\_transceiver operation? |  |  |

## *Submit\_sm* PDU

This table must be completed if PDU-SUBMIT-SM was YES.

Table: Submit PDU

|  |  |  |  |
| --- | --- | --- | --- |
| **ITEM** | **Functional Unit/Description** | **Support**  **YES NO** | |
| SUBMIT-1 | Is the use of different values in the *service\_type* field allowed? |  |  |
| SUBMIT-2 | Is the use of default values in the *source\_addr* fields supported? |  |  |
| SUBMIT-3 | Is *scheduled\_delivery* supported? |  |  |
| SUBMIT-4 | Is the *replace\_if\_present* functionality supported? |  |  |
| SUBMIT-5 | Are pre-defined short messages supported? |  |  |
| SUBMIT-6 | Is the use of the *validity\_period* field supported? |  |  |
| SUBMIT-7 | Is the *user\_message\_reference* field supported? |  |  |
| SUBMIT-8 | Is the *source\_port* field supported? |  |  |
| SUBMIT-9 | Is the *destination\_port* field supported? |  |  |
| SUBMIT-10-1 | Is the *sar\_msg\_ref\_num,* field supported? |  |  |
| SUBMIT-10-2 | Is the *sar\_total\_segments* field supported? |  |  |
| SUBMIT-10-3 | Is the *sar\_segment\_seqnum* field supported? |  |  |
| SUBMIT-11 | Is the *more\_messages\_to\_send* field supported? |  |  |
| SUBMIT-12 | Is the *message\_payload* field supported? |  |  |
| SUBMIT-13 | Is the *privacy\_indicator* field supported? |  |  |
| SUBMIT-14-1 | Is the *callback\_num* fields supported? |  |  |
| SUBMIT-14-2 | Is the *callback\_num\_atag* fields supported? |  |  |
| SUBMIT-14-3 | Is the *callback\_num\_pre\_ind* fields supported? |  |  |
| SUBMIT-15 | Is the *source\_subaddress* field supported? |  |  |
| SUBMIT-16 | Is the *dest\_subaddress* field supported? |  |  |
| SUBMIT-17 | Is the *user\_response\_code* field supported? |  |  |
| SUBMIT-18 | Is the *display\_time* field supported? |  |  |
| SUBMIT-19 | Is the *sms\_signal* field supported? |  |  |
| SUBMIT-20 | Is the *ms\_validity* field supported? |  |  |
| SUBMIT-21 | Is the *number\_of\_messages* field supported? |  |  |
| SUBMIT-22 | Is the *alert\_on\_msg\_delivery* field supported? |  |  |
| SUBMIT-23 | Is the *language\_indicator* field supported? |  |  |
| SUBMIT-24-1 | Is the *its\_reply\_type* field supported? |  |  |
| SUBMIT-24-2 | Is the *its\_session\_info* field supported? |  |  |
| SUMBIT-25 | Is the *ussd\_service\_op* field supported? |  |  |
| SUMBIT-26 | What is the maximum length of *message\_payload* data supported? |  | |
| SUMBIT-27 | Is the *payload\_type* field supported? |  |  |
| SUMBIT-28 | Is the *source\_addr\_subunit* field supported? |  |  |
| SUMBIT-29 | Is the *dest\_addr\_subunit* field supported? |  |  |
| SUMBIT-30 | Is the *ms\_msg\_wait\_facilities* field supported? |  |  |

## *Submit\_multi* PDU

This table must be completed if PDU-SUBMIT-MULTI was YES.

Table: Submit\_multi PDU

|  |  |  |  |
| --- | --- | --- | --- |
| **ITEM** | **Functional Unit/Description** | **Support**  **YES NO** | |
| SUBMIT-MULTI-1 | Is the use of different values in the *service\_type* field allowed? |  |  |
| SUBMIT-MULTI-2 | Is the use of default values in the *source\_addr* fields supported? |  |  |
| SUBMIT-MULTI-3 | Is *scheduled\_delivery* supported? |  |  |
| SUBMIT-MULTI-4 | Is the *replace\_if\_present* functionality supported? |  |  |
| SUBMIT-MULTI-5 | Are pre-defined short messages supported? |  |  |
| SUBMIT-MULTI-6 | Is the use of the *validity\_period* field supported? |  |  |
| SUBMIT-MULTI-7 | Is the *user\_message\_reference* field supported? |  |  |
| SUBMIT-MUTLI-8 | Is the *source\_port* field supported? |  |  |
| SUBMIT-MULTI-9 | Is the *destination\_port* field supported? |  |  |
| SUBMIT-MULTI-10-1 | Is the *sar\_msg\_ref\_num* field supported? |  |  |
| SUBMIT-MULTI-10-2 | Is the *sar\_total\_segments*, field supported? |  |  |
| SUBMIT-MULTI-10-3 | Is thes*ar\_segment\_seqnum* field supported? |  |  |
| SUBMIT-MULTI-11 | Is the *message\_payload* field supported? |  |  |
| SUBMIT-MULTI-12 | Is the *privacy\_indicator* field supported? |  |  |
| SUBMIT-MULTI-13-1 | Is the *callback\_num, callback* field supported |  |  |
| SUBMIT-MULTI-13-2 | Is the *callback\_num\_atag* field supported |  |  |
| SUBMIT-MULTI-13-3 | Is the *callback\_num\_pre\_ind* field supported |  |  |
| SUBMIT-MULTI-14 | Is the *source\_subaddress* field supported? |  |  |
| SUBMIT-MULTI-15 | Is the *dest\_subaddress* field supported? |  |  |
| SUBMIT-MULTI-17 | Is the *display\_time* field supported? |  |  |
| SUBMIT-MULTI-18 | Is the *sms\_signal* field supported? |  |  |
| SUBMIT-MULTI-19 | Is the *ms\_validity* field supported? |  |  |
| SUBMIT-MULTI-21 | Is the *alert\_on\_msg\_delivery* field supported? |  |  |
| SUBMIT-MULTI-22 | Is the *language\_indicator* field supported? |  |  |
| SUBMIT-MULTI-23 | What is the maximum number of destinations supported? |  | |
| SUBMIT-MULTI-24 | What is the maximum length of  message\_ payload data supported? |  | |
| SUBMIT-MULTI-25 | Are distribution lists (DLs) supported? |  |  |
| SUMBIT-MULTI-26 | Is the *payload\_type* field supported? |  |  |
| SUBMIT-MULTI-27 | Is the *more\_messages\_to\_send* field supported? |  |  |
| SUBMIT-MULTI-28 | Is the *source\_addr\_subunit* field supported? |  |  |
| SUBMIT-MULTI-29 | Is the *dest\_addr\_subunit* field supported? |  |  |
| SUBMIT-MULTI-30 | Is the *ms\_msg\_wait\_facilities* field supported? |  |  |

## *Deliver\_sm* PDU

This table must be completed if PDU-DELIVER-SM was YES.

Table: Deliver\_sm PDU

|  |  |  |  |
| --- | --- | --- | --- |
| **ITEM** | **Functional Unit/Description** | **Support**  **YES NO** | |
| DELIVER-1 | Is the use of different values in the *service\_type* field allowed? |  |  |
| DELIVER-2 | Is the *user\_message\_reference* field supported? |  |  |
| DELIVER-3 | Is the *source\_port* field supported? |  |  |
| DELIVER-4 | Is the *destination\_port* field supported? |  |  |
| DELIVER-5-1 | Is the *sar\_msg\_ref\_num* field supported? |  |  |
| DELIVER-5-2 | Is the *sar\_total\_segments* field supported? |  |  |
| DELIVER-5-3 | Is the *sar\_segment\_seqnum* fields supported? |  |  |
| DELIVER-6 | Is the *user\_response\_code* field supported? |  |  |
| DELIVER-7 | Is the *privacy\_indicator* field supported? |  |  |
| DELIVER-8 | Is the *message\_payload* field supported? |  |  |
| DELIVER-9 | Is the *callback\_num* field supported? |  |  |
| DELIVER-10 | Is the *source\_subaddress* field supported? |  |  |
| DELIVER-11 | Is the *dest\_subaddress* field supported? |  |  |
| DELIVER-12 | Is the *network\_error\_code* field supported? |  |  |
| DELIVER-13 | Is the *its\_session\_info* field supported? |  |  |
| DELIVER-14 | Is the *language\_indicator* field supported? |  |  |
| DELIVER-15 | Is the *message\_state* field supported? |  |  |
| DELIVER-16 | What is the maximum length of *message\_payload* data supported? |  | |
| DELIVER-17 | Is the *payload\_type* field supported? |  |  |
| DELIVER-18 | Is the *receipted\_message\_id* field supported? |  |  |

## Data\_sm PDU

This table must be completed if PDU-ESME-DATA was YES. This table applies to data\_sm PDU's sent from the ESME to the SMSC.

Table: ESME Data PDU

|  |  |  |  |
| --- | --- | --- | --- |
| **ITEM** | **Functional Unit/Description** | **Support**  **YES NO** | |
| ESME-DATA-1 | Is the use of different values in the *service\_type* field allowed? |  |  |
| ESME-DATA-2 | Is the use of default values in the *source\_addr* fields supported? |  |  |
| ESME-DATA-3 | Is the *user\_message\_reference* field supported? |  |  |
| ESME-DATA-4 | Is the *source\_port* field supported? |  |  |
| ESME-DATA-5 | Is the *destination\_port* field supported? |  |  |
| ESME-DATA-6-1 | Is the *sar\_msg\_ref\_num* field supported? |  |  |
| ESME-DATA-6-2 | Is the *sar\_total\_segments* field supported? |  |  |
| ESME-DATA-6-3 | Is the *sar\_segment\_seqnum* fields supported? |  |  |
| ESME-DATA-7 | Is the *privacy\_indicator* field supported? |  |  |
| ESME-DATA-8-1 | Is the *callback\_num* field supported? |  |  |
| ESME-DATA-8-2 | Is the *callback\_num\_atag* field supported? |  |  |
| ESME-DATA-8-3 | Is the *callback\_num\_pre\_ind* field supported? |  |  |
| ESME-DATA-9 | Is the *source\_subaddress* field supported? |  |  |
| ESME-DATA-10 | Is the *dest\_subaddress* field supported? |  |  |
| ESME-DATA-11 | Is the *user\_response\_code* field supported? |  |  |
| ESME-DATA-12 | Is the *display\_time* field supported? |  |  |
| ESME-DATA-13 | Is the *sms\_signal* field supported? |  |  |
| ESME-DATA-14 | Is the *ms\_validity* field supported? |  |  |
| ESME-DATA-15 | Is the *number\_of\_messages* field supported? |  |  |
| ESME-DATA-16 | Is the *alert\_on\_msg\_delivery* field supported? |  |  |
| ESME-DATA-17 | Is the *langauage\_indicator* field supported? |  |  |
| ESME-DATA-18-1 | Is the *its\_reply\_type* field supported? |  |  |
| ESME-DATA-18-2 | Is the *its\_session\_info* field supported? |  |  |
| ESME-DATA-19 | Is the *more\_msgs\_to\_send* field supported? |  |  |
| ESME-DATA-20-1 | Is the *set\_dpf* field supported? |  |  |
| ESME-DATA-20-2 | Is the *dpf\_result* field supported? |  |  |
| ESME-DATA-21 | Is the *message\_payload* field supported? |  |  |
| ESME-DATA-22 | What is the maximum length of *message\_payload* data supported? |  | |
| ESME-DATA-23 | Is the *delivery\_failure\_reason* field supported? |  |  |
| ESME-DATA-24 | Is the *network\_error\_code* field supported? |  |  |
| ESME-DATA-25 | Is the *source\_addr\_subunit* field supported? |  |  |
| ESME-DATA-26 | Is the *dest\_addr\_subunit* field supported? |  |  |
| ESME-DATA-27 | Is the *ms\_msg\_wait\_facilities* field supported? |  |  |
| ESME-DATA-28 | Is the *payload\_type* field supported? |  |  |
| ESME-DATA-29 | Is the *additional\_status\_info\_text* field supported? |  |  |
| ESME-DATA-30 | Is the *source\_network\_type* field supported? |  |  |
| ESME-DATA-31 | Is the *source\_bearer\_type* field supported? |  |  |
| ESME-DATA-32 | Is the *source\_telematics\_id* field supported? |  |  |
| ESME-DATA-33 | Is the *dest\_network\_type* field supported? |  |  |
| ESME-DATA-34 | Is the *dest\_bearer\_type* field supported? |  |  |
| ESME-DATA-35 | Is the *dest\_telematics\_id* field supported? |  |  |
| ESME-DATA-36 | Is the *message\_state* field supported? |  |  |
| ESME-DATA-37 | Is the *qos\_time\_to\_live* field supported? |  |  |

This table must be completed if PDU-SMSC-DATA was YES. This table applies to data\_sm PDU's sent from the SMSC to the ESME.

Table: SMSC Data PDU

|  |  |  |  |
| --- | --- | --- | --- |
| **ITEM** | **Functional Unit/Description** | **Support**  **YES NO** | |
| SMSC-DATA-1 | Is the use of different values in the *service\_type* field allowed? |  |  |
| SMSC-DATA-2 | Is the use of default values in the *source\_addr* fields supported? |  |  |
| SMSC-DATA-3 | Is the *user\_message\_reference* field supported? |  |  |
| SMSC-DATA-4 | Is the *source\_port* field supported? |  |  |
| SMSC-DATA-5 | Is the *destination\_port* field supported? |  |  |
| SMSC-DATA-6-1 | Is the *sar\_msg\_ref\_num* field supported? |  |  |
| SMSC-DATA-6-2 | Is the *sar\_total\_segments* field supported? |  |  |
| SMSC-DATA-6-3 | Is the *sar\_segment\_seqnum* field supported? |  |  |
| SMSC-DATA-7 | Is the *privacy\_indicator* field supported? |  |  |
| SMSC-DATA-8-1 | Is the *callback\_num* field supported? |  |  |
| SMSC-DATA-8-2 | Is the *callback\_num\_atag* field supported? |  |  |
| SMSC-DATA-8-3 | Is the *callback\_num\_pre\_ind* field supported? |  |  |
| SMSC-DATA-9 | Is the source\_subaddress field supported? |  |  |
| SMSC-DATA-10 | Is the *dest\_subaddress* field supported? |  |  |
| SMSC-DATA-11 | Is the *user\_response\_code* field supported? |  |  |
| SMSC-DATA-12 | Is the *display\_time* field supported? |  |  |
| SMSC-DATA-13 | Is the *sms\_signal* field supported? |  |  |
| SMSC-DATA-14 | Is the *ms\_validity* field supported? |  |  |
| SMSC-DATA-15 | Is the *number\_of\_messages* field supported? |  |  |
| SMSC-DATA-16 | Is the *alert\_on\_msg\_delivery* field supported? |  |  |
| SMSC-DATA-17 | Is the *langauage\_indicator* field supported? |  |  |
| SMSC-DATA-18-1 | Is the *its\_reply\_type* field supported? |  |  |
| SMSC-DATA-18-2 | Is the *its\_session\_info* field supported? |  |  |
| SMSC-DATA-19 | Is the *more\_msgs\_to\_send* field supported? |  |  |
| SMSC-DATA-20-1 | Is the *set\_dpf* field supported? |  |  |
| SMSC-DATA-20-2 | Is the *dpf\_result* field supported? |  |  |
| SMSC-DATA-21 | Is the *message\_payload* field supported? |  |  |
| SMSC-DATA-22 | What is the maximum length of *message\_payload* data supported? |  | |
| SMSC-DATA-23 | Is the *delivery\_failure\_reason* field supported? |  |  |
| SMSC-DATA-24 | Is the *network\_error\_code* field supported? |  |  |
| SMSC-DATA-25 | Is the *source\_addr\_subunit* field supported? |  |  |
| SMSC-DATA-26 | Is the *dest\_addr\_subunit* field supported? |  |  |
| SMSC-DATA-27 | Is the *ms\_msg\_wait\_facilities* field supported? |  |  |
| SMSC-DATA-28 | Is the *payload\_type* field supported? |  |  |
| SMSC-DATA-29 | Is the *additional\_status\_info\_text* field supported? |  |  |
| SMSC-DATA-30 | Is the *source\_network\_type* field supported? |  |  |
| SMSC-DATA-31 | Is the *source\_bearer\_type* field supported? |  |  |
| SMSC-DATA-32 | Is the *source\_telematics\_id* field supported? |  |  |
| SMSC-DATA-33 | Is the *dest\_network\_type* field supported? |  |  |
| SMSC-DATA-34 | Is the *dest\_bearer\_type* field supported? |  |  |
| SMSC-DATA-35 | Is the *dest\_telematics\_id* field supported? |  |  |
| SMSC-DATA-36 | Is the *receipted\_message\_id* field supported? |  |  |
| SMSC-DATA-37 | Is the *message\_state* field supported? |  |  |
| SMSC-DATA-38 | Is the *qos\_time\_to\_live* field supported? |  |  |

## *Query\_sm* PDU

This table must be completed if PDU-QUERY-SM was YES.

Table: Query\_sm PDU

|  |  |  |  |
| --- | --- | --- | --- |
| **ITEM** | **Functional Unit/Description** | **Support**  **YES NO** | |
| QUERY-1 | Is the use of default values in the *source\_addr* fields supported? |  |  |

## *Cancel\_sm* PDU

This table must be completed if PDU-CANCEL was YES.

Table: Cancel\_sm PDU

|  |  |  |  |
| --- | --- | --- | --- |
| **ITEM** | **Functional Unit/Description** | **Support**  **YES NO** | |
| CANCEL-1 | Is the use of default values in the *source\_addr* fields supported? |  |  |
| CANCEL-2 | Is the *message\_id* of NULL, and thus cancelling a group of messages supported? |  |  |

## *Replace\_sm* PDU

This table must be completed if PDU-REPLACE was YES.

Table: Replace PDU

|  |  |  |  |
| --- | --- | --- | --- |
| **ITEM** | **Functional Unit/Description** | **Support**  **YES NO** | |
| REPLACE-1 | Is the use of default values in the *source\_addr* fields supported? |  |  |

## *Alert\_notification* PDU

This table must be completed if PDU-ALERT was YES.

Table: Alert\_notification PDU

|  |  |  |  |
| --- | --- | --- | --- |
| **ITEM** | **Functional Unit/Description** | **Support**  **YES NO** | |
| ALERT-1 | Are the source and ESME address fields always set? |  |  |
| ALERT-2 | Is the *ms\_availability\_status* field supported? |  |  |

# Functional Items

## Forward Compatibility Issues

This table must be completed.

Table: Forward Compatibility

|  |  |  |  |
| --- | --- | --- | --- |
| **ITEM** | **Functional Unit/Description** | **Support**  **YES NO** | |
| FORWARD-1 | If the application receives an unknown PDU does it return a *generic\_nack*? |  |  |
| FORWARD-2 | Are unsupported and unrecognised optional fields ignored? |  |  |
| FORWARD-3 | Are all 'reserved' values in parameters interpreted as the default value ? |  |  |
| FORWARD-4 | Are unrecognised values in parameter value fields treated as an error ? |  |  |
| FORWARD-5 | Is an inconsistent Optional parameter combinations counted as an error? |  |  |
| FORWARD-6 | Do invalid parameter lengths cause the PDU to be rejected? |  |  |

## Backward Compatibility Issues

This table must be completed.

Table: Backward Compatibility

|  |  |  |  |
| --- | --- | --- | --- |
| **ITEM** | **Functional Unit/Description** | **Support**  **YES NO** | |
| BACK-1 | Is it possible to make this implementation only support v3.3 and not use any v3.4 features? |  |  |
| BACK-2 | Is it possible to make this implementation only support v3.4 and not use any v5 features? |  |  |

## Implementation Issues

This table must be completed.

Table: Implementation Issues

|  |  |  |  |
| --- | --- | --- | --- |
| **ITEM** | **Functional Unit/Description** | **Support**  **YES NO** | |
| IMP-1 | What is the maximum value for the PDU header field *command\_length* which is supported by the implementation? |  | |
| IMP-2 | Are all the optional parameters processed in an order independent manner? |  |  |

## Overall Message Types Supported

This table must be completed.

Table: Message Type Supported

|  |  |  |  |
| --- | --- | --- | --- |
| **ITEM** | **Functional Unit/Description** | **Support**  **YES NO** | |
| TYPE-1 | Are normal data messages transmitted? |  |  |
| TYPE-2 | Can SMSC Delivery Receipts be requested and obeyed? |  |  |
| TYPE-3 | Are intermediate notifications supported? |  |  |
| TYPE-4 | Are SME Delivery acknowledgements (Read receipts) supported? |  |  |
| TYPE-5 | Are SME Manual/User acknowledgements supported? |  |  |
| TYPE-6 | Are Conversational Aborts supported? |  |  |

## Timers

This table must be completed.

Table: Supported Timers

|  |  |  |  |
| --- | --- | --- | --- |
| **ITEM** | **Functional Unit/Description** | **Support**  **YES NO** | |
| TIMER-1 | Is the SMPP *session\_init\_timer* implemented? |  |  |
| TIMER-2 | Is the SMPP *enquire\_link\_timer* implemented? |  |  |
| TIMER-3 | Is the SMPP *inactivity\_timer* implemented? |  |  |
| TIMER-4 | Is the SMPP *response\_timer* implemented? |  |  |

## ESME Specific Questions

This table should be completed if the implementation is an ESME. If it is an SMSC then this table should be ignored.

Table: ESME Specific Questions

|  |  |  |  |
| --- | --- | --- | --- |
| **ITEM** | **Functional Unit/Description** | **Support**  **YES NO** | |
| EMSE-1 | Can it bind as a Transmitter? |  |  |
| ESME-2 | Can it bind as a Receiver? |  |  |
| ESME-3 | Can it bind as a Transceiver? |  |  |
| ESME-4 | Is the SMPP session timer Implemented? |  |  |
| ESME-5 | Does this ESME correctly create a session to the SMSC with a bind PDU when it receives an outbind PDU from the SMSC ? |  |  |
| EMSE-6 | Are *addr\_ton*, *addr\_npi* and *address\_range* fields populated with values in the bind\_receiver and bind\_transceiver PDU’s? |  |  |
| ESME-7 | What is the maximum length of *message\_id* supported in operations? |  | |

## SMSC Specific Questions

This table should be completed if the implementation is an SMSC. If it is an EMSE then this table should be ignored.

Table: SMSC specific questions

|  |  |  |  |
| --- | --- | --- | --- |
| **ITEM** | **Functional Unit/Description** | **Support**  **YES NO** | |
| SMSC-1 | Can a Store and Forward method of final delivery be used? |  |  |
| SMSC-2 | Can a Datagram method of final delivery be used? |  |  |
| SMSC-3 | Can a Transaction mode method of final delivery be used? |  |  |
| SMSC-4 | Can this initiate a session by using the outbind operation sequence? |  |  |
| SMSC-5 | What is the maximum length of *message\_id* supported in operations? |  | |

# Implementation Issues

## Overview

The SMPP Protocol is complex and implementations vary in the job that they have to perform. Due to this certain fields in the SMPP protocol affect inter-working or general usage of the application.

These can be because of limits imposed due to the range of values that are acceptable to a certain vendor's implementation. To help to identify and reduce these issues the following items may be completed.

## SMSC Specific Questions

These should only be answered if the application is an SMSC.

Table: SMSC specific questions

|  |  |  |  |
| --- | --- | --- | --- |
| **ITEM** | **Functional Unit/Description** | **Support**  **YES NO** | |
| IMP-SMSC-1 | Is information in a bind PDU is used for access control? |  |  |
| IMP-SMSC-2 | Can the information in the bind PDU be used for routing messages to the ESME? |  |  |
| IMP-SMSC-3 | In a cancel\_sm received from an ESME, must the *service\_type* field be set to the same value as the original message which is being canceled? |  |  |
| IMP-SMSC-4 | In a replace\_sm received from an ESME, must the *service\_type* field be set to the same value as the original message which is being replaced? |  |  |

## Link Usage

This table must be completed.

Table: Link usage issues

|  |  |  |  |
| --- | --- | --- | --- |
| **ITEM** | **Functional Unit/Description** | **Support**  **YES NO** | |
| LINK-1 | Is it possible to have multiple links to the same SMSC using the same access control information? |  |  |
| LINK-2 | Is it possible to have multiple links to the same SMSC using different access control information? |  |  |

## Data Fields

Some fields in the SMPP protocol are more influential in the behaviour of the peer system. Due to this, the following tables ask questions on the data fields in question. There is a table for each area/group of questions.

### Bind Fields

This table should be completed if the answer to any of PDU-BIND-TRANSMITTER, PDU-BIND-RECEIVER or PDU-BIND-TRANSCEIVER was YES.

Table: Bind PDU Fields

|  |  |  |
| --- | --- | --- |
| **Item** | **Issue and question** | **Answer** |
| Bind-Field1 | Are there any character or other limitations imposed upon values used in the *system\_id* field? |  |
| Bind-Field2 | Are there any character or other limitations imposed upon values used in the *system\_type* field? |  |
| Bind-Field3 | Are there any character or other limitations imposed upon values used in the *password* field? |  |

### Submit\_sm Fields

This table must be completed if PDU-SUMBIT-SM was YES.

Table: Submit\_sm Fields

|  |  |  |
| --- | --- | --- |
| **SMPP field** | **Issue and question** | **Answer** |
| Submit-Field1 | What, if any restrictions are imposed upon the value used in the *service\_type* field? |  |
| Submit-Field2 | What values in the *esm\_class* field are supported, and in what circumstances? |  |
| Submit-Field3 | What values in the *protocol\_id* field are supported, and in what circumstances? |  |
| Submit-Field4 | What values in the *priority* field are supported, and in what circumstances? |  |
| Submit-Field5 | What, if any restrictions are imposed upon the value used in the *schedule\_delivery\_time* field? |  |
| Submit-Field6 | What, if any restrictions are imposed upon the value used in the *validity\_period* field? |  |
| Submit-Field7 | Which values in the *registered\_delivery* field are supported? |  |
| Submit-Field8 | Are there any restrictions set upon the values specified in the *data\_coding* field? |  |
| Submit-Field9 | How many canned messages are supported via the *sm\_default\_allowed* field? |  |
| Submit-Field10 | What *dest\_network\_type* and *source\_network\_type* values are supported? |  |
| Submit-Field11 | What *dest\_bearer\_type, dest\_telematics\_id, source\_bearer\_type, source\_telematics\_id* values are supported? |  |
| Submit-Field12 | What *payload\_type* values are supported? |  |
| Submit-Field13 | What *ms\_msg\_wait\_facilities* values are supported? |  |
| Submit-Field14 | What *privacy\_indicator* values are supported? |  |
| Submit-Field15 | What *language\_indicator* values are supported? |  |

### Submit\_multi Fields

This table must be completed if PDU-SUBMIT-MULTI was YES.

Table: Submit\_multi Fields

|  |  |  |
| --- | --- | --- |
| **SMPP field** | **Issue and question** | **Answer** |
| Multi-Field1 | What, if any restrictions are imposed upon the value used in the *service\_type* field? |  |
| Multi-Field2 | What values in the *esme\_class* field are supported, and in what circumstances? |  |
| Multi-Field3 | What values in the *protocol\_id* field are supported, and in what circumstances? |  |
| Multi-Field4 | What values in the *priority* field are supported, and in what circumstances? |  |
| Multi-Field5 | What, if any restrictions are imposed upon the value used in the *schedule\_delivery\_time* field? |  |
| Multi-Field6 | What, if any restrictions are imposed upon the value used in the *validity\_period* field? |  |
| Multi-Field7 | Which values in the *registered\_delivery* field are supported? |  |
| Multi-Field8 | Are there any restrictions set upon the values specified in the *data\_coding* field? |  |
| Multi-Field9 | How many canned messages are supported via the *sm\_default\_allowed*? |  |
| Multi-Field10 | What *dest\_network\_type*  *source\_network\_type* values are supported? |  |
| Multi-Field11 | What *dest\_bearer\_type*  *dest\_telematics\_id*  *source\_bearer\_type source\_telemantics\_id* values are supported? |  |
| Multi-Field12 | What *payload\_type values* are supported? |  |
| Multi-Field13 | What *ms\_msg\_wait\_facilities* values are supported? |  |
| Multi-Field14 | What *privacy\_indicator* values are supported? |  |
| Multi-Field15 | What *language\_indication* values are supported? |  |

### Deliver\_sm Fields

This table must be completed if PDU-DELIVER-SM was YES.

Table: Deliver\_sm Fields

|  |  |  |
| --- | --- | --- |
| **SMPP field** | **Issue and question** | **Answer** |
| Deliver-Field1 | What, if any restrictions are imposed upon the value used in the *service\_type* field. |  |
| Deliver-Field2 | What values in the *esme\_class* field are supported, and in what circumstances? |  |
| Deliver-Field3 | What values in the *protocol\_id* field are supported, and in what circumstances? |  |
| Deliver-Field4 | What values in the *priority* field are supported, and in what circumstances? |  |
| Deliver-Field5 | Which values in the *registered\_delivery* field are supported? |  |
| Deliver-Field6 | Are there any restrictions set upon the values specified in the *data\_coding* field? |  |
| Deliver-Field7 | What *payload\_type* values are supported? |  |
| Deliver-Field8 | What *privacy\_indicator* values are supported? |  |
| Deliver-Field9 | What *language\_indication* values are supported? |  |

### Data\_sm Fields

This table must be completed if PDU-SMSC-DATA or PDU-ESME-DATA was YES. This table applies to both cases. If then answer is different for each case then supply these details.

Table: Data\_sm Fields

|  |  |  |
| --- | --- | --- |
| **SMPP field** | **Issue and question** | **Answer** |
| Data-Field1 | What, if any restrictions are imposed upon the value used in the *service\_type* field? |  |
| Data-Field2 | What values in the *esme\_class* field are supported, and in what circumstances? |  |
| Data-Field3 | Which values in the *registered\_delivery* field are supported? |  |
| Data-Field4 | Are there any restrictions set upon the values specified in the *data\_coding* field? |  |
| Data-Field5 | What *dest\_network\_type*  *source\_network\_type* values are supported? |  |
| Data-Field6 | What *dest\_bearer\_type*  *dest\_telematics\_id*  *source\_bearer\_type source\_telemantics\_id* values are supported? |  |
| Data-Field7 | What *ms\_msg\_wait\_facilities* values are supported? |  |
| Data-Field8 | What *payload\_type* values are supported? |  |
| Data-Field9 | What *privacy\_indicator* values are supported? |  |
| Data-Field10 | What *language\_indication* values are supported? |  |