



## **mBlox SMPP Interface Technical Manual**

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## Preface

This document is designed to take the Client through the SMPP Interface in detail. If it does not answer the Clients question please contact mBlox customer support, (see 'Where to get help' below).

### Organisation of this document

<b>Section 1</b>	The change history of this document
<b>Section 2</b>	Introduction to the SMPP interface
<b>Section 3</b>	Connecting to the Service
<b>Section 4</b>	Submitting a Message
<b>Section 5</b>	Receiving a Mobile Originated Message
<b>Section 6</b>	Delivery Notifications and Reports
<b>Appendix</b>	

### Where to get help

For any further information or support please visit our website at [www.mblox.com](http://www.mblox.com) or contact one of our offices:

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## Section 1: Change History

### 1.1 Current document

**Document Title:** mBlox SMPP Interface Technical Manual  
**Author:** Radhika Sarang  
**Classification:** Confidential  
**Version:** 2.3  
**Date of Issue:** 15<sup>th</sup> November 2007

### 1.2 Version History

VERSION No.	DATE	REASON FOR ISSUE
1.0	14 <sup>th</sup> January 2004	Release Version
1.1	23 <sup>rd</sup> June 2004	European Release Version
1.2	10 <sup>th</sup> January 2005	Added SessionID information.
1.3	28 <sup>th</sup> January 2005	Amended UK business address and SessionID maximum length.
1.4	11 <sup>th</sup> February 2005	Amalgamated US SMPP Manual into this document.
1.5	21 <sup>st</sup> October 2005	Removed business address. Amended default character encoding ( <b>section 4.3</b> ). Amended character table ( <b>Appendix</b> ). Added vendor specific parameters ServiceDesc, ContentType, ServiceID and Tags ( <b>sections 4.6</b> and the <b>Appendix</b> ). Amended errcode support ( <b>section 6</b> ).
1.6	11 <sup>th</sup> January 2006	Corrected typo ( <b>section 6</b> ). Added vendor specific Tag parameters, mblox_NewSub and mblox_SubRef (the <b>Appendix</b> ).
2.0	13 <sup>th</sup> November 2006	Updating of document presentation and format
2.1	13 <sup>th</sup> July 2007	Added new Vendor Specific Method – Tags ( <b>Appendix</b> ).
2.3	15 <sup>th</sup> November 2007	Added Alltel and VZW Tags in Appendix

## Section 2: Introduction

This document describes how to interface to and use the mBlox SMPP Gateway (SMPPG) for connecting to the mBlox network for Mobile Terminated, Mobile Originated and Premium Rate SMS Services.

The mBlox SMPP Gateway implementation (SMPPG) has been written to the SMPP Developers Forum SMPP v3.4 Protocol Specification Issue 1.2, although it has been designed to be backward compatible with SMPP v3.3.

This document should be read in conjunction with the SMPP v3.4 Specification v1.2 and assumes a level of familiarity with SMPP functionality and mBlox product definitions.

### 2.1 Premium SMS Services

Vendor specific optional parameters are used within the SMPP interface to implement premium SMS services in some geographic locations. These are only available to applications using SMPP v3.4 and may be required to implement Premium SMS services.



**Refer to the PSMS Implementation Guide for your country for further information.**

### 2.2 Non-premium SMS Services

The use of vendor specific optional parameters is not required to implement non-premium SMS services and it is not a requirement that the client uses SMPP v3.4.

## Section 3: Connecting to the service

### 3.1 Failover and Resilience

The European and US mBlox platforms employ different network architectures around the SMPPG servers. The client should refer to each of the following sections as appropriate.

#### 3.1.1 Failover and Resilience – European Platform Only

mBlox provides two SMPPG servers for the client application to connect to for increased resilience. To ensure that all MO messages are received the client should connect to both of these servers simultaneously. Each server is connected to multiple backend processors, to maintain service in event of backend failure.

#### 3.1.2 Failover and Resilience – US Platform Only

mBlox provides two SMPPG servers for the client application to connect to for increased resilience. These are placed behind an IP load balancer so that only one bind is required. Each server is connected to multiple backend processors to maintain service in event of backend failure.

### 3.2 MO and Delivery Report routing

- Clients may connect to the mBlox SMPPG servers multiple times if required. Of use particularly if multiple applications need to be deployed
- Delivery reports are routed back to the application that sent the original MT messages
- The application is identified by a **system\_id** and **system\_type**, so if multiple applications are to be deployed a different **system\_type** must be used for each application
- If the product being used requires MO messages the client is provided with a **system\_type**, which must be used as the MO messages are mapped to this identifier within the mBlox network
- The client should bind to both mBlox SMPPG servers to ensure that all MO messages are received. MO messages will not be received by applications binding with an incorrect **system\_type**

### 3.3 Interface Version

The client application should connect with the **interface\_version** field set to 0x34 if it is using SMPP version 3.4 otherwise the SMPPG assumes the application is connecting with version 3.3.

If the application can only use v3.3 optional fields cannot be used. These optional fields may be required to implement Premium SMS.

### 3.4 Keeping the connection alive

The application should issue an **enquire\_link** request every 30 seconds. This will ensure the link stays active even when it is not in use. mBlox servers will terminate inactive links after 60 seconds.

## Section 4: Submitting Messages

### 4.1 Submission Types

Messages may be submitted with either **submit\_sm** or **data\_sm**, using either the **short\_message** or **message\_payload** fields. The message length may not exceed the byte limit for the network that the message is being sent to (for example 140 bytes on GSM networks). Please see product documentation for more information on this.

The SMPPG does not support **submit\_multi**. If the same message must be sent to multiple destinations, each message must be sent separately.

The SMPPG supports **sar** optional parameters for **data\_sm**. These are used to make a user data header (UDH), which is included in the message size byte limit. Message lengths must be adjusted accordingly if these parameters are used.

For **data\_sm** only, **source\_port** and **destination\_port** are also supported. As with the **sar** parameters, the port parameters will be used to make a UDH, which is included within the byte limit.

Concatenated messages are supported, either by using the **sar** parameters in a **data\_sm** or by explicit UDH in either **data\_sm** or **submit\_sm**. (Not all products support concatenated messages, please check the product documentation).

### 4.2 Submit Responses

A positive response to a submission will contain an error code of zero and a non-null message reference. Please note for backward compatibility with SMPP v3.3 the message reference will be given in hexadecimal.

A negative response will most likely contain an mBlox vendor specific error code and a null message reference. A list of error codes is show in the appendix.

### 4.3 Character Sets, Class and Data Coding

The SMPPG supports two character-encoding regimes.

- GSM 03.38 encoding
- Latin 1 (ISO-8859-1) encoding (default)

To use the default character-encoding messages should be sent with a **data\_coding** of 0. The default character-encoding is configured to be the Latin 1 (ISO-8859-1) character set, when the client account is provisioned. 7-bit compressed messages are not supported on the mBlox SMPPG.

## 4.4 Originators and Destinations

The default originator type is full international msisdn. Alpha numeric or network short code originators can be sent using the following **ton** values in **source\_addr\_ton**.

- Alpha Numeric 5
- National/Network Shortcode 3
- International MSISDN 1

Destination address types are not supported. These can set to any value but are always interpreted as 1,1. This requires all destination numbers to be sent in international format without leading 00 e.g. (447710123456).

## 4.5 Account Profile Settings

Different products are distinguished on the same mBlox account by use of **profiles**. The client is provided with a number of **profiles** each indicating a product or product element. The client selects which profile a message is sent on using the Profile Identifier (**ProfileId**). This is submitted in the **submit\_sm service\_type** field on the SMPPG. If this field is set to null, the default profile, (numerically lowest), will be used.

It is extremely important that **service\_type** is implemented accurately as it may determine the cost of the messages being sent or, on some Premium SMS products the network and charge associated with the message.

**Priority\_flag** is not supported. Priority is a product feature and hence identified by **ProfileID**.

## 4.6 Optional Parameters

The SMPPG supports a number of optional parameters but the application must be connected as SMPP v3.4 to use these. This is done by setting the **interface\_version** field in the bind request to 0x34.

(Some optional fields are available if binding as v3.3 without the use of v3.4 optional parameters, please consult mBlox Account management if this is of interest).

The optional parameters may be extremely important for the product implementation. Some PSMS implementations require use of these; please see product documentation for details. The extended tags are:

#### 4.6.1 Tariff

**mblox\_tariff** – This is used on MO and MT Premium SMS messages to identify the tariff associated with the message. The values will be communicated in the product/account communication.

This field must be sent as an operator specific optional parameter. Further details of the format are in the Appendix.

#### 4.6.2 Operator

**mblox\_operator** – This field is used to identify the destination operator the message will be sent to or has been received from. With many Premium SMS implementations this field is essential to determine the destination network for the chargeable message. Please see product documentation for this. A list of relevant **operatorids** will be provided.

On some MT products this can be used to bypass the routing in the mBlox network. If applicable a list of **operatorids** will be provided. (For US pager networks use of the parameter in this way is essential.)

This field must be sent as a vendor specific optional parameter. Further details of the format can be found in the Appendix.

#### 4.6.3 SessionID

**mblox\_sessionid** – This field is used to communicate the SessionID associated with an MO or MT message, which is required for certain PSMS implementations. If an MO message carries a SessionID parameter, then a premium MT sent in response must return the same value in its SessionID field. Clients should refer to the PSMS Implementation Guidelines for their geography for more information.

This field must be sent as a vendor specific optional parameter. Further details of the format can be found in the **Appendix**.

#### 4.6.4 Servicedesc

**mblox\_servicedesc** – This field is applicable to certain PSMS products only. The client should refer to the PSMS Implementation Guidelines for the relevant geography to determine whether this element is required. If present, it contains an identifier which sets a brief service description visible to the recipient subscriber (e.g. on their mobile phone bill). Service descriptions and their related identifiers are provisioned by mBlox when the service is set up.

This field must be sent as a vendor specific optional parameter. Further details of the format can found be in the **Appendix**.

#### 4.6.5 Contenttype

**mblox\_contenttype** – This field is applicable to certain PSMS products only. The client should refer to the PSMS Implementation Guidelines for the relevant geography to determine whether this element is required. If present, it contains a numeric identifier which specifies the type of content being delivered via the MT message. Valid values are provided in the document "mBlox Content Type Guide".

This field must be sent as a vendor specific optional parameter. Further details of the format can found be in the **Appendix**.

#### 4.6.6 Serviceid

**mblox\_serviceid** – This field is applicable to certain PSMS products only. The client should refer to the relevant product documentation to determine whether this element is required. If present, it contains the ServiceID which identifies the premium service or campaign with which the message is associated. The client is provided with a valid ServiceID value when each new service is set up on their account.

Clients who have been provided with a number of ServiceIDs should take particular care to use the correct one when submitting an MT message.

This field must be sent as a vendor specific optional parameter. Further details of the format can found be in the **Appendix**.

#### 4.6.7 Tags

**mblox\_<tag name>** – This range of fields is used to carry any parameters that are required only for a specific product.

The client should refer to the relevant product documentation to determine whether any of these should be used in either MO or MT messages as well as the required format for these.

This field must be sent as a vendor specific optional parameter. Further details of the format can found be in the **appendix**.

## Section 5: Receiving Mobile Originated Messages

### 5.1 MO Routing and Queueing

MO's are fully supported and will be routed to a receiver or transceiver session that's logged on with the correct **system\_type** specified for that MO routing. (This will be communicated to the client as part of the account details).



**Although a single bind will receive all MOs under normal operations it is strongly advised that the client binds to both SMPPGs to ensure all MOs are received.**

If the client is not logged on, MO's will be queued for up to 36 hours. There is a maximum limit to the number of messages that can be queued, please consult mBlox support for further information on this.

The SMPPG supports the delivery of binary and unicode MO's in most cases, although this is destination operator dependant.

The mBlox **deliverer** code that the MO was received on will be passed on in the **deliver\_sm service\_type** field. The deliverer codes are essential for certain Premium SMS implementations please consult the account/product documentation.

### 5.2 Optional Parameters

Some optional parameters are available on MO and MT, some are MT only. See the appendix for details.

The SMPPG supports a number of optional parameters but the application must be connected as SMPP v3.4 to use these. This is done by setting the **interface\_version** field in the bind request to 0x34. (Some optional fields are available if binding as v3.3, please consult mBlox Account management if this is of interest.)

The optional parameters may be extremely important for the product implementation. Some PSMS implementations require use of these; please see product documentation for details.

The MO optional parameters are the same as the MT parameters described in section 3.6 and further details can be found in the **appendix**.

## Section 6: Delivery Notification/Reports

mblox will return a delivery report to the client application when the registered\_delivery field is set to anything other than zero or null. Full delivery reporting will be active for any other value in this field.

The delivery report format is the same as suggested in the SMPP v3.4 specification with the addition of 2 status codes. The same delivery notification format is used on SMPP v3.3 binds.

**Please note, in accordance with SMPP v3.4 specifications, the message reference field (id) is in decimal.**

The SMPPG supports the following 'errcodes' in Delivery Reports as standard. If Premium Transaction Tracking is activated on the client account different codes are used, please check the relevant documentation.

Status	Errcode	Description
<b>DELIVRD</b>	000	Delivered to handset
<b>ACKED</b>	003	Mblox have submitted your message to a deliverer
<b>BUFFRED</b>	004	Deliverer could not deliver, but has spooled for retry
<b>FAILED</b>	005	Deliverer could not deliver, and will not retry
<b>UNKNOWN</b>	999	mBlox cannot determine the status of your message, but it will no further retries will be attempted

## Appendix

### Reason codes for Rejected Messages

In addition to the standard SMPP `submit_sm_resp` command status, mBlox have implemented rejects from the vendor specific range to be able to provide information that is directly related to the mBlox platform. The following rejects (`submit_sm_resp` with non-zero error code) are implemented. Retry the message where indicated.

SMPP Code (HEX)	Reason
008	System Error
401	Number blacklisted in system
402	Client blacklisted in system
403	Prefix blacklisted in system
404	Invalid account Error
405	No longer applicable
406	Destination busy - The message was not sent due to the fact that the QoS was busy, please try again.
407	Reply Type Error.
408	MSIP Syntax Error.
409	No longer applicable
40A	System unavailable.
40B	System unavailable.
40C	System unavailable.
40D	Profile Error.
40E	Username not set - No username was specified.
40F	Do not try again. Binary message not allowed on profile. - This message does not allow binary messages.
410	Temporary System failure, please retry.
411	Number unroutable. Do not retry.

SMPP Code (HEX)	Reason
412	Number Temporarily unroutable, please try again.
413	Number unroutable. Do not retry.
414	Number unroutable on current settings. Do not retry.
415	Number Temporarily unroutable, please try again.
416	Number unroutable. Do not retry.
417	Number unroutable. Do not retry.
418	Number unroutable. Do not retry.
419	Number unroutable. Do not retry.
41A	Number unroutable. Do not retry.
41B	Number unroutable. Do not retry.
41C	Number Temporarily unroutable, please try again.
41D	Number unroutable. Do not retry.
41E	Number Temporarily unroutable, please try again.
41F	Number Temporarily unroutable, please try again.
420	Unable to send on local deliverer
421	Cannot find originator for index. Do not retry.
422	Destination, please try again.
423	Number is blocked. Do not retry.
424	Billing Reference Error. Do not retry.
425	Number is blocked. Do not retry
426	Throttling – Please try again.
427	Bad sequence
428	Error when supplying a client id

SMPP Code (HEX)	Reason
429	Error when supplying a client id
42A	Routing error for PSMS
42B	Routing error for PSMS
42C	Routing error for PSMS
42D	Routing error for PSMS
42E	The text content of this message is prohibited on this product.
42F	The number portability operator lookup failed.
430	The operator parameter is required when a MT is sent through the PsmsPlex application.
431	The MT could not be routed in the PsmsPlex application.
432	An unknown exception encountered when handling tags.
433	The tag is not configured in the database.
434	The name of the tag is not valid.
435	The value of the tag is not valid.
436	The tag is not allowed for this destination operator.
437	Syntax error in tag/value pair.
438	Too many tags are submitted in the message.
439	A tag is duplicated.
43A	Invalid ServiceDesc. Do not retry.
43B	Default ServiceDesc not configured. Do not retry.
43C	Invalid ContentType. Do not retry.
43D	Default ContentType not configured. Do not retry.
43E	ContentType not configured for Operator. Do not retry.
43F	Invalid ContentType. Do not retry.
440	Default ServiceId not configured. Do not retry.
441	ServiceId not configured for Operator. Do not retry.

## Character Encodings and Character Sets

mBlox SMPPG supports two character encoding regimes for text messages as discussed in **section 3.3**, GSM 03.38 and ISO-8859- (Latin1)

The actual characters that are supported for delivery to the handset are product specific.

### GSM Character Set

00	@	20	SP	40	i	60	ž
01	£	21	!	41	A	61	ǎ
02	\$	22	"	42	B	62	b
03	¥	23	#	43	C	63	c
04	è	24	α	44	D	64	d
05	é	25	%	45	E	65	e
06	ù	26	&	46	F	66	f
07	ì	27	'	47	G	67	g
08	ò	28	(	48	H	68	h
09	Ç	29	)	49	I	69	i
0A	LF	2A	*	4A	J	6A	j
0B	Ø	2B	+	4B	K	6B	k
0C	ø	2C	,	4C	L	6C	l
0D	CR	2D	-	4D	M	6D	m
0E	Å	2E	.	4E	N	6E	n
0F	å	2F	/	4F	O	6F	o
10	Δ	30	0	50	P	70	p
11	_	31	1	51	Q	71	q
12	Φ	32	2	52	R	72	r
13	Γ	33	3	53	S	73	s
14	Λ	34	4	54	T	74	t
15	Ω	35	5	55	U	75	u
16	π	36	6	56	V	76	v
17	ψ	37	7	57	W	77	w
18	Σ	38	8	58	X	78	x
19	Θ	39	9	59	Y	79	y
1A	Ξ	3A	:	5A	Z	7A	z
1B	ESC	3B	;	5B	Ä	7B	ä
1C	Æ	3C	<	5C	Ö	7C	ö
1D	œ	3D	=	5D	Ñ	7D	ñ
1E	b	3E	>	5E	Ü	7E	ü
1F	É	3F	¿	5F	§	7F	à

### GSM Extended Character set

This character set encoding is enabled by sending the ESC character (0x1b) and is valid for the next character only. So, to send the Euro symbol the application should send ESC & e.

00		20		00		60	
01		21		41		61	
02		22		42		62	
03		23		43		63	
04		02		44		64	
05		25		45		65	€
06		26		46		66	
07		27		47		67	
08		8	{	48		68	
09		2	}	49		69	
0A		2A		4A		6A	
0B		2B		4B		6B	
0C		2C		4C		6C	
0D		2D		4D		6D	
0E		2E		4E		6E	
0F		2F	\	4F		6F	
10		30		50		70	
11		31		51		71	
12		32		52		72	
13		33		53		73	
14		34		54		74	
15		35		55		75	
16		36		56		76	
17		37		57		77	
18		38		58		78	
19		39		59		79	
1A		3A		5A		7A	
1B	ESC	3B		5B		7B	
1C		3C	[	5C		7C	
1D		3D	~	5D		7D	
1E		3E	]	5E		7E	
1F		3F		11		7F	

### ISO-8859 (Latin1)

The ESC character 0x1b remains the same as GSM. Characters that would normally need to be escaped in GSM still need to be escaped with this character set, thus to send a [the application should send would send ESC + <.

20	SP	40	@	60		F2	ò
21	!	41	A	61	a	C7	ç
22	"	42	B	62	b	D8	ø
23	#	43	C	63	c	F8	ø
24	\$	44	D	64	d	C5	Å
25	%	45	E	65	e	E5	å
26	&	46	F	66	f	C6	Æ
27	'	47	G	67	g	E6	æ
28	(	48	H	68	h	Df	ß
29	)	49	I	69	i	C9	É
2A	*	4A	J	6A	j	A4	ª
2B	+	4B	K	6B	k	A1	ı
2C	,	4C	L	6C	l	C4	Ä
2D	-	4D	M	6D	m	D6	Ö
2E	.	4E	N	6E	n	D1	Ñ
2F	/	4F	O	6F	o	DC	Ü
30	0	50	P	70	p	A7	Ş
31	1	51	Q	71	q	BF	ı
32	2	52	R	72	r	E4	ä
33	3	53	S	73	s	F6	ö
34	4	54	T	74	t	F1	ñ
35	5	55	U	75	u	FC	ü
36	6	56	V	76	v	E0	à
37	7	57	W	77	w	0D	CR
38	8	58	X	78	x	0A	NL
39	9	59	Y	79	y	1B	ESC
3A	:	5A	Z	7A	z		
3B	;	5B		A5	¥		
3C	<	5C		E8	è		
3D	=	5D		E9	é		
3E	>	5E		F9	ù		
3F	¿	5F	_	EC	ì		

## mBlox Optional Parameters

The mblox SMPPG has defined some fields as Vendor Specific Optional Parameters. According to the SMPP v3.4 specification, the range 0x1400 – 0x3FF are reserved for vendor specific use. These fields are essential for many PSMS implementations.

### Vendor Specific Method – Operator

This field is used in both MT and MO messaging to identify the network the message is being sent or has been received from.

Field	Size	Type	Description
Parameter Tag	2	Integer	mblox_operator, id = 0x1402
Length	2	Integer	Length of Value parameter in octets
Value	5	string	5-character operator id. A list of relevant operator ids will be provided in the product/account documentation if relevant.

### Vendor Specific Method – Tariff

This field is used in both MT and MO messaging to identify the end user charge associated with the message.

Field	Size	Type	Description
Parameter Tag	2	Integer	mblox_tariff, id = 0x1403
Length	2	Integer	Length of Value parameter in octets
Value	5	string	5 character tariff id. A list of relevant tariff ids will be provided in the product/account documentation if relevant.

## Vendor Specific Method – SessionID

This field is used for both MT and MO messaging to identify the session to which the message belongs.

Field	Size	Type	Description
Parameter Tag	2	Integer	mblox_sessionid, id = 0x1404
Length	2	Integer	Length of Value parameter in octets.
Value	Var	string	Valid SessionID.

## Vendor Specific Method – ServiceDesc

This field is used in MT to convey an identifier relating to the provider of the service.

Field	Size	Type	Description
Parameter Tag	2	Integer	mblox_servicedesc, id = 0x1405
Length	2	Integer	Length of Value parameter in octets
Value	Var	string	ServiceDesc Parameter

## Vendor Specific Method – ContentType

This field is used in MT to convey information relating to the content of the message.

Field	Size	Type	Description
Parameter Tag	2	Integer	mblox_contenttype, id = 0x1406
Length	2	Integer	Length of Value parameter in octets
Value	Var	string	ContentType Parameter

## Vendor Specific Method – ServiceID

This field is used in MT to convey information relating to the service associated with the message.

Field	Size	Type	Description
Parameter Tag	2	Integer	mblox_serviceid, id = 0x1407
Length	2	Integer	Length of Value parameter in octets
Value	Var	string	ServiceId Parameter

## Vendor Specific Method – Tags

These fields are used in MT or MO to convey information relating to the specific product.

Field	Size	Type	Description
Parameter Tag	2	Integer	mblox_imei, id = 0x1501
Length	2	Integer	Length of Value parameter in octets
Value	Var	string	IMEI/TAC ID parameter (MO only)

Field	Size	Type	Description
Parameter Tag	2	Integer	mblox_imode, id = 0x1502
Length	2	Integer	Length of Value parameter in octets
Value	Var	string	i-mode parameter (MO only)

Field	Size	Type	Description
Parameter Tag	2	Integer	mblox_SubID, id = 0x1503
Length	2	Integer	Length of Value parameter in octets
Value	Var	string	Subscription ID parameter (MO and MT)

Field	Size	Type	Description
Parameter Tag	2	Integer	mblox_HostNet, id = 0x1504
Length	2	Integer	Length of Value parameter in octets
Value	Var	string	Host network parameter (MO only)

Field	Size	Type	Description
Parameter Tag	2	Integer	mblox_NewSub, id= 0x1505
Length	2	Integer	Length of Value parameter in octets
Value	Var	string	New subscriber parameter (MT only)

Field	Size	Type	Description
Parameter Tag	2	Integer	mblox_SubRef, id = 0x1506
Length	2	Integer	Length of Value parameter in octets
Value	Var	string	Unique identity parameter (MO and MT)

Field	Size	Type	Description
Parameter Tag	2	Integer	mblox_SubDate id = 0x1509
Length	2	Integer	Length of Value parameter in octets
Value	Var	string	Use this field for original subscription start date

Field	Size	Type	Description
Parameter Tag	2	Integer	mblox_tag_UAProf = 0x1513
Length	2	Integer	Length of Value parameter in octets
Value	Var	string	Use this field to pass in device type or User Agent information for binary requests.

Field	Size	Type	Description
Parameter Tag	2	Integer	mblox_tag_BillID = 0x1519
Length	2	Integer	Length of Value parameter in octets
Value	Var	string	This field is passed back in the delivery receipt of a purchase request. The value contains the unique identifier QPASS uses to identify this purchase request.

Field	Size	Type	Description
Parameter Tag	2	Integer	mblox_tag_SessionId, id = 0x1521
Length	2	Integer	Length of Value parameter in octets
Value	Var	string	Valid Session ID (Delivery Receipt only)

Field	Size	Type	Description
Parameter Tag	2	Integer	mblox_reasonCode, id= 0x1522
Length	2	Integer	Length of Value parameter in octets
Value	Var	String	Reason code for operation having occurred (MO only)

Field	Size	Type	Description
Parameter Tag	2	Integer	mblox_reasonMsg, id = 0x1523
Length	2	Integer	Length of Value parameter in octets
Value	Var	String	Reason message for operation having occurred (MO only)

Field	Size	Type	Description
Parameter Tag	2	Integer	mblox_Command, id = 0x1524
Length	2	Integer	Length of Value parameter in octets
Value	Var	String	Identifies the type of command being submitted (MT and MO)

Field	Size	Type	Description
Parameter Tag	2	Integer	mblox_AVStatus, id = 0x1526
Length	2	Integer	Length of Value parameter in octets
Value	Var	String	Age verification rating (MO only)

Field	Size	Type	Description
Parameter Tag	2	Integer	mblox_ProdDesc, id = 0x1527
Length	2	Integer	Length of Value parameter in octets
Value	Var	String	Billing Literal for Alltel, OPPC, OIOO.

## Notes

Please use this space to record any important information or further questions you have on the SMPP Interface.

**Notes (continued)...**