



# Zain Bulk Messaging Messaging Services

## Developer's Guide and Reference

Document version 3.2

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## **Introduction**

### **Zain Bulk Messaging**

Zain Bulk Messaging is a corporate service that allows Zain customers to send SMS and MMS messages using internet and web-based technologies. This service enables businesses and corporations to easily transmit SMS and MMS messages to a huge mass of recipients conveniently and quickly.

### **Web Services**

Web Services are a generic technology designed to support machines interacting over a network. A Web Service can be accessed over a network and executed on a remote system hosting the requested services. The term 'web services' refers to the client and servers that communicate over the HTTP protocol over the Internet.

### **Zain Messaging Services**

Zain Messaging Services is a set of Web Services that is designed for users of Zain Bulk Messaging to allow their applications to programmatically invoke the server, so as to send SMS and MMS messages to a large number of recipients conveniently and quickly.

Messaging Services replaces the older 'MMPWS' series of web services.

### **About this document**

This document outlines the various functions available to send and receive messages and related information using Messaging Services. Each function also describes the different parameters returned by it, with examples.

## More about Web Services

Web Services are internally executed using XML documents, which are conveyed between the client and the server through one or more HTTP connections.

While Web Services can be invoked in a raw fashion, with direct control of the XML by the application developer, the preferred methodology is to use a set of third-party libraries to send and receive these web service requests and responses. One such free and open-source implementation is the ava-based Apache Axis.

In this document, any references to an actual Web Service library or implementation is taken to be Apache Axis. Though, it should be noted that the use of Web Services, and the functions present in this document and related service, are not limited to Apache Axis, and in fact are present in most current development languages and environments, including Microsoft .NET , PHP, and others.

## Axis

SOAP is an XML-based communication protocol and encoding format for inter-application communication. Axis is a framework for constructing SOAP processors such as clients, servers and gateways. It also includes a server which plugs into servlet engines such as Tomcat, extensive support for the *Web Service Description Language (WSDL)* and an emitter tooling that generates Java classes from WSDL.

## WSDL

When a service is made available using Axis, there is typically a unique URL associated with that service. If the service URL is accessed in a browser, a message indicating that the endpoint is a web service is displayed. However, on adding "?wsdl" to the end of the URL, a service description for the deployed service is returned as XML to the browser. This WSDL defines the service, and its contained features.

## WSDL2Java and Creating Stubs

The Apache Axis implementation includes a utility to generate stubs which can be called by the application, as an intermediary to calls to the web service.

The stubs are created using the following commandline:

```
java org.apache.axis.wsdl.WSDL2Java <url to wsdl>
```

where the URL to the WSDL can be a file path, or an HTTP path, with appropriate prefixes, if required.

On execution of this command, the stubs will be generated in the current directory.

Note that since WSDL2Java is a component of Apache Axis, Axis has to be properly installed and configured for the command to be successful. Installation of Apache Axis is beyond the scope of this document.

## **Zain Messaging Services**

Zain provides its web services on their platform, the home page of which is accessible at:

**<http://bulkmsg.bh.zain.com>**

The web service's service endpoint URL is:

**[https://bulkmsg.bh.zain.com/services/MessagingServices\\_1](https://bulkmsg.bh.zain.com/services/MessagingServices_1)**

and its WSDL is available at:

**[https://bulkmsg.bh.zain.com/services/MessagingServices\\_1?wsdl](https://bulkmsg.bh.zain.com/services/MessagingServices_1?wsdl)**

If Apache Axis has been properly installed and configured on the client system, the stubs can be created using the following command:

```
java org.apache.axis.wsdl.WSDL2Java \  
https://bulkmsg.bh.zain.com/services/MessagingServices_1?wsdl
```

Note: The commandline above should be entered as a single line, without the '\' delimiter. The '\' delimiter is used on Unix and Linux systems to denote a single-line command that spans multiple lines. Such a delimiter may not be present on your operating system.

## **Messaging Services Features**

In later sections are detailed the methods contained in the web service. These methods can be invoked by your application to perform the required functionality.

### **Authentication**

The security of your account is maintained by password-based authentication. Almost all of the functions require a username and password, which identifies you as the authorized user of the account.

The username and password can be that of any of the 'Logins' present in your account on Bulk Messaging. It is recommended that a separate login be setup within your account, for the purpose of Web Services. Creating a separate login also helps while extracting reports of web service usage vs web-based usage by personnel in your organization.

### **Types of Methods**

The list of methods in the later section include several methods that seem to perform the same operation. These have been provided for the following reasons:

#### ***String return vs object return***

The '\_String' functions (for example, 'sendSMS' vs 'sendSMS\_String') return all values as a single string object. This feature is included due to systems that can connect to web services, but are not 100% compatible, ie, they are unable to breakdown returned objects. The '\_String' versions of these functions can be used, and the components of the string split up using simple string functions.

The components inside such a string are returned as comma-delimited values. Such values can even be saved into a '.CSV' file, to be viewed using any CSV-compatible viewer, such as Microsoft Excel.

#### ***Single Vs Multi***

Separate functions have been provided to allow multiple-object operations (for example, sendSMS vs sendMultiSMS). Use of these functions minimizes the number of http requests and responses, thereby improving the overall efficiency of the service. Use of these multi functions, where possible, is highly recommended.

Functions that return multiple objects include a count parameter - this makes the server limit the number of objects returned upto that count. Note that the number of objects returned by the server may be less than the client-specified-count; while it may mean that more objects are not present on the server, it should not explicitly be assumed to be so.

#### ***Other Notes***

Message concatenation (joining of two or more messages) is transparent using Messaging Services. The user can receive multiple messages as one provided they were sent as one message. The OutMsgID, which is the unique ID generated by the server is the same for all parts of the message.

## Methods available

### sendSMS

This function posts a single SMS to the server. The parameters to be passed to this function are:

Parameter Type	Parameter Name	Description
String	username	The login name used to access the account.
String	password	The password used to access the account.
String	batchname	Any unique name to identify the batch of SMS.
boolean	requestreceipt	If the user wants a delivery report.
boolean	sendasflash	If the SMS is intended to be a flash message.
Date	whentosend	The intended date and time of sending the SMS. Null for immediate sending.
String	sendername	The name that should appear as the sender of the SMS.
String	recipientname	The name of the recipient.
String	recipientMSISDNwithCC	The phone number of the recipient (with country code).
String	messagetext	The content of the SMS.

It returns an object with the following parameters.

Parameter Name	Description
SendSuccess	If the sms was posted successfully.
ErrorMessage	Error message if any occurred while posting the message.
OutMessageID	Server generated unique ID representing an SMS successfully posted to the server.
RawSMSCount	Number of parts into which the message was split before posting.

## sendSMS\_String

This function is similar to the one above. The parameters to be passed to this function are:

Parameter Type	Parameter Name	Description
String	username	The login name used to access the account.
String	password	The password used to access the account.
String	batchname	Any unique name to identify the batch of SMS.
boolean	requestreceipt	If the user wants a delivery report.
boolean	sendasflash	If the SMS is intended to be a flash message.
Date	whentosend	The intended date and time of sending the SMS. Null for immediate sending.
String	sendername	The name that should appear as the sender of the SMS.
String	recipientname	The name of the recipient.
String	recipientMSISDNwithCC	The phone number of the recipient (with country code).
String	messagetext	The content of the SMS.

It returns a String that is generated from the parameters of an object. The parameters and the string are as follows.

Parameter Name	Description
SendSuccess	If the sms was posted successfully.
ErrorMessage	Error message if any occurred while posting the message.
OutMessageID	Server generated unique ID representing an SMS successfully posted to the server.
RawSMSCount	Number of parts into which the message was split before posting.

Example sendSMS\_String Result:

"T","Success","6458960","1"



## sendMultiSMS

This function posts multiple SMSs to the server. The parameters passed to this function are:

Parameter Type	Parameter Name	Description
String	username	The login name used to access the account.
String	password	The password used to access the account.
String	batchname	Any unique name to identify the batch of SMS.
boolean	requestreceipt	If the user wants a delivery report.
boolean	sendasflash	If the SMS is intended to be a flash message.
Date	whentosend	The intended date and time of sending the SMS. Null for immediate sending.
String	sendername	The name that should appear as the sender of the SMS.
String[]	recipientnames	The names of the recipients.
String[]	recipientMSISDNwithCC	The phone numbers of the recipients (with country code).
String[]	messagetext	The content of the SMS for each recipient.

It returns an object with the following parameters.

Parameter Name	Description								
CallSuccess	If the sender authentications are valid.								
CallErrorMessage	Error message if any occurred while authenticating the sender.								
SMSCount	Number of messages the sender intended to post.								
MultiSMSValidList	Count of valid messages that were posted successfully.								
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gRecipientName	Name of the recipient								
gRecipientMSISDNwithCC	MSISDN of the recipient								
gOutMessageID	Server generated unique ID representing an SMS successfully posted to the server.								
MulltiSMSInvalidList	Count of invalid messages that could not be sent.								
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Parameter Name	Description								

	gRecipientName	Name of the recipient
	gRecipientMSISDNwithCC	MSISDN of the recipient
	gErrorMessage	Error message while posting the SMS.

## sendMultiSMS\_String

This function is similar to the one above. The parameters passed to the function are:

Parameter Type	Parameter Name	Description
String	username	The login name used to access the account.
String	password	The password used to access the account.
String	batchname	Any unique name to identify the batch of SMS.
boolean	requestreceipt	If the user wants a delivery report.
boolean	sendasflash	If the SMS is intended to be a flash message.
Date	whentosend	The intended date and time of sending the SMS. Null for immediate sending.
String	sendername	The name that should appear as the sender of the SMS.
String[]	recipientnames	The names of the recipients.
String[]	recipientMSISDNwithCC	The phone numbers of the recipients (with country code).
String[]	messagetext	The content of the SMS for each recipient.

It returns a String that is generated from the parameters of an object. The parameters and the string are as follows.

Parameter Name	Description						
CallSuccess	If the sender authentications are valid.						
CallErrorMessage	Error message if any occurred while authenticating the sender.						
SMSCount	Number of messages the sender intended to post.						
MultiSMSValidList	Count of valid messages that were posted successfully.						
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Parameter Name	Description						
gRecipientName	Name of the recipient						
gRecipientMSISDNwithCC	MSISDN of the recipient						

	gOutMessageID	Server generated unique ID representing an SMS successfully posted to the server.
MulltiSMSInvalidList	Count of invalid messages that could not be sent.	
	<b>Parameter Name</b>	<b>Description</b>
	gRecipientName	Name of the recipient
	gRecipientMSISDNwithCC	MSISDN of the recipient
	gErrorMessage	Error message while posting the SMS.

Eg `sendMultiSMS_String` Result:  
 "T","Success","2","2","T","Success","6458960","1","F,"You do not have sufficient credit to send messages.,"6458962","1"

## sendMMS

This function posts a single MMS(with a maximum of 3 attachments) to the server. The parameters passed to the function are:

Parameter Type	Parameter Name	Description
String	username	The login name used to access the account.
String	password	The password used to access the account.
String	batchname	Any unique name to identify the batch of SMS.
boolean	requestreceipt	If the user wants a delivery report.
Date	whentosend	The intended date and time of sending the SMS. Null for immediate sending.
String	sendername	The name that should appear as the sender of the SMS.
String	recipientname	The name of the recipient.
String	recipientMSISDNwithCC	The phone number of the recipient (with country code).
String	messagetext	The content of the SMS.
byte[]	MMSPart1_Data	The data of the first attachment.
String	MMSPart1_ContentType	The content type of the first attachment.
String	MMSPart1_FileName	The name of the first attachment.
byte[]	MMSPart2_Data	The data of the second attachment.

String	MMSPart2_ContentType	The content type of the second attachment.
String	MMSPart2_FileName	The name of the second attachment.
byte[]	MMSPart3_Data	The data of the third attachment.
String	MMSPart3_ContentType	The content type of the third attachment.
String	MMSPart3_FileName	The name of the third attachment.

It returns an object with the following parameters.

Parameter Name	Description
SendSuccess	If the MMS was posted successfully.
ErrorMessage	Error message if any occurred while posting the MMS.
OutMessageID	Server generated unique ID representing an MMS successfully posted to the server.

## sendMMS\_String

This function is similar to the one above. The parameters passed to the function are:

Parameter Type	Parameter Name	Description
String	username	The login name used to access the account.
String	password	The password used to access the account.
String	batchname	Any unique name to identify the batch of SMS.
boolean	requestreceipt	If the user wants a delivery report.
Date	whentosend	The intended date and time of sending the SMS. Null for immediate sending.
String	sendername	The name that should appear as the sender of the SMS.
String	recipientname	The name of the recipient.
String	recipientMSISDNwithCC	The phone number of the recipient (with country code).
String	messagetext	The content of the SMS.
byte[]	MMSPart1_Data	The data of the first attachment.
String	MMSPart1_ContentType	The content type of the first attachment.
String	MMSPart1_FileName	The name of the first attachment.
byte[]	MMSPart2_Data	The data of the second attachment.
String	MMSPart2_ContentType	The content type of the second attachment.
String	MMSPart2_FileName	The name of the second attachment.
byte[]	MMSPart3_Data	The data of the third attachment.
String	MMSPart3_ContentType	The content type of the third attachment.
String	MMSPart3_FileName	The name of the third attachment.

It returns a String that is generated from the parameters of an object. The parameters and the string are as follows.

Parameter Name	Description
SendSuccess	If the MMS was posted successfully.
ErrorMessage	Error message if any occurred while posting the MMS.
OutMessageID	Server generated unique ID representing an MMS successfully posted to the server.

Eg sendMMS\_String Result:"T","Success","6458961"

## sendMultiMMS

This function posts multiple MMSs to the server. The parameters passed to the function are:

Parameter Type	Parameter Name	Description														
String	username	The login name used to access the account.														
String	password	The password used to access the account.														
String	batchname	Any unique name to identify the batch of SMS.														
boolean	requestreceipt	If the user wants a delivery report.														
Date	whentosend	The intended date and time of sending the SMS. Null for immediate sending.														
String	sendername	The name that should appear as the sender of the SMS.														
String[]	recipientname	The names of the recipients.														
String[]	recipientMSISDN withCC	The phone numbers of the recipients (with country code).														
String[]	messagetext	The content of the MMS for each recipient.														
Messaging Services_MMSAttachments[]	AttachmentList	Array of MessagingServices_MMSAttachments, with one MessagingServices_MMSAttachments per recipient.														
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Content	The byte[] content of the attachment.															

It returns an object with the following parameters.

Parameter Name	Description								
CallSuccess	If the sender authentications are valid.								
CallErrorMessage	Error message if any occurred while authenticating the sender.								
MMSCount	Number of messages the sender intended to post.								
MultiMMSValidList	Count of valid messages that were posted successfully.								
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gRecipientMSISDNwithCC	MSISDN of the recipient								
gErrorMessage	Error message while posting the MMS.								

## sendMultiMMS\_String

This function is similar to the one above.

The parameters passed to the function are:

Parameter Type	Parameter Name	Description														
String	username	The login name used to access the account.														
String	password	The password used to access the account.														
String	batchname	Any unique name to identify the batch of SMS.														
boolean	requestreceipt	If the user wants a delivery report.														
Date	whentosend	The intended date and time of sending the SMS. Null for immediate sending.														
String	sendername	The name that should appear as the sender of the SMS.														
String[]	recipientname	The names of the recipients.														
String[]	recipientMSISDN withCC	The phone numbers of the recipients (with country code).														
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It returns a String that is generated from the parameters of an object. The parameters and the string are as follows.

Parameter Name	Description								
CallSuccess	If the sender authentications are valid.								
CallErrorMessage	Error message if any occurred while authenticating the sender.								
MMSCount	Number of messages the sender intended to post.								
MultiMMSValidList	Count of valid messages that were posted successfully.								
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Parameter Name	Description								
gRecipientName	Name of the recipient								
gRecipientMSISDNwithCC	MSISDN of the recipient								
gErrorMessage	Error message while posting the MMS.								

Eg `sendMultiMMS_String` Result:  
 "T","Success","2","2","T","Success","6458960","1","F","You do not have sufficient credit to send messages.,""6458962","1"

## getSingleIncomingSMS

This function receives a single SMS from the server. The parameters passed to the function are:

Parameter Type	Parameter Name	Description
String	username	The login name used to access the account.
String	password	The password used to access the account.

It returns an object with the following parameters.

Parameter Name	Description
CallSuccess	If the sender authentications are valid.
ErrorMessage	Error message if any occurred while authenticating the sender.
MessagePresent	If there was atleast one SMS present to be received.
InMessageID	Server generated unique ID representing an SMS to be received.
SenderMSISDNwithCC	Phone number of sender with country code.
MessageText	Content of the SMS.
RecipientMSISDNwithCC	Phone number of recipient with country code.
ReceivedAt	Date and time of receipt of the SMS.

## getSingleIncomingSMS\_String

This function is similar to the one above. The parameters passed to the function are:

Parameter Type	Parameter Name	Description
String	username	The login name used to access the account.
String	password	The password used to access the account.

It returns a String that is generated from the parameters of an object. The parameters and the string are as follows.

Parameter Name	Description
CallSuccess	If the sender authentications are valid.
ErrorMessage	Error message if any occurred while authenticating the sender.
MessagePresent	If there was atleast one SMS present to be received.
InMessageID	Server generated unique ID representing an SMS to be received.
SenderMSISDNwithCC	Phone number of sender with country code.
MessageText	Content of the SMS.
RecipientMSISDNwithCC	Phone number of recipient with country code.
ReceivedAt	Date and time of receipt of the SMS.

Eg `getSingleIncomingSMS` Result:"T","1 SMS present in response.", "T","3273","9739922980","id:Smsc2021 sub:1 dlvr:1 submit date:0612270149 done date:0612270149 stat:0 err:0 text:this is a short mess","9922980","2006-12-27 02:16:22"

## getMultipleIncomingSMS

This function receives multiple SMSs from the server. The parameters passed to the function are:

Parameter Type	Parameter Name	Description
String	username	The login name used to access the account.
String	password	The password used to access the account.
int	MaxNoOfMsgsToRetrieve	Maximum number of incoming SMSs to retrieve.

It returns an object with the following parameters.

Parameter Name	Description												
CallSuccess	If the sender authentications are valid.												
ErrorMessage	Error message if any occurred during authentication.												
MessagePresent	If there was atleast one SMS present to be received.												
SMSList	Count of messages to be received.												
	<table border="1"> <thead> <tr> <th>Parameter Name</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>InMessageID</td> <td>Server generated unique ID representing an SMS to be received.</td> </tr> <tr> <td>SenderMSISDNwithCC</td> <td>Phone number of sender with country code.</td> </tr> <tr> <td>MessageText</td> <td>Content of the SMS.</td> </tr> <tr> <td>RecipientMSISDNwithCC</td> <td>Phone number of recipient with country code.</td> </tr> <tr> <td>ReceivedAt</td> <td>Date and time of receipt of the SMS.</td> </tr> </tbody> </table>	Parameter Name	Description	InMessageID	Server generated unique ID representing an SMS to be received.	SenderMSISDNwithCC	Phone number of sender with country code.	MessageText	Content of the SMS.	RecipientMSISDNwithCC	Phone number of recipient with country code.	ReceivedAt	Date and time of receipt of the SMS.
Parameter Name	Description												
InMessageID	Server generated unique ID representing an SMS to be received.												
SenderMSISDNwithCC	Phone number of sender with country code.												
MessageText	Content of the SMS.												
RecipientMSISDNwithCC	Phone number of recipient with country code.												
ReceivedAt	Date and time of receipt of the SMS.												

## getMultipleIncomingSMS\_String

This function is similar to the one above. The parameters passed to the function are:

Parameter Type	Parameter Name	Description
String	username	The login name used to access the account.
String	password	The password used to access the account.
int	MaxNoOfMsgsToRetrieve	Maximum number of incoming SMSs to retrieve.

It returns a String that is generated from the parameters of an object. The parameters and the string are as follows.

Parameter Name	Description												
CallSuccess	If the sender authentications are valid.												
ErrorMessage	Error message if any occurred during authentication.												
MessagePresent	If there was atleast one SMS present to be received.												
SMSList	Count of messages to be received.												
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InMessageID	Server generated unique ID representing an SMS to be received.												
SenderMSISDNwithCC	Phone number of sender with country code.												
MessageText	Content of the SMS.												
RecipientMSISDNwithCC	Phone number of recipient with country code.												
ReceivedAt	Date and time of receipt of the SMS.												

Eg getMultipleIncomingSMS Result:"T","2 SMS present in response.,"T","2",  
 "3261","9739962008","id:Smsc2009 sub:1 dlvr:1 submit date:0612270149 done  
 date:0612270149 stat:0 err:0 text:this is a short mess","9962008","2006-12-27 02:16:22",  
 "3259","9739401170","id:Smsc2007 sub:1 dlvr:1 submit date:0612270149 done  
 date:0612270149 stat:0err:0 text:this is a short mess","9401170","2006-12-27 02:16:22"

## getSingleIncomingMMS

This function receives a single MMS from the server. The parameters passed to the function are:

Parameter Type	Parameter Name	Description
String	username	The login name used to access the account.
String	password	The password used to access the account.

It returns an object with the following parameters.

Parameter Name	Description								
CallSuccess	If the sender authentications are valid.								
ErrorMessage	Error message if any occurred during authentication.								
MessagePresent	If there was atleast one MMS present to be received.								
InMessageID	Server generated unique ID representing an MMS to be received.								
SenderMSISDNwithCC	Phone number of sender with country code.								
MessageText	Content of the MMS.								
RecipientMSISDNwithCC	Phone number of recipient with country code.								
ReceivedAt	Date and time of receipt of the MMS.								
Attachments	Count of attachments with the MMS.								
	<table border="1"> <thead> <tr> <th>Parameter Name</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>FileName</td> <td>Name of attachment file.</td> </tr> <tr> <td>ContentType</td> <td>Type of attachment file.</td> </tr> <tr> <td>Content</td> <td>Content of the attachment.</td> </tr> </tbody> </table>	Parameter Name	Description	FileName	Name of attachment file.	ContentType	Type of attachment file.	Content	Content of the attachment.
Parameter Name	Description								
FileName	Name of attachment file.								
ContentType	Type of attachment file.								
Content	Content of the attachment.								

## getSingleIncomingMMS\_String

This function is similar to the one above. The parameters passed to the function are:

Parameter Type	Parameter Name	Description
String	username	The login name used to access the account.
String	password	The password used to access the account.

It returns a String that is generated from the parameters of an object. The parameters and the string are as follows.

Parameter Name	Description								
CallSuccess	If the sender authentications are valid.								
ErrorMessage	Error message if any occurred during authentication.								
MessagePresent	If there was atleast one MMS present to be received.								
InMessageID	Server generated unique ID representing an MMS to be received.								
SenderMSISDNwithCC	Phone number of sender with country code.								
MessageText	Content of the MMS.								
RecipientMSISDNwithCC	Phone number of recipient with country code.								
ReceivedAt	Date and time of receipt of the MMS.								
Attachments	Count of attachments with the MMS.								
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Parameter Name	Description								
FileName	Name of attachment file.								
ContentType	Type of attachment file.								
Content	Content of the attachment.								

Eg `getSingleIncomingMMS` Result:"T","No MMS present to be received","F","0","","","","","0"

Note:Since No MMSs present in the system it didn't show the details of the section parameters.

## getMultipleIncomingMMS

This function receives multiple MMSs from the server. The parameters passed to the function are:

Parameter Type	Parameter Name	Description
String	username	The login name used to access the account.
String	password	The password used to access the account.
int	MaxNoOfMsgsToRetrieve	Maximum number of incoming MMSs to retrieve.

It returns an object with the following parameters.

Parameter Name	Description																								
CallSuccess	If the sender authentications are valid.																								
ErrorMessage	Error message if any occurred during authentication.																								
MessagePresent	If any MMS is present to be received.																								
MMSList	Count of MMS to be received.																								
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## getMultipleIncomingMMS\_String

This function is similar to the one above. The parameters passed to the function are:

Parameter Type	Parameter Name	Description
String	username	The login name used to access the account.
String	password	The password used to access the account.
int	MaxNoOfMsgsToRetrieve	Maximum number of incoming MMSs to retrieve.

It returns a String that is generated from the parameters of an object. The parameters and the string are as follows.

Parameter Name	Description																								
CallSuccess	If the sender authentications are valid.																								
ErrorMessage	Error message if any occurred during authentication.																								
MessagePresent	If any MMS is present to be received.																								
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Parameter Name	Description																								
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Eg getMultipleIncomingMMS Result:"T","No MMS present to be

received","F","0"

Note: Since No MMSs present in the system it didn't show the details of the section parameters.

## getSingleIncomingReceipt

This function receives a single incoming receipt from the server. The parameters passed to the function are:

Parameter Type	Parameter Name	Description
String	username	The login name used to access the account.
String	password	The password used to access the account.

It returns an object with the following parameters.

Parameter Name	Description
CallSuccess	If the sender authentications are valid.
ErrorMessage	Error message if any occurred during authentication.
ReceiptPresent	If atleast one receipt is present to be received.
InReceiptID	Server generated unique ID representing a receipt.
HandsetMSISDNwithCC	Phone number of the handset that posted the message.
OriginalSenderName	The name from whom the original message was sent.
InReceiptStatusID	The ID specifying the status of the message.
DoneDate	The date and time that the status was obtained.
OriginalOutMessageID	The unique server generated ID of the original message.
OriginalMessagePartNo	The part number of the original message.

## getSingleIncomingReceipt\_String

This function is similar to the one above. The parameters passed to the function are:

Parameter Type	Parameter Name	Description
String	username	The login name used to access the account.
String	password	The password used to access the account.

It returns a String that is generated from the parameters of an object. The parameters and the string are as follows.

Parameter Name	Description
CallSuccess	If the sender authentications are valid.
ErrorMessage	Error message if any occurred during authentication.
ReceiptPresent	If atleast one receipt is present to be received.
InReceiptID	Server generated unique ID representing a receipt.
HandsetMSISDNwithCC	Phone number of the handset that posted the message.
OriginalSenderName	The name from whom the original message was sent.
InReceiptStatusID	The ID specifying the status of the message.
DoneDate	The date and time that the status was obtained.
OriginalOutMessageID	The unique server generated ID of the original message.
OriginalMessagePartNo	The part number of the original message.

Eg `getSingleIncomingReceipt` Result:true,"1 Receipts present in response.", "T", "1292557", "97339689879", "HEXA", "2,2006-08-22 17:34:58", "3021966", "2"

## getMultipleIncomingReceipts

This function receives multiple incoming receipts from the server. The parameters passed to the function are:

Parameter Type	Parameter Name	Description
String	username	The login name used to access the account.
String	password	The password used to access the account.
int	MaxNoOfMsgsToRetrieve	Maximum number of incoming receipts to retrieve.

It returns an object with the following parameters.

Parameter Name	Description																
CallSuccess	If the sender authentications are valid.																
ErrorMessage	Error message if any occurred during authentication.																
ReceiptPresent	If any receipts are present to be received.																
ReceiptList	Count of receipts present to be received.																
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InReceiptStatusID	The ID specifying the status of the message.																
DoneDate	The date and time that the status was obtained.																
OriginalOutMessageID	The unique server generated ID of the original message.																
OriginalMessagePartNo	The part number of the original message.																

## getMultipleIncomingReceipts\_String

This function is similar to the one above. The parameters passed to the function are:

Parameter Type	Parameter Name	Description
String	username	The login name used to access the account.
String	password	The password used to access the account.
int	MaxNoOfMsgsToRetrieve	Maximum number of incoming receipts to retrieve.

It returns a String that is generated from the parameters of an object. The parameters and the string are as follows.

Parameter Name	Description																
CallSuccess	If the sender authentications are valid.																
ErrorMessage	Error message if any occurred during authentication.																
ReceiptPresent	If any receipts are present to be received.																
ReceiptList	Count of receipts present to be received.																
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InReceiptStatusID	The ID specifying the status of the message.																
DoneDate	The date and time that the status was obtained.																
OriginalOutMessageID	The unique server generated ID of the original message.																
OriginalMessagePartNo	The part number of the original message.																

Eg getMultipleIncomingReceipt Result:"T","2 Receipts present in response.,"T","2",  
 "1292550","9656044194","HEXA","2","22-08-2006 17:28:39","3021964","1",  
 "1292555","97339689879","HEXA","2","22-08-2006 17:34:42","3021965","3"

## getSentMessageStatus

This function receives a sent message status from the server. The parameters passed to the function are:

Parameter Type	Parameter Name	Description
String	username	The login name used to access the account.
String	password	The password used to access the account.
int	OutMessageID	The ID of the message whose status is queried.

It returns an object with the following parameters.

Parameter Name	Description
CallSuccess	If the sender authentications are valid.
ErrorMessage	Error message if any during authentication.
OutMessageStatusID	Server generated unique ID representing an message successfully posted to the server.
SentDate	The date and time the message was originally posted.
DoneDate	The date and time the message was actually sent.

## getSentMessageStatus\_String

This function is similar to the one above. The parameters passed to the function are:

Parameter Type	Parameter Name	Description
String	username	The login name used to access the account.
String	password	The password used to access the account.
int	OutMessageID	The ID of the message whose status is queried.

It returns a String that is generated from the parameters of an object. The parameters and the string are as follows.

Parameter Name	Description
CallSuccess	If the sender authentications are valid.
ErrorMessage	Error message if any during authentication.
OutMessageStatusID	Server generated unique ID representing an message successfully posted to the server.
SentDate	The date and time the message was originally posted.
DoneDate	The date and time the message was actually sent.

Eg `getSentMessageStatus` Result: "T", "", "4", "2007-09-06 13:50:59", "1970-01-01 04:00:00"