



Gateway Web Service Specification Document

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1 Introduction

Cellfind has developed a Web service for submitting and retrieving SMS messages to and from the Cellfind Messaging Gateway. This document will show and describe the core functionality that is available for use. The Web service can be accessed directly on any SOAP enabled programming language. Microsoft.NET C# was used for the example code.

The Web service can be accessed from:

- <https://www.cellportal.co.za/gatewaywebservice/Service.asmx>
- WSDL Definition
<https://www.cellportal.co.za/gatewaywebservice/Service.asmx?WSDL>

2 Web Service Public methods overview

2.1 LOGIN

Log the user into the system and get a session token back.

Code Snippet:

```
string sessionToken = _service.LogIn(userName, password);
```

Parameters:

- userName (string) : A valid username as supplied by CellFind / the system.
- password (string) : A valid password as supplied by CellFind / the system.

Returns : A session token string (SessionToken).

2.2 LOGOUT

Log the user out of the system and terminate the current session.

Code Snippet:

```
string sessionStatus = _service.LogOut(sessionToken);
```

Parameters:

- sessionToken (string) : A valid logged in sessionToken as generated by the Gateway web service

Returns : A session token string (SessionToken).

2.3 GETSESSIONSTATUS

Get the session status for a specific session.

Code Snippet:

```
string SessionStatus = _service.GetSessionStatus(sessionToken);
```

Parameters:

- sessionToken (string) : A valid logged in sessionToken as generated by the Gateway web service

Returns : A status string (SessionActive,SessionExpired,InvalidSessionToken)

2.4 BULKSMSFILEUPLOAD

Upload CSV files to the web server for bulk sms messages.

File example:

Recipient	Reference	Message
0828092776	Ref001	Message text for message No 1

Code Snippet:

```
String strFile = System.IO.Path.GetFileName("c:/ExampleFile.csv");  
FileStream fStream = new FileStream(filename, FileMode.Open, FileAccess.Read);  
BinaryReader br = new BinaryReader(fStream);  
byte[] fileData = br.ReadBytes((int)numBytes);  
br.Close();  
string result = _service.BulkSMSFileUpload(fileData, fileName, sessionToken);  
fStream.Close();  
fStream.Dispose();
```

Parameters:

- fileData : The byte array data for the file.
- fileName : The original filename that is being uploaded.
- sessionToken : A valid logged in sessionToken as generated by the Gateway web service

Returns : The status of the upload. (OK if successful)

2.5 BULKSMSFILEUPLOADSCHEDULED

Upload a CSV file to the web server for bulk sms messages that will be scheduled.

File example:

Recipient	Reference	Message
0828092776	Ref001	Message text for message No 1

Code Snippet:

```
String strFile = System.IO.Path.GetFileName("c:/ExampleFile.csv");  
FileStream fStream = new FileStream(filename, FileMode.Open, FileAccess.Read);  
BinaryReader br = new BinaryReader(fStream);  
byte[] data = br.ReadBytes((int)numBytes);  
br.Close();  
string sTmp = _service.BulkSMSFileUploadScheduled(data, strFile, sessionToken, ScheduledDateTime);  
fStream.Close();  
fStream.Dispose();
```

Parameters:

- fileData : The byte array data for the file.
-

- fileName : The original filename that is being uploaded.
- sessionToken : A valid logged in sessionToken as generated by the Gateway web service
- dateTime (DateTime) : A valid date/time value for the date/time that the message needs to be scheduled for.

Returns : The status of the upload. (OK if successful)

2.6 GETINCOMINGMESSAGEDETAILBYID

Get the detail for a specific incoming message by ID.

Code Snippet:

```
dataSet = _service.GetIncomingMessageDetailByID(sessionToken, messageId);
```

Parameters:

- sessionToken : A valid logged in sessionToken as generated by the Gateway web service.
- messageId : A valid message ID of a message that has been sent.

Returns : A dataset with the detail for the specific message. (Message_ID, Batch_ID, Priority_ID, Reference, Receive_Time, Schedule_Time, Process_Time, Recipient_No, Subject, Message, Protocol_ID, Status_ID, User_ID, Tag, Submit_Time, Sent_Time, Bill_Date, Network, Application, qid)

2.7 GETINCOMINGMESSAGEIDSBYUSERDATASET

Get a list of incoming SMS message IDs for a user - returns a dataset

Code Snippet:

```
dataSet = _service.GetIncomingMessageIDsByUserDataSet(txtToken.Text.ToString());
```

Parameters:

- sessionToken : A valid logged in sessionToken as generated by the Gateway web service.

Returns : A dataset with the message IDs (Reply_Message_ID).

2.8 GETINCOMINGMESSAGESBYSHORTCODE

Get a list of incoming SMS messages by short code

Code Snippet:

```
dataSet = _service.GetIncomingMessagesByShortCode(shortCode,sessionToken);
```

Parameters:

- shortCode : A valid short code number to get the received messages again.
 - sessionToken : A valid logged in sessionToken as generated by the Gateway web service.
-

Returns : A dataset with the incoming message detail (Reply_Message_ID, Destination_No, Message_ID, Message, Originator, Protocol_ID, Receive_Time, Reported, Report_Date, Network, Tag, User_ID, smsid).

2.9 GETINCOMINGMESSAGESBYUSER

Get a list of incoming SMS messages by user

Code Snippets:

```
string test = _service.GetIncomingMessagesByUser(sessionToken);
```

Parameters:

- sessionToken : A valid logged in sessionToken as generated by the Gateway web service.

Returns : A dataset with the incoming message detail (Reply_Message_ID, Destination_No, Message_ID, Message, Originator, Protocol_ID, Receive_Time, Reported, Report_Date, Network, Tag, User_ID, smsid).

2.10 GETINCOMINGMESSAGESBYUSERDATASET

Get a list of incoming SMS messages by user - returns a dataset

Code Snippet:

```
dataSet = _service.GetIncomingMessagesByUserDataSet(sessionToken);
```

Parameters:

- sessionToken : A valid logged in sessionToken as generated by the Gateway web service

Returns : A dataset with the incoming message detail (Reply_Message_ID, Destination_No, Message_ID, Message, Originator, Protocol_ID, Receive_Time, Reported, Report_Date, Network, Tag, User_ID, smsid).

2.11 GETINCOMINGMESSAGESFORDATERANGE

Get a list of incoming SMS messages by User for a date range - returns a dataset

Code Snippet:

```
System.Data.DataSet ds  
= _service.GetIncomingMessagesForDateRange(sessionToken, fromDate, toDate);
```

Parameters:

- sessionToken (string) : A valid logged in sessionToken as generated by the Gateway web service
 - fromDate (DateTime) : The start date for the report.
 - toDate (DateTime) : The end data for the report.
-

Returns : A dataset with the incoming message detail (Reply_Message_ID, Destination_No, Message_ID, Message, Originator, Protocol_ID, Receive_Time, Reported, Report_Date, Network, Tag, User_ID, smsid).

2.12 GETSENTSMSMESSAGEDETAILBYID

Get the detail for sent SMS messages by Message ID- returns a dataset

Code Snippet:

```
System.Data.DataSet ds = _service.GetSentSMSMessageDetailByID(sessionToken, messageId);
```

Parameters:

- sessionToken (string) : A valid logged in sessionToken as generated by the Gateway web service
- messageId (int) : A valid ID for the message that was submitted.

Returns : A dataset with the sent message detail (Message_ID, Batch_ID, Priority_ID, Reference, Receive_Time, Schedule_Time, Process_Time, Recipient_No, Subject, Message, Protocol_ID, Status_ID, User_ID, Tag, Submit_Time, Sent_Time, Bill_Date, Network, Application, qid).

Message Status :	1	received
	2	submitted
	4	sent
	5	failed
	3	queued
	8	delivered
	9	expired
	7	error
	6	retry
	11	exclusion
	12	invalid number

2.13 SCHEDULESMSMESSAGESSINGLE

Schedule a single SMS message using a session token.

Code Snippet:

```
int messageId = _service.ScheduleSMSMessageSingleST(sessionToken, recipient, message.dateTime);
```

Parameters:

- sessionToken (string) : A valid logged in sessionToken as generated by the Gateway web service
 - recipient (string) : Valid recipient for the message.
 - message (string) : The 160 character message to send to the recipient.
 - dateTime (DateTime) : A valid date/time value for the date/time that the message needs to be scheduled for.
-

Returns : The message ID of the newly created message (value).

2.14 SENDSMSMESSAGESINGLE

Send a single SMS message using a session token.

Code Snippet:

```
int MessageID = _service.SendSMSMessageSingleST(sessionToken, recipient,message);
```

Parameters:

- sessionToken (string) : A valid logged in sessionToken as generated by the Gateway web service
- recipient (string) : A valid recipient number.
- message (string) : The 160 character message to send to the recipient.

Returns: The message ID of the newly created message (value).

2.15 SENDWAPPUSHSINGLE

Send a single WAP message using a session token.

Code Snippet:

```
int MessageID = _service. SendWAPPushSingle (sessionToken, recipient,message);
```

Parameters:

- sessionToken (string) : A valid logged in sessionToken as generated by the Gateway web service
- recipient (string) : A valid recipient number.
- message (string) : The WAP message to send to the recipient.

Returns: The message ID of the newly created message (value).

3 Possible Error Codes returned from the Web Service

Error	Error Code	Description
NotValidToken	-99	Not a valid token.
InsertError	-88	Failed to insert the data.
SelectError	-55	Failed to return valid data.
UserDoesNotExist	-33	The user does not exist.
UpdateError	-22	Failed to update the detail.
NotCellFAdmin	-11	Not a CellFind administrator.
NotAccountAdmin	-7	Not a valid account administrator.
ExclusionExists	-4	The added exclusion exists.
Success	-1	Successfully updated/inserted data.

4 Available Gateway Web Service Functions

- **BULKSMSFILEUPLOAD**
Upload a CSV file for bulk sms messages
 - **BulkSMSFileUploadScheduled**
Upload a CSV file for bulk sms messages that get scheduled
 - **GetIncomingMessageDetailByID**
Get the detail for a specific incoming message by ID.
 - **GetIncomingMessageIDsByUserDataSet**
Get a list of incoming SMS message IDs for a user - returns a dataset
 - **GetIncomingMessagesByShortCode**
Get a list of incoming SMS messages by short code
 - **GetIncomingMessagesByUser**
Get a list of incoming SMS messages by user
 - **GetIncomingMessagesByUserDataSet**
Get a list of incoming SMS messages by user - returns a dataset
 - **GetIncomingMessagesForDateRange**
Get a list of incoming SMS messages by User for a date range - returns a dataset
 - **GetSentSMSMessageDetailByID**
Get the detail for sent SMS messages by Message ID- returns a dataset
 - **GetSessionStatus**
Get the session status for a specific session.
 - **LoadCustomerDetail**
Load the Customer detail by ID.
 - **LoadUserProfile**
Load the logged in user's profile.
 - **LoadUserProfileRights**
Load the logged in user's rights.
 - **LoadUserProfileServices**
Load the logged in user's account services.
 - **Login**
Log the user into the system and get a session token back.
 - **LogOut**
Log the user out of the system and terminate the current session.
 - **ScheduleSMSMessageSingleST**
Schedule a single SMS message using a session token.
 - **ScheduleSMSMessageSingleUP**
Schedule a single SMS message using a username and password.
 - **SendSMSMessageSingleST**
Send a single SMS message using a session token.
 - **SendSMSMessageSingleUP**
Send a single SMS message using a username and password.
-