



**API Specifications**  
**Version 4.2**  
**28 July 2017**

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## 1 Overview

This document is a guide to implement SMS for your web/stand-alone applications. This document will provide the different methods that are available, the parameters to be passed and the formatting of the message details.

This document is intended for those users who wish to develop applications that make use of Precise Communications SMS Gateway.

Before proceeding with the implementation it is advised that you first create an account with [sms.tobeprecise.com](http://sms.tobeprecise.com) and get free credits or buy SMS credits for testing.

For any further support reach us at [support@tobeprecise.com](mailto:support@tobeprecise.com)

## 2 API Commands

Some of the API commands that can be used for sending messages and to retrieve details are explained in this section. In all of the methods, the system will require you to provide a user name and password for authentication purpose.

### 2.1 Sending a message

This method allows you to submit any type of message English/Arabic message to the SMS gateway and to any number of mobiles. One can send to multiple destinations by delimiting the destination address (numbers) with commas. Example below will show the basic commands used and details of parameters are given in the table.

All the data should be submitted to the URL as listed below:

API URL: <http://api.tobeprecisesms.com/HttpReceiver.svc>

Protocols Supported: HTTP POST, SOAP 1.1

#### 2.1.1 Submitting a message to 1 or more numbers

**Method name:** SubmitSms

Http URL: <http://api.tobeprecisesms.com/HttpReceiver.svc/Http/SubmitSms>

**Input Parameters:**

Parameter name	Parameter type
UserName	String
Password	String
SenderName	String
MobileNos	String (Comma-separated)
Message	String
ReportRequired	Boolean (True/False)
CallbackQueryString	String

**Output:**

OK#Mobile Number1#Credit Used#Return Value1#Reference number#Credit Balance  
 ERR#Mobile Number2#Credit Used#Error Code2  
 ....  
 OK#Mobile Numbern#Credit Used#Return Valuen#Reference number#Credit Balance

- OR -

ERR#Error Code#Error description, if available

In multiple mobile number submissions, each of the return values (if there was no error in general) will be provided in separate lines. All the parameters returned will be the same in size and count.

- More details on parameter can be found in Appendix A
- Details of the Error codes and Return values are explained in Appendix B.
- Details on how to add the API reference to your visual studio project are explained in Appendix C.

**2.1.1.1 Submitting a message to 1 or more numbers with Priority**

**Method name: SubmitSmsPrioritized**

Http URL: <http://api.tobeprecisesms.com/HttpReceiver.svc/Http/SubmitSmsPrioritized>

**Input Parameters:**

Parameter name	Parameter type
UserName	String
Password	String
SenderName	String
MobileNos	String (Comma-separated)
Message	String
ReportRequired	Boolean (True/False)
CallbackQueryString	String
Priority	Byte (1-3) – Default 2

**Output:**

OK#Mobile Number1#Credit Used#Return Value1#Reference number#Credit Balance  
 ERR#Mobile Number2#Credit Used#Error Code2  
 ....  
 OK#Mobile Numbern#Credit Used#Return Valuen#Reference number#Credit Balance

- OR -

ERR#Error Code#Error description, if available

### 2.1.2 Submitting a message to many numbers as a batch

**Method name:** SubmitBulk

Http URL: <http://api.tobeprecisesms.com/HttpReceiver.svc/Http/SubmitBulk>

**Input Parameters:**

Parameter name	Parameter type
UserName	String
Password	String
SenderName	String
MobileNos	Byte[] (File bytes)
Message	String
DateToStart	DateTime
ReportRequired	Boolean (True/False)
CallbackQueryString	String

The MobileNos text file should contain 1 numbers in each line, which should be read into a byte array & submitted as a parameter to the method.

**Output:**

OK#Return Value#Bulk Reference number

- OR -

ERR#Error Code#Error description, if available

### 2.1.3 Submitting different message to more than 1 number as a batch

**Method name:** SubmitCustom

Http URL: <http://api.tobeprecisesms.com/HttpReceiver.svc/Http/SubmitCustom>

**Input Parameters:**

Parameter name	Parameter type
UserName	String
Password	String
SenderName	String
MobileNosAndMessages	Byte[] (File bytes)
DateToStart	DateTime
ReportRequired	Boolean (True/False)
CallbackQueryString	String

The MobileNosAndMessages text file should contain 1 number and its corresponding message (separated with TAB) in each line, which should be read into a byte array & submitted as a parameter to the method.

**Output:**

OK#Return Value#Bulk Reference number

- OR -

ERR#Error Code#Error description, if available

**2.1.3.1 Submitting different message to more than 1 number as a batch and getting response for each submitted number**

**Method name: SubmitCustomWithResponse**

Http URL: <http://api.tobeprecisesms.com/HttpReceiver.svc/Http/SubmitCustomWithResponse>

**Input Parameters:**

Parameter name	Parameter type
UserName	String
Password	String
SenderName	String
MobileNosAndMessages	Byte[] (File bytes)
DateToStart	DateTime
ReportRequired	Boolean (True/False)
CallbackQueryString	String

The MobileNosAndMessages text file should contain 1 number and its corresponding message (separated with TAB) in each line, which should be read into a byte array & submitted as a parameter to the method.

**Output:**

OK#Return Value#Bulk Reference number

OK#Mobile Number1#Credit Used#Return Value1#Reference number#Credit Balance

ERR#Mobile Number1#Credit Used#Error Code2

....

OK#Mobile Numbern#Credit Used#Return Valuen#Reference number#Credit Balance

- OR -

ERR#Error Code#Error description, if available

## 2.2 Retrieving Account Balance

This method helps to retrieve the current balance in your sms.toBePrecise.com account. If connected successfully and if the account is valid, it will return the Current balance, Total Used credits so far, and the credit expiry date. Following are the parameters for this method.

All the data should be submitted to the URL as listed below:

API URL: <http://sms.tobeprecise.com/webservices/HttpReceiver.asmx>  
Protocols Supported: HTTP GET, HTTP POST, SOAP 1.1

**Method name: GetBalance**

Http URL: <http://sms.tobeprecise.com/webservices/HttpReceiver.asmx/GetBalance>

**Input Parameters:**

Parameter name	Parameter type
UserName	String
Password	String

**Output:**

Following are the possible return values for any type of request.

OK#User Ref No#Used Credits#Current Balance#Overdraft Limit#Credit Expiry

- OR -

ERR#Error code#Error message, if any

## 3. Contact Us

Web: [tobeprecisesms.com](http://tobeprecisesms.com)

Email: [support@tobeprecise.com](mailto:support@tobeprecise.com)

## Appendix A – Method Parameters

Parameter	Definition	Notes
UserName	Your ToBePrecise Account Name	-
Password	Corresponding password for the account.	-
SenderName	Source address – sender name or number.	Alphanumeric – Max of 11 characters. Allowed characters are A-Z, a-z, 0-9, -, and BLANK
MobileNos	Mobile numbers separated by comma.	In International format without leading Zeroes. Max allowed numbers at a time is 100.
Message	The Message to be submitted to the mobile numbers provided.	-
ReportRequired	Whether delivery report is required or not.	True/False
CallbackQueryString	The Query string which will be appended with the URL which will be called to update the status of the message. If using this option the URL needs to be set by the Precise team, which will be from Account level.	URL Encoded Value.
Priority	Allows classifying the priority of the message. This option is allowed only if the user has the privilege to change the priority	Value should be between 1 & 3
MobileNos (byte array)	Byte array of the text files This parameter type is used with SubmitBulk method	Array of bytes
MobileNosAndMessages (byte array)	Byte array of the text files This parameter type is used with SubmitCustom and SubmitCustomWithResponse methods	Array of bytes
DateToStart	The time at which the bulk/custom broadcast has to start. If any time specified less than the current time, then the system will automatically take the current time.	Datetime



## Appendix B – Return values & Error codes

Code	Description
000	OK - Submitted to gateway
001	Invalid mobile number
002	Network not supported
003	Message length exceeded
004	Invalid sender name
005	Invalid message type
006	Not allowed to route to this network
007	Multiple credit message not enabled
008	Invalid delay minutes
009	Sender name not allowed
010	Allowed destination limit exceeded
011	Mobile number not specified
012	Message not specified
013	Empty or corrupt file
014	Use bulk submission method to push more than 100 numbers
015	No valid / routable number found
016	No valid message found (used in custom submission)
101	Gateway currently disabled
102	Network currently disabled
200	Invalid login id and/or password
201	No credit available
202	Account has been disabled
203	Account registration is not complete
204	Cannot use bulk SMS
205	SMS purchase not done so far
206	Insufficient credits
255	Submission failed to operator
301	Invalid connection used
302	Not allowed to connect from this IP
303	Not allowed to connect to this IP
401	Message contains filter words
501	Unsubscribed Number
1000	System error – not able to connect to gateway
1001	System error – not able to connect to database
1002	Network settings not configured for the account
1003	System error
1004	System error while connecting to Operator
1005	Error with submission
9999	Unknown error

## Appendix C – Adding API reference to Visual Studio (C#)

You can implement Tobeprecise API operations directly in .Net. This section describes how to get started when using C# as the implementation language.

To add a web reference:

1. For <http://api.tobeprecisesms.com/HttpReceiver.svc>
  - a. From the Project menu, select Add Service Reference. A dialog box opens.
  - b. Enter the URL (as shown above) in the Address box.
  - c. Click Go
  - d. Enter a name in the Namespace box
  - e. Click OK
2. For <http://sms.tobeprecise.com/webservices/HttpReceiver.asmx>
  - a. From the Project menu, select Add Service Reference. A dialog box opens.
  - b. Click Advanced...
  - c. Click Add Web Reference...
  - d. Enter the URL (as shown above) in the URL box.
  - e. Click Go
  - f. Enter a name in the Web reference name box
  - g. Click Add Reference