WiSys Mobile Messaging

API Specification for SMS Service

Web Services API

Version 1.0

Overview

This document describes the programming methods and commands to be used by developers when using the WiSys Web Services API to access the WiSys Mobile Messaging SMS service.

WiSys allows applications and systems to gain access to the SMS Mobile Messaging gateway in via a number of different application programming interfaces (APIs). These include:

- **SMTP** – used for Email to SMS
- **HTTP/S** - POST and GET calls to the gateway server
- **Web Service SOAP and XML** – submit SOAP packets over HTTP/S
- **SMPP** – used where a high throughput binary socket connection is required
- **FTP** – used for batch upload of destination phone numbers and message text
- **Web Console** – a browser based graphical user interface (GUI) used to allow users to create and send messages to single or multiple destinations and to view MIS reports and receive incoming (Mobile Originating) SMS messages.

Additional API's are available subject to design customisation, including UCP and text to voice etc.

This specification focuses on the WISYS Web Services SOAP and XML which allows access to the API Hypertext Transfer Protocol (HTTP) or its more secure equivalent HTTPS. It allows methods on the WISYS Mobile Messaging platform to be implemented from remote customer systems and applications.

XML (Extensible Markup Language) allows developers and designers to create their own tags using a basic, standardised syntax that allows the creation of customer markup language code that can be used across multiple platforms without having to pass layers of management data.

Introduction

The Web Service SOAP & XML API is often the simplest way of communicating with the WISYS Mobile Messaging SMS service gateway and is recommended in most scenarios. It can be used either in the form of a HTTP POST, or as a HTTP URL GET. Due to size limitations of the GET function, it is normally recommended that HTTP POST is used.

Accessing the API Service

In order to use this API, the service needs to be activated by contacting the Support Desk (support@wisys.co.uk). This will ensure that the correct authentication credentials are provided.

For the access URL, please contact the Support Desk.

Information on the services available via this API (except authentication details which are provided by the helpdesk, usually via email) can also be obtained by visiting this link.

Web Service XML API

XML is often regarded as the simplest way for two application services to communicate with each other and is therefore the most common and approach. The service can be accessed by issuing either an HTTP `POST` or a `URL(GET)`.

We recommend the use of `POST` for larger data transfers in particular due to the size limitations of the `GET` function.

Communication to the API is established via `HTTP` on port 80 or `HTTPS` on port 443.

All calls to the API must be URL-encoded.

All parameter names are case sensitive.

Please read the entire document before contacting the Support Desk with any queries.

Basic XML Structure

Root Tag: `clickAPI`

This tag must surround all your other APU calls with each post.

```
<clickAPI>your data…</clickAPI>
```

Calls are case sensitive.

Use the variable name '`data`' as per the following example:

```
<input name="data" type="text"
value="<clickAPI>$your_xml_data</clickAPI>
```

Overview of Methods

There are four basic methods that can be invoked using the Web Service API:

Method	Description
SendSMS	Used to send individual SMS messages to the service for instant onward delivery.
SendMultiSMS	User to send multiple SMS messages to the service for onward delivery.
GetStatus	Used to query the status of a particular message based on the `messageID`.
GetInboundSMS	Used to extract information about inbound messages (Mobile Originating) sent to the service from mobile handsets.

SendSMS Method

This method can be used to request the sending of individual SMS messages to the SMS Gateway.

Note that the destination phone number should be in the recommended format of INTERNATIAONAL_DIALING_CODE followed by MOBILE_NUMBER without spaces or the leading ZERO on the mobile number. For example, to send a message to the UK mobile 07710 123456, the toNumber parameter would be 447710302634.

Any number without a valid country code could result in the message delivery attempt being to the UK networks only.

Paramters

```
usr: The username of the user

pwd: The password of the user

toNumber: The SMS destination number

messageContent: The content of the message to be sent
```

Sample SOAP Request

```
<?xml version="1.0" encoding="utf-8"?>

<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance"

xmlns:xsd="http://www.w3.org/2001/XMLSchema"

xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">

  <soap:Body>

    <SendSMS xmlns="http://tempuri.org/">

      <usr>string</usr>

      <pwd>string</pwd>

      <toNumber>string</toNumber>

      <messageContent>string</messageContent>

    </SendSMS>

  </soap:Body>

</soap:Envelope>
```

XML Diagram

For programmers familiar with XML, the following diagram explains the XML structures for this method.

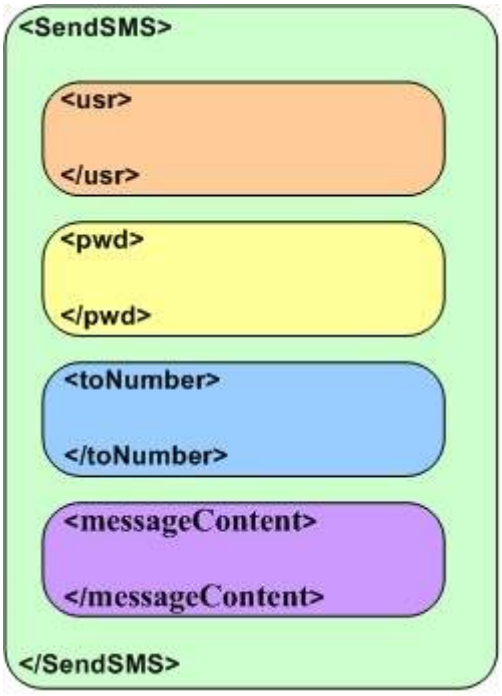

Figure 1 : XML Structure for SendSMS Method

SendMultipleSMS

This method allows a request to be submitted to the service to send multiple SMS messages to the SMS Gateway for onward delivery.

Parameters

usr: username, necessary for authentication

pwd: password

toNumber: destination mobile number

messageContent: content of the SMS message

Sample SOAP request:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <SendSMS xmlns="http://tempuri.org/">
      <usr>string</usr>
      <pwd>string</pwd>
      <SmsMessage>
      <toNumber>string</toNumber>
      <messageContent>string</messageContent>
```

```
        </SmsMessage>
        <SmsMessage>
        <toNumber>string</toNumber>
        <messageContent>string</messageContent>
        </SmsMessage>
        <SmsMessage>
        <toNumber>string</toNumber>
        <messageContent>string</messageContent>
        </SmsMessage>
      </SendSMS>
    </soap:Body>
  </soap:Envelope>
```

XML Diagram

The following diagram explains the XML structures for this method.

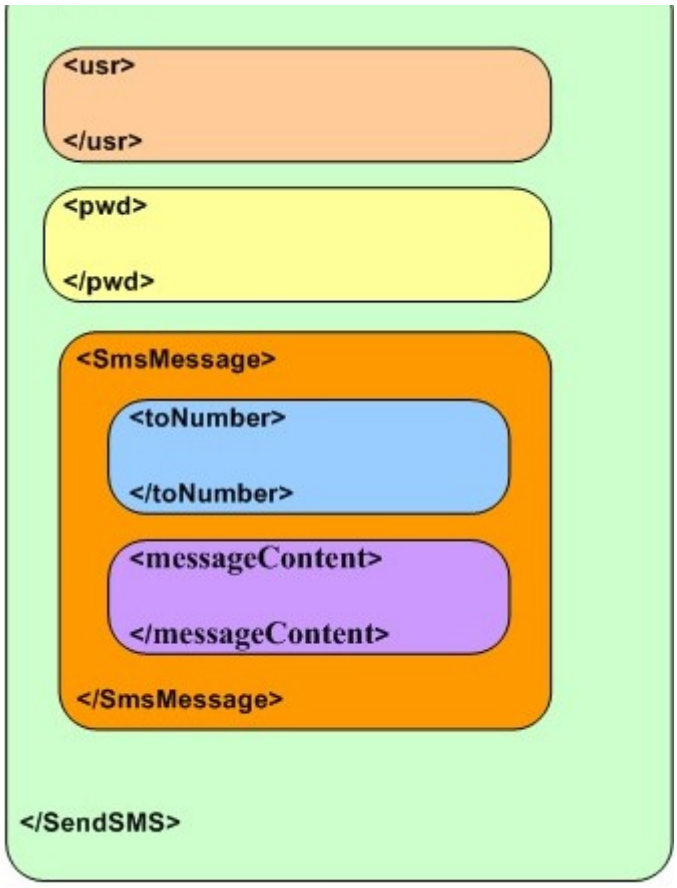

Figure 2 : XML Structure Diagram for sendMultipleSMS Method

Authentication

The authentication for all method calls is implemented by providing a username and password combination. For testing purposes, the following credentials can be used:

URL: Contact Support Desk

URL (HTTPS): Contact Support Desk

Username (usr): Contact Support Desk

Password (pwd): Contact Support Desk

However, it is recommended that if you wish to use this API for any significant testing, or in a live environment, you contact the helpdesk to request your own credentials.