

# 50KOBO RapidSMS Smart Messaging System

## HTTP Application Programming Interface

| <b>Date of revision</b>     | <b>Author</b> | <b>Description</b>                        |
|-----------------------------|---------------|---|
| 24 <sup>th</sup> Sept, 2009 | Segun Fodeke  | Added: Get credit balance                 |
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## 0. Introduction

50kobo RapidSMS system offers various methods to send SMS messages. This document contains specifications for the following methods:

- Send messages using HTTP XML POST
- Send messages using HTTP GET

## 1. HTTP XML POST

The URL used to post XML formatted data is:

<http://www.50kobo.com/tools/xml/Sms.php>

Duplicate numbers in any single post request will be filtered in the 50kobo system so that the message is delivered only once to each recipient.

The options for posting XML data to this URL vary depending on socket options for the

### 1.1. XML Format

The XML string must be formatted as valid XML. There are two ways of sending XML request strings:

- Without unique delivery report
- With unique delivery report

### 1.1.1. XML Without Unique delivery report

```
<SMS>
  <authentication>
    <username></username>
    <password></password>
  </authentication>
  <message>
    <sender></sender>
    <text></text>
    <flash></flash>
    <sendtime></sendtime>
    <listname></listname>
  </message>
  <recipients>
    <gsm></gsm>
    <gsm></gsm>
    <gsm></gsm>
  </recipients>
</SMS>
```

Fields in blue are optional as a default value can be assumed.

Messages that are sent using the “without unique delivery report” method will not be able to receive XML delivery reports for individual numbers in a batch. We will explain how to retrieve delivery reports later on in this document.

The listname field must contain the name of a list of numbers that has previously been uploaded to your account. When using the listname field, there will be no individual delivery reports for numbers in the pre-uploaded list, as they cannot have a message id.

## 1.1.2. XML With Unique delivery report

```
<SMS>

    <authentication>
        <username></username>
        <password></password>
    </authentication>
    <message>
        <sender></sender>
        <msgtext></msgtext>
        <flash></flash>
        <sendtime></sendtime>
        <listname></listname>
    </message>
    <recipients>
        <gsm messageId="userGenId1"></gsm>
        <gsm messageId="userGenId2"></gsm>
        <gsm messageId="userGenId3"></gsm>
    </recipients>
</SMS>
```

**Fields in blue are optional as a default value can be assumed.**

Sending messages using the "with Unique Delivery report" format makes it possible for you to know the delivery status of a message sent to any number without having to login to your account on our server.

You will need to generate a unique id for each number in every batch of SMS you send.

## 1.2. XML Parameters Specification

|                |                            |  |
|----------------|----------------------------|--|
| Authentication | username                   | Client's username used for login on 50kobo System  |
|                | password                   | Client's password used for login on 50kobo System  |
| Message        | sender                     | Dynamic sender name. Maximum 11 characters for alphanumeric sender ID and 14 for numeric.  |
|                | msgtext                    | The content of the text message.   |
|                | flash                      | Either 1 or 2.<br>1 – normal SMS<br>2 – flash SMS  |
|                | sendtime                   | Optionally specify the desired delivery date/time<br>Format: yyyy-mm-dd hh:mm  |
|                | listname                   | Optional - specify the name of a contact list saved in 50kobo system.<br><br>Leave it blank so no list will be used.<br><br>Enter "0" and all contacts saved your 50kobo account will be included as part of the recipients. |
| Recipients     | gsm                        | Internationally formatted recipient without leading '0' or '+', For example: 2347033001122   |
|                | gsm messageId="userGenId3" | Unique delivery report; client generates a unique messageId for each recipient, that will be used to collect delivery reports.   |

### 1.3. Return XML Response

After making a POST XML request from the client, an XML response will be returned immediately.

The return XML string will be in the format:

```
<RESPONSE>  
  <status>status_code</status>  
</RESPONSE>
```

This is to tell if your XML data got to our server successfully or not.

Status codes:

| Status              | Code | Description                               |
|---------------------|------|---|
| INVALID XML         | -1   | Incorrect / badly formed XML data         |
| AUTH FAILED         | -2   | Incorrect username and/or password        |
| INSUFFICIENT CREDIT | -3   | Not enough credit units in user account   |
| INVALID SENDER      | -4   | Invalid sender name                       |
| INVALID RECIPIENTS  | -5   | No valid recipient                        |
| EMPTY MESSAGE       | -6   | Invalid message length/No message content |
| UNKNOWN ERROR       | -10  | Unknown/Unspecified error                 |
| SEND OK             | 100  | Send successful                           |

## 2. HTTP GET

Used for non-xml requests, that involves issuing a get request to the following URL using these parameters:

<http://www.50kobo.com/tools/geturl/Sms.php?username=abc&password=xyz&sender=you&message=your message&flash=0&sendtime=2009-10-18%2006:30&listname=friends&recipients=2348019900323>

The parameters are similar to those of the xml post with the only requirement being the need to encode the URL as a valid URL, as well as ensure that html entities e.g. '&' are correctly encoded as well.

### 2.1. GET Parameters Specification:

|                   |   |
|-------------------|---|
| <b>username</b>   | Client's username used for login on 50kobo System   |
| <b>password</b>   | Client's password used for login on 50kobo System   |
| <b>sender</b>     | Dynamic sender name. Maximum 11 characters for alphanumeric sender ID and 14 for numeric.               |
| <b>message</b>    | The content of the text message.  |
| <b>flash</b>      | Either 1 or 2.<br>1 – normal SMS<br>2 – flash SMS that will be displayed on recipient's screen directly |
| <b>sendtime</b>   | Optionally specify the desired delivery date/time<br>Format: yyyy-mm-dd hh:mm e.g. 2009-12-31 23:59     |
| <b>listname</b>   | Optional - specify the name of a contact list saved on 50kobo system.                                   |
| <b>recipients</b> | Internationally formatted recipient without leading '0' or '+', For example: 2347033001122              |

## 2.2. Additional HTTP GET Commands

Use the following URL to obtain your account balance at any time.

[http://www.50kobo.com/tools/command.php?username=your\\_username&password=your\\_password](http://www.50kobo.com/tools/command.php?username=your_username&password=your_password)

### Parameters

username – The username (email) you use to login to your account

password – Your account password

| Status            | Code | Description                        |
|-------------------|------|------------------------------------|
| AUTH_FAILED       | 1    | Incorrect username and/or password |
| ACCOUNT_SUSPENDED | 2    | The account has been suspended     |
| BAD_REQUEST       | 3    | Invalid request data               |
| UNKNOWN_ERROR     | 4    | Rarely used – unknown error        |

## 2.3. Return Status Codes

After making a GET request, a status code will be returned immediately.

This is to tell if your request was received by our server successfully.

Status codes:

| Status              | Code | Description                               |
|---------------------|------|---|
| INVALID URL         | -1   | Incorrect / badly formed XML data         |
| AUTH FAILED         | -2   | Incorrect username and/or password        |
| INSUFFICIENT CREDIT | -3   | Not enough credit units in user account   |
| INVALID SENDER      | -4   | Invalid sender name                       |
| INVALID RECIPIENTS  | -5   | No valid recipient                        |
| EMPTY MESSAGE       | -6   | Invalid message length/No message content |
| UNKNOWN ERROR       | -10  | Unknown/Unspecified error                 |
| SEND OK             | 100  | Send successful                           |

### 3. COLLECTING DELIVERY REPORTS

Delivery reports will be available after sending messages until collected.

In order to get delivery reports, you need to issue a get request to the following URL:

For messages sent using HTTP GET use:

<http://www.50kobo.com/tools/getdr.php?username=abc&password=xyz>

For messages sent using XML POST use:

<http://www.50kobo.com/tools/getdr.php?username=abc&password=xyz&msgids=NA78121,NA78122,7812...>

#### 3.1. Delivery Report Parameters:

|                 |   |
|-----------------|---|
| <b>username</b> | Client's username used for login on the 50kobo System   |
| <b>password</b> | Client's password used for login on the 50kobo System   |
| <b>msgids</b>   | You can specify up to 100 message ids which you must have included if sending SMS with the XML Post method. Each message id must be separated only by a comma (,) |

#### 3.2. Return XML

The returned XML for this request will be in the following format:

```
<DELIVERYREPORT>  
  <message id="clientGenId1">status_code</message>  
</DELIVERYREPORT>
```

Where "clientGenId1" is the message id that was included when the message was sent, and status\_code is the delivery status of the message.

Status codes:

| Status code          | Description   |
|----------------------|---|
| -1                   | Invalid username and/or password                                |
| SENT                 | Message sent over a route that does not support delivery report |
| DELIVERED            | Message sent and delivered to the recipient successfully        |
| NOT_DELIVERED        | Message was not delivered                                       |
| INSUFFICIENT_CREDIT  | Your account credit is not sufficient to send the message       |
| RESPONSE_UNAVAILABLE | Not yet received a response from the recipient                  |