

Bongo Live SMS API v1.4

Revision History:

v 1.1 - Initial Release.

v1.2 – 19/6/2013 - Added Balance check and Sender Name Check

v1.3 – 15/10/2013 – Added incoming sms specifications

v1.4 – 13/05/2014 – Added API sms scheduling specifications. Updated error codes & sample php code

The Bongo Live API has been developed to ensure a simple interface for developers whilst providing flexibility in terms of implementation. There are two connection options either an HTTP GET or a XML POST. The XML post provides additional features to send the same message to up to 100 mobile numbers at the same time. It also allows a delivery status to be returned to the calling system once it becomes available.

Steps to Get Started

1. Create a free 'Broadcaster' account on www.bongolive.co.tz
2. On completing your registration you will get a confirmation email. Click on the link or paste the link into your browser to validate the account.
3. Log into your account with your username & password on www.bongolive.co.tz
4. Request credits for your account by visiting the 'Purchase SMS' tab. Follow the onscreen instructions to arrange for payment of the credits.
5. Click on the 'Broadcast SMS' then click on 'Manage Sender Names' to request any 'Sender Names' that you would like to use.
6. Visit the 'Profile' tab and get your API key.
7. Once you have credits in your account and you have an API key. You can start sending messages using the connection options and parameters defined below.

HTTP(S) GET

URL: <http://www.bongolive.co.tz/api/>

Example Script in PHP:

```
<?php

//=====REQUIRED INFORMATION =====

date_default_timezone_set('Africa/Nairobi');
$sendername = "Enter your sender name";
$username = "Enter your Bongolive username";
$password = "Enter your Bongolive Password";
$apikey = "Enter Key obtained from your Bongolive Account";
$mob="Enter destination mobile number with plus sign eg 255688121252";
$message = "Enter your message content here";

//=====END OF REQUIRED INFORMATION =====

//=====OPTIONAL REQUIREMENTS =====
$senddate = ""; //leave blank if you want an sms to be sent immediately or eg 31/03/2014 12:54:00 or
2014-03-31 12:54:00
$proxy_ip = ""; //leave blank if your network environment does not support proxy
$proxy_port = ""; //set your network port, leave black if your network environment does not support
proxy

//===== END OF OPTIONAL REQUIREMENT =====

//=====DO NOT EDIT ANYTHING BELOW =====

$sendername = urlencode($sendername);
$apiKey = urlencode($apikey);
$destnum = urlencode($mob);
$message = urlencode($message);

IF(!empty($senddate)){
$senddate = strtotime("2014-05-03 13:50:00");
}

$posturl =
"http://www.bongolive.co.tz/api/sendSMS.php?sendername=$sendername&username=$username&pas
sword=$password&apikey=$apiKey&destnum=$destnum&message=$message&senddate=$senddate";

$ch = curl_init();
curl_setopt($ch, CURLOPT_URL, $posturl);
curl_setopt($ch, CURLOPT_RETURNTRANSFER, 1);
curl_setopt($ch, CURLOPT_CONNECTTIMEOUT, 0);
curl_setopt($ch, CURLOPT_TIMEOUT, 500); //tim
```

```

if($proxy_ip != ""){
curl_setopt($ch, CURLOPT_PROXYPORT, $proxy_port);
curl_setopt($ch, CURLOPT_PROXYTYPE, 'HTTP');
curl_setopt($ch, CURLOPT_PROXY, $proxy_ip);
}

$response = curl_exec($ch);

//=====YOU CAN EDIT BELOW ===

echo $response;

?>

```

API Parameter	Description
User API Key	36 character key
Username	Bongo Live account username
Password	Bongo live account password
Sender Name (From)	<p>Either</p> <p>Alphanumeric Sender: max 11 characters</p> <p>Number: max 14 characters in GSM format (+(Countrycode)number)) (ex. +255784848484)</p> <p>Sender names must have been defined & active in your account before API call.</p>
Destination Mobile Number (To)	<p>Number: In international GSM format (+(Countrycode)number)) (ex. +255784848484)</p> <ul style="list-style-type: none"> • Minimum 11 digits (excl +) • Maximum 14 digits (excl +) • Currently only Tanzanian numbers can be served.
Message Text	<p>Text.</p> <ul style="list-style-type: none"> • Billed for multiple sms credits if greater than 160 characters. Each 160 characters = 1 sms credit. Characters must be in standard ASCII format.
Send Date/Time	If you would like to schedule your sms to be sent later, use this in the format 31/03/2014 12:54:00 or 2014-03-31 12:54:00. Leave blank if you want an sms to be sent immediately.
Proxy IP	The IP of the proxy server. Leave blank if your network environment does not support proxy
Proxy Port	The network port for your proxy server, leave blank if your network environment does not support proxy.

Response Value	Definition
-1	Invalid XML Format
-2	Not enough credits in account
-3	Invalid API key
-4	Destination Mobile number missing / Invalid format
-5	SMS text missing

-6	Sender name missing / invalid format / Not active in account
-7	Network Not Covered
-8	Error – Undefined
-9	Invalid message id, too long (max 36 chars) or contains non numeric character
-10	Maximum number of recipient in one single API call is 100
-11	Error – Undefined
-12	Message too long (max 480 characters)
-13	Invalid Username / Password
-14	Invalid send time
>0	Successful - Placed in queue for delivery 'Number = Count of Credits Used'

XML POST

The XML Post extends the functionality of the simple HTTP GET by providing two additional functionality. This provides users with the ability to send the same sms message to up to 100 destination mobile numbers in one call. Duplicate recipients will be filtered. Secondly a status for each message can be received based on a unique ID provided. Our system will post back a status to a URL provided for each destination number when a status is available.

URL: <http://www.bongolive.co.tz/api/broadcastSMS.php>

XML Format (with delivery report)

```
<Broadcast>
<Authentication>
  <Sendername>Bongo Live</Sendername>
  <Username>testaccount</Username>
  <Password>123456</Password>
  <Apikey> db4c5f44-de35-11df-a539-0024e85aac56</Apikey>
</Authentication>
<Message>
  <Content> Test Broadcast Message </Content>
  <Receivers>
    <Receiver id='\1234567890\'>+255655143432</Receiver>
    <Receiver id='\1234567891\'>+255688121232</Receiver>
    <Receiver id='\1234567892\'>+255767234343</Receiver>
  </Receivers>
  <Callbackurl><Url> http://www.yourdomain.com/sms/dlr.php</Url></Callbackurl>
</Message>
</Broadcast>
```

XML POST Sample PHP Code (with delivery report)

```
<?
define ("URL_API_DOMAIN", "http://www.bongolive.co.tz/api/broadcastSMS.php");

$sendername = "Bongo Live";
$username = "testaccount";
$password = "123456";
$apikey = "c4a12fa8-ed6f-11df-a1f1-00181236674f";
$callbackURL = "http://www.yourdomain.com/sms/dlr.php";

$messageXML = "<Broadcast>
  <Authentication>
    <Sendername>".$sendername."</Sendername>
```

```

    <Username>".$username."</Username>
    <Password>".$password."</Password>
    <Apikey>".$apikey."</Apikey>
  </Authentication>
  <Message>
    <Content>Test Message</Content>
    <Receivers>
      <Receiver id='7772237998'+255655123123</Receiver>
    </Receivers>
    <Callbackurl>".$callbackURL."</Callbackurl>
  </Message>
</Broadcast>";

```

```
$data = array('messageXML' => $messageXML);
```

```

$ch = curl_init();
curl_setopt($ch, CURLOPT_URL, URL_API_DOMAIN);
curl_setopt($ch, CURLOPT_RETURNTRANSFER, 1);
curl_setopt($ch, CURLOPT_TIMEOUT, 4);
curl_setopt($ch, CURLOPT_POST, 1);
curl_setopt($ch, CURLOPT_POSTFIELDS, $data);

```

```

$response = curl_exec($ch);
echo "response = $response ";
?>

```

XML Format (without delivery report)

```

<Broadcast>
  <Authentication>
    <Sendername>Bongo Live</Sendername>
    <Username>testaccount</Username>
    <Password>123456</Password>
    <Apikey> db4c5f44-de35-11df-a539-0024e85aac56</Apikey>
  </Authentication>
  <Message>
    <Content> Test Broadcast Message </Content>
    <Receivers>
      <Receiver>+255655143432</Receiver>
      <Receiver>+255688121232</Receiver>
      <Receiver>+255767234343</Receiver>
    </Receivers>
    <Callbackurl><Url> </Url></Callbackurl>

```

```
</Message>
</Broadcast>
```

XML POST Sample PHP Code (without delivery report)

```
<?
define ("URL_API_DOMAIN", "http://www.bongolive.co.tz/api/broadcastSMS.php");

$sendername = "Bongo Live";
$username = "testaccount";
$password = "123456";
$apikey = "c4a12fa8-ed6f-11df-a1f1-00181236674f";

$messageXML = "<Broadcast>
  <Authentication>
    <Sendername>".$sendername."</Sendername>
    <Username>".$username."</Username>
    <Password>".$password."</Password>
    <Apikey>".$apikey."</Apikey>
  </Authentication>
  <Message>
    <Content>Test Message</Content>
    <Receivers>
      <Receiver>+255655123123</Receiver>
    </Receivers>
    <Callbackurl> </Callbackurl>
  </Message>
</Broadcast>";

$data = array('messageXML' => $messageXML);

$ch = curl_init();
curl_setopt($ch, CURLOPT_URL, URL_API_DOMAIN);
curl_setopt($ch, CURLOPT_RETURNTRANSFER, 1);
curl_setopt($ch, CURLOPT_TIMEOUT, 4);
curl_setopt($ch, CURLOPT_POST, 1);
curl_setopt($ch, CURLOPT_POSTFIELDS, $data);

$response = curl_exec($ch);
echo "response = $response ";
?>
```

API Parameter	Description
User API Key	36 character key
Username	Bongo Live account username
Password	Bongo live account password
Sender Name (From)	<p>Either</p> <p>Alphanumeric Sender: max 11 characters</p> <p>Number: max 14 characters in GSM format (+(Countrycode)number)) (ex. +255784848484)</p> <p>Sender names must have been defined & active in your account before API call.</p>
Destination Mobile Number(s)	<p>Number: In international GSM format (+(Countrycode)number)) (ex. +255784848484)</p> <ul style="list-style-type: none"> • Minimum 11 digits (excl +) • Maximum 14 digits (excl +) • Currently only Tanzanian numbers can be served. • Maximum 100 numbers can be sent in one API call
Message Text	Billed for multiple sms credits if greater than 160 characters. Each 160 characters = 1 sms credit. Characters must be in standard ASCII format.
Callback URL	URL to push delivery status of each message. If left blank system will retrieve from vendor profile if previously sent.
ID	Unique numeric ID for each destination mobile number. Leave blank if callback not required.

XML POST Response

XML Format:

This is the format of the response XML for messages successfully placed into the queue.

```
<RESPONSE>
<code>3</code>
<message> Successful - Placed in queue for delivery</message>
</RESPONSE>
```

This is the format of the response XML for failed messages.

```
<RESPONSE>
<code>-1</code>
<message>XML Format invalid</message>
</RESPONSE>
```

Response Values:

Status Value	Definition
-1	XML Format invalid
-2	Not enough credits in account
-3	Invalid API key
-4	Destination Mobile number missing / Invalid format
-5	SMS text missing
-6	Sender name missing / invalid format / Not active in account
-7	Network not covered
-8	Error - Undefined
-9	Invalid Message ID, too long(max 10 chars) or contains non-numeric character
-10	Maximum number of recipient in one single API call is 100
-11	Error - Undefined
-12	Error - Undefined
-13	Invalid Username / Password
>0	Successful - Placed in queue for delivery 'Number = Count of Credits Used'

Sample PHP Code:

```
<?
$xml = new SimpleXMLElement($response);
echo "Response : <br>";
```

```
foreach ($xml->Response as $resp)
{
    echo "Code = ".$resp->code."<br>";
    echo "Message = ".$resp->message."<br>";
}
?>
```

Callback Report HTTP POST

The callback report is only initiated by Bongo Live if a CallbackURL was defined and an ID was provided for each destination mobile number.

API Parameter	Description
ID	Same unique message ID provided during initial API call
Mobile	Number: In international GSM format (+(Countrycode)number)) (ex. +255784848484)
status	Text response {SENT_OR_DELIVERED, FAILED} 1) SENT_OR_DELIVERED = sms has been sent to operator for delivery 2) FAILED = invalid number or network not covered
sentdate	Date and time message was sent
donedate	Date and time message was delivered

Callback Receipt Sample PHP Code:

This sample script shows a callback receipt and the status being logged in a file.

```
<?
    $messageid = trim($_GET['id']);
    $gsm = trim($_GET['mobile']);
    $status = trim(urldecode($_GET['status']));
    $sentdate = trim(urldecode($_GET['sentdate']));
    $donedate = trim(urldecode($_GET['donedate']));

    $deliveryreport = $messageid."|".$gsm."|".$status."|".$sentdate."|".$donedate."\n";
    $file = "dlr.log";
    $currentTime = date("YmdHis");
    file_put_contents($file, $currentTime.' '.$deliveryreport, FILE_APPEND | LOCK_EX);
?>
```

HTTP Check Balance

URL: <http://www.bongolive.co.tz/api/request.php>

API Parameter	Description
username	Bongo Live account username
password	Bongo live account password
request	balance

Response:

Type	Description
Integer	Returns the balance if found or it returns 0.

Example Script in PHP:

```
<?
define ("URL_API_DOMAIN", "http://www.bongolive.co.tz/api/");

$username = "testaccount";
$password = "123456";
$request = "balance";

$posturl =
URL_API_DOMAIN."request.php?username=$username&password=$password&request=$request;

$ch = curl_init();
    curl_setopt($ch, CURLOPT_URL, $posturl);
    curl_setopt($ch, CURLOPT_RETURNTRANSFER, 1);
    $response = curl_exec($ch);

echo "response = $response ";
?>
```

HTTP Check Sender Names

URL: <http://www.bongolive.co.tz/api/request.php>

API Parameter	Description
username	Bongo Live account username
password	Bongo live account password
request	sender

Response:

Type	Description
Varchar	Returns comma separated string with all the approved sender names.

```
<?
define ("URL_API_DOMAIN", "http://www.bongolive.co.tz/api/");

$username = "testaccount";
$password = "123456";
$request = "sender";

$posturl =
URL_API_DOMAIN."request.php?username=$username&password=$password&request=$request;

    $ch = curl_init();
        curl_setopt($ch, CURLOPT_URL, $posturl);
        curl_setopt($ch, CURLOPT_RETURNTRANSFER, 1);
        $response = curl_exec($ch);

    echo "response = $response ";
?>
```

HTTP Incoming SMS Post/Get

This functionality applies to vendors that have enabled the sim hosting service and would like any incoming sms requests received to be forwarded to their server. By default all incoming sms will also be posted to the vendor's incoming sms log. This can be viewed under 'Reports' in the vendor account.

Parameters Required from Vendor

API Parameter	Description
URL/Host	Website url or host where incoming sms should be forwarded to
Port	If different from default of port 80.
Response	Any acknowledgement or error returned (optional)

Parameters Forwarded

API Parameter	Description
dest	Destination - mobile number that the sms was sent to (or received on)
message	SMS message received
org	Origin - Mobile number that the sms was sent from (or sender)