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ZEN Messaging Platform - AXON MEDIA LLP

HTTP API for Bulk SMS

Integration Manual

submit all your requests over HTTPs using this [base url](https://www.smsmarketing.sg) : [zen.smsmarketing.sg](https://www.smsmarketing.sg)

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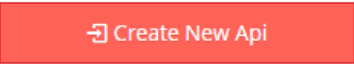
HTTP/HTTPS API for Bulk SMS

This document provides the guidelines on how to use the Global SMS API interface (HTTPS) for sending a single SMS or bulk SMS to the Mobile phones.

submit all your requests over HTTPs using this [base url](https://zen.smsmarketing.sg) : zen.smsmarketing.sg

Create API ID

When you login to your web account, go to the API section and Create New API by pressing create new API button. A new API ID is generated for the user.



→ Create New Api

A new [apiId](#) is generated with HTTP type.

Sending SMS

For sending SMS messages, the user has the ability to request an authenticated HTTP(s) request with an appropriate HTTP method (Get and Post).

The parameters used for sending messages are described in the following:

- Username: represents the Global SMS username account.
- API-Id: created on the Global SMS web site.
- Destination: Mobile numbers in international format.
- Source: is the Sender ID of the sent message
- Text: is the body of the message

HTTP(s) Get Request

A single SMS is pushed via the below URL by filling the correspondent parameters:

https://{base_url}/API/SendSMS??username={username}&apiId={apiId}&json=True&destination={destinationnumber}&source={senderID}&text={messagecontent}

json=True; when True will return the response in Json format (application/json)

HTTP(s) Post Request

The multiple messages are submitted by HTTP(s) post request via the following the `{base_url}`

The request is authenticated by using the Basic authentication:

- Username: `{username}` / Password: `{apiId}`

The Body is written as JSON language and contains the below parameters for sending a single or multiple SMS messages.

Post Request Example:

```
POST /API/SendBulksMS HTTP/1.1
Host: {base_url}
Username: "{username}"
Password: "{apiId}"
Content-Type: application/json
{
  "source": "{senderID}",
  "destination": ["{destinationnumber1}", "{destinationnumber2}"],
  "text": "{messagecontent}"
}
```

HTTP Responses

After submitting the request as per any of the above methods, you will get a response containing the following parameters:

- `{ErrorCode}`: State of the message (Values are shown below)
- `{Description}`: Status of the message (Values are shown below)
- `{Id}`: MessageId to be used in case if any enquiry about the message
- `{OriginatingAddress}`: Alphanumeric source of the Message(Sender ID)
- `{DestinationAddress}`: Mobile Destination Number
- `{MessageCount}`: The number of concatenated message, length could vary depending if text is Unicode or ASCII

The Error Codes values and descriptions are:

<code>{ErrorCode}</code>	<code>{Description}</code>	<code>{ErrorCode}</code>	<code>{Description}</code>
0	Success	-5	Invalid Credentials
-1	No Text Message specified	-6	No Credit
-2	No Source	-7	Invalid Data Coding
-3	No Destination	-8	Invalid Source
-4	Invalid Destination	-10	Unknown Error

HTTP Response Example:

```
[
  {
    "ErrorCode":0,
    "Description":"Success",
    "Id":"93e626eb-d3c9-42f5-b0df-15dbd18f64d7",
    "OriginatingAddress":"SenderID",
    "DestinationAddress":"97150XXXXXX",
    "MessageCount":1
  },
  {
    "ErrorCode":0,
    "Description":"Success",
    "Id":"7d2b28fb-abb2-4a77-88a2-f0fa83baa03d",
    "OriginatingAddress":"SenderID",
    "DestinationAddress":"97155XXXXXX",
    "MessageCount":1
  }
]
```

Basic Authentication (Optional)

Base64 encoding is a standard and many available programming languages and frameworks provide convenient methods for authentication credentials via an encoded string.

In this case, the credentials included in the Authorization header should be a Base64 encoded username and password combination. More formally, basic authentication header can be constructed in three steps:

1. Username and password are concatenated using the colon (:) as a separator username:password.
2. The resulting string is encoded using the RFC2045-MIME variant of Base64.
3. Encoded string is added as credentials after the "Basic " type.

Why should I use HTTP basic authentication instead of username and password post parameters?

HTTP Basic authentication implementation is the simplest technique for enforcing access controls to web resources because it doesn't require cookies, session identifiers, or login pages; rather, HTTP Basic authentication uses standard fields in the HTTP header, obviating the need for handshakes.

Basic Authentication Example:

```
Username: "Aladdin"  
Password: "openSesame"  
Concatenated string: "Aladdin:openSesame"  
Base64 encoded string: "QWxhZGRpbjpvGVuU2VzYW11"  
Authorization header: "Basic QWxhZGRpbjpvGVuU2VzYW11"
```

Credit Balance

For checking the accounts Credit Balance, the user has the ability to request an authenticated HTTP(s) request with an appropriate HTTP method (Get Only).

The parameters used for sending messages are described in the following:

- Username: represents the Global SMS username account.
- WebLoginPassword: represents the Global SMS web portal password.

https://{base_url}/API/AccountBalance?username={username}&password={WebLoginPassword}

Sample Codes: Basic Authentication

PHP

```
<?php  
$username = 'Aladdin';  
$password = 'openSesame';  
$header = "Basic " . base64_encode($username . ":" . $password);  
?>
```

Ruby

```
require "base64"  
username = "Aladdin"  
password = "openSesame"  
header = "Basic #{Base64.encode64("#{username}:#{password}")}"
```

Python

```
import base64  
username = 'Aladdin'  
password = 'openSesame'  
header = 'Basic ' + base64.b64encode(username + ':' + password)
```

Java8

```
import java.util.Base64;
String username = "Aladdin";
String password = "openSesame";
String concatenated = username + ":" + password;
String header = "Basic " +
Base64.getEncoder().encodeToString(concatenated.getBytes());
```

C#

```
string username = "Aladdin";
string password = "openSesame";
byte[] concatenated = System.Text.ASCIIEncoding.ASCII.GetBytes(username + ":" +
password);
string header = System.Convert.ToBase64String(concatenated);
```

JavaScript

```
var username = "Aladdin";
var password = "openSesame";
var header = "Basic " + window.btoa(username + ":" + password);
```

Sample Codes: Send SMS

JSON

```
POST /API/SendBulksMS HTTP/1.1
Host: {base_url}
Authorization: Basic QWxhZGRpbjpvYVUyIHNlc2FtZQ==
Content-Type: application/json
Accept: application/json
{
  "source": "{senderID}",
  "destination": "{destinationnumber}",
  "text": "{messagecontent}"
}
```

XML

```
POST /API/SendBulkSMS HTTP/1.1
Host: {base_url}
Authorization: Basic QWxhZGRpbjpvvcGVuIHNlc2FtZQ==
Content-Type: application/xml
Accept: application/xml

<request>
  <source>{senderID}</source>
  <destination>{destinationnumber}</destination>
  <text>{messagecontent}</text>
</request>
```

cURL

```
curl -X POST \
-H 'Content-Type: application/json' \
-H 'Accept: application/json' \
-H 'Authorization: Basic QWxhZGRpbjpvvcGVuIHNlc2FtZQ==' \
-d '{
  "source": "{senderID}",
  "destination": "{destinationnumber}",
  "text": "{messagecontent}"
}' https://{base_url}/API/SendBulkSMS
```

PHP

```
<?php

$curl = curl_init();

curl_setopt_array($curl, array(
    CURLOPT_URL => "http://{base_url}/API/SendBulkSMS",
    CURLOPT_RETURNTRANSFER => true,
    CURLOPT_ENCODING => "",
    CURLOPT_MAXREDIRS => 10,
    CURLOPT_TIMEOUT => 30,
    CURLOPT_HTTP_VERSION => CURL_HTTP_VERSION_1_1,
    CURLOPT_CUSTOMREQUEST => "POST",
    CURLOPT_POSTFIELDS => "{ \"source\": \"{senderID}\",
\"destination\": \"{destinationnumber}\", \"text\": \"{messagecontent}\" }",
    CURLOPT_HTTPHEADER => array(
        "accept: application/json",
        "authorization: Basic QWxhZGRpbjpvYVUyIHNlc2FtZQ==",
        "content-type: application/json"
    ),
));

$response = curl_exec($curl);
$error = curl_error($curl);

curl_close($curl);

if ($error) {
    echo "cURL Error #:" . $error;
} else {
    echo $response;
}
```

Java

```
HttpResponse<String> response = Unirest.post("https://{base_url}/API/SendBulkSMS")
    .header("authorization", "Basic QWxhZGRpbjpvYVUyIHNlc2FtZQ==")
    .header("content-type", "application/json")
    .header("accept", "application/json")

    .body("{\"source\": \"{senderID}\", \"destination\": \"{destinationnumber}\", \"text\": \"{messagecontent}\"}")
    .asString();
```


Ruby

```
require 'uri'
require 'net/http'

url = URI("https://{base_url}/API/SendBulkSMS")

http = Net::HTTP.new(url.host, url.port)
http.use_ssl = true
http.verify_mode = OpenSSL::SSL::VERIFY_NONE

request = Net::HTTP::Post.new(url)
request["authorization"] = 'Basic QWxhZGRpbjpvGcVvIHNLc2FtZQ=='
request["content-type"] = 'application/json'
request["accept"] = 'application/json'

request.body =
"{\"source\": \"{senderID}\", \"destination\": \"{destinationnumber}\", \"text\": \"{messagecontent}\"}"

response = http.request(request)
puts response.read_body
```

Python

```
conn = http.client.HTTPSConnection("{base_url}")

payload =
"{\"source\": \"{senderID}\", \"destination\": \"{destinationnumber}\", \"text\": \"{messagecontent}\"}"

headers = {
    'authorization': "Basic QWxhZGRpbjpvGcVvIHNLc2FtZQ==",
    'content-type': "application/json",
    'accept': "application/json"
}

conn.request("POST", "/API/SendBulkSMS", payload, headers)

res = conn.getresponse()
data = res.read()

print(data.decode("utf-8"))
```

C#

```
var client = new RestClient("https://{base_url}/API/SendBulkSMS");

var request = new RestRequest(Method.POST);
request.AddHeader("accept", "application/json");
request.AddHeader("content-type", "application/json");
request.AddHeader("authorization", "Basic QWxhZGRpbjpvuIHNlc2FtZQ==");
request.AddParameter("application/json", "{\"source\":\"{senderID}\",
\"destination\":\"{destinationnumber}\",\"text\":\"{messagecontent}\"}",
ParameterType.RequestBody);

IRestResponse response = client.Execute(request);
```

JavaScript

```
var data = JSON.stringify({
  "source": "{senderID}",
  "destination": "{destinationnumber}",
  "text": "{messagecontent}"
});

var xhr = new XMLHttpRequest();
xhr.withCredentials = false;

xhr.addEventListener("readystatechange", function () {
  if (this.readyState === this.DONE) {
    console.log(this.responseText);
  }
});

xhr.open("POST", "https://{base_url}/API/SendBulkSMS");
xhr.setRequestHeader("authorization", "Basic QWxhZGRpbjpvuIHNlc2FtZQ==");
xhr.setRequestHeader("content-type", "application/json");
xhr.setRequestHeader("accept", "application/json");

xhr.send(data);
```

--end/Axon