



VOICE SERVER HTTP GATEWAY

Versión 1.0

This API provides access to all the features of 360nrs using JSON.

LATEST CHANGES

Version 1.0 15/02/2018 Initial version

Version 1.2 16/04/2018 Python, Java and C # examples added

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INTRODUCTION

The REST Gateway platform allows users to send messages via HTTP or HTTPS in a simple and fast way. It can also send more than 500 messages in a single request. To access your statistics and invoicing details, please go to the website <https://www.360nrs.com> and enter your user data.

This document describes the parameters required to use all possibilities to send SMS messages following REST specifications. REST API requests and responses are both in JSON format, making it easy to use the API with any programming language.

TECHNICAL PLATFORM

Each request made must include client authorisation in the header of the HTTP request. This will use basic HTTP access authentication.

The authorisation header is constructed by combining the "username:password" string and encoding it in Base64. This string is prefixed by the "Authorisation:Basic" string.

For example, for the username "user" and password "pass", the resulting header would be:
Authorisation: Basic dXNlcjpwYXNz

Detailed below are the available sending options, the URL that should be called, and the parameters supported.

VOICE SEND REQUEST

URL: <https://dashboard.360nrs.com/api/rest/voice>

METHOD: **POST**

PARAMETERS

Parameter	Type	Required	Description
message	string	Yes	Message text. At most it can have 500 characters. The text must be encoded in UTF-8
to	array	Yes	Message text. At most it can have 500 characters. The text must be encoded in UTF-8
language	string	Yes	Language to convert the text; the options are: 'en_GB' => 'English - United Kingdom', 'en_US' => 'English - United States', 'es_CO' => 'Spanish - Latin America', 'es_ES' => 'Spanish - Spain', 'pt_BR' => 'Portuguese - Brazil'
gender	string	Yes	Gender of voice; the allowed values are 'F' for a woman's voice and 'M' for a man's voice.
scheduleDate	string	No	Date of message sent in UTC format. If you need to send scheduled messages, the delivery date can be specified by indicating the date in the following format YYYYMMDDHHIISS (e.g. 20130215142000 would be 15 February 2013 at 14:20:00). For immediate messages, this parameter does not have to be specified.
expirationDate	string	No	To determine the latest date on which the call can be performed. After this date, the call will be cancelled. By specifying the period of validity, retries will be automatically attempted, making

			the call again if the recipient does not answer. The date should be in the following format YYYYmmddHHiiss (e.g. 20130215142000 would be 15 February 2013 at 14:20).
campaignName	String	No	Campaign name. If specified, a campaign will be created with the name indicated in the dashboard and which will contain the mailing statistics. If a campaign with this name already exists, the mailing statistics will be added to the existing campaign.
tags	array	No	<i>campaignName is required if this parameter is specified. List of tags to add to the campaign. The tags can be used to filter the statistics in the dashboard.</i>

EXAMPLE OF CURL REQUEST

```
{"to":["346666666666"],"message":"This is a test voice message","gender":"F","language":"en_GB"}
```

EJEMPLO DE PETICIÓN CURL

```
curl -X POST \
-H "Content-Type: application/json" \
-H "Accept: application/json" \
-H "Authorization: Basic bW1c2VyOm1pcGFzcw==" \
-d '{"to":["346666666666"],"message":"text message","language":"en_GB","gender":"M"}' \
https://dashboard.360nrs.com/api/rest/voice
```

EXAMPLE OF PHP REQUEST

```
<?php

$post["to"]          = array("346666666666");
$post["message"]     = "This is a test voice message";
$post["gender"]      = "F";
$post["language"]    = "en_GB";
$user                = "user";
$password            = "pass";

try {

    $ch      = curl_init();
    curl_setopt($ch, CURLOPT_URL, "https://dashboard.360nrs.com/api/rest/voice");
    curl_setopt($ch, CURLOPT_RETURNTRANSFER, 1);
    curl_setopt($ch, CURLOPT_POST, 1);
```

```

curl_setopt($ch, CURLOPT_POSTFIELDS, json_encode($post));
curl_setopt($ch, CURLOPT_SSL_VERIFYHOST, 0);
curl_setopt($ch, CURLOPT_SSL_VERIFYPEER, 0);
curl_setopt($ch, CURLOPT_HTTPHEADER,
    array(
        "Accept: application/json",
        "Authorization: Basic ".base64_encode($user.":".$password));
$result = curl_exec($ch);
var_dump($result);
} catch (Exception $exc) {
    echo $exc->getTraceAsString();
}

```

EXAMPLE OF PYTHON REQUEST

```

import base64
import json
import pycurl
if __name__ == "__main__":

    url = "https://dashboard.360nrs.com/api/rest/voice"
    usrPass = "miuser:mipass"

    data = json.dumps({
        "to":["34666555444"],
        "message":"This is a test Voice message",
        "gender":"F",
        "language":"en_GB",
        "campaignName":"Name Campaign",
    })

    b64Val = base64.b64encode(usrPass)
    headers = ["Accept:Application/json", "Authorization:Basic %s" % b64Val]

    c = pycurl.Curl()
    c.setopt(pycurl.URL, url)
    c.setopt(pycurl.HTTPHEADER, headers)
    c.setopt(pycurl.POST, 1)
    c.setopt(pycurl.POSTFIELDS, data)
    c.setopt(pycurl.SSL_VERIFYHOST, 0)
    c.setopt(pycurl.SSL_VERIFYPEER, 0)
    c.perform()

    http_code = c.getinfo(pycurl.HTTP_CODE)
    print(http_code)

```

EXAMPLE OF JAVA REQUEST

```
import java.io.BufferedReader;
import java.io.DataOutputStream;
import java.io.IOException;
import java.io.InputStreamReader;
import java.net.URL;
import javax.net.ssl.HttpURLConnection;
import org.json.simple.JSONArray;
import org.json.simple.JSONObject;

public class ApiVoice {

    public static void main(String args[]) throws IOException {
        String url = "https://dashboard.360nrs.com/api/rest/voice";
        URL obj = new URL(url);
        HttpURLConnection con = (HttpURLConnection) obj.openConnection();

        con.setRequestMethod("POST");
        String userpass = "miuser" + ":" + "mipass";
        String basicAuth = "Basic " +
javax.xml.bind.DatatypeConverter.printBase64Binary(userpass.getBytes("UTF-8"));
        con.setRequestProperty("Authorization", basicAuth);
        con.setRequestProperty("Accept", "application/json");

        JSONObject data = new JSONObject();
        JSONArray to = new JSONArray();
        to.add("34666555444");
        data.put("to", to);
        data.put("message", "This is a test Voice message");
        data.put("gender", "F");
        data.put("language", "en_GB");
        data.put("campaignName", "Name Campaign");
        String jsonText = data.toJSONString();

        con.setDoOutput(true);
        try (DataOutputStream wr = new
DataOutputStream(con.getOutputStream())) {
            wr.writeBytes(jsonText);
            wr.flush();
            wr.close();

        }

        BufferedReader in = new BufferedReader(
new InputStreamReader(con.getInputStream()));
        String inputLine;
        StringBuffer response = new StringBuffer();

        while ((inputLine = in.readLine()) != null) {
            response.append(inputLine);
        }
    }
}
```



```

        }
        in.close();

        System.out.println(response.toString());
    }
}

```

EXAMPLE OF REQUEST C#

```

using Newtonsoft.Json;
using System;
using System.IO;
using System.Net;

namespace nrs_api
{
    class Program
    {
        static void Main(string[] args)
        {
            var httpWebRequest =
(HttpWebRequest)WebRequest.Create("https://dashboard.360nrs.com/api/rest/voice");
            httpWebRequest.Method = "POST";
            httpWebRequest.Accept = "application/json";
            String username = "miuser";
            String password = "mipass";
            String encoded =
System.Convert.ToBase64String(System.Text.Encoding.GetEncoding("ISO-8859-1").GetBytes(username + ":" + password));
            httpWebRequest.Headers.Add("Authorization", "Basic " + encoded);

            using (var streamWriter = new
StreamWriter(httpWebRequest.GetRequestStream()))
            {
                string[] to = new string[1];
                to[0] = "34666555444";
                var message = "This is a test voice message";
                var gender = "F";
                var language = "en_GB";
                var campaignName = "Nombre Campaña";

                var data = new
                {
                    to = to,
                    message = message,
                    gender = gender,
                    language = language,

```

```

        campaignName = campaignName,

};
string json = JsonConvert.SerializeObject(data);

streamWriter.Write(json);
streamWriter.Flush();
streamWriter.Close();
}

var httpResponse = (HttpWebResponse)httpWebRequest.GetResponse();
using (var streamReader = new
StreamReader(httpResponse.GetResponseStream()))
{
    var result = streamReader.ReadToEnd();
    Console.WriteLine(result);
    Console.ReadKey();
}
}
}
}

```

The access code (password) and client code (username) will be provided by the company. It should be mentioned that in order to increase system security, the client must specify the IP from which it will connect, as only messages from the client-specified IP will be allowed.

RESPONSE STATUS CODES

The REST API can respond with the following HTTP status:

Status code	Description	Details
202	Accepted	The message has been accepted for further processing
207	Multi-status	The message has been accepted for further processing, but some recipients are incorrect.
400	Bad request	The request contains errors, the message has not been accepted
401	Unauthorized	Client authentication failed
402	Payment required	The client does not have enough balance

500	Internal server error	The server has an internal error
-----	-----------------------	----------------------------------

EXAMPLES OF RESPONSES

A JSON is delivered in the body of the HTTP response with the details of the result; these are the possible answers:

STATUS CODE 202 (ACCEPTED):

```
[{"accepted":true,"to":"34666555444","id":"102648819"}]
```

STATUS CODE 207 (MULTI-STATUS):

```
[{"accepted":true,"to":"34626690739","id":"102648820"}, {"accepted":false, "to":"34", "error":{"code":102,"description":"No valid recipients"}}]
```

STATUS CODE 400:

```
{"error":{"code":102,"description":"No valid recipients"}}
{"error":{"code":104,"description":"Text message missing"}}
{"error":{"code":105,"description":"Text message too long"}}
{"error":{"code":113,"description":"Invalid coding"}}
{"error":{"code":114,"description":"Invalid voice gender"}}
{"error":{"code":115,"description":"Invalid language"}}
{"error":{"code":116,"description":"Invalid validity period"}}
```

STATUS CODE 401:

```
{"error":{"code":103,"description":"Username or password unknown"}}
{"error":{"code":112,"description":"IP address not allowed"}}
```

STATUS CODE 402:

```
{"error":{"code":111,"description":"Not enough credits"}}
```

RETRY POLICY

The voice system allows automatic retries if the recipient does not answer the call. This functionality does not generate additional costs, since only the calls that are answered by the recipient will be charged. When the system detects that the call has not been answered, the call is repeated after 30 minutes. The time elapsed from the unanswered call to the retry time will vary depending on the existing queue, but it is always greater than 30 minutes. A maximum of 3 retries will be attempted after the first call. To avoid retries at unwanted times, it is essential to specify the optional variable **expirationDate** in order to enable this functionality.