

NUMBER VALIDATION SERVICE

API Documentation

V1.00

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42 Telecom Ltd.

 **fortytwo**

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1. INTRODUCTION

Number Validation Service (NVS) can help you clean out your client database by retrieving information on destination numbers such as Country, Network and more information. We offer 2 services for Number Validations:

NVS

- Validates mobile phone numbers to keep your customer data accurate and up to date.
- Key benefit – you only pay for SMS sent to valid numbers.

NVS plus

- Takes a step further and confirms if a phone is powered on, roaming and ported.
- Key benefit – you can postpone sending your campaign to roaming or powered off phones.

** The main difference is that NVS Plus returns more data than NVS for every request*

2. AUTHENTICATION

To use the NVS or NVS plus services, you need to request access to Fortytwo. Once we enable the service for your account, you will get a set of credentials (username and password) which you must include with every NVS or NVS plus request.

To request access, please contact our Customer Service team at support@fortytwo.com

3. ENDPOINTS

3.1. Lookup Number

This endpoint is used to get information on a phone number. The basic information extracted from NVS includes MCC (Mobile Country Code), MNC (Mobile Network Code).

For a more detailed response, opt for NVS Plus which gives even more information such as Roaming Status, Phone Status, Porting.

3.2. Request

GET

```
http://nvshhttp.fortytwotele.com/?username={username}&password={password}&number={phone_number}
```

The request to validate a number is made towards the following URL <http://nvshhttp.fortytwotele.com/> with the following parameters sent as a GET query.

Parameter	Value
username	The username from your bind details. This is emailed once an NVS bind is created by our team
password	The password from your bind details. This is emailed once an NVS bind is created by our team
number	The number you are looking to validate. Number should be in international format and can only be between 7-20 digits long. First digit cannot be a 0. All numbers must be unique within the "destinations" array

3.3. Response

The Response for the Lookup is the main difference between NVS and NVS Plus. The NVS Plus will have additional information such as Ported, Phone state, etc.

NVS Successful Response:

```
number=35688000000&mcc=278&mnc=01&lookupID=14899983448780010261&statusCode=0  
&statusDesc=SUCCESSFUL
```

A sample response for a valid mobile number. The response below displays the following information for the given number:

- Number
- MCC
- MNC
- LookupId
- StatusCode
- StatusDesc

NVS Plus Successful Response

```
number=35688000000&mcc=234&mnc=15&roaming=N&ported=N&phoneOn=Y&lookupID=1447685476  
7320010261&statusCode=0&statusDesc=SUCCESSFUL
```

A sample response for a valid mobile number. The response below displays the following information for the given number

- Number
- MCC
- MNC
- Roaming
- Ported
- PhoneOn
- LookupId
- StatusCode
- StatusDesc

NVS Failed Response

```
number=3568800000&lookupID=14474248506850010261&statusCode=9999
&statusDesc=SYSTEM_ERROR
```

A sample response for an invalid request. The following example outlines an Invalid Login scenario

- Number
- LookupID
- StatusCode
- StatusDesc

NVS Invalid Response

```
number=?&lookupID=14899976383780010261&statusCode=1001&statusDesc=INVALID_LOGIN
```

A sample response for an invalid request. The following example outlines an Invalid Login scenario

- Number
- LookupID
- StatusCode
- StatusDesc

3.4. Example

HTTP

```
GET /?username={username}&password={password}&number={phone_number} HTTP/1.1
Host: nvshhttp.fortytwotele.com
```

PHP

```
$curl = curl_init();
curl_setopt_array($curl, array(
    CURLOPT_URL => "http://nvshhttp.fortytwotele.
com/?username={username}&password={password}&number={phone_number}",
    CURLOPT_RETURNTRANSFER => true,
    CURLOPT_ENCODING => "",
    CURLOPT_MAXREDIRS => 10,
    CURLOPT_TIMEOUT => 30,
    CURLOPT_HTTP_VERSION => CURL_HTTP_VERSION_1_1,
    CURLOPT_CUSTOMREQUEST => "GET",
    CURLOPT_POSTFIELDS => "",
    CURLOPT_HTTPHEADER => array(
        "cache-control: no-cache"
    ),
));
$response = curl_exec($curl);
$error = curl_error($curl);
curl_close($curl);
if ($error) {
    echo "cURL Error #:" . $error;
} else {
    echo $response;
}
```

4. REFERENCE

4.1. Response Fields

The response values are separated by the & characters and are as follows:

Parameter	NVS	NVS plus	Value
lookupID	☑	☑	A reference ID for this lookup
number	☑	☑	The number you queried for reference
statusCode	☑	☑	Status of the lookup, see Status Code
statusDesc	☑	☑	Descriptive name of status, see Status Code
mcc	☑	☑	Mobile Country Code of current operator
mnc	☑	☑	Mobile Network Code of current operator
phoneOn		☑	Indicates whether number is currently in a phone that is switched on: <ul style="list-style-type: none">• Y if phone is turned on• N if phone is turned off• U if status cannot be determined
roaming		☑	Indicates whether number is currently roaming: <ul style="list-style-type: none">• Y if number is roaming• N if number is located on the home network• U if status cannot be determined
ported		☑	Indicates whether number is currently ported or on default network: <ul style="list-style-type: none">• Y if number is ported• N if number is located on the default network• U if status cannot be determined

4.2. Status Codes

Code	Name	Description
0	SUCCESSFUL	Our sources indicate that the number provided is valid
1001	INVALID_LOGIN	Incorrect Username or password or lookup is made from and IP not whitelisted for the bind
1003	BAD_NUMBER_FORMAT	Non-numeric value provided
1004	NO_CREDIT	Insufficient credits on account to do lookup
1005	THROTTLED	You are trying to process more lookups per second than permitted. Please see your bind email for your allowed limit
1006	NO_COVERAGE	NVS coverage for lookup country not available for your bind
1007	TIMED_OUT	We did not get a reply for your query within a reasonable amount of time
9999	SYSTEM_ERROR	System failure, or number provided is invalid

Only lookups with status code 0 are charged.

THANK YOU

Send us a message on
support@fortytwo.com

sales@fortytwo.com

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