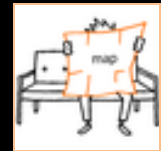




Domain: Localization  
Product: GeoLocation  
Version: v1  
Access: Pre-Commercial/Commercial



api@orange.com

GeoLocation operation retrieves the location of a SIM card.

## API details

Authorization	APIKey
HTTP Method	GET
URI request for GeoLocation	<p><a href="https://{host}/Localization/v1/GeoLocation?msisdn=...&amp;apikey=...">https://{host}/Localization/v1/GeoLocation?msisdn=...&amp;apikey=...</a></p> <p>where: For commercial access host is apim2m.orange.pl</p> <p>For pre-commercial access host is apim2m-test.orange.pl</p>
URI request for documentation	<p>swagger 2.0 format: <a href="https://{host}/Localization/v1/GeoLocation/doc.json">https://{host}/Localization/v1/GeoLocation/doc.json</a></p> <p>pdf format: <a href="https://{host}/Localization/v1/GeoLocation/doc.pdf">https://{host}/Localization/v1/GeoLocation/doc.pdf</a></p>
URI request to check the limit	<a href="https://{host}/SIMInfo/v1/GeoLocation/limit?apikey=...">https://{host}/SIMInfo/v1/GeoLocation/limit?apikey=...</a>
Remarks	The API is fully functional only for subscribers registered in Polish Orange network.



## API Request Parameters

The request parameters for GeoLocation information operation are following:

Parameter	Description	Type
msisdn	The number of SIM card, 11 digits long MSISDN in international format, i.e. MSISDN=48510123456.	String
apikey	Authentication key. A string of characters used to authenticate and authorize the client to invoke APIs. Each client has to receive his own, unique key from Orange.	String

## API Response Body

The response body for this operation is represented by the following JSON data structure, where the value part of each name/value pair indicates its data type:

Parameter	Description	Type
msisdn	The number of SIM card, which has been requested.	String
result	Result of the query : eg. <i>COMPLETED</i> - location complete. <i>IMPOSSIBLE</i> - location not possible, an error occurred, or the request is not valid. <i>Bad request</i> - impossible location, the request is invalid. <i>ABSENT SUBSCRIBER</i> - location possible - the phone is switched off (IMSI detach). <i>POSITION METHOD FAILURE</i> - location possible - phone out of range (does not respond to paging).	String
latitude	Latitude coordinate center point in WGS84 coordinate system.	String
longitude	Longitude coordinate center point in WGS84 coordinate system.	String
radius	The radius of the circle defining the area in meters.	String
distanceUnit	Unit of measure for the radius of the circle. The default value is "meter".	String
timestamp	Date and time of the location.	String
timezone	Time zone for the timestamp. The parameter indicates the difference between used time and UTC, and takes the value of such. "+0200" which means UTC + 2h of summer time in Poland.	String



## Response Body for checking limit of GeoLocation API

Parameter	Description	Type
used	Number of utilized API requests.	String
available	Number of remaining API Request in defined time.	String
date	Date of reset counter of API usage.	String

## HTTP Errors

The Headers of error response are standard HTTP Status Codes:

- 400 Bad Request
- 401 Unauthorized
- 403 Forbidden
- 404 Not found
- 405 Validation Exception
- 500 Internal Server Error
- 503 Service Unavailable

## Error Body

The body of failed response contains the error code with details of error:

Parameter	Description	Type
code	Error code.	Integer
message	Main reason of error.	String
description	Details of error.	String

## List of error codes

HTTP 400:

Codes:

- 30 - Missing parameters - parameter MSISDN is required.
- 31 - Wrong parameter format - parameter MSISDN consists of 11 digits: CountryCode + 9 digits.
- 32 - Wrong parameter format - parameter MSISDN should be Polish number, beginning with Country Code = "48".



### HTTP 401:

#### Codes:

40 - Missing credentials.

41 - Invalid credentials - the requested service needs credentials, but the provided ones were invalid.

### HTTP 403:

#### Codes:

50 - Access denied - the application that makes the request is not authorized to access this endpoint.

51 - No permission for this number - MSISDN not defined on the list of allowed numbers.

53 - Too many requests - the application has made too many calls and has exceeded the rate of limit for this service.

### HTTP 404:

#### Codes:

60 - Resource not found - the requested resource does not exist.

### HTTP 405:

#### Codes:

61 - Method not allowed - the URI does not support the requested method.



## Examples

### *Example 1: GeoLocation Request*

<https://apim2m.orange.pl/Localization/v1/GeoLocation?msisdn=48510123456&apikey=tTGPMspDeGpdGQ8PLCyfdSD1jz5zQdZb>

### *Example 2: GeoLocation Response Body*

**Response Header:**

Status Code: 200 OK

**Response Body:**

```
{
  "result": "COMPLETED",
  "msisdn": "48510123456",
  "latitude": "52.176479N",
  "longitude": "21.001861E",
  "radius": "91",
  "distanceUnit": "meter",
  "timestamp": "20141006103855",
  "timezone": "+0200"
}
```

### *Example 3: GeoLocation – Not possible to get location*

**Response Header:**

Status Code: 200 OK

**Response Body:**

```
{"msisdn": "48508123456", "result": "IMPOSSIBLE"}
```

### *Example 4: GeoLocation – Wrong apikey*

**Response Header:**

Status Code: 401 Unauthorized

**Response Body:**

```
{"code": 41, "message": "Invalid credentials", "description": "The requested service needs credentials, but the ones provided were invalid."}
```



### *Example 5: GeoLocation – Lack of apikey*

**Response Header:**

Status Code: 401 Unauthorized

**Response Body:**

```
{"code":40,"message":"Missing credentials","description":"The requested service needs credentials, but none were provided."}
```

### *Example 6: GeoLocation – Limit is reached*

**Response Header:**

Status Code: 403 Forbidden

**Response Body:**

```
{"code":53,"message":"Too many requests","description":"The application has made too many calls and has exceeded the rate limit for this service."}
```

### *Example 7: GeoLocation – Request for documentation in json format*

<https://apim2m.orange.pl/Localization/v1/GeoLocation/doc.json>

### *Example 8: GeoLocation – Request for documentation in pdf format*

<https://apim2m.orange.pl/Localization/v1/GeoLocation/doc.pdf>

### *Example 9: GeoLocation – Request to check the limit*

<https://apim2m.orange.pl/Localization/v1/GeoLocation/limit?apikey=tTGPMspDeGpdGQ8PLCyfdSD1jz5zQdZb>

### *Example 10: GeoLocation – check the limit -Response*

```
{"used":"6","available":"94","date":"Tue Jun 30 2015"}
```