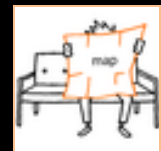




Domain: Personal
Product: Geolocation
Version: v1
Access: Pre-Commercial/Commercial



api@orange.com

Geolocation operation retrieves the location of a SIM card.

API details

Authorization	oAuth 2.0 (credentials) or APIKey
oAuth 2.0 documentation	https://{host}/oauth/v2/doc.json https://{host}/oauth/v2/doc.pdf
HTTP Method	GET
URI request for Geolocation	https://{host}/Personal/v1/Geolocation?msisdn=...&apikey=... where: For commercial access host is apib2b.orange.pl For pre-commercial access host is apib2b-test.orange.pl
URI request for documentation	swagger 2.0 format: https://api.orange.pl/doc/api/Personal/v1/Geolocation/doc.json pdf format: https://api.orange.pl/doc/api/Personal/v1/Geolocation/doc.pdf
URI request to check the limit	APIKey authorization: https://{host}/Personal/v1/Geolocation/limit?apikey=... oAuth authorization: https://{host}/Personal/v1/Geolocation/limit
Remarks	The API is fully functional only for subscribers registered in Polish Orange network.

API Request Parameters

The request parameters for Geolocalization information operation are following:

Parameter	Description	Type
msisdn	The number of SIM card, 11 digits long MSISDN in international format, i.e. MSISDN=48510123456.	Integer
last	(optional) Returns last known location since around 4:00 AM current day while the device is detached.	Boolean
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.	Integer
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
cid	Network cell id.	String
ct_info	Network type [2G, 3G, 4G].	String
imsi	Imsi number.	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 Geolocalization API

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

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 - The requested service needs credentials, but none were provided.

41 - Invalid credentials - The requested service needs credentials, but the ones provided 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: Geolocalization Request – Authorization APIKey

<https://apib2b.orange.pl/Personal/v1/Geolocalization?msisdn=48510123456&apikey=tTGPMspDe.....SD1jz5zQdZb>

Example 2: Geolocalization Request - Authorization OAuth 2.0

Request Header:

Authorization: Bearer dFRHUE1zcERlR3B.....NbQ==

Request:

https://apib2b.orange.pl/Personal/v1/Geolocalization?msisdn=48510123456

Example 3: Geolocalization Response Body

Response Header:

Status Code: 200 OK

Response Body:

```
{ "msisdn": "48500123456",  
  "result": "COMPLETED",  
  "latitude": "50.200000N",  
  "longitude": "21.000000E",  
  "radius": "50",  
  "distanceUnit": "meter",  
  "cid": "225505538",  
  "ct_info": "4G",  
  "imsi": "260038770000000",  
  "timestamp": "20231010135010",  
  "timezone": "+0100" }
```

Example 4: Geolocalization – Not possible to get location

Response Header:

Status Code: 200 OK

Response Body:

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



Example 5: Geolocalization – 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 6: Geolocalization – 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 7: Geolocalization – 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 8: Geolocalization – Request for documentation in json format

<https://apib2b.orange.pl/Personal/v1/Geolocalization/doc.json>

Example 9: Geolocalization – Request for documentation in pdf format

<https://apib2b.orange.pl/Personal/v1/Geolocalization/doc.pdf>



Example 10: Geolocalization – Request to check the limit - Authorization APIKey

```
https://apib2b.orange.pl/Personal/v1/Geolocalization/limit?apikey=tTGPMspDe.....jz5zQdZb
```

Example 11: Geolocalization – Request to check the limit – Authorization oAuth 2.0

Request Header:

```
Authorization: Bearer 6N2xkRzh5.....HpNbQ==
```

Request:

```
https://apib2b.orange.pl/Personal/v1/Geolocalization/limit
```

Example 12: Geolocalization – check the limit –Response

```
{"used":"6","available":"94","date":"Tue Jun 30 2023"}
```