



ApigateHub API Specification [Northbound] – Location Based Service

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Location Based Service API Specification

NOTE:

All APIs discussed under this section are RESTful APIs with a JSON payload where applicable.

Location API is based on the OneAPI V3 Location API:

- Query location of terminal

API End Point Name	URI
Location	
Location URL	Please Request

1 Query Location of End User

HTTP Method	GET
Operation	Request the location of one or more mobile terminals

1.1 Request

```
GET <Location URL>?address=
tel3A%2B00123456789&requestedAccuracy=1000 HTTP/1.1
Host: <HOST>
Accept: application/json
```

1.1.1 Request Parameters

Parameter name	Description	Usage
address	The MSISDN, of the mobile device to locate. Repeat the address parameter for multiple devices. The protocol and '+' identifier must be used for MSISDN, and must be URL-escaped. %3A represents ':' and %2B represents '+'.	Mandatory, one or more
requestedAccuracy	The preferred accuracy of the result, in metres. Typically, when you request an accurate location it will take longer to retrieve than a coarse location. So requestedAccuracy=10 will take longer than requestedAccuracy=100.	Mandatory

1.2 Response

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: 1234
Date: Thu, 04 Jun 2009 02:51:59 GMT
```

```
{
  "terminalLocationList": {
    "terminalLocation": {
      "address": "tel:00123456789",
      "currentLocation": {
        "accuracy": "100",
        "altitude": "1001.0",
        "latitude": "-80.86302",
        "longitude": "41.277306",
        "timestamp": "2013-12-26T00:27:23.000Z"
      },
      "locationRetrievalStatus": "Retrieved"
    }
  }
}
```

1.2.1 Response Parameters

Parameter name	Description	Usage
accuracy	The accuracy in meters, of the returned location information.	Mandatory
locationRetrievalStatus	"Retrieved" – If the retrieval of location was successful. "NotRetrieved" – If location of the end user mobile device is not available. "Error" – If a service or policy exception	Mandatory

2 Response Codes & Exceptions

2.1 Response Codes

HTTP response codes are used to indicate:

200 – Success!

400 – Bad request; check the error message and correct the request syntax.

401 – Authentication failure, check your OneAPI provider's authentication requirements.

403 – Forbidden; please provide authentication credentials.

404 – Not found: mistake in the host or path of the service URI.

405 – Method not allowed: in OneAPI Location v2 only GET is supported.

503 – Server busy and service unavailable. Please retry the request.

2.2 Exceptions

Invalid Address Error

```
HTTP/1.1 400 Bad Request
Content-Type: application/json
```

```
Content-Length: 1234
Date: Thu, 04 Jun 2009 02:51:59 GMT

{"requestError": {
  "serviceError": {
    "messageId": "SVC0002",
    "text": " Invalid input value for message part %1",
    "variables": " tel:+00123456789"
  }
}}
```

A `serviceException` describes the reason why the service cannot accept the request; for example if the `registrationId` was incorrect.

A `policyException` object means that the request syntax is valid, however an ApigateHub Exchange policy has been broken: in this example because the ApigateHub Exchange cannot support operation requested.

`serviceException` and `policyException` share the same body: an identifier pair for the exception (`messageId`), a text pair to describe it consistently (`text`), and a `variables` pair to indicate any specific cause of the error (`variables`). The `variables` relate to the `%1` placeholder(s) in the text.