



ApigateHub API Specification [Northbound] – Information

Document Reference No.: APIGATE/HUB/APIS-NB-INFO

Version: 2.0

Issued: 5 July 2018

Confidentiality: Distribution of this document is restricted. Holders of this document must ensure the confidentiality of the content and under no circumstances is this document to be shown or released to anyone without the prior consent of Apigate.

Copyright: This document and its contents belongs to Apigate it may not be copied, photocopied, scanned or redistributed without written consent from Apigate.

Contents

Information API Specification.....	3
1 Query Applicable Services	3
1.1 Request.....	3
1.1.1 Request Parameters	3
1.2 Response	4
1.2.1 Response Parameters	5
2 Get Attributes.....	6
2.1 Request.....	6
2.1.1 Request Parameters	6
2.2 Response	7
2.2.1 Response Parameters	8
3 Response Code & Exception.....	10
3.1 Response Codes	10
3.2 Exceptions	10
3.2.1 Service Exceptions.....	10
3.2.2 Policy Exceptions	10

Information API Specification

NOTE:

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

Provisioning API Specification will cover the following operations;

- Get Profile
- Get Attributes

API End Point Name	URI
Information	
GET PROFILE URL	Please Request
GET ATTRIBUTES URL	Please Request

1 Query Applicable Services

HTTP Method	GET
Operation	Get a customer's basic profile information
Resource URI	/v1/customer/profile?msisdn={msisdn}&imsi={imsi}&mcc={mcc}&mnc={mnc}&onBehalfOf={onBehalfOf}&purchaseCategoryCode={PurchaseCategoryCode}&requestIdentifier={Unique Request ID}

1.1 Request

GET

/v1/customer/profile?msisdn=123456789&imsi=098764321&mcc=413&mnc=02&onBehalfOf=my_Merchant&purchaseCategoryCode=Game&requestIdentifier=REQ12345678 HTTP/1.1 Accept: application/json Authorization: Bearer <access key>

1.1.1 Request Parameters

Parameter name	Description	Usage
msisdn	Mobile number of the subscriber.	Optional*
imsi	The IMSI of the subscriber	Optional*
mcc	Mobile Network Code	Optional
mnc	Mobile Country Code	Optional/Mandatory if mcc is set
onBehalfOf	(string) specify the Merchant name	Optional
purchaseCategoryCode	(string) an indication of the content type	Optional
requestIdentifier	(String) a unique identifier set by the Service Provider to identify each request	Mandatory

* Either should be present

NOTE: One of the two parameters are REQUIRED to be present. Not setting both parameters will result in an error. When both parameters are set, they will be counter validated with each other.

1.2 Response

```

HTTP / 1.1 200OK Content - Type: application / json Date: Thu, 04 Jun 2009 02:51:59 GMT {
  "Customer": {
    "msisdn": "123456789",
    "imsi": "0987654321",
    "title": "Mr",
    "firstName": "Bilbo",
    "lastName": "Baggins",
    "dob": "21/10/2006",
    "identificationType": "PP",
    "identificationNumber": "PP12345DC",
    "onBehalfOf": "my_Merchant",
    "purchaseCategoryCode": "Game",
    "accountType": "Postpaid",
    "ownerType": "Paymaster",
    "status": "Confirmed",
    "requestIdentifier": "REQ12345678",
    "responseIdentifier": "RES12345678",
    "address": {
      "line1": "Bag End",
      "line2": "",
      "line3": "",
      "city": "The Shire",
      "country": "Middle Earth"
    },
    "additionalInfo": [{
      "tag": "creditLimit",
      "value": "2500"
    }, {
      "tag": "creditLimit",
      "value": "2500"
    }
  ],
  "resourceURL":
    "http://<host>:<port>/customerinfo/v1/customer/profile?msisdn={msisdn}&imsi={imsi}&mnc={mnc}&mcc={mcc}"
  }
}

```

1.2.1 Response Parameters

Parameter name	Description	Usage
MSISDN	(string) Mobile number of the subscriber. If the MSISDN was set I the request it will be returned with the response.	Optional*
IMSI	(string) Mobile subscriber identification number. If the IMSI was set I the request it will be returned with the response.	Optional*
Title	(string) The title of the customer. E.g. Mr/Mrs/Rev/Dr	Optional
firstName	(string) First name of the customer	Mandatory
lastName	(string) Last name of the customer	Mandatory
IdentificationType	(string) Type of identification submitted when the account was created. E.g.: PP – Passport Number NIC- National Identity Card No	Optional
identificationNumber	(string) The identification number which corresponds to the identificationType	Optional
accountType	(string) Type of the account. Prepaid, Postpaid, etc...	Optional
ownerType	(string) If the owner is the paymaster or a regular user, Paymaster: Customer who is the primary owner of the number and the payment authority C/O User: Not the paymaster, authorized to use MSISDN	Optional
resourceURL	A reference URL to the request	Mandatory
status	Status of the information; CONFIRMED: Information is confirmed UNCONFIRMED: Information not confirmed	Optional
additionalInfo	(array) An array of tag value pairs of additional information	Optional
line1	(string) address line one	Mandatory
line2	(string) address line two	Optional
line3	(string) address line three	Optional
City	(string) city name	Mandatory
country	(string) country information	Mandatory
onBehalfOf	(string) specify the Merchant name	Optional
purchaseCategoryCode	(string) an indication of the content type.	Optional
responseIdentifier	(string) uniquely identifies and OpCo will response with a transaction id which will be the responseIdentifier	Mandatory
requestIdentifier	(string) unique identifier sent by the Service provider with the request	Mandatory

*Either should be present

2 Get Attributes

HTTP Method	GET
Operation	Get a customer's basic profile information
Resource URI	/v1/customer/attribute?msisdn={msisdn}&imsi={imsi}&schema={schema1, schema2, scheman}&mcc={mcc}&mnc={mnc}&onBehalfOf={OnBehalfOf}&purchaseCategoryCode={purchaseCategoryCode}&requestIdentifier={Unique Request ID}

2.1 Request

GET

<CustomerinfoAPIURL>/v1/customer/attribute?msisdn=123456789&imsi=0987654321&schema=basic,billing&mcc=413&mnc=02&onBehalfOf=my_Merchant&purchaseCategoryCode=Game&requestIdentifier=REQ12345678

HTTP/1.1

Accept:application/json

Authorization:Bearer<access key>

2.1.1 Request Parameters

Parameter name	Description	Usage
msisdn	Mobile number of the subscriber.	Optional*
imsi	The IMSI of the subscriber	Optional*
schema	The schema defines the set of attributes to be returned. Available schema types are; <ul style="list-style-type: none"> Basic: Title, Name, Address, DOB Billing: Credit Limit, Balance, Outstanding, currency Identification: Identification Type, Identification Number, expiry Account: Account Type, Account Status *NOTE: Only the schemas included with the request will be included in the response	Mandatory
mcc	Mobile Network Code	Optional
mnc	Mobile Country Code	Optional/Mandatory if mcc is set
onBehalfOf	(string) specify the Merchant name	Optional
purchaseCategoryCode	(string) an indication of the content type.	Optional
requestIdentifier	(string) unique identifier sent by the Service provider with the request	Mandatory

*Either should be present

NOTE: One of the two parameters are REQUIRED to be present. Not setting both parameters will result in an error. When both parameters are set, they will be counter validated with each other.

2.2 Response

```

HTTP / 1.1 200OK Content - Type: application / json Date: Thu, 04 Jun 2009 02.51.59 GMT {
  "Customer": {
    "msisdn": "123456789",
    "imsi": "0987654321",
    "onBehalfOf": "my_Merchant",
    "purchaseCategoryCode": "Game",
    "requestIdentifier": "REQ12345678",
    "responseIdentifier": "RES12345678",
    "basic": {
      "title": "Mr",
      "firstName": "Bilbo",
      "lastName": "Baggins",
      "dob": "21/10/2006",
      "address": {
        "line1": "Bag End",
        "line2": "",
        "line3": "",
        "city": "The Shire",
        "country": "Middle Earth"
      }
    },
    "billing": {
      "creditLimit": 2500,
      "balance": 1000,
      "outStanding": 0,
      "currency": "LKR"
    },
    "identification": {
      "type": "Passport",
      "number": "N123456",
      "expiry": "2026/01/01"
    },
    "account": {
      "type": "Postpaid",
      "status": "Active"
    },
    "resourceURL":
"http://:customerinfo/v1/customer/attribute?msisdn={msisdn}&imsi={imsi}&schema={schema1,schem
a2,schema3,schema4}&mnc={mnc}&mcc={mcc}"
  }
}

```

2.2.1 Response Parameters

Parameter name	Description	Usage
MSISDN	(string) Mobile number of the subscriber. If the MSISDN was set I the request it will be returned with the response.	Optional*
IMSI	(string) Mobile subscriber identification number. If the IMSI was set I the request it will be returned with the response.	Optional*
resourceURL	A reference URL to the request	Mandatory
onBehalfOf	(string) specify the Merchant name	Optional
purchaseCategory Code	(string) an indication of the content type.	Optional
responselIdentifier	(string) uniquely identifies and OpCo will response with a transaction id which will be the responselIdentifier	Mandatory
requestIdentifier	(string) unique identifier sent by the Service provider with the request	Mandatory

2.2.1.1 Response Parameters - Basic

If the basic schema was requested, then this section will be included in the response, if not it will be omitted from the response

Parameter name	Description	Usage
title	(string) The title of the customer. E.g. Mr/Mrs/Rev/Dr	Optional
firstName	(string) First name of the customer	Mandatory
lastName	(string) Last name of the customer	Mandatory
dob	(string) Date of birth	Optional
line1	(string) address line one	Mandatory
line2	(string) address line two	Optional
line3	(string) address line three	Optional
City	(string) city name	Mandatory
country	(string) country information	Mandatory

2.2.1.2 Response Parameters - Billing

If the billing schema was requested, then this section will be included in the response, if not it will be omitted from the response

Parameter name	Description	Usage
creditLimit	(number) the credit limit of the subscriber	Optional
balance	(number) the balance of the subscriber	Optional
outstanding	(number) the outstanding amount of the subscriber. Can be 0 for prepaid users.	Optional
currency	(string) The currency of the subscriber	Optional

2.2.1.3 Response Parameters - Identification

If the identification schema was requested, then this section will be included in the response, if not it will be omitted from the response

Parameter name	Description	Usage
identificationType	(string) Type of identification submitted when the account was created. E.g.: PP – Passport Number NIC- National Identity Card No	Mandatory
identificationNumber	(string) The identification number which corresponds to the identificationType	Optional
identificationExpiry	(string) The expiry date of identification	Optional

2.2.1.4 Response Parameters - Account

If the account schema was requested, then this section will be included in the response, if not it will be omitted from the response

Parameter name	Description	Usage
accountType	(string) Type of the account. Prepaid, Postpaid, etc...	Mandatory
accountStatus	Status of the information; Active/Inactive/Terminated	Mandatory

3 Response Code & Exception

3.1 Response Codes

HTTP response codes are used to indicate:

200 – Success!

400 – Bad request; check the error message for details

401 – Authentication failure, check your authentication details

403 – Forbidden; please provide authentication credentials

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

405 – Method not allowed: for example you mistakenly used a HTTP GET instead of a POST

500 – The server encountered an unexpected condition. This could be wrong authentication details or limited user permission

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

3.2 Exceptions

This section lists the available error codes, the possible reasons why the exception may have occurred, and possible solutions.

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.

3.2.1 Service Exceptions

A serviceException describes the reason why the service cannot accept the request. The following formatted service exceptions may be thrown if there is any service exception

```
HTTP / 1.1 404 Bad Request Accept: application / json {
  "requestError": {
    "serviceException": {
      "messageId": "SVC0002",
      "text": " Invalid input value for message part %1",
      "variables": " mcc Value 413"
    }
  }
}
```

3.2.2 Policy Exceptions

A policyException object means that the request syntax is valid, however a ApigateHub Exchange policy has been broken. If a request is invalid, a policy exception is thrown

POL0001 - Policy error occurred

The above exception may be thrown to indicate a fault relating to a policy associated with the service.