



## ApigateHub API Specification [Northbound] – Information

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# 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            |
|--------------------|----------------|
| <b>Information</b> |                |
| 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.:<br>PP – Passport Number<br>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,<br>Paymaster: Customer who is the primary owner of the number and the payment authority<br>C/O User: Not the paymaster, authorized to use MSISDN | Optional  |
| resourceURL          | A reference URL to the request   | Mandatory |
| status               | Status of the information;<br>CONFIRMED: Information is confirmed<br>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"> <li>Basic: Title, Name, Address, DOB</li> <li>Billing: Credit Limit, Balance, Outstanding, currency</li> <li>Identification: Identification Type, Identification Number, expiry</li> <li>Account: Account Type, Account Status</li> </ul> *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.:<br>PP – Passport Number<br>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;<br>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.