



www.flolive.net

Connectivity Management Platform

API Reference Guide

Version 9.100

Revision A

Disclaimer

The information contained in this document is confidential, privileged and only for the information of the intended recipient and may not be used, published or redistributed without the prior written consent of Flo Live Ltd. ©2025, All rights reserved. FloLive Ltd.

Table of Contents

1	API Overview	4
1.1	Purpose and Scope	4
1.2	Technology.....	4
1.3	Data Security.....	4
1.4	Protocol Layer Errors	4
1.5	Key Concepts.....	5
2	Usage Guidelines.....	7
2.1	General Conventions	7
2.2	Request Capabilities.....	7
2.3	Response Structure.....	8
2.4	Asynchronous Structure	8
2.5	API Call Processing Overlap	9
2.6	Bulk APIs	9
2.7	API Versioning.....	10
3	Security.....	12
3.1	Create Token.....	12
3.2	Refresh Token	15
4	Customer APIs.....	18
4.1	Create Customer	18
4.2	Delete Customer	28
4.3	Lock Customer Devices	31
4.4	Get Customer Push Notifications.....	34
4.5	Get Customer Details	39
4.6	Modify Customer Details	52
4.7	Get Customer Children	59
4.8	Get Customer Subscribers	63
4.9	Get All Customer Subscribers	68
4.10	Get All Customer Subscriber Details	74
4.11	Get Customer PCRF Configuration.....	85
4.12	Create Customer Contact	87
4.13	Delete Customer Contact.....	93
4.14	Create Customer Address	96
4.15	Delete Customer Address	101
4.16	Create Customer Availability Zone	104
4.17	Get Customer Availability Zones.....	107
4.18	Modify Customer Availability Zone.....	115
4.19	Delete Customer Availability Zones	119
4.20	Get Customer Campaigns	123
4.21	Error Codes	125
4.22	Create Customer External Params	132
4.23	Get Customer External Params.....	135
4.24	Modify Customer External Params	139
4.25	Delete Customer External Params	143
4.26	Get Customer External Params Config	147
4.27	Create Customer External Params Config.....	151
4.28	Modify Customer External Params Config.....	155

4.29	Delete Customer External Params Config.....	160
4.30	Create Customer Offer.....	164
4.31	Create Customer Offer [V3].....	174
4.32	Modify Customer Offer.....	192
4.33	Get Customer Offers.....	198
4.34	Get Customer Offers [Version 3]	209
4.35	Get Customer Offer Details [V3].....	226
4.36	Get Customer Offer Details V4	244
4.37	Get My Offers	257
4.38	Get My Offers [Version 3]	269
4.39	Get My Eligible Offers	285
4.40	Create Customer Package.....	297
4.41	Modify Customer Package	300
4.42	Delete Customer Package	303
4.43	Get My Eligible Packages	305
4.44	Get My Packages.....	308
4.45	Get Customer Packages	312
4.46	Pool Plan Top-up.....	315
4.47	Delete Customer Offer.....	320
4.48	Create Customer Zone	324
4.49	Get Customer Zones	328
4.50	Modify Customer Zone	334
4.51	Delete Customer Zones	338
4.52	Get Customer Billing Cycle Definition.....	342
4.53	Get Customer Billing Cycle Definition Eligibility	345
4.54	Modify Customer Billing Cycle Definition	349
4.55	Modify Customer Balance.....	352
4.56	Get Customer Invoice List.....	356
4.57	Error Codes	357
4.58	Get Customer Invoice Files	360
5	Subscriber APIs	363
5.1	Get Subscriber Details.....	363
5.2	Modify Subscriber Details	380
5.3	Get Subscriber Applets	383
5.4	Delete Subscriber Location	387
5.5	Move Subscriber	391
5.6	Modify Subscriber Status.....	395
5.7	Create Subscriber Labels.....	399
5.8	Delete Subscriber Labels.....	407
5.9	Get Subscriber Campaigns	411
5.10	Get Subscriber SIM Settings.....	414
5.11	Modify Subscriber SIM Settings	418
5.12	Modify Subscriber SIM Status.....	423
5.13	Get Subscriber Usage.....	425
5.14	Get Subscriber Balance	431
5.15	Modify Subscriber Steering.....	434
5.16	Modify Subscriber PCRF Settings	438
5.17	Top-Up	441
5.18	Attach Subscriber Offer	446
5.19	Get Subscriber Offer	451

5.20	Detach Subscriber Offer.....	461
5.21	Modify Subscriber Offer.....	465
5.22	Send Binary SMS	473
5.23	Send Text SMS	476
5.24	Get SMS Delivery Notification	480
6	Bulk Subscriber APIs.....	485
6.1	Bulk Modify Subscriber Details	485
6.2	Bulk Delete Subscriber Location	491
6.3	Bulk Move Subscriber	498
6.4	Bulk Modify Subscriber Status	505
6.5	Bulk Modify Subscriber Balance	511
6.6	Bulk Modify Subscriber Status	520
6.7	Bulk Create Subscriber Labels.....	531
6.8	Bulk Delete Subscriber Labels.....	537
6.9	Bulk Attach Subscriber Offer	544
6.10	Bulk Modify Subscriber Offer.....	553
6.11	Bulk Detach Subscriber Offer.....	562
6.12	Bulk Attach Subscriber Package.....	570
6.13	Bulk Detach Subscriber Package.....	577
6.14	Bulk Replace Subscriber Package.....	583
6.15	Bulk Top-Up	590
6.16	Bulk Subscriber Steering	599
6.17	Bulk Modify Subscriber Status	605
7	Global APIs.....	612
7.1	Get Country List	612
7.2	Get Network List	615
7.3	Get Request Status V2	621
7.4	Get Request Status V3	624
7.5	Get System Zones	627
8	Glossary	632

1 API Overview

floLIVE exposes set of RESTful Public APIs for external customer systems. This document contains the floLIVE Public APIs for Versions 2 and 3.

1.1 Purpose and Scope

The purpose of this document is to provide external systems with descriptive information of the interfaces that floLIVE supports. These interfaces denote the full set of functionalities that the floLIVE Public API exposes.

1.2 Technology

The following API technology is used universally in the floLIVE Public APIs:

Element	Technology
Integration Type	Synchronous
Interface Type	REST
Communication Protocol	HTTPS
Communication Format	JSON
Invocation Schedule	On demand

1.3 Data Security

All communication is conducted on a secure HTTPS connection. The SSL settings are defined during the integration process.

NOTE: There is no need for Network Level security.

1.4 Protocol Layer Errors

The Protocol layer errors are as follows:

Description	Retry
I/O Errors	Yes
Timeout	Yes
HTTP Codes:	
200 – OK	
202 – Accepted	No

Description	Retry
400 – Bad (invalid) Request	No
401 – Unauthorized	Yes
403 – Forbidden	No
404 – Not Found	Yes
500 – Internal Server Error	Yes

1.5 Key Concepts

A list of key concepts used in our API documentation is provided in this table.

Term/Acronym	Definition
ACK	Acknowledgment
API	Application Programming Interface
APN	Access Point Name
Buy Plan	Individual offers that the customer buys and pays to his parent account. Also known as “My Offers” or “Cost Plans”
CBR	Can Be Reached
CDR	Call Data Records
CID	Cell ID
Customer	Paying entity, often also known as an account
ICCID	Integrated Circuit Card Identity
IMEI	International Mobile Equipment Identity
IMSI	International Mobile Subscriber Identity
LAC	Location Area Code
LCP	Life-Cycle Policy
M/O/CM	Mandatory/Optional/Conditionally Mandatory
MCC	Mobile Country Code
MNC	Mobile Network Code (Operator)
MSISDN	Mobile Station International Subscriber Directory Number
NAK	Negative Acknowledgment
Plan	Individual offer
Requester	The user that logged in to the system and obtained the token
REST	Representational State Transfer
Sell Plan	Individual offers that the customer creates to charge his sub accounts’ subscribers. Also known as “Customer Offers” or “Charging Plans”
SIM	Subscriber identity module
Subscriber	Consuming entity
TBD	To Be Defined/Delivered
TDR	Transactional Data Records
UUID	Universally Unique Identifier

2 Usage Guidelines

This section provides general information and guidelines for API developers.

2.1 General Conventions

Makes sure you refer to these general usage guidelines when using the Public API resources.

1. URL domain name should be provided during actual integration.

All element names (attributes, parameters, functions) are camel case.

All URLs are kebab-case.

All enumerations (ENUMs), abbreviations and error codes are UPPERCASE, except those that appear in URLs.

When an API call fails on protocol level (HTTP), response section becomes invalid.

All {type} and {value} pairs, define the search criteria. Valid {type} ENUMs are: 'imsi', 'iccid', 'msisdn', 'imei'.

Every place where {id} is indicated, UUID of the entity object should be used. For example: '/api/v2/customer/{id}/offer/{id}/usage'; the first {id} refers to the customer UUID, while the second {id} refers to the Offer.

Relevant elements are being validated using regular expressions. For example, email address. Proper message will be sent when such validation is being breached.

Whenever a date type element exists without format, the following date format applies: DDMMYYYY.

Whenever a date/time type element exists without format, the following date/time format applies: YYYY-MM-DD HH:MI:SS

2.2 Request Capabilities

As part of the request URL, public APIs support additional request capabilities such as paging, sorting and searching. All these input parameters can be sent as part of the URL of "GET" method type APIs. The following table describes the additional request capabilities:

Keyword	Type	Default	Description
size	Numeric	50	Requested page size i.e., how many records are requested per a single page.
Page	Numeric	0	Requested page out of the available pages. First page number is always '0'.
Sort	String	id,asc	Requested sorting by field and whether to sort ascending {asc} or descending {desc}.

2.3 Response Structure

Response structure is divided into two separate structures:

- Synchronous API calls
- ;Asynchronous API calls
- Synchronous Structure

The Synchronous API call structure contains the following elements:

- HTTP code 200 OK and response body for successful operations.
- 'errorCode' and 'errorMessage' with the error relevant information for failures.
- Optional object supporting paging.

The [Get Request Status](#) API is treated as pure synchronous API.

2.4 Asynchronous Structure

Asynchronous API call structure contains the following elements:

ACK: HTTP code 202 Accepted.

Response body containing the request instance ID used by external systems to query an asynchronous call (operation) status, whether in progress, successful or failed.

NAK: HTTP error code.

errorCode contains the code given by Public APIs microservice for the failure. For example, GLOBAL_1001.

When NAK is returned, the error code category can be GLOBAL_** only. The errorMessage contains the error description for the errorCode. For example

```
"Service unavailable. Please try again".
```

2.5 API Call Processing Overlap

When submitting an API call, the following error message (error code "GLOBAL_1014") may sometimes appear:

```
The system is currently processing another action, please  
wait until the previous action is completed and then try  
again.
```

In this circumstance, the system is processing another action (of the same API call) and so cannot perform the requested API call. When this happens, the Requester, or the Front End application that operates the requests, should wait until the previous action is completed (regardless of Success or Failure) and then submit the request again.

2.6 Bulk APIs

floLIVE exposes set of bulk RESTful Public APIs for external customer systems, each of which enables an action on multiple instances of a certain entity (for example, Customer, Subscriber, Plan, etc.) in a single API call.

When using the Bulk APIs, make sure you adhere to these guidelines:

- The number of instances in a single call is limited to 200.
- The Response Structure supports asynchronous commands only. The asynchronous response structure is identical to the "Asynchronous Structure", except for some differences for the NAK response.
- For the NAK response in Bulk API calls, no event is created towards the system. The response will contain the failed nodes only. The response will not include the nodes that passed validations.

For example, assume that 200 nodes are received in a request, where 190 passed all validation parameters and 10 failed any validation parameter. The NAK response will contain only the failed 10, each of which with its own error code. The other 190 nodes will not be part of the response.

NOTE: When NAK is returned, the error code category will most probably be `GLOBAL_**` or `AUTH_**` only.

2.7 API Versioning

The floLIVE Public API Base version is Version 2. All API URLs for Version 2 are treated as the default version and are not labeled. If an API call has been upgraded to a higher version, such as Version 3, the API interface is duly labeled.

2.7.1 Version Identification

All the API URLs start with `//api/v#`, where `#` is the version number. For example, `/api/v2/<api_call>`

For example, the title for an API Version 2, looks like this:

Create Token Version 3

This API is used to create a token in the security management application.

HTTP URL	
POST	/api/v3/auth/token

For an API of Version 3, the title looks like this:

Create Token Version 2

This API is used to create a token in the security management application.

HTTP URL	
POST	/api/v2/auth/token

2.7.2 Backward Compatibility

Older version APIs are backward compatible to new platform releases. This means that if an API has been upgraded to Version 3, you can still use Version 2. Likewise, if an API has been upgraded to Version 4, you can still use Version 3 or Version 2.

If you prefer to use the upgraded version of an API to benefit from more advanced capabilities, you will have to recompile your scripts that use that API, since the API Request or API Response structure has been changed.

3 Security

3.1 Create Token

This API is used to create a token in the security management application.

HTTP URL	
POST	/api/v2/auth/token

3.1.1 Eligibility

The Requester can make a request for an access token for the user name and password that the Requester provided.

3.1.2 API Request

Request Structure

Parameter	Type	M/O/CM	Description
username	String	M	Security Management Application username
password	String	M	Security Management Application password

3.1.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
customerId	UUID	M	Universally unique customer identifier
token	String	M	Access token created by the security management application

Element	Type	M/O/CM	Description
refreshToken	String	M	Token created by the security management application for token session extension purposes
validityTime	Numeric	M	Token validity time in seconds

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

3.1.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
AUTH_1001	Invalid credentials

3.1.5 Examples

Request Body

```
{
  "username": "ethan.buckley@datastoreltd.biz",
  "password": "S0qUx56pW!"
}
```

Response Body: Success ACK:

```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
```

```
{
    "customerId": "e7fcef24-5c03-41dd-9e33-995b7d6f47a7",
    "token":
"eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1YWQiOjE1NSwiZW1haWwiOiJzaGF1bC5jb2hlbkBmb...".
    "refreshToken":
"eyJhbGciOiJIUzI1NiIsInR5cCIgOiAiSldUIiwia2lkIiA6ICI4NzlmN2I0Yy1hZjU3LTQ4YTItYTc2Mi1kY2Ew...".
    "validityTime": 3600
}
],
"pageable": {
    "page": 0,
    "size": 10,
    "totalPages": 1,
    "totalElements": 1
}
}
```

Response Body: Failure NAK:

```
{
  "errorCode": "AUTH_1001",
  "errorMessageerrorMessage": "Invalid credentials",
  "content": "",
  "pageable": ""
}
```

3.2 Refresh Token

This API is used to extend an existing session validity in the security management application. If the provided token is valid, the security management application creates a new token with an extended validity.

HTTP URL	
PUT	/api/v2/auth/token

3.2.1 Eligibility

The Requester can request a refresh token for his own access token.

3.2.2 API Request

Request Structure

Parameter	Type	M/O/CM	Description
token	String	M	Existing valid access token as was received from the security management application
refreshToken	String	M	Refresh token that was provided in the Create Token API response.

3.2.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
token	String	M	New access token refreshed by the security management application

Element	Type	M/O/CM	Description
refreshToken	String	M	New refresh token created by the security management application for token session extension purposes
validityTime	Numeric	M	Token validity time in seconds

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

3.2.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
AUTH_1002	Invalid token

3.2.5 Examples

Request Body

```
{
  "token":
"eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1aWQiOiJlNSwiZW1haWwiOiJzaGF1bC5jb2h1bkBmb...",
  "refreshToken":
"eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1aWQiOiJlNSwiZW1haWwiOiJzaGF1bC5jb2h1bkBmb..."
}
```

Response Body: Success ACK

 $\{$


```
"errorCode": "",  
"errorMessage": "",  
"content": [  
    {  
        "token":  
"eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1YWQiOiE1NSwiZW1haWwiOiJzaGF1bC5jb2hlbkBmb...",  
        "refreshToken":  
"eyJhbGciOiJIUzI1NiIsInR5cCIgOiAiSldUIiwia2lkIiA6ICI4NzlmN2I0Yy1hZjU3LTQ4Y2ItYTc2Mi1kY2Ew...",  
        "validityTime": 3600  
    }  
],  
"pageable": {  
    "page": 0,  
    "size": 10,  
    "totalPages": 1,  
    "totalElements": 1  
}  
}
```

Response Body: Failure NAK

```
{
  "errorCode": "AUTH_1002",
  "errorMessage": "Invalid token"
  "content": "",
  "pageable": ""
}
```

4 Customer APIs

4.1 Create Customer

This API is used to create a single customer in the platform.

HTTP URL	
POST	/api/v2/customer/{id}

4.1.1 Eligibility

The Requester is eligible to request to create its own sub-customers only. The Requester is not allowed to create a customer for any other level in the hierarchy.

4.1.2 API Request

Request Structure

Element	Type	M/O/CM	Description
status	String	M	Initial LCP status: ENUM: ACTIVE, SUSPEND
type	String	O	Customer type. ENUM: PRIVATE, BUSINESSDefault = PRIVATE
name	String	O	Business or private name
currency	String	M	Customer's global monetary currency. For example, USD, GBP, EUR
allowOfferDelegation	Boolean	O	<p>Defines whether the Parent permits its customer to attach parent packages or parent plans to customer subscribers.</p> <ul style="list-style-type: none"> True = The parent account (i.e. the customer) can self-attach attach parent packages or plans to child accounts (i.e. subscribers) False = The customer is not allowed to self- attach parent package or plans (Default).
isAllowedImeiLock	Boolean	O	Defines whether the created customer can decide if to enable SIM to device locking.

Element	Type	M/O/CM	Description
			<ul style="list-style-type: none"> ○ True = The customer is allowed to enable SIM to device locking ○ False = The customer is not allowed to enable SIM to device locking (Default).
vatRegistrationNumber	String	O	Tax registration number
logo	String	O	Path to customer logo (company logo) (future feature)
mfaConfiguration	String	O	<p>Defines Multi-Function Authentication (MFA) configuration. ENUM valid values: MANDATORY, ENABLED, DISABLED</p> <ul style="list-style-type: none"> ○ Mandatory – The MFA feature is configured as always turned on. ○ Enabled – The MFA feature is configured as turned on by default but can be turned off. ○ Disabled – The MFA feature is configured as turned off. ○ Default = MANDATORY
contact	Object	O	Customer contact details object.
address	Object	O	Array of customer address details object.
invoiceConfiguration	Object	O	Invoice configuration details object. If not provided, the system will apply the default configuration values.
customFields	Object	O	Placeholder array used for customization purposes (future feature).

Contact data objects

Element	Type	M/O/CM	Description
emailAddress	String	O	Contact email address; validated via Regular Expression
type	String	O	<p>Contact type, whether owner of the customer or a member.</p> <ul style="list-style-type: none"> ○ ENUM: OWNER, MEMBER

Element	Type	M/O/CM	Description
			<ul style="list-style-type: none"> ○ Default = MEMBER
role	String	M	<p>Eligible to enter the self-care application.</p> <ul style="list-style-type: none"> ○ ENUM: SELFCARE, NONE ○ Default = NONE
salutation	String	O	Contact salutation: ENUM: MR, MS
firstName	String	O	Contact first name
middleName	String	O	Contact middle name
lastName	String	O	Contact last name
identity	Object	M	Array of contact identity numbers.
gender	String	O	Contact gender: ENUM: MALE, FEMALE
birthdate	Date	O	Contact date of birth. Format: DDMMYYYY
landlinePhoneNumber	String	CM	CBR, can be reached phone number. Mandatory if mobilePhoneNumber is not provided
mobilePhoneNumber	String	CM	CBR, can be reached phone number. Mandatory if landlinePhoneNumber is not provided. Format is International E.164
additionalPhoneNumber	String	O	Additional phone number where the contact can be reached
picture	String	O	Contact photograph (future feature)
remarks	String	O	General remarks
isPrimary	Boolean	O	<p>Determines whether the contact is primary or not.</p> <ul style="list-style-type: none"> ○ True = Primary contact ○ False = No primary contact ○ Default = False

Identity data objects

Element	Type	M/O/CM	Description
idType	String	M	<p>Identity type:</p> <p>ENUM: ID, PASSPORT, DRIVER_LICENSE</p>

Element	Type	M/O/C M	Description
idNumber	String	M	ID number

Address data objects

Element	Type	M/O/C M	Description
type	String	O	Address type. ENUM: PRIVATE, SHIPPING, MAILING. Default is PRIVATE
street	String	CM	Street name. Mandatory if pobox (postal office box) is not provided
buildingNumber	String	CM	Building number on the street. Mandatory if pobox is not provided
buildingName	String	O	Building name (alias) if it exists
buildingFloor	String	O	Floor number in the building
zipCode	String	M	Zip postal code
apartmentNumber	String	O	Apartment number in the building
entrance	String	O	Entrance identifier. Can be a letter or number
city	String	M	City name
province	String	O	Province name
state	String	O	State name
country	String	M	Country name
pobox	String	CM	Postal Office Box number. Mandatory if street and streetNumber are not provided
salutation	String	O	Address representative salutation. ENUM: MR, MS
fullName	String	M	Representative full name
title	String	O	Address representative title. ENUM: DR, PROF
company	String	O	Company name
emails	String	O	Email address. Validated via Regular Expressions
isPrimary	Boolean	O	<p>Determines whether the contact is primary or not.</p> <ul style="list-style-type: none"> ○ True = Primary contact ○ False = No primary contact ○ Default = False

Invoice Configuration data objects

Element	Type	M/O/CM	Description
deviceCost	Decimal	O	Cost of the chosen active device. Note: No longer in use. Device cost is derived either from the plan's cost or based on the network activity following the account settings.
deliveryMethod	String	O	The requested invoice delivery method. ENUM valid values: EMAIL, POSTAL, EDI
paymentDueAfterInvoiceIssued	Numeric	O	The invoice payment due after some period. The count starts once the invoice is issued.
paymentDueUnits	String	CM	Selected time interval to use in Payment Due After Invoice Issued. ENUM valid values: DAYS. Mandatory if paymentDueAfterInvoiceIssued is provided.
vat	Decimal	O	Fixed tax percentage. <ul style="list-style-type: none"> ○ Range: ○ Minimum:0% ○ Maximum: Unlimited
invoiceText	String	O	Free text shown in the invoice. Maximum size: 60 bytes

Custom fields data objects

Element	Type	M/O/CM	Description
keyName	String	O	Name of the custom element
keyValue	String	O	Custom element value

4.1.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.

Parameter	Type	M/O/C M	Description
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/C CM	Description
requestId	UUID	M	Request instance ID. To be used by external systems to query the call (operation) status: <ul style="list-style-type: none"> ○ In progress ○ Successful ○ Failed
id	UUID	M	New customer universal unique identity
customerid	UUID	M	New customer universal unique identity

Pageable data objects

Element	Type	M/O/C M	Description
page	Numer ic	M	Page number
size	Numer ic	M	Page size. Number of requested elements per page
totalPag es	Numer ic	M	Total amount of available pages per requested page size
totalEle ments	Numer ic	M	Total amount of retrieved elements

4.1.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again

4.1.5 Examples

Request Body

```
{  "status": "ACTIVE",
  "type": "private",
  "name": "Liberty",
  "currency": "USD",
  "allowOfferDelegation": false,
  "isAllowedImeiLock": true,
  "vatRegistrationNumber": "sa102786534",
  "logo": "/images/flolive/flologo.png",
  "mfaConfiguration": "DISABLED",
  "contact": {"contact": {
    "emailAddress": "shaul.cohen@flolive.net",
    "type": "OWNER",
    "role": "NONE",
    "salutation": "MR",
    "firstName": "Shaul",
    "middleName": "",
    "lastName": "Cohen",
    "identity": [
      {
        "idType": "passport",
        "idNumber": "123456789"
      },
      {
        "idType": "nationalId",
        "idNumber": "987654321"
      }
    ]
  }
},
```



```
"gender": "MALE",
"birthdate": "28122000",
"landlinePhoneNumber": "",
"mobilePhoneNumber": "972542265160",
"additionalPhoneNumber": "",
"picture": "",
"remarks": "",
"isPrimary": true
},
"address": [
  {
    "type": "private",
    "street": "sixth avenue",
    "buildingNumber": "987",
    "buildingName": "Concord",
    "buildingFloor": "1",
    "zipCode": "123456",
    "apartmentNumber": "14",
    "entrance": "1",
    "city": "Chicago",
    "province": "",
    "state": "Illinois",
    "country": "USA",
    "pobox": "",
    "salutation": "MR",
    "fullName": "Jack Coban",
    "title": "DR",
    "company": "Company",
    "emailAddress": "jackcoban@company.com",
```

```
        "isPrimary": true
    },
    {
        "type": "mailing",
        "street": "fifth avenue",
        "buildingNumber": "234",
        "buildingName": "Concord",
        "buildingFloor": "12",
        "zipCode": "123456",
        "apartmentNumber": "14",
        "city": "New York",
        "province": "",
        "state": "New York",
        "country": "USA",
        "pobox": "",
        "salutation": "MR",
        "fullName": "John Levis",
        "title": "PROF",
        "company": "Company",
        "emailAddress": "johnlevis@company.com",
        "isPrimary": false
    }
],
"invoiceConfiguration": {
    "deviceCost": "",
    "deliveryMethod": "EMAIL",
    "paymentDueAfterInvoiceIssued": 15,
    "paymentDueUnits": "DAYS",
    "vat": 8.5,
```

```
    "invoiceText": "free text"
  },
  "customFields": [
    {
      "keyName": "custom-property1",
      "keyValue": "custom-value"
    },
    {
      "keyName": "custom-property2",
      "keyValue": "custom-value"
    }
  ]
}
```

Response Body: Success ACK

```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
      "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370",
      "id": "e7fcef24-5c03-41dd-9e33-995b7d6f46b6",
      "customerid": "e7fcef24-5c03-41dd-9e33-995b7d6f46b6"
    }
  ],
  "pageable": {
    "page": 0,
    "size": 10,
  }
}
```

```

    "totalPages": 1,
    "totalElements": 1
  }
}

```

Response Body: Failure NAK

```

{
  "errorCode": "GLOBAL_1001",
  "errorMessage": "Service unavailable. Please try again",
  "content": "",
  "pageable": ""
}

```

4.2 Delete Customer

This API is used to permanently delete (deactivate) a customer from the system. Deactivation is done as a soft deletion procedure. A customer cannot be deleted if at least one sub-account or one (regular) subscriber is connected to it. Therefore, all that customer's sub-accounts must be deleted, and all subscribers must be moved as prerequisites to deleting it. After deletion, the customer cannot be recovered.

NOTE: You cannot delete a customer with a Root UUID; the function is denied.

HTTP URL	
DELETE	/api/v2/customer/{id}

4.2.1 Eligibility

The Requester is eligible to delete (deactivate) only their own customers.

4.2.2 API Request

This API has no request structure.

4.2.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
requestId	UUID	M	<p>Request instance ID.</p> <p>To be used by external systems to query the call (operation) status:</p> <ul style="list-style-type: none"> ○ In progress ○ Successful ○ Failed.

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

4.2.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
CUSTOMER_1000	Root customer cannot be deleted
CUSTOMER_1002	Customer does not exist
CUSTOMER_1004	Failed to delete customer
CUSTOMER_1009	Customer has siblings and cannot be deleted
GLOBAL_1001	Service unavailable. Please try again

4.2.5 Examples

Request Body

```
{  
}
```

Response Body: Success ACK

```
{  
  "errorCode": "",  
  "errorMessage": "",  
  "content": [  
    {  
      "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370"  
    }  
  ],  
  "pageable": {  
    "page": 0,  
    "size": 10,  
    "totalPages": 1,  
    "totalElements": 1  
  }  
}
```

```

    }
  }

```

Response Body: Failure NAK

```

{
  "errorCode": "CUSTOMER_1004",
  "errorMessage": "Failed to delete customer",
  "content": "",
  "pageable": ""
}

```

4.3 Lock Customer Devices

Lock Customer Devices API is used to enable and disable locking SIM to device feature for its own account's subscribers (not his sub-accounts' subscribers). Turning on or off this feature is done on the account level.

HTTP URL	
POST	api/v2/customer/{id}/device-sim-lock

4.3.1 Eligibility

The Requestor can enable or disable this feature for its own account (customer's subscribers only).

4.3.2 API Request

Request Structure

Element	Type	M/O/C M	Description
lockSimToDevice	boolean	M	<p>Enable or disable lock SIM to device feature for the customer itself.</p> <ul style="list-style-type: none"> ○ True – Enable the SIM Lock to Device feature.

Element	Type	M/O/C M	Description
			<ul style="list-style-type: none"> False – Disable the SIM Lock to Device feature.

4.3.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code. See list in 'Error Codes' section
errorMessage	String	O	Failure detailed description. See list in 'Error Codes' section
content	Object	O	Array of main response body object. Displayed when an API call was successful. For a failure it will be empty.
pageable	Object	O	Paging information object. Displayed when an API call was successful. For a failure it will be empty.

Content data objects

Element	Type	M/O/C M	Description
requestId	UUID	M	Request instance ID. To be used by external systems to query the call (operation) status, whether in progress, successful or failed.

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

4.3.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again

4.3.5 Examples

Request Body

```
{
  "lockSimToDevice": true,
}
```

Response Body: Success ACK

```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
      "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370"
    }
  ],
  "pageable": {
    "page": 0,
    "size": 10,
    "totalPages": 1,
    "totalElements": 1
  }
}
```

Response Body: Failure NAK

```
{
  "errorCode": "GLOBAL_1001",
  "errorMessage": "Service unavailable. Please try again",
  "content": "",
  "pageable": ""
}
```

4.4 Get Customer Push Notifications

Get Customer Push Notifications API is used to retrieve customer related notifications of various types.

HTTP URL	
GET	api/v2/customer/{id}/notification

NOTE: Customer {id} is the requesting customer (owner_account_id in database).

4.4.1 Eligibility

The Requestor is eligible to request and receive a list of his own customer notifications or his sub-customer's notifications.

4.4.2 Query Parameters

Parameter	Type	M/O/C M	Description
fromDate	Date	M	Starting date of notification retrieval. Format: yyyy-MM-dd. Must occur at least one day before current date
channelNotificationType	String	M	The channel notification type. ENUM valid values: EMAIL, HTTP

4.4.3 Search Parameters (RSQL)

Parameter	Type	M/O/C M	Description
toDate	String	O	Ending date of notification retrieval. Format: yyyy-MM-dd. If empty, then current date [TODAY()] is considered.
customerId	UUID	O	The account notifications were addressed for. If sent empty retrieve any of the requestor's (customer) notifications including all sub-accounts
deliveryStatus	String	O	Notification delivery status. ENUM valid values: SUCCESS, FAILURE. If sent empty retrieve both SUCCESS and FAILURE delivery statuses
ruleType	String	O	Defines the requested rule type. If sent empty retrieve any rule type
fromIccid	String	O	Defines the requested notifications sent to an individual SIM or the first SIM in range to fetch by. If sent empty ignore "tolccid" and retrieve any SIM
tolccid	String	O	Defines the last SIM requested notifications sent to a range of SIM cards. If sent empty, refer to "fromIccid" attribute. In such a case there is no range to fetch by. If populated, it defines the last ICCID value

EXAMPLE:

api/v2/customer/{id}/notification?fromDate=20231231&channelNotificationType=EMAIL&search=toDate==20231230;customerId==5ba39f3b-29d2-43ba-948e-0b7103ed0740;deliveryStatus==FAILURE;ruleType==FirstEventAccount;fromIccid==555550;tolccid==555552. You need to add apostrophes for white space text

4.4.4 Request Structure

Not applicable.

NOTE: Validate correctness of various input parameters such as whether ICCID belongs to a given customer etc.

4.4.5 Response Structure

Parameter	Type	M/O/ CM	Description
errorCode	String	O	Failure code. See list below, under 'Error Codes' section
errorMessage	String	O	Failure detailed description. See list below, under 'Error Codes' section
content	Object	O	Array of main response body object. Displayed when an API call was successful. For a failure it will be empty.
pageable	Object	O	Paging information object. Displayed when an API call was successful. For a failure it will be empty.

Content

Parameter	Type	M/O/C M	Description
iccid	String	O	SIM card serial number receiving the push notification
message	String	O	Message content
deliveryStatus	String	M	Notification delivery status. ENUM valid values: SUCCESS, FAILURE.
customerId	UUID	M	Indicates the customer ID which the notification was sent to.
customerName	String	M	Indicates the customer name which the notification was sent to.
ruleType	String	O	Indicates the requested rule type (action name)
channelNotificationType	String	M	Indicates the channel notification type. ENUM valid values: EMAIL, HTTP
creationTime	Date Time	M	Notification creation date and time
sentTime	Date Time	O	Last notification send attempt date and time

Pageable

Parameter	Type	M/O/C M	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements.

4.4.6 Error Codes

In addition to the general success and failure codes, the following error codes are possible:

Element	Description
CUSTOMER_1002	Customer does not exist
CUSTOMER_1006	Failed to retrieve customer details
GLOBAL_1001	Service unavailable. Please try again

4.4.7 Examples

Response Body - Success ACK

[illegible]

```
"failureReason": "Missing Notification Owner Account Path",

    "customerId": "e7fcef24-5c03-41dd-9e33-995b7d6f47a7",

    "customerName": "Gualas LTD.",

    "ruleType": "FirstEventAccount",

    "channelNotificationType": "HTTP",

    "creationTime": "2023-10-10T09:06:22",

    "sentTime": "2023-11-09T18:37:07"

},

{

    "iccid": "8935711001000031146",

    "message": "<p>Welcome to floLIVE!<br>As a new user, we ask you to define your password, as follows:<br>Note that your username is your email address: test_bff@mail.com<br>To define your password:<br>1. Click this link: <a href=http://flo-keycloak.solid.flolive.int/auth/realms/flo-realm/login-actions/action-token?key=eyJhbGciOiJIUzI1NiIsInR5cCIgOiAiSldUIiwia2lkIiA6ICI4NzlmN2I0Yy1hZjU3LTQ4Y2ItYTc2Mi1kY2EwOWU0YzQwMDUifQ.eyJleHAiOjE2OTk4NjUzNDIsImVudC0MTY5OTgyMjE0MiwiYW9jaHR0cDovL2Zsby1rZX1jbG9hay5zb2xpZC5mbG9saXZlLmludC9hdXRoL3JlYWxtcy9mbG8tcmlvbmhG0iLCJhdWQiOiJodHRwOi8vZmxvLWtleWNSb2FrLnNvbGlkLmZsb2xpdmdUuaW50L2F1dGgvcmVhbG1zL2Zsby1yZWZsbSI6InRlc3RfYmZmQG1haWwuY29tIiwicnFhYyI6WyJWRVJJRllfRU1BSUwiXSicnFhYyI6WyJWRVJJRllfRU1BSUwiXX0.urxNTY2q1IBikOdaqDKNGRemOWNktB0VTTH_avtDEh4>Link to account update</a><br>This link will expire within 12 hours. <br>2. Log in at https://floportal.flolive.net <br>If you do not succeed, contact floLIVE Customer Service at this email address: support@flolive.net<br>Thank you.<br>Best Regards,<br>The floLIVE Team</p>",

    "deliveryStatus": "FAILURE",

    "failureReason": "Missing Notification Owner Account Path",

    "customerId": "e7fcef24-5c03-41dd-9e33-995b7d6f32b1",

    "customerName": "Niadent LTD.",

    "ruleType": "FirstEventAccount",
```

```
        "channelNotificationType": "HTTP",
        "creationTime": "2023-11-05T13:16:48",
        "sentTime": "2023-12-05T13:29:49"
    }
],
"pageable": {
    "page": 1,
    "size": 10,
    "totalPages": 1,
    "totalElements": 2
}
}
```

Response Body: Failure NAK

```
{
    "errorCode": "CUSTOMER_1006",
    "errorMessage": "Failed to retrieve customer details",
    "content": "",
    "pageable": ""
}
```

4.5 Get Customer Details

This API is used to retrieve the details of a single customer. It also retrieves information on the customer's connected subscribers. However, it does not provide information on the customer's child customers.

HTTP URL	
GET	/api/v2/customer/{id}

4.5.1 Eligibility

The Requester is eligible to request and receive information on own customer or sub-customers.

4.5.2 API Request

Request Structure

This API has no request structure.

4.5.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content Data Objects

Element	Type	M/O/CM	Description
customerId	UUID	M	Universally unique customer identifier
status	String	M	LCP status of the customer
type	String	O	Customer type. For example, Private
name	String	O	Business or private name
currency	String	M	Customer's global monetary currency. For example, USD, GBP, EUR
allowOfferDelegation	Boolean	M	Defines whether the Parent permits its customer to self-attach parent packages or plans to customer subscribers.

Element	Type	M/O/C M	Description
			<ul style="list-style-type: none"> ○ True = The customer is allowed to self-attach parent packages or plans to its own subscribers ○ False = The customer is not allowed to self-attach parent plans.
isAllowedI meiLock	Boole an M	Boole an M	<p>Defines whether the customer is allowed by his parent to enable SIM to device locking.</p> <ul style="list-style-type: none"> ○ True = The customer is allowed to enable SIM to device locking ○ False = The customer is not allowed to enable SIM to device locking.
islmeiLockE nabled	Boole an M	Boole an M	<p>Defines whether the customer enabled SIM to device locking for his subscribers.</p> <ul style="list-style-type: none"> ○ True = The customer has enabled SIM to device locking ○ False = The customer did not enable SIM to device locking
currency	String M	String M	Customer's global monetary currency e.g., USD, GBP, EUR
companyNu mber	String	O	Company ID
vatRegistrat ionNumber	String	O	Tax registration number
bankNumb er	String	O	Bank ID
bankBranch Number	String	O	Bank branch ID
bankAccou ntNumber	String	O	Bank account number of the paying entity
tagging	String	O	Customer classification. For example, VIP, Gold, Silver, Green, Red
billCyclePer iod	String	O	Bill cycle period ID. ENUM: MONTHLY, WEEKLY, DAILY
mfaConfigu ration	String	M	Multi-Function Authentication (MFA) configuration. ENUM valid values: MANDATORY, ENABLED, DISABLED

Element	Type	M/O/C M	Description
			<ul style="list-style-type: none"> ○ Mandatory – The MFA feature is configured as always turned on. Account users cannot decide to skip it. ○ Enabled – The MFA feature is configured as turned on by default but can be turned off by the account users. ○ Disabled – The MFA feature is configured as always turned off.
invoiceTemplateId	String	O	Invoice template ID
package	Object		Array of package object. Empty if 'offer' object is populated.
offer	Object	O	Array of offers object(excluding the basic offer).
contact	Object	O	Array of contact details object.
address	Object	O	Array of address details object.
invoiceConfiguration	Object	O	Invoice configuration details object.
campaign	Numeric	O	Array of customer related campaign IDs. An empty array means that the customer has no connected campaigns.
customFields	Object	O	Placeholder array used for customization purposes (future feature).

Package

Element	Type	M/O/CM	Description
id	UUID	M	Catalog package ID
name	String	M	Package Name
nestedOfferIds	UUID	O	Array of nested offer IDs which are included in the package.

Offer

Element	Type	M/O/CM	Description
id	UUID	M	Plan ID (Individual Offer or Pool Plan Offer ID)
name	String	O	Plan Name (Individual Offer or Pool Plan Offer Name)
linkedOfferIds	UUID	O	Array of linked offer IDs that are assigned to this offer. An empty array means that there is no offer linked to this offer.

Contact Details Data Objects

Element	Type	M/O/CM	Description
id	UUID	M	Contact ID
emailAddress	String	O	Contact email address
type	String	O	Contact type, whether owner of the customer or a member. ENUM: OWNER, MEMBER
role	String	M	Eligible to enter the self-care application. ENUM: SELF CARE, NONE
salutation	String	O	Contact salutation. ENUM: MR, MS
firstName	String	O	Contact first name
middleName	String	O	Contact middle name
lastName	String	O	Contact last name
identity	Object	M	Array of contact identity numbers.
gender	String	O	Contact gender. ENUM: MALE, FEMALE
birthdate	Date	O	Contact date of birth. Format: DDMMYYYY
landlinePhoneNumber	String	CM	CBR, can be reached phone number. Mandatory if mobilePhoneNumber is not provided
mobilePhoneNumber	String	CM	CBR, can be reached phone number. Mandatory if landlinePhoneNumber is not provided. Format: International E.164
additionalPhoneNumber	String	O	Additional phone number where the contact can be reached
picture	String	O	Contact photograph (future feature)
remarks	String	O	General remarks
isPrimary	Boolean	O	Determines whether the contact is primary or not. <ul style="list-style-type: none"> ○ True = Primary contact

Element	Type	M/O/C M	Description
			○ False = No primary contact

Identity data objects

Element	Type	M/O/C M	Description
idType	String	M	Identity type: ENUM: ID, PASSPORT, DRIVER_LICENSE
idNumber	String	M	ID number

Address details data objects

Element	Type	M/O/ CM	Description
id	UUID	M	Address ID
type	String	M	Address type. ENUM: PRIVATE, SHIPPING, MAILING
street	String	CM	Street name. Mandatory if pobox (postal office box) is not provided
buildingNumber	String	CM	Building number on the street. Mandatory if pobox is not provided
buildingName	String	O	Building name (alias) if it exists
buildingFloor	String	O	Floor number in the building
zipCode	String	O	Zip postal code
apartmentNumber	String	O	Apartment number in the building
entrance	String	O	Entrance identifier. Can be a letter or number
city	String	O	City name
province	String	O	Province name
state	String	O	State name

Element	Type	M/O/CM	Description
country	String	O	Country name
pobox	String	CM	Postal Office Box number. Mandatory if street and streetNumber are not provided
salutation	String	O	Address representative salutation. ENUM: MR, MS
fullName	String	O	Representative full name
title	String	O	Address representative title. ENUM: DR, PROF
company	String	O	Company name
emailAddress	String	O	Email address. Validated via Regular Expression
isPrimary	Boolean	M	<p>Determines whether the contact is primary or not.</p> <ul style="list-style-type: none"> ○ True = Primary contact ○ False = No primary contact

Invoice configuration data objects

Element	Type	M/O/CM	Description
chargeByActive	String	O	<p>Activation definition either by SIM (ICCID) or IMSI. ENUM valid values: SIM, IMSI</p> <p>Note: This attribute no longer determines the charging method but the activation method.</p>
activityIndication	String	M	DWH event mapping. ENUM: NETWORK_REGISTRATION, DATA_CONSUMPTION
deviceCost	Decimal	M	Cost of the chosen active device
deviceCostCurrency	String	M	<p>Device cost monetary currency, for example, USD, GBP, EUR</p> <p>Note: No longer in use. Although marked as mandatory will not be populated. Device cost is derived either from the plan's cost or based on the network activity following the account settings.</p>

Element	Type	M/O/C M	Description
deliveryMethod	String	O	The requested invoice delivery method. ENUM: EMAIL, POSTAL, EDI
paymentDueAfterInvoiceIssued	Numeric	M	The invoice payment due after some period. The count starts once the invoice is issued.
paymentDueUnits	String	M	Selected time interval to use in Payment Due After Invoice Issued. ENUM: DAYS
vat	Decimal	O	Fixed tax percentage. <ul style="list-style-type: none"> ○ Range: ○ Minimum: 0% ○ Maximum: Unlimited
invoiceText	String	O	Free text shown in the invoice. Maximum size: 60 bytes

Custom fields data objects (future feature)

Element	Type	M/O/C M	Description
keyName	String	O	Name of the custom element
keyValue	String	O	Custom element value

Pageable data objects

Element	Type	M/O/C M	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

4.5.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
CUSTOMER_1002	Customer does not exist
CUSTOMER_1006	Failed to retrieve customer details

4.5.5 Examples

Request Body

```
{  
}
```

Response Body: Success ACK

```
{  
  "errorCode": "",  
  "errorMessage": "",  
  "content": [  
    {  
      "customerId": "e7fcef24-5c03-41dd-9e33-995b7d6f47b5",  
      "status": "ACTIVE",  
      "type": "PRIVATE",  
      "name": "Liberty",  
      "allowOfferDelegation": false,  
      "isAllowedImeiLock": true,  
      "isImeiLockEnabled": false,  
      "currency": "USD",  
      "companyNumber": "111987543",  
      "vatRegistrationNumber": "sa102786534",  
      "bankNumber": "21",  
    }  
  ]  
}
```

```
"bankBranchNumber": "680",
"bankAccountNumber": "722910",
"tagging": "VIP",
"billCyclePeriod": "MONTHLY",
"invoiceTemplateId": "3",
"mfaConfiguration": "MANDATORY",
"package": [],
"offer": [
  {
    "id": "e7fcef24-5c03-41dd-9e33-995b7d6f47a7",
    "name": "Plan A",
    "linkedOfferIds": [
      "d7ecef34-5b23-21ae-9e53-905a7d6d43a8",
      "e1eceff4-5c13-29ee-1d53-901a7a3b13a0"
    ]
  },
  {
    "id": "e7fcef24-5c03-41dd-9e33-995b7d6f47b8",
    "name": "Plan B",
    "linkedOfferIds": null
  }
],
"contact": [
  {
    "emailAddress": "shaul.cohen@fllolive.net",
    "type": "OWNER",
    "role": "NONE",
    "salutation": "MR",
    "firstName": "Shaul",
```



```
    "middleName": "",
    "lastName": "Cohen",
    "identity": [
      {
        "idType": "PASSPORT",
        "idNumber": "123456789"
      },
      {
        "idType": "NATIONAL_ID",
        "idNumber": "987654321"
      }
    ],
    "gender": "MALE",
    "birthdate": "28122000",
    "landlinePhoneNumber": "",
    "mobilePhoneNumber": "972542265160",
    "additionalPhoneNumber": "",
    "picture": "",
    "remarks": "",
    "isPrimary": true
  },
  "address": [
    {
      "type": "PRIVATE",
      "street": "sixth avenue",
      "buildingNumber": "987",
      "buildingName": "Concord",
      "buildingFloor": "1",
```

```
"zipCode": "123456",  
"apartmentNumber": "14",  
"entrance": "A",  
"city": "Chicago",  
"province": "",  
"state": "Illinois",  
"country": "USA",  
"pobox": "",  
"salutation": "",  
"fullName": "",  
"title": "",  
"company": "",  
"emailAddress": "",  
"isPrimary": true  
},  
{  
  "type": "MAILING",  
  "street": "fifth avenue",  
  "buildingNumber": "234",  
  "buildingName": "Concord",  
  "buildingFloor": "12",  
  "zipCode": "123456",  
  "apartmentNumber": "14",  
  "entrance": "A",  
  "city": "New York",  
  "province": "",  
  "state": "New York",  
  "country": "USA",  
  "pobox": "",
```

```
        "salutation": "",
        "fullName": "",
        "title": "",
        "company": "",
        "emailAddress": "",
        "isPrimary": false
    }
],
"invoiceConfiguration": {
    "chargeByActive": "SIM",
    "activityIndication": "NETWORK_REGISTRATION",
    "deviceCost": 20.5,
    "deviceCostCurrency": "",
    "deliveryMethod": "EMAIL",
    "paymentDueAfterInvoiceIssued": 5,
    "paymentDueUntis": "DAYS",
    "vat": 15.5,
    "invoiceText": ""
},
"campaign": [
    67,
    524
],
"customFields": [
    {
        "keyName": "custom-property1",
        "keyValue": "custom-value"
    },
    {
```

```
        "keyName": "custom-property2",
        "keyValue": "custom-value"
      }
    ]
  },
  ],
  "pageable": {
    "page": 0,
    "size": 10,
    "totalPages": 1,
    "totalElements": 1
  }
}
```

Response Body: Failure NAK

```
{
  "errorCode": "CUSTOMER_1006",
  "errorMessage": "Failed to retrieve customer details",
  "content": "",
  "pageable": ""
}
```

4.6 Modify Customer Details

This API is used to update the details of a single customer. The request should contain only those elements that require modification. Empty elements denote the overriding of the existing value with a NULL value.

HTTP URL	
PATCH	/api/v2/customer/{id}

4.6.1 Eligibility

The Requester is eligible to request modifications on sub-customers' information. The Requester is not eligible to request modifications on its own profile.

4.6.2 API Request

Request Structure

Element	Type	M/O/CM	Description
type	String	O	Customer type. For example, Private
name	String	O	Business or private name
allowOfferDelegation	Boolean	O	<p>Defines whether the customer is allowed by the parent customer to attach parent packages or parent plans to his subscribers.</p> <ul style="list-style-type: none"> True = The customer is allowed to self-attach parent customer packages or plans to its own subscribers. False = The customer is not allowed to self-attach parent customer packages or plans.
isAllowedImeiLock	Boolean	O	
vatRegistrationNumber	String	O	Tax registration number
contact	Object	O	Customer contact details object.
address	Object	O	Array of customer address details object.
invoiceConfiguration	Object	O	Invoice configuration details object. If not provided, the system will apply the default configuration values.
campaign	Numeric	O	Array of customer related campaign IDs.
customFields	Object	O	Placeholder array used for customization purposes (future feature).
mfaConfiguration	String	O	<p>Defines whether to change Multi-Function Authentication (MFA) configuration for his users. ENUM valid values: MANDATORY, ENABLED, DISABLED</p> <ul style="list-style-type: none"> Mandatory – The MFA feature is configured as always turned on.

Element	Type	M/O/CM	Description
			<ul style="list-style-type: none"> ○ Enabled – The MFA feature is configured as turned on by default but can be turned off. ○ Disabled – The MFA feature is configured as always turned off.

Contact Data objects

Element	Type	M/O/CM	Description
id	UUID	M	Contact ID
emailAddress	String	O	Email address; validated via Regular Expression
type	String	O	Contact type, whether owner of the customer or a member. ENUM: OWNER, MEMBER
role	String	M	Eligible to enter the self-care application. ENUM: SELF CARE, NONE
salutation	String	O	Contact salutation. ENUM: MR, MS
firstName	String	O	Contact first name
middleName	String	O	Contact middle name
lastName	String	O	Contact last name
identity	Object	O	Array of contact identity numbers.
gender	String	O	Contact gender. ENUM: MALE, FEMALE
birthdate	Date	O	Contact date of birth. Format: DDMMYYYY
landlinePhoneNumber	String	O	CBR, can be reached phone number. Mandatory if mobilePhoneNumber is not provided
mobilePhoneNumber	String	O	CBR, can be reached phone number. Mandatory if landlinePhoneNumber is not provided. Format: International E.164
additionalPhoneNumber	String	O	Additional phone number where the contact can be reached
picture	String	O	Contact photograph (future feature)
remarks	String	O	General remarks
isPrimary	Boolean	O	<p>Determines whether the contact is primary or not.</p> <ul style="list-style-type: none"> ○ True = Primary contact ○ False = No primary contact

Identity data objects

Element	Type	M/O/C M	Description
idType	String	O	Identity type: ENUM: ID, PASSPORT, DRIVER_LICENSE
idNumber	String	O	ID number

Address data objects

Element	Type	M/O/C M	Description
id	UID	M	Address ID
type	String	O	Address type. ENUM: PRIVATE, SHIPPING, MAILING
street	String	O	Street name
buildingNumber	String	O	Building number on the street
buildingName	String	O	Building name (alias) if it exists
buildingFloor	String	O	Floor number in the building
zipCode	String	O	Zip postal code
apartmentNumber	String	O	Apartment number in the building
entrance	String	O	Entrance identifier. Can be a letter or number
city	String	O	City name
province	String	O	Province name
state	String	O	State name
country	String	O	Country name
pobox	String	O	Postal Office Box number
salutation	String	O	Address representative salutation. ENUM: MR, MS

Element	Type	M/O/C M	Description
fullName	String	O	Representative full name
title	String	O	Address representative title. ENUM: DR, PROF
company	String	O	Company name
emailAddress	String	O	Email address. Validated via Regular Expression
isPrimary	Boolean	O	<p>Determines whether the contact is primary or not.</p> <ul style="list-style-type: none"> ○ True = Primary contact ○ False = No primary contact

Invoice configuration data objects

Element	Type	M/O/CM	Description
chargeByActive	String	O	Charge by SIM (ICCID) or IMSI. ENUM: SIM, IMSI
activityIndication	String	O	DWH event mapping. ENUM: NETWORK_REGISTRATION, DATA_CONSUMPTION
deviceCost	Decimal	O	Cost of the chosen active device
deliveryMethod	String	O	The requested invoice delivery method. ENUM: EMAIL, POSTAL, EDI
paymentDueAfterInvoiceIssued	Numeric	O	The invoice payment due after some period. The count starts once the invoice is issued.
paymentDueUnits	String	CM	Selected time interval to use in Payment Due After Invoice Issued. ENUM: DAYS. Mandatory if paymentDueAfterInvoiceIssued is provided.
vat	Decimal	O	<p>Fixed tax percentage.</p> <ul style="list-style-type: none"> ○ Range: ○ Minimum: 0% ○ Maximum: Unlimited
invoiceText	String	O	Free text shown in the invoice. Maximum size: 60 bytes

Custom fields data objects (Not available in current release)

Element	Type	M/O/CM	Description
keyName	String	O	Name of the custom element
keyValue	String	O	Custom element value

4.6.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content Data Objects

Element	Type	M/O/CM	Description
requestId	UUID	M	<p>Request instance ID.</p> <p>To be used by external systems to query the call (operation) status:</p> <ul style="list-style-type: none"> ○ In progress ○ Successful ○ Failed

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

4.6.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
CUSTOMER_1002	Customer does not exist
CUSTOMER_1003	Failed to update customer details

4.6.5 Examples

Request Body

```
{
  "name": "Volvo"
}
```

Response Body: Success ACK:

```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
```

```
{
  "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370"
},
{
  "pageable": {
    "page": 0,
    "size": 10,
    "totalPages": 1,
    "totalElements": 1
  }
}
```

Response Body: Failure NAK

```
{
  "errorCode": "GLOBAL_1001",
  "errorMessage": "Service unavailable. Please try again",
  "content": "",
  "pageable": ""
}
```

4.7 Get Customer Children

This API is used to retrieve a list of all child customers that are attached to their parent customer. The result set includes a single level of hierarchy.

HTTP URL	
GET	/api/v2/customer/{id}/child-customers

4.7.1 Eligibility

The Requester is eligible to request and receive a list of own sub-customers. The Requester is not allowed to receive the list of sub-customer's children.

4.7.2 API Request

This API has no request structure.

4.7.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
customerID	String	O	Customer unique identifier (UUID)
customerName	String	O	Customer name

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

4.7.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
CUSTOMER_1002	Customer does not exist
CUSTOMER_1006	Failed to retrieve customer details
GLOBAL_1001	Service unavailable. Please try again

4.7.5 Examples

Request Body

```
{  
}
```

Response Body: Success ACK

```
{  
  "errorCode": "",  
  "errorMessage": "",  
  "content": [  
    {  
      "customerId": "e7fcef24-5c03-41dd-9e33-995b7d6f47b5",  
      "customerName": "Customer A"  
    },  
    {  
      "customerId": "e7fcef24-5c03-41dd-9e33-995b7d6f47a7",  
      "customerName": "Customer B"  
    },  
    {  
      "customerId": "e7fcef24-5c03-41dd-9e33-995b7d6f42a7",  
      "customerName": "Customer C"  
    },  
  ],  
}
```

```
{
  "customerId": "e7fcef24-5c03-41dd-9e33-995b7d6f47a0",
  "customerName": "Customer D"
},
{
  "customerId": "e7fcef24-5c03-41dd-9e33-995b7d6f44a7",
  "customerName": "Customer E"
},
{
  "customerId": "e7fcef24-5c03-41dd-9e33-995b7d6f45a7",
  "customerName": "Customer F"
},
{
  "customerId": "e7fcef24-5c03-41dd-9e33-995b7d6f47c3",
  "customerName": "Customer G"
},
{
  "customerId": "e7fcef24-5c03-41dd-9e33-995b7d6f47e2",
  "customerName": "Customer H"
},
{
  "customerId": "e7fcef24-5c03-41dd-9e33-995b7d6f47d5",
  "customerName": "Customer I"
},
{
```

```
        "customerId": "e7fcef24-5c03-41dd-9e33-995b7d6f47a4",
        "customerName": "Customer J"
    }
],
"pageable": {
    "page": 1,
    "size": 10,
    "totalPages": 99,
    "totalElements": 988
}
```

Response Body: Failure NAK

```
{
    "errorCode": "CUSTOMER_1006",
    "errorMessage": "Failed to retrieve customer details",
    "content": "",
    "pageable": ""
}
```

4.8 Get Customer Subscribers

This API is used to retrieve a list of all subscribers attached to their parent customer. Result set includes a single level of hierarchy.

HTTP URL	
GET	/api/v2/customer/{id}/subscriber

4.8.1 Eligibility

The Requester is eligible to request and receive a list of own subscribers and own sub-customer subscribers.

4.8.2 API Request

This API has no request structure.

4.8.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty. .
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
subscriberId	UUID	M	Subscriber Universal Unique ID
imsiMsisdnPairs	Object	M	Array of IMSI and MSISDN pairs object; only one can be marked as active (at the most).
iccid	String	M	SIM card serial number
status	String	M	Initial LCP status. ENUM: ACTIVE, SUSPEND
imei	String	O	Device ID registered on the subscriber
imeisv	String	O	Device ID including software version registered on the subscriber
customerId	UUID	O	Indicates the customer ID that the subscriber is connected to.
customerName	String	O	Indicates the customer name that the subscriber is connected to.

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

imsiMsisdnPairs objects

Element	Type	M/O/CM	Description
imsi	String	M	IMSI registered on the SIM card
msisdn	String	O	Subscriber mobile number: MSISDN. Format: International E.164
isLastActive	Boolean	M	<p>Last known IMSI as active indication; only one can be active at a time.</p> <ul style="list-style-type: none"> ○ True = Last Active IMSI ○ False = Inactive IMSI

4.8.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
CUSTOMER_1002	Customer does not exist
CUSTOMER_1006	Failed to retrieve customer details
GLOBAL_1001	Service unavailable. Please try again

4.8.5 Examples

Request Body

```
{
}
```

Response Body: Success ACK

```

{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
      "subscriberId": "e7fcef24-5c03-41dd-9e33-995b7d6f47a7",
      "imsiMsisdnPairs": [
        {
          "imsi": "222013090961859",
          "msisdn": "999013090961859",
          "isLastActive": true
        },
        {
          "imsi": "310380501118337",
          "msisdn": "134044411258337",
          "isLastActive": false
        }
      ],
      "iccid": "8935711001000034535",
      "status": "ACTIVE",
      "imei": "354306110218529",
      "imeisv": "3543061102185201",
      "customerId": "3bd92beb-0367-4e68-b50d-72c0fb08beab",
      "customerName": "Gualas LTD"
    },
    {
      "subscriberId": "e7fcef24-5c03-41dd-9e33-995b7d6f32b1",
      "imsiMsisdnPairs": [
        {

```

```
        "imsi": "222013090961859",
        "msisdn": "999013090961859",
        "isLastActive": true
    },
    {
        "imsi": "310380501118337",
        "msisdn": "134044411258337",
        "isLastActive": false
    }
],
"iccid": "8935711001000034536",
"status": "ACTIVE",
"imei": "354306110218530",
"imeisv": "3543061102185301"
"customerId": "3bd92beb-0367-4e68-b50d-72c0fb08beab",
"customerName": "Gualas LTD"
}
],
"pageable": {
    "page": 1,
    "size": 10,
    "totalPages": 1,
    "totalElements": 2
}
}
```

Response Body: Failure NAK:

```
{
```

```

    "errorCode": "CUSTOMER_1006",
    "errorMessage": "Failed to retrieve customer details",
    "content": "",
    "pageable": ""
  }

```

4.9 Get All Customer Subscribers

This API is used to retrieve, in chunks, a full list of all subscribers that are attached to their customer, regardless of how many there are. The result set includes a single level of account hierarchy. This API should be used when there is a need to retrieve more than 10K records in a single query.

NOTE: This API does not support pagination.

HTTP URL	
POST	/api/v2/customer/{id}/subscriber-all

4.9.1 Eligibility

The Requester is eligible to request and receive a list of own subscribers and sub-customer's subscribers.

4.9.2 API Request

Request Structure

Element	Type	M/O/CM	Description
pitId	String	O	<p>Point in Time identity used to identify a fetching process. User should do the following process:</p> <ol style="list-style-type: none"> 1. Send this element empty in the first API call. 2. Parse the pitId from the response. 3. Populate this element in any other request.

Element	Type	M/O/CM	Description
			If sent empty, a new search and a new pitId will be created.
pitKeepAlive	Numeric	O	<p>Determines the max duration of a fetching session, in minutes. If this time is exceeded, the fetching process is terminated. This element is mandatory in the first API call when the pitId is sent blank (see pitId). If pitId is sent populated, pitKeepAlive will be ignored. If pitId is sent empty and pitKeepAlive is empty as well, the system applies the default value of 1 (minute).</p> <ul style="list-style-type: none"> Unit: Minutes Range: Maximum 30 Example: 5
size	Numeric	O	<p>Response record amount, which is the number of requested records per API call.</p> <ul style="list-style-type: none"> Unit: Number of records Range: 1-10,000 Default (if not sent) = 1,000 <p>Example: 1000 (1,000 records per API call within the pitId session)</p>

4.9.3 API Response

Response Structure

Element	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pitId	String	M	Point in Time identity used to identify a fetching process session. User should do the following process:

Element	Type	M/O/CM	Description
			<ol style="list-style-type: none"> 1. Parse this element. 2. Populate the value in any other request relevant to the current session.
recordAmount	Numeric	M	Number of records in current chunk (response)
totalRecordAmount	Numeric	M	Total amount of records in query
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty (not supported for this API). The object is included only to maintain response uniformity.

Content data objects

Element	Type	M/O/CM	Description
subscriberId	UUID	M	Subscriber universal unique identifier
imsiMsisdnPairs	Object	M	Array of IMSI and MSISDN pairs object. Only one can be marked as active (at the most).
iccid	String	M	SIM card serial number
status	String	M	Initial LCP status. ENUM: ACTIVE, SUSPEND
imei	String	O	Device ID registered on the subscriber
imeisv	String	O	Device ID including software version registered on the subscriber
customerId	UUID	O	Customer ID that the subscriber is connected to
customerName	String	O	Customer name that the subscriber is connected to

imsiMsisdnPairs data objects

Element	Type	M/O/CM	Description
imsi	String	M	IMSI registered on the SIM card
msisdn	String	O	Subscriber mobile number: MSISDN. Format: International E.164
isLastActive	Boolean	M	<p>Last known IMSI as active indication; only one can be active at a time.</p> <ul style="list-style-type: none"> ○ True = Last Active IMSI ○ False = Inactive IMSI

Pageable data objects

Not supported for this API. The objects table is included only to maintain response uniformity.

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

4.9.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
CUSTOMER_1002	Customer does not exist
CUSTOMER_1006	Failed to retrieve customer details
GLOBAL_1001	Service unavailable. Please try again
GLOBAL_1018	Invalid point in time ID

4.9.5 Examples

Request Body : First Call

```
{
  "pitKeepAlive": 5,
  "size": 1000
}
```

Request Body : Consecutive Calls

```
{
  "pitId":
  "46ToAwMDaWR5BXV1aWQyKwZub2R1XzMAAAAAAAAAACoBYwADaWR4BXV1aWQxA
gZub2"
```

```

RlXzEAAAAAAAAAAAEByQADaWR5BXV1aWQyKgZub2RlXzIAAAAAAAAAAAwBYgAC
BXV1aWQ
yAAAFdXVpZDEAAQltYXRjaF9hbGw_gAAAAA==",
  "pitKeepAlive": 5,
  "size": 1000
}

```

Response Body: Success ACK

```

{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
      "subscriberId": "e7fcef24-5c03-41dd-9e33-995b7d6f47a7",
      "imsiMsisdnPairs": [
        {
          "imsi": "222013090961859",
          "msisdn": "999013090961859",
          "isLastActive": true
        },
        {
          "imsi": "310380501118337",
          "msisdn": "134044411258337",
          "isLastActive": false
        }
      ],
      "iccid": "8935711001000034535",
      "status": "ACTIVE",
    }
  ]
}

```



```

    "imei": "354306110218529",
    "imeisv": "3543061102185201"
    "customerId": "3bd92beb-0367-4e68-b50d-72c0fb08beab",
    "customerName": "Gualas LTD"
  },
  {
    "subscriberId": "e7fcef24-5c03-41dd-9e33-995b7d6f32b1",
    "imsiMsisdnPairs": [
      {
        "imsi": "222013090961859",
        "msisdn": "999013090961859",
        "isLastActive": true
      },
      {
        "imsi": "310380501118337",
        "msisdn": "134044411258337",
        "isLastActive": false
      }
    ],
    "iccid": "8935711001000034536",
    "status": "ACTIVE",
    "imei": "354306110218530",
    "imeisv": "3543061102185301"
    "customerId": "3bd92beb-0367-4e68-b50d-72c0fb08beab",
    "customerName": "Gualas LTD"
  }
],
  "pitId":
  "46ToAwMDaWR5BXV1aWQyKwZub2RlXzMMAAAAAAAAAAACoBYwADaWR4BXV1aWQxA
  gZu

```

```

b2RlXzEAAAAAAAAAAAEbYQADaWR5BXV1aWQyKgZub2RlXzIAAAAAAAAAAAwBYg
ACBXV1

aWQyAAAFdXVpZDEAAQltYXRjaF9hbGw_gAAAAA==" ,

  "recordAmount": 5860,

  "totalRecordAmount": 15860,

  "pageable": {

    "page": 1,

    "size": 10,

    "totalPages": 1,

    "totalElements": 2

  }

}

```

Response Body: Failure NAK

```

{

  "errorCode": "GLOBAL_1018",

  "errorMessage": "Invalid point in time ID",

  "content": "",

  "pageable": ""

}

```

4.10 Get All Customer Subscriber Details

This API is used to retrieve a full list of all subscribers that attached to their customer regardless of their amount including very specific piece of information such as latest subscriber's location, usage summary etc.

HTTP URL	
POST	api/v2/customer/{id}/subscriber-all-details

4.10.1 Eligibility

The Requester is eligible to request and receive a list of his own subscribers and his sub-customer subscribers.

4.10.2 API Request

Parameter	Type	M/O/CM	Description
pitId	String	O	Point in Time identity used to identify a fetching process. User should send this element empty in the first API call, parse the pitId from the response and then populate this element in any other request. If sent empty, then a new search and a new pitId will be created.
pitKeepAlive	Numeric	O	Determines the max duration of a fetching session in minutes. Once exceeding this time, the fetching process will be terminated. This element is mandatory in the first API call when pitId is sent blank. If pitId was sent populated, pitKeepAlive will be ignored. If pitId was sent empty and pitKeepAlive is empty as well, the system will apply the default (1 minute). The maximum allowed time is 30 minutes. Example: 5 (5 minutes)
size	Numeric	O	Determines response record amount. Number of requested records per API call. Maximum allowed 10,000 records. Valid range 1-10,000. Default if not sent = 1,000. Example: 1000 (1,000 records per API call within pitId session)

4.10.3 API Response

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure detailed description.
content	Object	O	Array of main response body object. Displayed when an API call was successful. For a failure, it will be empty.
pitId	String	M	Point in Time identity used to identify a fetching process session. User should parse this element

Parameter	Type	M/O/CM	Description
			and then populate the value in any other request relevant to the current session.
recordAmount	Numeric	M	Number of records in the current chunk (response).
totalRecordAmount	Numeric	M	Total amount of records in query.
pageable	Object	O	<p>Paging information object. Displayed when an API call was successful. For a failure it will be empty.</p> <p>Note: This is not supported for this API. Object exists for response uniformity purposes only.</p>

Content data objects

Parameter	Type	M/O/CM	Description
subscriberId	UUID	M	Subscriber Universal Unique ID.
eid	String	O	Embedded Identity Document. Filled in when multiple ICCIDs (profiles) exist for a single SIM.
profile	Object	M	Array of profiles. For a single EID, embedded identity document, there might be several SIM entities (ICCID).
status	String	M	Life Cycle Policy (LCP) status. ENUM: ACTIVE, SUSPEND.
imei	String	O	Device ID registered on the subscriber.
customerId	UUID	O	Indicates the customer ID which the subscriber is connected to.
customerName	String	O	Indicates the customer's name which the subscriber is connected to.
dailySmsUsage	Decimal	O	Near real-time value of the daily accumulative SMS usage.
dailyDataUsage	Decimal	O	Near real-time value of the daily accumulative data usage. Unit displayed in MB.
weeklySmsUsage	Decimal	O	Near real-time value of the weekly accumulative SMS usage.
weeklyDataUsage	Decimal	O	Near real-time value of the weekly accumulative data usage. Unit displayed in MB.
monthlySmsUsage	Decimal	O	Near real-time value of the monthly accumulative SMS usage.

Parameter	Type	M/O/CM	Description
monthlyDataUsage	Decimal	O	Near real-time value of the monthly accumulative data usage. Unit displayed in MB.
lastConnectedNetwork	Object	O	Last known SIM connected network.
lastUsageLocation	Object	O	Last known SIM usage consumption location.
lastIp	String	O	Last IP Address.
lastDataSession	DateTime	O	Last closed recorded data session date and time (End Time).

Profile

Parameter	Type	M/O/CM	Description
iccid	String	M	SIM card serial number.
imsiMsisdnPairs	Object	M	Array of IMSI and MSISDN pairs object. Only one can be marked as active (at the most).

imsiMsisdnPairs

Element	Type	M/O/CM	Description
imsi	String	M	IMSI registered on the SIM card
msisdn	String	O	Subscriber mobile number: MSISDN Format: International E.164
isLastActive	Boolean	M	Last known IMSI as active indication; only one can be active at a time. <ul style="list-style-type: none">○ True = Last Active IMSI○ False = Inactive IMSI

Last connected network data objects

Element	Type	M/O/CM	Description
mcc	String	O	Last connected MCC
mnc	String	O	Last connected MNC
plmn	String	O	Public Land Mobile Network. MCCMNC representation
countryCode	String	O	ISO alpha-3 Country Code

lastUsageLocation

Parameter	Type	M/O/CM	Description
mcc	String	O	Last connected Mobile Country Code.
mnc	String	O	Last connected Mobile Network Code.
lac	String	O	Last connected Location Area Code. See note below.
tac	String	O	Last connected Tracking Area Code. See note below.
cid	String	O	Last connected Cell ID. See note below.
sac	String	O	Last connected Service Area Code. See note below.
rac	String	O	Last connected Routing Area Code. See note below.
enb	String	O	Last connected eNode-B. See note below.

NOTE: Pair of the following attributes (lac, tac, rac, sac, cid, enb) will be filled in based on the last consumed usage location RAT Type.

IMPORTANT: 'lastUsageLocation' MCC&MNC values might be different than 'lastConnectedNetwork' MCC&MNC values. It may occur if a subscriber was consuming service (data or SMS) from a given operator/country and then roamed to a different country, registered to the new operator network but didn't yet consumed any service.

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

4.10.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
CUSTOMER_1002	Customer does not exist.
CUSTOMER_1006	Failed to retrieve customer details.
GLOBAL_1001	Service unavailable. Please try again.
GLOBAL_1018	Invalid point in time ID.

4.10.5 Examples

Request Body

```
{
  "pitId":
  "46ToAwMDaWR5BXV1aWQyKwZub2RlXzMAAAAAAAAAaCoBYwADaWR4BXV1aWQxAgZub2RlXzEAAAAAAAAAAEBYQADaWR5BXV1aWQyKgZub2RlXzIAAAAAAAAAAAwBYgACBXV1aWQyAAAFdXVpZDEAAQltYXRjaF9hbGw_gAAAAA==",
  "pitKeepAlive": 5,
  "size": 1000
}
```

Response Body: Success ACK

```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
      "subscriberId": "e7fcef24-5c03-41dd-9e33-995b7d6f47a7",
      "eId": "00909231222999923581290365443",
      "profile": [
        {
          "iccid": "8935711001000034535",
          "imsiMsisdnPairs": [
            {
              "imsi": "222013090961859",
              "msisdn": "999013090961859",
              "isLastActive": true
            },
            {
              "imsi": "310380501118337",
              "msisdn": "134044411258337",
              "isLastActive": false
            }
          ]
        },
        {
          "iccid": "8935711009990036598",
          "imsiMsisdnPairs": [
            {
```



```

        "imsi": "223013090962020",
        "msisdn": "991013090962020",
        "isLastActive": true
    },
    {
        "imsi": "410380501118987",
        "msisdn": "43404441125987",
        "isLastActive": false
    }
]
},
"status": "ACTIVE",
"imei": "354306110218529",
"customerId": "3bd92beb-0367-4e68-b50d-72c0fb08beab",
"customerName": "Gualas LTD",
"dailySmsUsage": 23,
"dailyDataUsage": 54.3,
"weeklySmsUsage": 11,
"weeklyDataUsage": 1.5,
"monthlySmsUsage": 45,
"monthlyDataUsage": 19.4,
"lastConnectedNetwork": {
    "mcc": "724",
    "mnc": "05",
    "plmn": "BRACL",
    "countryCode": "BRA"
},
"lastUsageLocation": {

```

```
    "mcc": "734",
    "mnc": "04",
    "lac": "",
    "tac": "",
    "cid": "",
    "sac": "",
    "rac": "",
    "enb": ""
  },
  "lastIp": "10.84.8.208",
  "lastDataSession": "2020-11-10 09:47:46.668866"
},
{
  "subscriberId": "e7fcef24-5c03-41dd-9e33-995b7d6f32b1",
  "eId": "00909231222999923651290300432",
  "profile": [
    {
      "iccid": "8935711001000034539",
      "imsiMsisdnPairs": [
        {
          "imsi": "222013090961860",
          "msisdn": "999013090961860",
          "isLastActive": true
        },
        {
          "imsi": "310380501118338",
          "msisdn": "134044411258338",
          "isLastActive": false
        }
      ]
    }
  ]
}
```

```
    ]
  },
  {
    "iccid": "8935711009990036800",
    "imsiMsisdnPairs": [
      {
        "imsi": "223013090969991",
        "msisdn": "991013090969991",
        "isLastActive": true
      },
      {
        "imsi": "410380501118988",
        "msisdn": "43404441125988",
        "isLastActive": false
      }
    ]
  }
],
"status": "ACTIVE",
"imei": "354306110218530",
"customerId": "3bd92beb-0367-4e68-b50d-72c0fb08beab",
"customerName": "Gualas LTD",
"dailySmsUsage": 2,
"dailyDataUsage": 14.3,
"weeklySmsUsage": 17,
"weeklyDataUsage": 1.6,
"monthlySmsUsage": 5,
"monthlyDataUsage": 39.4,
"lastConnectedNetwork": {
```

```

        "mcc": "724",
        "mnc": "04",
        "plmn": "BRACS",
        "countryCode": "BRA"
    },
    "lastUsageLocation": {
        "mcc": "724",
        "mnc": "04",
        "lac": "",
        "tac": "",
        "cid": "",
        "sac": "",
        "rac": "",
        "enb": ""
    },
    "lastIp": "10.84.8.208",
    "lastDataSession": ""
}
],
"pitId":
"46ToAwMDaWR5BXV1aWQyKwZub2RlXzMAAAAAAAAAaCoBYwADaWR4BXV1aWQxAgZub2RlXzEAAAAAAAAAAEByQADaWR5BXV1aWQyKgZub2RlXzIAAAAAAAAAAAwBYgACBXV1aWQyAAAFdXVpZDEAAQltYXRjaF9hbGw_gAAAAA==",
    "recordAmount": 1000,
    "totalRecordAmount": 20000,
    "pageable": ""
}

```

Response Body: Failure NAK

```
{
  "errorCode": "GLOBAL_1018",
  "errorMessage": "Invalid point in time ID",
  "content": "",
  "pageable": ""
}
```

4.11 Get Customer PCRF Configuration

Get Customer PCRF Configuration API is used to retrieve PCRF configuration details for an account per given provider. For example, retrieving PCRF preset group IDs available to be used for the account per specific provider to determine subscribers' surfing bandwidth, thus enabling and disabling throttling.

NOTE: This API should be used when there is a need to retrieve more than 10K records in a single query. This API does not support pagination.

HTTP URL	
GET	api/v2/customer/{id}/provider{id}/pcrf-config

NOTE: Provider {id} is the provider code.

4.11.1 Eligibility

The Requestor is eligible to request his own account PCRF settings information.

4.11.2 API Request

Not applicable

4.11.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code. See list below, under 'Error Codes' section
errorMessage	String	O	Failure detailed description. See list below, under 'Error Codes' section
content	Object	O	Array of main response body object. Displayed when an API call was successful. For a failure it will be empty.
pageable	Object	O	Paging information object. Displayed when an API call was successful. For a failure it will be empty.

Content

Parameter	Type	M/O/CM	Description
groupId	String	M	Array of PCRF related group IDs, configured and can be used by the customer per given provider.

4.11.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again.
SUBSCRIBER_1002	Subscriber does not exist.

4.11.5 Examples

Request Body not applicable.

```
{
}
```

Request Body: Success ACK

```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
```

```
        "groupId": ["1", "15", "35"]
      }
    ],
    "pageable": null
  }
```

Response Body: Failure NAK

```
{
  "errorCode": "GLOBAL_1001",
  "errorMessage": "Service unavailable. Please try again",
  "content": "",
  "pageable": null
}
```

4.12 Create Customer Contact

This API is used to create one or more customer contacts for an existing single account. When sending a request to create multiple contacts in a single call, the result treats them as a single instance so that the result is either All Succeed, or All Fail.

HTTP URL	
POST	/api/v2/customer/{id}/contact

4.12.1 Eligibility

The Requester is eligible to request to create contacts for its own sub-customers only (one level). The Requester is not allowed to create customer contacts on its own account level or for any other customers.

4.12.2 API Request

Request Structure

Element	Type	M/O/CM	Description
contact	Object	M	Array of customer contacts object.

Contact data objects

Element	Type	M/O/CM	Description
emailAddress	String	M	Contact email address; validated via Regular Expression
type	String	O	Contact type, whether owner of the customer or a member. ENUM: OWNER, MEMBER
role	String	O	Eligible to enter the self-care application. ENUM: SELFCARE, NONE.Default = NONE
salutation	String	O	Contact salutation. ENUM: MR, MS
firstName	String	O	Contact first name
middleName	String	O	Contact middle name
lastName	String	O	Contact last name
identity	Object	O	Array of contact identity numbers.
gender	String	M	Contact gender.ENUM: MALE, FEMALE
birthdate	Date	O	Contact date of birth. Format: DDMMYYYY
landlinePhoneNumber	String	CM	CBR, can be reached phone number. Mandatory if mobilePhoneNumber is not provided.
mobilePhoneNumber	String	CM	CBR, can be reached phone number. Mandatory if landlinePhoneNumber is not provided. Format: International E.164
additionalPhoneNumber	String	O	Additional phone number where the contact can be reached
picture	String	O	Contact photograph (future feature)
remarks	String	O	General remarks
isPrimary	Boolean	O	Determines whether the contact is primary or not. <ul style="list-style-type: none"> ○ True = Primary contact

Element	Type	M/O/CM	Description
			<ul style="list-style-type: none"> ○ False = No primary contact ○ Default = False

Identity data objects

Element	Type	M/O/CM	Description
idType	String	M	Identity type: ENUM: ID, PASSPORT, DRIVER_LICENSE
idNumber	String	M	ID number

4.12.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
requestId	UUID	M	<p>Request instance ID. To be used by external systems to query the call (operation) status:</p> <ul style="list-style-type: none"> ○ In progress ○ Successful ○ Failed

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

4.12.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again

4.12.5 Examples

Request Body

```
{
  "contact": [
    {
      "emailAddress": "shaul.cohen@frolive.net",
      "type": "OWNER",
      "role": "NONE",
      "salutation": "MR",
      "firstName": "Shaul",
      "middleName": "",
      "lastName": "Cohen",
      "identity": [
        {
          "idType": "passport",
          "idNumber": "123456789"
        }
      ]
    }
  ]
}
```

```
    },  
    {  
      "idType": "nationalId",  
      "idNumber": "987654321"  
    }  
  ],  
  "gender": "MALE",  
  "birthdate": "28122000",  
  "landlinePhoneNumber": "",  
  "mobilePhoneNumber": "972542265160",  
  "additionalPhoneNumber": "",  
  "picture": "",  
  "remarks": "",  
  "isPrimary": true  
},  
{  
  "emailAddress": "eyal.cohen@fllolive.net",  
  "type": "MEMBER",  
  "role": "NONE",  
  "salutation": "MR",  
  "firstName": "Eyal",  
  "middleName": "",  
  "lastName": "Cohen",  
  "identity": [  
    {  
      "idType": "nationalId",  
      "idNumber": "52946587"  
    }  
  ],  
}
```

```
        "gender": "MALE",
        "birthdate": "28062002",
        "landlinePhoneNumber": "",
        "mobilePhoneNumber": "972542265116",
        "additionalPhoneNumber": "",
        "picture": "",
        "remarks": "",
        "isPrimary": false
    }
]
}
}
```

Response Body: Success ACK

```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
      "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370"
    }
  ],
  "pageable": {
    "page": 0,
    "size": 10,
    "totalPages": 1,
    "totalElements": 1
  }
}
```

```
}

```

Response Body: Failure NAK

```
{
  "errorCode": "GLOBAL_1001",
  "errorMessage": "Service unavailable. Please try again",
  "content": "",
  "pageable": ""
}
```

4.13 Delete Customer Contact

This API is used to delete one or more customer contacts for an existing single account. Deletion is done as a soft deletion procedure. When sending a request to delete multiple contacts in a single call, the result treats them as a single instance so that the result is either All Succeed, or All Fail. Sending contact IDs for deletion, both as part of the URL and in the request itself, will result in a “bad request” notification.

HTTP URL	
DELETE	/api/v2/customer/{id}/contact/{id}

4.13.1 Eligibility

The Requester is eligible to request to delete contacts for its own sub-customers only (one level). The Requester is not allowed to delete customer contacts on its own account level or for any other customers.

4.13.2 API Request

Request Structure

Element	Type	M/O/CM	Description
id	UUID	O	List of Contact IDs to be deleted

4.13.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
requestId	UUID	M	Request instance ID. To be used by external systems to query the call (operation) status: <ul style="list-style-type: none"> ○ In progress ○ Successful ○ Failed

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

4.13.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again

Code	Message
CUSTOMER_1002	Customer does not exist
AUTH_1010	Contact for your customer was not found
CUSTOMER_1017	Unknown Contact ID

4.13.5 Examples

Request Body

```
{
  "id": [
    "e7fcef24-5c03-41dd-9e33-995b7d6f32b1",
    "ceb892d2-f24b-4007-bf81-999fe75cb635"
  ]
}
```

Response Body: Success ACK

```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
      "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370"
    }
  ],
  "pageable": {
    "page": 0,
    "size": 10,
    "totalPages": 1,
    "totalElements": 1
  }
}
```

```
}

```

Response Body: Failure NAK

```
{
  "errorCode": "AUTH_1010",
  "errorMessage": "Contact for your account was not found",
  "content": "",
  "pageable": ""
}
```

4.14 Create Customer Address

This API is used to create one or more customer addresses for an existing single account.

When sending a request to create multiple addresses in a single call, the result treats them as a single instance so that the result is either All Succeed, or All Fail.

HTTP URL	
POST	/api/v2/customer/{id}/address

4.14.1 Eligibility

The Requester is eligible to request to create addresses for its own sub-customers only (one level). The Requester is not allowed to create customer addresses on its own account level or for any other customers.

4.14.2 API Request

Request Structure

Element	Type	M/O/CM	Description
address	Object	M	Array of customer addresses object.

Address data objects

Element	Type	M/O/CM	Description
type	String	O	Address type. ENUM: PRIVATE, SHIPPING, MAILING. Default: PRIVATE
street	String	CM	Street name. Mandatory if pobox (postal office box) is not provided
buildingNumber	String	CM	Building number on the street. Mandatory if pobox is not provided
buildingName	String	O	Building name (alias) if it exists
buildingFloor	String	O	Floor number in the building
zipCode	String	O	Zip postal code
apartmentNumber	String	O	Apartment number in the building
entrance	String	O	Entrance identifier. Can be a letter or number
city	String	O	City name
province	String	O	Province name
state	String	O	State name
country	String	O	Country name
pobox	String	CM	Postal Office Box number. Mandatory if street and streetNumber are not provided
salutation	String	O	Address representative salutation. ENUM: MR, MS, MISS, DR, PROF
fullName	String	O	Representative full name
title	String	O	Address representative title. ENUM: DR, PROF
company	String	O	Company name
emailAddress	String	O	Email address. Validated via Regular Expression
isPrimary	Boolean	O	Determines whether the contact is primary or not. <ul style="list-style-type: none"> ○ True = Primary contact ○ False = No primary contact ○ Default = False

4.14.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.

Parameter	Type	M/O/CM	Description
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
requestId	UUID	M	<p>Request instance ID.</p> <p>To be used by external systems to query the call (operation) status:</p> <ul style="list-style-type: none"> ○ In progress ○ Successful ○ Failed

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

4.14.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again

4.14.5 Examples

Request Body

<pre>{ "address": [</pre>

```
{
  "type": "private",
  "street": "sixth avenue",
  "buildingNumber": "987",
  "buildingName": "Concord",
  "buildingFloor": "1",
  "zipCode": "123456",
  "apartmentNumber": "14",
  "entrance": "A",
  "city": "Chicago",
  "province": "",
  "state": "Illinois",
  "country": "USA",
  "pobox": "",
  "salutation": "",
  "fullName": "",
  "title": "",
  "company": "",
  "emailAddress": "",
  "isPrimary": true
},
{
  "type": "mailing",
  "street": "fifth avenue",
  "buildingNumber": "234",
  "buildingName": "Concord",
  "buildingFloor": "12",
  "zipCode": "123456",
  "apartmentNumber": "14",
```

```
    "entrance": "A",
    "city": "New York",
    "province": "",
    "state": "New York",
    "country": "USA",
    "pobox": "",
    "salutation": "",
    "fullName": "",
    "title": "",
    "company": "",
    "emailAddress": "",
    "isPrimary": false
  }
]
}
```

Response Body: Success ACK

```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
      "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370"
    }
  ],
  "pageable": {
    "page": 0,
    "size": 10,
  }
}
```

```

    "totalPages": 1,
    "totalElements": 1
  }
}

```

Response Body: Failure NAK

```

{
  "errorCode": "GLOBAL_1001",
  "errorMessage": "Service unavailable. Please try again",
  "content": "",
  "pageable": ""
}

```

4.15 Delete Customer Address

This API is used to delete one or more customer addresses. Deletion is done as a soft deletion procedure. When sending a request to delete multiple addresses in a single call, the result treats them as a single instance so that the result is either All Succeed, or All Fail. Sending address IDs for deletion, both as part of the URL and in the request itself, will result in a “bad request” notification.

HTTP URL	
DELETE	/api/v2/customer/{id}/address/{id}

4.15.1 Eligibility

The Requester is eligible to request to delete addresses for its own sub-customers only (one level). The Requester is not allowed to delete customer addresses on its own account level or for any other customers.

4.15.2 API Request

Request Structure

Element	Type	M/O/CM	Description
id	UUID	O	List of Address IDs to be deleted

4.15.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content Data Objects

Element	Type	M/O/CM	Description
requestId	UUID	M	<p>Request instance ID.</p> <p>To be used by external systems to query the call (operation) status:</p> <ul style="list-style-type: none"> ○ In progress ○ Successful ○ Failed

Pageable Data Objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

4.15.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
CUSTOMER_1002	Customer does not exist
AUTH_1011	Address for your customer was not found
CUSTOMER_1018	Unknown Address ID

4.15.5 Examples

Request Body

```
{
  "id": [
    "e7fcef24-5c03-41dd-9e33-995b7d6f32b1",
    "ceb892d2-f24b-4007-bf81-999fe75cb635"
  ]
}
```

Response Body: Success ACK

```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
      "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370"
    }
  ],
  "pageable": {
    "page": 0,
  }
}
```

```
    "size": 10,  
    "totalPages": 1,  
    "totalElements": 1  
  }  
}
```

Response Body: Failure NAK

```
{  
  "errorCode": "AUTH_1011",  
  "errorMessage": "Address for your account was not found",  
  "content": "",  
  "pageable": ""  
}
```

4.16 Create Customer Availability Zone

This API is used to create a new customer-defined (user-defined) availability zone.

HTTP URL	
POST	api/v2/customer/{id}/availability-zone

4.16.1 Eligibility

The Requester is eligible to create a new availability zone for its own use. The Requester is not eligible to create a new availability zone at any other customer level, including its own sub-accounts.

4.16.2 API Request

Request Structure

Element	Type	M/O/CM	Description
name	String	M	Availability zone name

Element	Type	M/O/CM	Description
description	String	O	Availability zone description. It is highly recommended to provide a meaningful description.
zone	String	M	Array of Zone UUIDs (can be system or user-defined zones)

4.16.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
requestId	UUID	M	Request instance ID. To be used by external systems to query the call (operation) status: <ul style="list-style-type: none"> ○ In progress ○ Successful ○ Failed
availabilityZoneId	UUID	M	New availability zone ID generated universally unique identifier

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

4.16.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again

4.16.5 Examples

Request Body

```
{
  "name": "North America 05",
  "description": "All Canadian regions and north USA region",
  "zone": [
    "ff74dca6-8e7f-4b85-a42b-13860913b370",
    "ceb892d2-f24b-4007-bf81-999fe75cb635",
    "40007bac-a0bc-4e43-a955-1207e7d546dd"
  ]
}
```

Response Body: Success ACK

```
{
  "errorCode": "",
  "errorMessage": "",
}
```

```
"content": [  
  {  
    "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370",  
    "availabilityZoneId": "f0007bac-8e7f-f24b-a42b-  
999fe75cb630"  
  }  
],  
"pageable": {  
  "page": 0,  
  "size": 10,  
  "totalPages": 1,  
  "totalElements": 1  
}  
}
```

Response Body: Failure NAK

```
{  
  "errorCode": "GLOBAL_1001",  
  "errorMessage": "Service unavailable. Please try again",  
  "content": "",  
  "pageable": ""  
}
```

4.17 Get Customer Availability Zones

This API is used to retrieve a particular customer-defined (user-defined) availability zone, or a list of customer-defined (user-defined) availability zones, created in the system and available for use.

HTTP URL	
GET	/api/v2/customer/{id}/availability-zone/{id}

If sent without an Availability Zone ID, the API retrieves a complete list of all availability zones defined by this customer.

4.17.1 Eligibility

The Requester is eligible to request information on customer-defined availability zones that it created by itself for its own plans. The Requester is not eligible to request information on availability zones created at any other customer level, including its own sub-accounts.

4.17.2 API Request

Request Structure

This API has no request structure.

4.17.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
Id	UUID	M	Customer availability zone's universal unique identity
name	String	M	Customer's availability zone name
description	String	O	Customer's availability zone description
zone	Object	M	Array of Zone Object

Zone data objects

Element	Type	M/O/CM	Description
Id	Numeric	M	Zone's universal unique identity (any zone, system or user-defined)
name	String	M	Zone name (any zone, system or user-defined)
countryCode	String	M	ISO alpha-3 Country Code
network	Object	O	Array of Mobile Network object. Empty for a system zone.
isSystem	Boolean	M	Specifies whether the zone is a system zone and cannot be modified or if it is a user-defined zone, which can be modified.

Element	Type	M/O/CM	Description
			<ul style="list-style-type: none"> ○ True = System Zone ○ False = User-defined (customer) zone

Network data objects

Element	Type	M/O/CM	Description
plmn	String	M	Public Land Mobile Network. MCCMNC representation
mcc	String	M	Mobile Country Code (MCC)
mnc	String	M	Mobile Network Code (MNC)

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

4.17.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again

4.17.5 Examples

Request Body

```
{  
}
```

Response Body: Success ACK

```
{  
  "errorCode": "",  
  "errorMessage": "",  
  "content": [  
    {  
      "id": "1b15048b-1ed4-4d34-a074-c7e26520e12a",  
      "name": "North America 05",  
      "description": "All Canadian regions and north USA  
region",  
      "zone": [  
        {  
          "id": "ff74dca6-8e7f-4b85-a42b-13860913b370",  
          "name": "All Canada",  
          "countryCode": "CAN",
```

```
    "network": [  
      {  
        "plmn": "CANTS",  
        "mcc": "302",  
        "mnc": "220"  
      },  
      {  
        "plmn": "CANVT",  
        "mcc": "302",  
        "mnc": "500"  
      }  
    ],  
    "isSystem": false  
  },  
  {  
    "id": "ceb892d2-f24b-4007-bf81-999fe75cb635",  
    "name": "North USA",  
    "countryCode": "USA",  
    "network": [  
      {  
        "plmn": "USAW6",  
        "mcc": "310",  
        "mnc": "260"  
      },  
      {  
        "plmn": "USAWC",  
        "mcc": "310",  
        "mnc": "180"  
      },  
    ],  
  },  
]
```



```

        {
            "plmn": "USACO",
            "mcc": "311",
            "mnc": "40"
        }
    ],
    "isSystem": false
}
]
},
{
    "id": "40007bac-a0bc-4e43-a955-1207e7d546dd",
    "name": "United Kingdom - Complete",
    "description": "United Kingdom all regions",
    "zone": [
        {
            "id": "e7fcef24-5c03-41dd-9e33-995b7d6f32b1",
            "name": "United Kingdom - Main Land",
            "countryCode": "GBR",
            "network": [
                {
                    "plmn": "GBRCN",
                    "mcc": "234",
                    "mnc": "10"
                },
                {
                    "plmn": "GBRME",
                    "mcc": "234",
                    "mnc": "30"
                }
            ]
        }
    ]
}

```

```
        }
      ],
      "isSystem": false
    },
    {
      "id": "1b15048b-1ed4-4d34-a074-c7e26520e12a",
      "name": "United Kingdom - Islands",
      "countryCode": "GBR",
      "network": [
        {
          "plmn": "GBRGT",
          "mcc": "234",
          "mnc": "55"
        },
        {
          "plmn": "AAM26",
          "mcc": "901",
          "mnc": "46"
        }
      ],
      "isSystem": false
    }
  ]
},
"pageable": {
  "page": 1,
  "size": 10,
  "totalPages": 1,
```

```
    "totalElements": 2
  }
}
```

Response Body: Failure NAK

```
{
  "errorCode": "GLOBAL_1001",
  "errorMessage": "Service unavailable. Please try again",
  "content": "",
  "pageable": ""
}
```

4.18 Modify Customer Availability Zone

This API is used to modify a single customer-defined (user-defined) availability zone.

HTTP URL	
PUT	/api/v2/customer/{id}/availability-zone/{id}

4.18.1 Eligibility

The Requester is eligible to request to modify its own user-defined availability zones. The Requester is not allowed to request to modify any other customer zone.

4.18.2 API Request

Request Structure

Element	Type	M/O/C M	Description
name	String	M	Availability zone name
description	String	O	Availability zone description
zone	String	M	Array of Zone UUIDs (can be system or user-defined zones)

4.18.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
requestId	UUID	M	<p>Request instance ID.</p> <p>To be used by external systems to query the call (operation) status:</p> <ul style="list-style-type: none"> ○ In progress ○ Successful ○ Failed

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

4.18.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
CUSTOMER_1002	Customer does not exist
CUSTOMER_1031	Failed to update customer availability zone

4.18.5 Examples

Request Body

```
{
  "name": "North America 05",
  "description": "All Canadian regions and north USA region",
  "zone": [
    "ff74dca6-8e7f-4b85-a42b-13860913b370",
    "ceb892d2-f24b-4007-bf81-999fe75cb635",
    "40007bac-a0bc-4e43-a955-1207e7d546dd"
  ]
}
```

Response Body: Success ACK

```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
      "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370"
    }
  ]
}
```

```
    }  
  ],  
  "pageable": {  
    "page": 0,  
    "size": 10,  
    "totalPages": 1,  
    "totalElements": 1  
  }  
}
```

Response Body: Failure NAK

```
{  
  "errorCode": "GLOBAL_1001",  
  "errorMessage": "Service unavailable. Please try again",  
  "content": "",  
  "pageable": ""  
}
```

4.19 Delete Customer Availability Zones

This API is used to delete one or more user-defined availability zones. Deletion is done as a soft deletion procedure. When sending a request to delete multiple availability zones in a single call, the result treats all of them as a single result with all availability zones deleted successfully or all failed when even one of the availability zones fails to be deleted.

Sending Availability Zone IDs for deletion, both as part of the URL and in the request itself, will result in a "bad request" notification.

HTTP URL	
DELETE	api/v2/customer/{id}/availability-zone/{id}

4.19.1 Eligibility

The Requester is eligible to request to delete its own availability zone or zones. The Requester is not allowed to delete availability zones at any other customer level, including its own sub-accounts (customers).

4.19.2 API Request

Request Structure

Element	Type	M/O/CM	Description
id	UUID	O	Array of Availability Zone IDs to be deleted

4.19.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.

Parameter	Type	M/O/CM	Description
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
requestId	UUID	M	<p>Request instance ID.</p> <p>To be used by external systems to query the call (operation) status:</p> <ul style="list-style-type: none"> ○ In progress ○ Successful ○ Failed

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size

Element	Type	M/O/CM	Description
totalElements	Numeric	M	Total amount of retrieved elements

4.19.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
CUSTOMER_1002	Customer does not exist
CUSTOMER_1032	Failed to delete customer availability zone\s

4.19.5 Examples

Request Body

```
{
  "id": [
    "e7fcef24-5c03-41dd-9e33-995b7d6f32b1",
    "ceb892d2-f24b-4007-bf81-999fe75cb635"
  ]
}
```

Response Body: Success ACK

```
{
```

```
"errorCode": "",
"errorMessage": "",
"content": [
  {
    "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370"
  }
],
"pageable": {
  "page": 0,
  "size": 10,
  "totalPages": 1,
  "totalElements": 1
}
```

Response Body: Failure NAK

```
{
  "errorCode": "CUSTOMER_1002",
  "errorMessage": "Customer does not exist",
  "content": "",
  "pageable": ""
}
```

4.20 Get Customer Campaigns

The Get Customer Campaigns API is used to retrieve a list of all campaigns which are connected to the customer.

HTTP URL	
GET	api/v2/customer/{id}/campaign/{id}

If campaign {id} is not provided, retrieve all campaigns for the customer.

For paging support, see section .

4.20.1 Eligibility

The Requestor is eligible to request and receive a list of any campaign information which was marked as connected to its customer.

4.20.2 API Request

Request Structure

This API has no request structure.

4.20.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content Data Objects

Element	Type	M/O/CM	Description
id	Numeric	M	Campaign unique identifier
name	String	M	Campaign name

Element	Type	M/O/CM	Description
description	String	O	Campaign description
templateId	Numeric	M	Campaign template unique identifier
status	String	M	Campaign status. ENUM: CREATED, PROCESS, SCHEDULED, SUSPEND, CANCELED, COMPLETED, EXCEPTION, EXPIRED
timestamp	dateTime	M	Campaign creation timestamp
effectiveStart	String	M	Campaign effective duration start time
effectiveEnd	String	M	Campaign effective duration end time
maxRetries	Numeric	M	Maximum number of retries

Pageable Data Objects

Parameter	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

4.21 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
CUSTOMER_1002	Customer does not exist
CUSTOMER_1037	Campaign does not exist

4.21.1 Examples

Request Body

<pre>{ }</pre>

Response Body: Success ACK

```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
      "id": 67,
      "name": "test https key write bap 1 from resume",
      "description": "",
      "templateId": 20,
      "status": "COMPLETED",
      "timestamp": "2022-08-22 14:13:59",
      "effectiveStart": "2022-08-22 13:08:59",
      "effectiveEnd": "2022-08-23 13:08:59",
      "maxRetries": 3
    },
    {
      "id": 524,
      "name": "Add TIS IMSI",
      "description": "",
      "templateId": 21,
      "status": "CREATED",
      "timestamp": "2023-04-28 06:34:03",
      "effectiveStart": "2022-08-22 08:57:14",
      "effectiveEnd": "2022-08-23 08:57:14",
      "maxRetries": 3
    }
  ],
}
```

```
"pageable": {  
  "page": 1,  
  "size": 10,  
  "totalPages": 99,  
  "totalElements": 988  
}
```

Response Body: Failure NAK

```
{  
  "errorCode": "CUSTOMER_1037",  
  "errorMessage": "Campaign does not exist",  
  "content": "",  
  "pageable": ""  
}
```

4.21.2 Get Customer Campaign Participants

This API is used to retrieve a list of all participants (subscribers) in a specific campaign.

HTTP URL	
GET	/api/v2/customer/{id}/campaign/{id}/participants

4.21.3 Eligibility

The Requester is eligible to request and receive the participant list of a specified campaign, which has been marked as connected to its customer.

4.21.4 API Request

Request Structure

This API has no request structure.

4.21.5 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
id	Numeric	M	Participant (subscriber) unique identifier
iccid	String	M	SIM card (subscriber) identifier
status	String	M	SIM message status.

Element	Type	M/O/CM	Description
			ENUM: PENDING, COMPLETED, SUSPENDED, PROGRESS, WAIT, RETRY, CANCELED, CANCELING, EXCEPTION
attempt	Numeric	M	Last message attempt count.
code	String	M	Message result code.
message	String	M	Actual message string.
timestamp	dateTime	M	Campaign creation timestamp.

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

4.21.6 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
CUSTOMER_1002	Customer does not exist
CUSTOMER_1037	Campaign does not exist

4.21.7 Examples

Request Body: N/A

```
{  
  "fullData": false  
}
```

Response Body: Success ACK

```
{  
  "errorCode": "",  
  "errorMessage": "",  
  "content": [  
    {  
      "id": 1030247,  
      "iccid": "8935771600000000003",  
      "status": "COMPLETED",  
      "attempt": 1,  
      "code": "200",  
      "message": "OK - UPDATE - 3F00/ADF1/6F31 - data: 05  
      ...",  
    }  
  ]  
}
```

```
        "timestamp": "2022-02-11 14:21:53"
      },
      {
        "id": 1040348,
        "iccid": "8935771600000000052",
        "status": "RETRY",
        "attempt": 3,
        "code": "200",
        "message": "OK - UPDATE - 3F00/ADF1/6F31 - data: 05
...",
        "timestamp": "2022-08-22 14:13:59"
      }
    ],
    "pageable": {
      "page": 1,
      "size": 10,
      "totalPages": 99,
      "totalElements": 988
    }
  }
}
```

Response Body: Failure NAK

```
{
  "errorCode": "CUSTOMER_1037",
  "errorMessage": "Campaign does not exist",
  "content": "",
  "pageable": ""
}
```

4.22 Create Customer External Params

Create Customer External Params API is used to create new External Parameters instance (one or more) for its own customer and for a given entity at a time (Customer, Subscriber, Offer, Package). When sending a request to create multiple External Parameters instances in a single call, the result will treat them all hence it is either all External Parameters instances were succeeded, or all resulted with a failure.

HTTP URL	
POST	/api/v2/customer/{id}/external-params/{id}

NOTE: {entity} can be one of the following ENUMs: 'customer', 'subscriber', 'plan', 'package'. To create a 'Product' related External Param, use 'plan' entity. Example: api/v2/customer/{id}/external-params/customer/a5ad9f06-0164-4475-8919-fcf1d4a4befe

NOTE: Second {id} is the requested entity UUID (Customer [sub-account], Subscriber, or Plan or Package).

4.22.1 Eligibility

The Requestor is eligible to create new External Parameters instance for his own customer or his own entities (sub-customers, its own subscribers, sell plans, sell packages). It is not eligible to create new External Parameters instance to any other customer level.

4.22.2 API Request

Request Structure

Parameter	Type	M/O/CM	Description
externalParams	Object	M	Array of External Parameter instance objects.

externalParams data objects

Parameter	Type	M/O/CM	Description
extParamConfigId	UUID	M	External Parameter Configuration unique identifier
value	String	M	External Parameter value

4.22.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
requestId	UUID	M	Request instance ID. To be used by external systems to query the call (operation) status: <ul style="list-style-type: none"> ○ In progress ○ Successful ○ Failed

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

4.22.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
CUSTOMER_1024	Failed to create external params item
GLOBAL_1001	Service unavailable. Please try again

4.22.5 Examples

Request Body

```
{
  "externalParams": [
    {
      "extParamConfigId": "b8ad9f06-0104-9475-7919-ace1d4a4babe",
      "value": "9876543212"
    },
    {
      "extParamConfigId": "a5ad9f06-0164-4475-8919-fcf1d4a4befe",
      "value": "13465798"
    }
  ]
}
```

Response Body: Success ACK

```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
      "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370"
    }
  ],
  "pageable": {
    "page": 0,
    "size": 10,
  }
}
```

```
    "totalPages": 1,  
    "totalElements": 1  
  }  
}
```

Response Body: Failure NAK

```
{  
  "errorCode": "GLOBAL_1001",  
  "errorMessage": "Service unavailable. Please try again",  
  "content": "",  
  "pageable": ""  
}
```

4.23 Get Customer External Params

This API is used to retrieve a single instance or multiple instances of External Parameters, with their actual values, of any relevant entity (account, subscriber, plan) created by the user's account.

Every API call retrieves instances of a single entity (UUID); hence, the entity type is provided in the URL.

HTTP URL	
GET	/api/v2/customer/{id}/external-params/{entity}/{id}

The {entity} valid ENUMs are customer, subscriber, plan. For example: /api/v2/customer/{id}/external-params/customer/a5ad9f06-0164-4475-8919-fcf1d4a4befe

The second {id} is the requested entity UUID (Customer, Subscriber or Offer) following the previous {entity} in the URL

4.23.1 Eligibility

The Requester is eligible to request information on External Parameters that were created by itself for its own account entities. The Requester is not eligible to request information on any other customer level, including its sub-accounts.

4.23.2 API Request

This API has no request structure.

4.23.3 API Response

Response Structure

Parameter	Type	M/O/C M	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
id	UUID	M	External Parameter instance unique identifier

Element	Type	M/O/CM	Description
extParamConfigId	UUID	M	External Parameter Configuration unique identifier
name	String	M	External Parameter Configuration name
displayName	String	O	External Parameter Configuration name to display to the user
value	String	O	External Parameter value

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

4.23.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
CUSTOMER_1002	Customer does not exist
CUSTOMER_1023	Failed to retrieve external params details
GLOBAL_1001	Service unavailable. Please try again

4.23.5 Examples

Request Body

```
{  
}
```

Response Body: Success ACK

```
{  
  "errorCode": "",  
  "errorMessage": "",  
  "content": [  
    {  
      "id": "e7fcef24-5c03-41dd-9e33-995b7d6f47a7",  
      "extParamConfigId": "a5ad9f06-0164-4475-8919-fcf1d4a4befe",  
      "name": "externalSubscriberId",  
      "displayName": "External Subscriber Id",  
      "value": "13465798"  
    },  
    {  

```

```

        "id": "a3ad8f06-0164-4675-8919-fcf7d4a4bebe",
        "extParamConfigId": "b8ad9f06-0104-9475-7919-ace1d4a4babe",
        "name": "systemName",
        "displayName": "System Name",
        "value": "9876543212"
    }
],
"pageable": {
    "page": 1,
    "size": 10,
    "totalPages": 1,
    "totalElements": 2
}
}

```

Response Body: Failure NAK

```

{
    "errorCode": "GLOBAL_1001",
    "errorMessage": "Service unavailable. Please try again",
    "content": "",
    "pageable": ""
}

```

4.24 Modify Customer External Params

This API is used to modify a single External Parameters instance of one of its own customer entities (Sub-customer, Subscriber, Plan).

HTTP URL	
PUT	/api/v2/customer/{id}/external-params/{id}

The second {id} is the External Parameter instance UUID.

4.24.1 Eligibility

The Requester is eligible to modify an External Parameters instance of its own customer entities (sub-customers, its own subscribers, Sell plans). The Requester is not eligible to modify an existing External Parameters instance at any other customer level, including its own sub-customers' entities.

4.24.2 API Request

Request Structure

Parameter	Type	M/O/CM	Description
value	String	M	External Parameter value

4.24.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API

Parameter	Type	M/O/CM	Description
			call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
requestId	UUID	M	<p>Request instance ID.</p> <p>To be used by external systems to query the call (operation) status:</p> <p>In progress</p> <p>Successful</p> <p>Failed</p>

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page

Element	Type	M/O/CM	Description
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

4.24.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
CUSTOMER_1002	Customer does not exist
CUSTOMER_1025	Failed to update external params item
GLOBAL_1001	Service unavailable. Please try again

4.24.5 Examples

Request Body

```
{  
  "value": "123456789"  
}
```

Response Body: Success ACK

```
{
```

```
"errorCode": "",
"errorMessage": "",
"content": [
  {
    "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370"
  }
],
"pageable": {
  "page": 0,
  "size": 10,
  "totalPages": 1,
  "totalElements": 1
}
```

Response Body: Failure NAK

```
{
  "errorCode": "GLOBAL_1001",
  "errorMessage": "Service unavailable. Please try again",
  "content": "",
  "pageable": ""
}
```

4.25 Delete Customer External Params

This API is used to delete one or more External Parameters instances. Deletion is performed based on a soft deletion process. When sending a request to delete multiple External Parameters instances in a single call, the result treats them as a single instance so that the result is either All Succeed, or All Fail.

Sending External Parameters instance IDs for deletion, both as part of the URL and in the request itself, results in a “bad request” notification.

HTTP URL	
DELETE	/api/v2/customer/{id}/external-params/{id}

The second {id} is the External Parameter Instance UUID.

4.25.1 Eligibility

The Requester is eligible to delete a single or multiple External Parameters instances of its own customer entities (sub-customers, its own subscribers, Sell plans).

The Requester is not eligible delete existing External Parameters instances at any other customer level, including its own sub-customers’ entities.

4.25.2 API Request

Request Structure

Parameter	Type	M/O/CM	Description
id	UUID	O	Array of External Parameters Instance IDs to be deleted

4.25.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.

Parameter	Type	M/O/CM	Description
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
requestId	UUID	M	<p>Request instance ID.</p> <p>To be used by external systems to query the call (operation) status:</p> <p>In progress</p> <p>Successful</p> <p>Failed</p>

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page

Element	Type	M/O/CM	Description
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

4.25.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
CUSTOMER_1002	Customer does not exist
CUSTOMER_1026	Failed to delete external params item
GLOBAL_1001	Service unavailable. Please try again

4.25.5 Examples

Request Body

```
{
  "id": [
    "e7fcef24-5c03-41dd-9e33-995b7d6f32b1",
    "ceb892d2-f24b-4007-bf81-999fe75cb635"
  ]
}
```

Response Body: Success ACK

```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
      "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370"
    }
  ],
  "pageable": {
    "page": 0,
    "size": 10,
    "totalPages": 1,
    "totalElements": 1
  }
}
```

Response Body: Failure NAK

```
{
  "errorCode": "CUSTOMER_1002",
  "errorMessage": "Customer does not exist",
  "content": "",
  "pageable": ""
}
```

4.26 Get Customer External Params Config

Get Customer External Params API is used to retrieve a single instance or multiple instances of External Parameters with their actual values of any relevant entity (account,

subscriber, plan, package) created by the user's account. Every API call retrieves instances per a single entity (UUID) hence entity type provided in the URL.

HTTP URL	
GET	/api/v2/customer/{id}/external-params-config

NOTE: {entity} can be one of the following ENUMs: 'customer', 'subscriber', 'plan', 'package'. To retrieve a 'Product' related External Param value, use 'plan' entity. Example: api/v2/customer/{id}/external-params-config/customer/a5ad9f06-0164-4475-8919-fcf1d4a4befe.

NOTE: Second {id} is the requested entity UUID (Customer [sub-account], Subscriber, or Offer or Package) following the {entity} provided in the URL right before.

4.26.1 Eligibility

The Requester is eligible to request information on External Parameters configuration items that were created by itself for its own account entities. The Requester is not eligible to request information on any other customer level, including its sub-accounts.

4.26.2 API Request

This API has no request structure.

4.26.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
id	UUID	M	External Parameter Configuration unique identifier

Element	Type	M/O/CM	Description
name	String	M	External Parameter Configuration name
displayName	String	O	External Parameter Configuration name to display to the user
Description	String	O	External Parameter Configuration description
entityType	String	M	External Parameter Configuration type. ENUM valid values: CUSTOMER, SUBSCRIBER, OFFER, PACKAGE
isSearchable	Boolean	M	<p>Determines whether the external parameter can be found by search.</p> <ul style="list-style-type: none"> ○ True: Can be searched and retrieved by the query ○ False: Hidden. Will not be retrieved by the query

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

4.26.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
CUSTOMER_1002	Customer does not exist
CUSTOMER_1019	Failed to retrieve external params config details

Code	Message
GLOBAL_1001	Service unavailable. Please try again

4.26.5 Examples

Request Body

```
{  
}
```

Response Body: Success ACK

```
{  
  "errorCode": "",  
  "errorMessage": "",  
  "content": [  
    {  
      "id": "e7fcef24-5c03-41dd-9e33-995b7d6f47a7",  
      "name": "externalSubscriberId",  
      "displayName": "External Subscriber Id",  
      "description": "The Id of the subscriber in external  
billing system",  
      "entityType": "CUSTOMER",  
      "isSearchable": true  
    },  
    {  
      "id": "a3ad8f06-0164-4675-8919-fcf7d4a4bebe",  
      "name": "systemName",  
      "displayName": "System Name",  
      "description": "The name of external billing system",  
    }  
  ]  
}
```

```
        "entityType": "OFFER",
        "isSearchable": false
    }
],
"pageable": {
    "page": 1,
    "size": 10,
    "totalPages": 1,
    "totalElements": 2
}
```

Response Body: Failure NAK

```
{
    "errorCode": "GLOBAL_1001",
    "errorMessage": "Service unavailable. Please try again",
    "content": "",
    "pageable": ""
}
```

4.27 Create Customer External Params Config

This API is used to create one or more new External Parameters configuration items for its own customer and for a given entity (Customer, Subscriber, Offer, Package) in a single call. When sending a request to create multiple External Parameters Configuration items in a single call, the result treats them as a single instance so that the result is either All Succeed, or All Fail.

The System limits the number of External Parameters Configuration items to five items per entity.

HTTP URL	
POST	/api/v2/customer/{id}/external-params-config/{entity}

NOTE: The {entity} valid ENUMs are customer, subscriber, package plan. For example: /api/v2/customer/{id}/external-params-config/customer

4.27.1 Eligibility

The Requester is eligible to create new External Parameters Configuration for its own customer entities only (sub-customers, its own subscribers, Sell plans, Sell packages). The Requester is not eligible to create new External Parameters Configuration items at any other customer level.

4.27.2 API Request

Request Structure

Parameter	Type	M/O/CM	Description
externalParamsConfig	Object	M	Array of External Parameter Configuration Object

externalParamsConfig data objects

Parameter	Type	M/O/CM	Description
name	String	M	External Parameter Configuration name. Must be unique per entity.
displayName	String	O	External Parameter Configuration name to display to the user
Description	String	O	External Parameter Configuration description
isSearchable	Boolean	O	Determines whether the external parameter can be found by search. <ul style="list-style-type: none"> ○ True: Can be searched and retrieved by the RSQL query ○ False: Hidden. Will not be retrieved by the RSQL query

Parameter	Type	M/O/CM	Description
			<ul style="list-style-type: none"> ○ Default: True

4.27.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Objec	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
requestId	UUID	M	<p>Request instance ID. To be used by external systems to query the call (operation) status:</p> <ul style="list-style-type: none"> ○ In progress ○ Successful ○ Failed

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

4.27.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
CUSTOMER_1020	Failed to create external params config item
GLOBAL_1001	Service unavailable. Please try again
GLOBAL_1019	Invalid entity name specified

4.27.5 Examples

Request Body

```
{
  "externalParamsConfig": [
    {
      "name": "externalCustomerId",
      "displayName": "External Customer Id",
      "description": "The Id of the customer in external billing system",
      "isSearchable": true
    },
    {
      "name": "systemName",
      "displayName": "System Name",
      "description": "The name of external billing system",
      "isSearchable": false
    }
  ]
}
```

Response Body: Success ACK

```
{
```

```
"errorCode": "",
"errorMessage": "",
"content": [
  {
    "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370"
  }
],
"pageable": {
  "page": 0,
  "size": 10,
  "totalPages": 1,
  "totalElements": 1
}
```

Response Body: Failure NAK

```
{
  "errorCode": "GLOBAL_1001",
  "errorMessage": "Service unavailable. Please try again",
  "content": "",
  "pageable": ""
}
```

4.28 Modify Customer External Params Config

This API is used to modify a single External Parameters Configuration item of its own customer entities (Sub-customer, Subscriber, Package, Plan).

HTTP URL	
POST	/api/v2/customer/{id}/external-params-config/{id}

The second {id} is the requested External Parameter Configuration item UUID.

4.28.1 Eligibility

The Requester is eligible to modify a single External Parameters Configuration item of its own customer entities (sub-customers, its own subscribers, Sell packages, Sell plans). The Requester is not eligible to modify an existing External Parameters Configuration item at any other customer level, including its own sub-customers' entities.

4.28.2 API Request

Request Structure

Parameter	Type	M/O/ CM	Description
name	String	M	External Parameter Configuration name. Must be unique per entity.
displayName	String	O	External Parameter Configuration name to display to the user
Description	String	O	External Parameter Configuration description
isSearchable	Boolean	M	Determines whether the external parameter can be found by search. True: Can be searched and retrieved by the RSQL query False: Hidden. Will not be retrieved by the RSQL query

4.28.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
requestId	UUID	M	<p>Request instance ID.</p> <p>To be used by external systems to query the call (operation) status:</p> <p>In progress</p> <p>Successful</p> <p>Failed</p>

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

4.28.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
CUSTOMER_1002	Customer does not exist
CUSTOMER_1020	Failed to update external params config item
GLOBAL_1001	Service unavailable. Please try again

4.28.5 Examples

Request Body

```
{
  "name": "externalSubscriberId",
  "displayName": "External Subscriber Id",
}
```

```
    "description": "The Id of the subscriber in Helly billing system",  
    "isSearchable": true  
}
```

Response Body: Success ACK

```
{  
  "errorCode": "",  
  "errorMessage": "",  
  "content": [  
    {  
      "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370"  
    }  
  ],  
  "pageable": {  
    "page": 0,  
    "size": 10,  
    "totalPages": 1,  
    "totalElements": 1  
  }  
}
```

Response Body: Failure NAK

```
{  
  "errorCode": "GLOBAL_1001",  
  "errorMessage": "Service unavailable. Please try again",  
  "content": "",  
  "pageable": ""  
}
```

```
}
```

4.29 Delete Customer External Params Config

Delete Customer External Params Config API is used to delete one or more External Parameters Configuration items of a specific Entity Type (Customer, Subscriber, or Offer or Package). Deletion is done as a soft deletion procedure. When sending a request to delete multiple External Parameters Configuration items in a single call, the result will treat them all hence it is either all External Parameters Configuration items deletion were succeeded, or all resulted with a failure.

NOTE: Delete External Params Config item, also deletes all his connected instances. Sending External Parameters Configuration item IDs for deletion, both as part of the URL and in the request itself will result in a “bad request” notification.

HTTP URL	
DELETE	/api/v2/customer/{id}/external-params-config/{id}

The second {id} is the requested External Parameter Configuration item UUID.

4.29.1 Eligibility

The Requester is eligible to delete a single or multiple External Parameters Configuration items of its own customer entities (sub-customers, its own subscribers, Sell packages and Sell plans). The Requester is not eligible delete existing External Parameters Configuration items at any other customer level, including its own sub-customers' entities.

4.29.2 API Request

Request Structure

Parameter	Type	M/O/CM	Description
id	UUID	O	Array of External Parameters Configuration item IDs to be deleted

4.29.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
requestId	UUID	M	Request instance ID. To be used by external systems to query the call (operation) status:

Element	Type	M/O/CM	Description
			In progress
			Successful
			Failed

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

4.29.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
CUSTOMER_1002	Customer does not exist
CUSTOMER_1022	Failed to delete external params config item

Code	Message
GLOBAL_1001	Service unavailable. Please try again

4.29.5 Examples

Request Body

```
{
  "id": [
    "e7fcef24-5c03-41dd-9e33-995b7d6f32b1",
    "ceb892d2-f24b-4007-bf81-999fe75cb635"
  ]
}
```

Response Body: Success ACK

```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
      "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370"
    }
  ],
  "pageable": {
    "page": 0,
    "size": 10,
    "totalPages": 1,
    "totalElements": 1
  }
}
```

```

    }
  }

```

Response Body: Failure NAK

```

{
  "errorCode": "CUSTOMER_1002",
  "errorMessage": "Customer does not exist",
  "content": "",
  "pageable": ""
}

```

4.30 Create Customer Offer

This API is used to create an individual offer (Regular Plan) or a Pool Plan for a sub-account (customer).

HTTP URL	
POST	api/v2/customer/{id}/offer

4.30.1 Eligibility

The Requester is eligible to create new individual offers or Pool Plans for his sub-customers use. The Requester is not eligible to create new individual offers or new Pool Plans for its own profile use.

4.30.2 API Request

Request Structure

Parameter	Type	M/O/CM	Description
name	String	M	Individual offer or Pool Plan offer name. Must be unique.

Parameter	Type	M/O/CM	Description
type	String	M	Type of the offer. ENUM valid values: USAGE, RATE, MONEY, POOL
renewalInterval	String	M	Renewal period interval. ENUM valid values: DAILY, WEEKLY, MONTHLY, QUARTERLY, SEMI_ANNUALLY, ANNUALLY, ONE_TIME
isProrated	Boolean	O	<p>Determines whether proration is calculated when plan is attached to a subscriber. Pool plan is not supported, so a True setting is ignored for a Pool plan. Rate plan is not yet supported, so this parameter has no effect for a Rate plan.</p> <p>Range:</p> <ul style="list-style-type: none"> True = Proration is calculated when a plan is attached to a subscriber. False = This plan is not prorated (upon plan attachment). <p>Default = False</p>
isIncludingAccessFee	Boolean	O	<p>Determine if the offer price already includes inherent access fee and surcharge fee.</p> <ul style="list-style-type: none"> True – Offer price includes access\surcharge fees. Once a calendar month, when registering on the network, the system will not charge additionally on top of the offer price. False – Offer price does not include access\surcharge fee. Once a calendar month, when registering on the network, the system will charge the access\surcharge fees in addition to the offer price. <p>Default – False</p>
money	Object	CM	Money type information object. Mandatory when MONEY offer type was selected. Ignored if either a RATE or USAGE offer type was selected.
rate	Object	O	Rate type limits definition object. Filled-in only if limits are set at least for DATA or SMS consumption. Ignored if either a USAGE or MONEY offer type was selected.
usage	Object	CM	Usage type information object. Mandatory when USAGE offer type was selected. Ignored if either a RATE or MONEY offer type was selected.
pool	Object	CM	Pool plan type information object. Mandatory when POOL offer type was selected. Ignored if any other offer type was selected (USAGE, RATE, MONEY).
availabilityZone	UUID	O	Array of availability zone IDs which are assigned to this plan. Empty array means that the plan is available in any zone.

Money data objects

Element	Type	M/O/CM	Description
value	Decimal	M	Offer monetary value. May contain decimal value.
currency	String	M	Offer currency. For example, USD, GBP, EUR
activationType	String	M	Defines plan activation behavior. ENUM: REGULAR, FIRST_EVENT_PERIODIC, FIRST_EVENT_NON_PERIODIC

Rate data objects

Element	Type	M/O/CM	Description
dataLimit	Decimal	O	Define the maximum allowed DATA usage consumption.
dataLimitUnitType	String	CM	<p>Data limit unit type. ENUM valid values: KB, MB, GB</p> <ul style="list-style-type: none"> ○ Mandatory when setting limit for data usage ('dataLimit'). ○ Ignored if 'dataLimit' element is empty.
smsLimit	Decimal	O	Define the maximum allowed SMS usage consumption. Unit counting is always a 'unit' for SMS type.

Usage data objects

Element	Type	M/O/CM	Description
cost	Decimal	M	Cost of the offer. May contain decimal value.
currency	String	M	Offer currency. for example, USD, GBP, EUR

Element	Type	M/O/CM	Description
activationType	String	M	Defines plan activation behavior. ENUM: REGULAR, FIRST_EVENT_PERIODIC, FIRST_EVENT_NON_PERIODIC
offerDepletion	Boolean	CM	Rater behavior when offer allowances were depleted.Range: <ul style="list-style-type: none"> ○ True = Continue charging according to offer rate: invalid for a Usage-type plan. If set to True, an error message is sent indicating that this setting is invalid. ○ False = Block charging. Default = False
usageType	Object	M	Array of usage types object.

Usage Type data objects

Element	Type	M/O/CM	Description
type	String	M	Type of the usage. ENUM valid values: DATA, SMS
value	Decimal	M	Allowance value. Data consumption for DATA type. Unit counting for SMS type.
unitType	String	CM	Usage unit type. DATA . ENUM valid values: KB, MB, GB <ul style="list-style-type: none"> ○ Mandatory for DATA usage type. Empty for SMS usage type. ○ Ignored if populated for SMS usage type.
limitValue	Decimal	O	Define usage limit value. <ul style="list-style-type: none"> ○ Data consumption for DATA type.

Element	Type	M/O/C M	Description
			<ul style="list-style-type: none"> Unit counting for SMS type. Limit added to both services only. Ignored for a Usage-type plan and an error message is returned.
limitUnitType	String	CM	Limit unit type. DATA ENUM valid values: KB, MB, GB. Mandatory when setting limit for DATA usage. Empty for SMS usage type. Ignored for a Usage-type plan and an error message is returned.

Pool data objects

Element	Type	M/O/C M	Description
subAccountID	UUID	M	UUID (Universal Unique ID) of the sub account that the new pool plan will serve. NOTE: No longer valid. Always populate with a NULL string.
type	String	M	Pool plan type. ENUM valid values: FIXED, ACCUMULATIVE
cost	Decimal	M	Cost of the offer. May contain decimal value.
currency	String	M	Offer currency. for example, USD, GBP, EUR
activationType	String	M	Defines pool plan activation behavior. ENUM: REGULAR, FIRST_EVENT_PERIODIC, FIRST_EVENT_NON_PERIODIC
usageType	Object	M	Array of usage types object.

4.30.3 API Response

Response Structure

Element	Type	M/O/C M	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/C M	Description
offerId	UUID	M	The UUID generated by a new offer
requestId	UUID	M	<p>Request instance ID.</p> <p>To be used by external systems to query the call (operation) status:</p> <p>In progress</p> <p>Successful</p> <p>Failed.</p>

Pageable data objects

Element	Type	M/O/C M	Description
page	Numeri c	M	Page number
size	Numeri c	M	Page size. Number of requested elements per page
totalPages	Numeri c	M	Total amount of available pages per requested page size
totalElemen ts	Numeri c	M	Total amount of retrieved elements

4.30.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_10 01	Service unavailable. Please try again

4.30.5 Examples

Request Body: Regular Plan

```
{
  "name": "Basic roaming bundle",
```

```
"type": "USAGE",
"renewalInterval": "ONE_TIME",
"isProrated": true,
"isIncludingAccessFee": false,
"availabilityZone": [
    "ab74dca1-8d7f-4b85-a42b-13822913c3b3"
],
"usage": {
    "cost": 20.5,
    "currency": "USD",
    "activationType": "REGULAR",
    "offerDepletion": false,
    "eligibleSubAccountIds": [
        "ee74dca6-8e7f-4b85-a42b-13860913b3b1",
        "ff74dca6-8e7f-4b85-a42b-13860913b370"
    ],
    "usageType": [
        {
            "type": "DATA",
            "value": 50,
            "unitType": "MB",
            "limitValue": 20,
            "limitUnitType": "MB"
        },
        {
            "type": "SMS",
            "value": 100,
            "unitType": "",
            "limitValue": 10,
```

```

        "limitUnitType": ""
    }
]
}
}

```

Request Body: Pool Plan

```

{
  "name": "Accumulative Basic Pool Plan",
  "type": "POOL",
  "renewalInterval": "MONTHLY",
  "isProrated": false,
  "isIncludingAccessFee": false,
  "availabilityZone": [
    "ab74dca1-8d7f-4b85-a42b-13822913c3b3"
  ],
  "pool": {
    "subAccountId": "ee74dca6-8e7f-4b85-a42b-13860913b3b1",
    "type": "ACCUMULATIVE",
    "cost": 20.5,
    "currency": "USD",
    "activationType": "REGULAR",
    "usageType": [
      {
        "type": "DATA",
        "value": 50,
        "unitType": "MB",
        "limitValue": 20,

```

```
        "limitUnitType": "MB"
      },
      {
        "type": "SMS",
        "value": 100,
        "unitType": "",
        "limitValue": 10,
        "limitUnitType": ""
      }
    ]
  }
}
```

Response Body: Success ACK

```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
      "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370",
      "offerId": "ee74dcd7-8e7f-4c45-a42b-13860913b129"
    }
  ],
  "pageable": {
    "page": 0,
    "size": 10,
    "totalPages": 1,
    "totalElements": 1
  }
}
```

```
}  
}
```

Response Body: Failure NAK

```
{  
  "errorCode": "GLOBAL_1001",  
  "errorMessage": "Service unavailable. Please try again",  
  "content": "",  
  "pageable": ""  
}
```

4.31 Create Customer Offer [V3]

This API is used to create an individual offer (Regular Plan) or a Pool Plan for one of the customer children (sub-customers).

Version 3 of this API includes these additional features:

- New Rate offer (plan) type with new capabilities, such as selective rates per offer (instead of cross-account offer)
- The ability to link an existing offer or offers to a newly created offer
- Plan Cost (charge for using the plan) availability to Rate-type offers
- Renewal-date comprehensive information
- Expiration-date comprehensive information

HTTP URL	
POST	/api/v3/customer/{id}/offer

4.31.1 Eligibility

The Requester is eligible to create new individual offers or Pool Plans for his sub-customers use.

The Requester is not eligible to create new individual offers or new Pool Plans for its own profile use.

4.31.2 API Request

Request Structure

Parameter	Type	M/O/CM	Description
name	String	M	Individual offer or Pool Plan offer name Must be unique.
description	String	O	Offer description
type	String	M	Offer type. ENUM valid values: USAGE, RATE, MONEY, POOL
cost	Decimal	M	Cost of the offer. May contain a decimal value. If no cost is applied, send 0 (zero).
currency	String	M	Cost currency, such as USD, GBP, EUR.
renewalInterval	String	M	Renewal period interval. ENUM valid values: DAILY, WEEKLY, MONTHLY, QUARTERLY, SEMI_ANNUALLY, ANNUALLY, ONE_TIME
renewalIntervalMethod	String	O	Determines how to set the renewal day.

Parameter	Type	M/O/CM	Description
			<ul style="list-style-type: none"> ○ ENUM valid values: ○ FIRST_DAY: Renewal day will be the first day of the renewal interval, for example, first of the month per MONTHLY interval. ○ SELF_DEFINED: Renewal day will be the day defined by the user, for example, 10th of the month per MONTHLY interval. ○ PLAN_ALLOCATION: Renewal day will be set based on the actual plan allocation (attachment) day. PLAN_ALLOCATION is not applicable to a Pool plan. <p>Default (not set) = FIRST_DAY</p>
renewalIntervalDay	Numeric	CM	<p>Determines the selected day of the selected period.</p> <ul style="list-style-type: none"> ○ ENUM valid values: ○ DAILY: N/A ○ WEEKLY: 1–7 ○ MONTHLY: 1–28 ○ QUARTERLY: 1–90 ○ SEMI_ANNUALLY: 1–180 ○ ANNUALLY: 1–365 ○ ONE_TIME: N/A ○ Mandatory only if the renewalIntervalMethod attribute has been set to SELF_DEFINED.

Parameter	Type	M/O/CM	Description
expirationType	String	O	<p>Determines how to set the expiration date.</p> <p>ENUM valid values:</p> <p>FIXED: Fixed, predefined expiration date.</p> <p>RELATIVE_ATTACHED: Time duration from the moment the plan was attached to the subscriber (SIM), for example, 10 days. RELATIVE_ATTACHED is not applicable to a Pool plan.</p> <p>RELATIVE_FIRST_USE: Time duration from the time the plan was first used by the subscriber, for example 10 days. RELATIVE_FIRST_USE is not applicable to a Pool plan.</p> <p>If not sent, the plan will not expire at all.</p>
expirationDate	Date	CM	<p>Determines the requested date as per the selected expirationType.</p> <p>Mandatory only if the expirationType parameter has been set to FIXED.</p> <p>If populated for other expirationType settings or if not set, it is ignored.</p>
expirationUnit	String	CM	<p>Determines the time unit that should be used for expiration calculation.</p> <p>ENUM valid values: DAY, WEEK, MONTH, YEAR</p> <p>Mandatory only if the expirationType parameter differs from FIXED.</p> <p>If populated for the FIXED expirationType parameter or if expirationType not set, it is ignored.</p>

Parameter	Type	M/O/CM	Description
expirationValue	Numeric	CM	<p>Determines the requested time value as per the selected expirationUnit.</p> <p>Mandatory only if the expirationType parameter differs from FIXED.</p> <p>If populated for the FIXED expirationType parameter or if expirationType not set, it is ignored.</p>
isProrated	Boolean	O	<p>Determines whether proration is calculated when the plan is attached to a subscriber.</p> <p>Pool plan is not supported, so turning this flag on for a Pool Plan is ignored.</p> <p>Rate plan is supported, but has no business meaning.</p> <p>Range:</p> <p>True = Proration is calculated when a plan is attached to a subscriber.</p> <p>False = This plan is not prorated (upon plan attachment).</p> <p>Default = False</p>
isIncludingAccessFee	Boolean	O	<p>Determine if the offer price already includes inherent access fee and surcharge fee.</p> <ul style="list-style-type: none"> ○ True – Offer price includes access\surcharge fees. Once a calendar month, when registering on the network, the system will not charge additionally on top of the offer price. ○ False – Offer price does not include access\surcharge fee. Once a calendar month, when registering on the network, the system will charge the

Parameter	Type	M/O/CM	Description
			<p>access\surcharge fees in addition to the offer price.</p> <p>Default – False</p>
money	Object	CM	<p>Money type information object.</p> <ul style="list-style-type: none"> ○ Mandatory when MONEY offer type was selected. ○ Ignored if a RATE, USAGE or POOL offer type was selected.
rate	Object	CM	<p>Rate type definition object.</p> <ul style="list-style-type: none"> ○ Mandatory when RATE offer type was selected. ○ Ignored if a USAGE, MONEY or POOL offer type was selected.
usage	Object	CM	<p>Usage type information object.</p> <ul style="list-style-type: none"> ○ Mandatory when a USAGE offer type was selected. ○ Ignored if a RATE, MONEY or POOL offer type was selected.
pool	Object	CM	<p>Pool plan type information object.</p> <ul style="list-style-type: none"> ○ Mandatory when the POOL offer type was selected. ○ Ignored if a USAGE, RATE or MONEY offer type was selected.
eligibleSubAccountIds	String	CM	<p>Array of sub account UUIDs. Specified sub-account(s) are the accounts that are eligible to view and manage (attach/detach) this plan as part of the self-service feature.</p>

Parameter	Type	M/O/CM	Description
			<p>If sent empty then none of the customer's sub-accounts are eligible for this offer.</p> <p>If the ALL keyword (ENUM) then all of the customer's sub-accounts are eligible for this offer.</p>
availabilityZone	UUID	O	<p>Array of availability zone IDs that are assigned to this plan.</p> <p>Empty array means that the plan is available in any zone.</p>
linkedOffers	Object	O	<p>Array of offer(s) object that should be linked to this offer. The order of the instances in the array determines their priority for charging.</p> <p>An Empty array means that the created offer will not have any linked offers.</p>

Money data objects

Element	Type	M/O/CM	Description
activationType	String	M	<p>Defines plan activation behavior.</p> <p>ENUM: REGULAR, FIRST_EVENT_PERIODIC, FIRST_EVENT_NON_PERIODIC</p>

Rate data objects

Element	Type	M/O/CM	Description
type	String	O	<p>Rate offer type. A Rate plan can be of these types: Account or Plan: Fixed.</p> <p>The Account rate-plan type defines a rate plan for all sub-accounts.</p> <p>A Plan:Fixed rate-plan type can tailor a fixed-rate plan for a specific sub account.</p> <p>ENUM valid values: ACCOUNT, PLAN_FIXED</p> <p>Default(if not sent): ACCOUNT</p>
activationType	String	O	<p>Define plan activation behavior. ENUM: REGULAR, FIRST_EVENT_PERIODIC, FIRST_EVENT_NON_PERIODIC.</p> <p>NOTE: If not provided, will be taken from the plan template.</p>
dataLimit	Decimal	O	Defines the maximum allowed DATA usage consumption.
dataLimitUnitType	String	CM	<p>Data limit unit type.</p> <p>ENUM valid values: KB, MB, GB</p> <p>Mandatory when setting limit for data usage ('dataLimit').</p> <p>Ignored if the 'dataLimit' element is empty.</p>
smsLimit	Decimal	O	Define the maximum allowed SMS usage consumption. Unit counting is always a 'unit' for SMS type.
price	Object	CM	Array of plan price object.

Element	Type	M/O/CM	Description
			Mandatory if the type is set to PLAN_FIXED. Ignored for the ACCOUNT type even if the value is filled in.

Price data objects

Element	Type	M/O/CM	Description
type	String	M	Usage type ENUM valid values: DATA, SMS
unitType	String	CM	Usage unit type = DATA. ENUM valid values: KB, MB, GB Mandatory for the DATA usage type. Empty for the SMS usage type. Ignored if populated for the SMS Usage type.
price	Decimal	M	Price per unit consumption. Data: Price per KB/MB/GB SMS: Price per SMS
currency	String	M	Price currency, such a USD, GBP, EUR

Usage data objects

Element	Type	M/O/CM	Description
activationType	String	M	Defines plan activation behavior. ENUM: REGULAR, FIRST_EVENT_PERIODIC, FIRST_EVENT_NON_PERIODIC
usageType	Object	M	Array of usage types object.

Usage Type data objects

Element	Type	M/O/CM	Description
type	String	M	Type of the usage. ENUM valid values: DATA, SMS
value	Decimal	M	Allowance value. Data consumption for DATA type. Unit counting for SMS type.
unitType	String	CM	Usage unit type. DATA ENUM valid values: KB, MB, GB Mandatory for DATA usage type. Empty for SMS usage type. Ignored if populated for SMS usage type.

Pool data objects

Element	Type	M/O/CM	Description
type	String	M	Pool plan type. ENUM valid values: FIXED, ACCUMULATIVE
activationType	String	M	Defines pool plan activation behavior. ENUM: REGULAR, FIRST_EVENT_PERIODIC, FIRST_EVENT_NON_PERIODIC
poolusageType	Object	M	Array of (pool) usage types object.

Pool Usage Type data objects

Element	Type	M/O/CM	Description
type	String	M	Type of the usage. ENUM valid values: DATA, SMS
value	Decimal	M	Allowance value. Data consumption for DATA type. Unit counting for SMS type.
unitType	String	CM	Usage unit type = DATA ENUM valid values: KB, MB, GB Mandatory for DATA usage type. Empty for SMS usage type. Ignored if populated for SMS usage type.
limitValue	Decimal	O	Defines usage limit value.

Element	Type	M/O/CM	Description
			Data consumption for DATA type. Unit counting for SMS type.
limitUnitType	String	CM	Limit unit type = DATA ENUM valid values: KB, MB, GB Mandatory when setting the limit for DATA usage. Empty for SMS usage type. Ignored if populated for SMS usage type.

Linked Offers data objects

Element	Type	M/O/CM	Description
id	UUID	M	Universal unique ID of the offer to link to this offer.
isPinned	Boolean	O	[Future Feature] Determines whether or not the linked offer can be removed from this newly created offer in the future. True = Linked offer is fixed and cannot be removed. False = Linked offer is not fixed and can be removed Default = True (if not sent) Future Feature so ignored if sent until implemented.
unitType	String	CM	Usage unit type = DATA ENUM valid values: KB, MB, GB Mandatory for DATA usage type. Empty for SMS usage type.

Element	Type	M/O/CM	Description
			Ignored if populated for SMS usage type.
limitValue	Decimal	O	Defines usage limit value. Data consumption for DATA type. Unit counting for SMS type.
limitUnitType	String	CM	Limit unit type = DATA ENUM valid values: KB, MB, GB Mandatory when setting the limit for DATA usage. Empty for SMS usage type. Ignored if populated for SMS usage type.

4.31.3 API Response

Response Structure

Element	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
offerId	UUID	M	The UUID generated by a new offer
requestId	UUID	M	<p>Request instance ID.</p> <p>To be used by external systems to query the call (operation) status:</p> <p>In progress</p> <p>Successful</p> <p>Failed.</p>

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

4.31.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again

4.31.5 Examples

Request Body: Regular Plan

```
{
  "name": "Basic roaming bundle",
  "description": "Basic roaming bundle description",
  "type": "USAGE",
  "cost": 20.5,
  "currency": "USD",
  "renewalInterval": "MONTHLY",
  "renewalIntervalMethod": "FIRST_DAY",
  "renewalIntervalDay": "",
  "expirationType": "FIXED",
  "expirationDate": "09092023",
  "expirationUnit": "",
  "expirationValue": "",
  "isProrated": true,
  "isIncludingAccessFee": false,
  "usage": {
    "activationType": "REGULAR",
    "usageType": [
      {
        "type": "DATA",
        "value": 50,
        "unitType": "MB"
      }
    ]
  }
}
```

```
    },  
    {  
      "type": "SMS",  
      "value": 100,  
      "unitType": ""  
    }  
  ]  
},  
"eligibleSubAccountIds": [  
  "ee74dca6-8e7f-4b85-a42b-13860913b3b1",  
  "ff74aca1-8d1f-4b85-a62a-93360913b370"  
],  
"availabilityZone": [  
  "ab74dca1-8d7f-4b85-a42b-13822913c3b3"  
],  
"linkedOffers": [  
  {  
    "id": "ff74dca6-8e7f-4b85-a42b-13860913b370",  
    "isPinned": true  
  },  
  {  
    "id": "ff74dba6-8e7f-4b15-a42b-13810913b371",  
    "isPinned": true  
  }  
]  
}
```

Request Body: Pool Plan

```
{
  "name": "Accumulative Basic Pool Plan",
  "description": "Basic roaming bundle description",
  "type": "POOL",
  "cost": 20.5,
  "currency": "USD",
  "renewalInterval": "MONTHLY",
  "renewalIntervalMethod": "FIRST_DAY",
  "renewalIntervalDay": "",
  "expirationType": "FIXED",
  "expirationDate": "09092023",
  "expirationUnit": "",
  "expirationValue": "",
  "isProrated": true,
  "isIncludingAccessFee": false,
  "pool": {
    "type": "ACCUMULATIVE",
    "activationType": "REGULAR",
    "poolUsageType": [
      {
        "type": "DATA",
        "value": 50,
        "unitType": "MB",
        "limitValue": 20,
        "limitUnitType": "MB"
      },
      {
        "type": "SMS",
        "value": 100,
```

```
        "unitType": "",
        "limitValue": 10,
        "limitUnitType": ""
    }
]
},
"eligibleSubAccountIds": [
    "ee74dca6-8e7f-4b85-a42b-13860913b3b1"
],
"availabilityZone": [
    "ab74dca1-8d7f-4b85-a42b-13822913c3b3"
],
"linkedOffers": [
    {
        "id": "ff74dca6-8e7f-4b85-a42b-13860913b370",
        "isPinned": true
    },
    {
        "id": "ff74dba6-8e7f-4b15-a42b-13810913b371",
        "isPinned": true
    }
]
}
```

Response Body: Success ACK

```
{
    "errorCode": "",
    "errorMessage": "",
```

```
"content": [  
  {  
    "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370",  
    "offerId": "ee74dcd7-8e7f-4c45-a42b-13860913b129"  
  }  
],  
"pageable": {  
  "page": 0,  
  "size": 10,  
  "totalPages": 1,  
  "totalElements": 1  
}  
}
```

Response Body: Failure NAK

```
{  
  "errorCode": "GLOBAL_1001",  
  "errorMessage": "Service unavailable. Please try again",  
  "content": "",  
  "pageable": ""  
}
```

4.32 Modify Customer Offer

This API is used to update the details of a single Sell Plan in the system. The API Request includes only those details that require modification. Do not include any elements that are not being modified because empty parameters override the existing values with a NULL value.

This API supports modifying the plans only of eligible sub-accounts.

HTTP URL	
PATCH	/api/v2/customer/{id}/offer/{id}/

NOTE: /offer/{id} is the catalog offering ID.

4.32.1 Eligibility

The Requester is eligible to request modifications on its own Sell Plans only. The Requester is not allowed to modify any other plans.

4.32.2 API Request

Request Structure

Parameter	Type	M/O/CM	Description
eligibleSubAccounts	UUID	O	<p>Array of sub account UUIDs. Specified sub account\’s are the accounts that are eligible to view and manage (attach/detach) this offer as part of the self-service feature. If sent empty – None of the customer’s sub-accounts are eligible to this offer. ‘ALL’ keyword (ENUM) - All the customer’s sub-accounts are eligible to this offer.</p> <p>NOTE: Removing an existing sub account that was already attached a SIM to this offer will eliminate the ability of the sub account to detach the SIM from this offer using the self-service mode</p>
availabilityZone	UUID	O	<p>Array of availability zone IDs that are assigned to this plan.</p> <p>Sending a populated array overrides the existing availability zones.</p>

Parameter	Type	M/O/CM	Description
			<p>Sending an empty array overrides existing availability zones.</p> <p>Not sending this parameter leaves all existing availability zones unchanged.</p>
renewalIntervalDay	Numeric	O	<p>Determines the new requested renewal day of the selected period. ENUM valid values:</p> <ul style="list-style-type: none"> ○ DAILY: N/A ○ WEEKLY: 1–7 ○ MONTHLY: 1–28 ○ QUARTERLY: 1–90 ○ SEMI_ANNUALLY: 1–180 ○ ANNUALLY: 1–365 ○ ONE_TIME: N/A <p>Can be used only if the plan is set with the SELF_DEFINED per renewalIntervalMethod attribute when the plan was created. Rejected if another renewalIntervalMethod, ENUM FIRST_DAY, PLAN_ALLOCATION, was selected.</p>
expirationDate	Date	O	<p>Determines the new requested expiration date per the chosen expirationType when the plan was created. Can be used only if the plan expirationType is set to FIXED. Rejected if populated with another expirationType.</p>
expirationUnit	String	O	<p>Determines the new requested time unit to be used for calculating the expiration date. per the chosen expirationType when the plan was created. ENUM valid values: DAY, WEEK, MONTH, YEAR. Can be used only if the selected expirationType differs from FIXED. Rejected if populated for FIXED expirationType.</p>

Parameter	Type	M/O/CM	Description
expirationValue	Numeric	O	<p>Determines the new requested time value for the selected expirationUnit parameter.</p> <p>Can be used only if the selected expirationType differs from FIXED.</p> <p>Rejected if populated for FIXED expirationType.</p> <p>Consider population this value if the expirationUnit parameter has been changed.</p>

4.32.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
requestId	UUID	M	<p>Request instance ID.</p> <p>To be used by external systems to query the call (operation) status:</p> <p>In progress</p> <ul style="list-style-type: none"> ○ Successful ○ Failed.

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

4.32.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
CUSTOMER_1002	Customer does not exist
CUSTOMER_1012	Unknown offer ID

4.32.5 Examples

Request Body

```
{
  "eligibleSubAccountIds": [
    "ff74dca6-8e7f-4b85-a42b-13860913b371",
    "ceb892d2-f24b-4007-bf81-999fe75cb635"
  ]
}
```

Response Body: Success ACK

```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
      "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b371"
    }
  ],
  "pageable": {
    "page": 0,
    "size": 10,
    "totalPages": 1,
    "totalElements": 1
  }
}
```

Response Body: Failure NAK

```
{
  "errorCode": "GLOBAL_1001",
```

```

    "errorMessage": "Service unavailable. Please try again",
    "content": "",
    "pageable": ""
  }

```

4.33 Get Customer Offers

This API is used to retrieve a list of all customer offers that were created by the customer, identified by “customer/{id}” in the following URL, for the customer/{id}’s sub-customers.

HTTP URL	
GET	/api/v2/customer/{id}/offer/created-offers

4.33.1 Eligibility

The Requester is eligible to request information on offers that it created and that are available for attachment to sub-customers.

4.33.2 API Request

Request Structure

This API has no request structure.

4.33.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.

Parameter	Type	M/O/CM	Description
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
id	UUID	M	Offer ID
name	String	M	Offer name
description	String	O	Offer description
type	String	M	Individual offer type. ENUM: RATE, MONEY, USAGE, POOL
creationTime	DateTime	M	Offer creation timestamp
expirationTime	DateTime	O	Offer expiration time
renewalInterval	String	M	Renewal period interval. ENUM valid values: DAILY, WEEKLY, MONTHLY, QUARTERLY, SEMI_ANNUALLY, ANNUALLY, ONE_TIME

Element	Type	M/O/CM	Description
isProrated	Boolean	M	Plan proration. True = Proration will be calculated when attaching this plan False = There is no proration A Pool plan is always False.
money	Object	CM	Money type object. Populated when a MONEY offer type is returned..
rate	Object	O	Rate type object. Populated when a RATE offer type is returned
usage	Object	CM	Usage type object. Populated when a USAGE offer type is populated Empty if a RATE, MONEY or POOL offer type is returned
pool	Object	CM	Pool plan type object. Populated when a POOL offer type is returned Empty if any other offer type is returned (USAGE, RATE, MONEY).

Money data objects

Element	Type	M/O/CM	Description
value	Decimal	M	Offer monetary value

Element	Type	M/O/CM	Description
currency	String	M	Offer currency. For example: USD, GBP, EUR
activationType	String	M	Displays plan activation behavior. Valid values: REGULAR FIRSTEVENT_PERIODIC FIRST_EVENT_NON_PERIODIC

Rate data objects

Element	Type	M/O/CM	Description
dataLimit	Decimal	O	Displays the maximal allowed DATA usage consumption.
dataLimitUnitType	String	CM	Data limit unit type. Valid values: KB, MB, GB Populated when data limit exists.
smsLimit	Decimal	O	Displays the maximal allowed SMS usage consumption. Unit counting is always a 'unit'.

Usage data objects

Element	Type	M/O/CM	Description
cost	Decimal	M	Cost of the offer

Element	Type	M/O/CM	Description
currency	String	M	Offer currency. For example., USD, GBP, EUR
activationType	String	M	Displays plan activation behavior. Valid values: REGULAR FIRSTEVENT_PERIODIC FIRST_EVENT_NON_PERIODIC
offerDepletion	Boolean	CM	Rater behavior when offer allowances were depleted. True = Charging will continue according to offer rate. False = Charging will be blocked For a Usage plan type, this attribute is always False .
usageType	Object	M	Array of usage types object. Usage Type data objects

Usage Type data objects

Element	Type	M/O/CM	Description
type	String	M	Type of the usage. Valid values: DATA, SMS
value	Decimal	M	Overall allowance value for regular offer or for FIXED-type Pool Plan.

Element	Type	M/O/CM	Description
			<p>Allowance value per every added subscriber for ACCUMULATIVE-type Pool Plan.</p> <p>Data consumption for DATA type.</p> <p>Unit counting for SMS type.</p>
unitType	String	CM	<p>Usage unit type. DATA related valid values: KB, MB, GB.</p> <p>Populated when usage type is set to DATA.</p>
limitValue	Decimal	O	<p>Displays usage limit value of a 'Pool' plan type.</p> <p>Data consumption for DATA type:</p> <p>Unit counting for SMS type.</p>
limitUnitType	String	CM	<p>Data limit unit type.</p> <p>Valid values: KB, MB, GB</p> <p>Populated when setting limit for DATA usage only.</p>

Pool data objects

Element	Type	M/O/CM	Description
subAccountId	UUID	M	<p>UUID (Universal Unique ID) of the sub account for which the Pool Plan was created. No longer valid. Populated always with a 'NULL' string</p>
subAccount	String	M	<p>Name of the sub account for which the Pool Plan was created. No longer valid. Populated always with a 'NULL' string.</p>

Element	Type	M/O/CM	Description
type	String	M	Pool plan type. Valid values: FIXED, ACCUMULATIVE
cost	Decimal	M	Cost of the offer for FIXED type. Cost that will be added per every added subscriber for ACCUMULATIVE type.
currency	String	M	Offer currency. For example, USD, GBP, EUR
activationType	String	M	Defines pool plan activation behavior. Valid values: REGULAR FIRSTEVENT_PERIODIC FIRST_EVENT_NON_PERIODIC
usageType	Object	M	Array of usage types object. Usage Type data objects

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size

Element	Type	M/O/CM	Description
totalElements	Numeric	M	Total amount of retrieved elements

4.33.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
CUSTOMER_1002	Customer does not exist
CUSTOMER_1006	Failed to retrieve customer details
GLOBAL_1001	Service unavailable. Please try again

4.33.5 Examples

Request Body

```
{  
}
```

Response Body: Regular Plan (Money) Success ACK

```
{  
  "errorCode": "",  
  "errorMessage": "",  
  "content": [  
    {
```

```
"id": "e7fcef24-5c03-41dd-9e33-995b7d6f47a7",
"name": "roaming",
"description": "roaming bundle",
"type": "MONEY",
"creationTime": "2020-07-01T00:00:00.977Z",
"expirationTime": "2020-07-31T00:59:09.977Z",
"renewalInterval": "MONTHLY",
"isProrated": true,
"money": [
  {
    "value": 300,
    "currency": "USD",
    "activationType": "REGULAR"
  }
],
{
  "id": "ff74dca6-8e7f-4b85-a42b-13860913b370",
  "name": "regular",
  "description": "regular bundle",
  "type": "MONEY",
  "creationTime": "2020-07-01T00:00:00.977Z",
  "expirationTime": "2020-07-31T00:59:09.977Z",
  "renewalInterval": "MONTHLY",
  "money": [
    {
      "value": 100,
      "currency": "GBP",
      "activationType": "REGULAR"
```

```
    }
  ]
}
],
"pageable": {
  "page": 1,
  "size": 10,
  "totalPages": 1,
  "totalElements": 2
}}
```

Response Body: Pool Plan Success ACK

```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
      "id": "e7fcef24-5c03-41dd-9e33-995b7d6f47a7",
      "name": "family 50GB+",
      "description": "family bundle",
      "type": "POOL",
      "creationTime": "2020-07-01T00:00:00.977Z",
      "expirationTime": "2020-07-31T00:59:09.977Z",
      "renewalInterval": "MONTHLY",
      "isProrated": false,
      "pool": [
        {
```

```
      "subAccountId": "e7fcef24-5c03-41dd-9e33-995b7d6f47a7",
      "subAccount": "Gualas LTD.",
      "type": "FIXED",
      "cost": 15,
      "currency": "USD",
      "activationType": "REGULAR",
      "usageType": [
        {
          "type": "DATA",
          "value": 50,
          "unitType": "GB",
          "limitValue": 20,
          "limitUnitType": "GB"
        },
        {
          "type": "SMS",
          "value": 100,
          "unitType": "",
          "limitValue": 10,
          "limitUnitType": ""
        }
      ]
    }
  ],
  "pageable": {
    "page": 1,
```



```
    "size": 10,  
    "totalPages": 1,  
    "totalElements": 2  
  }  
}
```

Response Body: Failure NAK

```
{  
  "errorCode": "GLOBAL_1001",  
  "errorMessage": "Service unavailable. Please try again",  
  "content": "",  
  "pageable": ""  
}
```

4.34 Get Customer Offers [Version 3]

This API is used to retrieve a list of all customer offers that were created by the customer, identified by “customer/{id}” in the following URL, for the customer/{id}’s sub-customers.

Version 3 of this API provides this additional information:

- Creation of a new Plan-type Rate offer
- Linked offer(s) information
- Rate-type offer(s) Plan Cost settings
- Renewal date comprehensive information
- Expiration date comprehensive information
- Self-service information

HTTP URL	
GET	/api/v3/customer/{id}/offer/created-offers

4.34.1 Eligibility

The Requester is eligible to request information on offers that it created and that are available for attachment to sub-customers.

4.34.2 API Request

This API has no request structure.

4.34.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
id	UUID	M	Offer ID

Element	Type	M/O/CM	Description
name	String	M	Offer name
description	String	O	Offer description
type	String	M	Individual offer type. ENUM: RATE, MONEY, USAGE, POOL
cost	Decimal	M	Cost of the offer. May contain a decimal value. If no cost is applied, send 0 (zero). POOL plan type definitions: FIXED : Cost of the offer, as like all other offer types ACCUMULATIVE : Cost that is added with every added subscriber
currency	String	M	Cost currency, such as USD, GBP, EUR.
creationTime	DateTime	M	Offer creation timestamp
renewalInterval	String	M	Renewal period interval. ENUM valid values: DAILY, WEEKLY, MONTHLY, QUARTERLY, SEMI_ANNUALLY, ANNUALLY, ONE_TIME
renewalIntervalMethod	String	CM	Determines how to set the renewal day. ENUM valid values:

Element	Type	M/O/CM	Description
			<ul style="list-style-type: none"> ○ FIRST_DAY: Renewal day will be the first day of the renewal interval, for example, first of the month per MONTHLY interval. ○ SELF_DEFINED: Renewal day will be the day defined by the user, for example, 10th of the month per MONTHLY interval. ○ PLAN_ALLOCATION: Renewal day will be set based on the actual plan allocation (attachment) day. ○ Empty for ONE_TIME renewal interval
renewalIntervalDay	Numeric	CM	<p>Determines the renewal day of the selected period.</p> <p>ENUM valid values:</p> <ul style="list-style-type: none"> ○ DAILY: N/A ○ WEEKLY: 1–7 ○ MONTHLY: 1–28 ○ QUARTERLY: 1–90 ○ SEMI_ANNUALLY: 1–180 ○ ANNUALLY: 1–365 ○ ONE_TIME: N/A <p>Populated only if SELF_DEFINED or FIRST_DAY has been set for the renewalIntervalMethod attribute.</p>

Element	Type	M/O/CM	Description
expirationType	String	O	<p>Determines how to set the expiration date.</p> <p>ENUM valid values:</p> <p>FIXED: Fixed, predefined expiration date.</p> <p>RELATIVE_ATTACHED: Time duration from the moment the plan was attached to the subscriber (SIM), for example, 10 days.</p> <p>RELATIVE_FIRST_USE: Time duration from the time the plan was first used by the subscriber, for example 10 days.</p> <p>If not sent, the plan will not expire at all.</p>
expirationDate	Date	CM	<p>Determines the requested date as per the selected expirationType.</p> <p>Populated only if the expirationType parameter has been set to FIXED.</p> <p>Empty for other expirationType settings or no expiration type.</p>
expirationUnit	String	CM	<p>Determines the time unit that should be used for expiration calculation.</p> <p>ENUM valid values: DAY, WEEK, MONTH, YEAR</p> <p>Empty if the selected expirationType is FIXED or no expiration type.</p>

Element	Type	M/O/CM	Description
expirationValue	Numeric	CM	<p>Determines the requested time value as per the selected expirationUnit.</p> <p>Empty if the selected expirationType is FIXED or no expiration type.</p>
isProrated	Boolean	M	<p>Plan proration.</p> <p>True = Proration will be calculated when attaching this plan</p> <p>False = There is no proration</p> <p>A Pool plan is always False.</p>
money	Object	CM	<p>Money type object.</p> <p>Populated when a MONEY offer type is returned</p> <p>Empty if a RATE, USAGE or POOL offer type is returned</p>
rate	Object	CM	<p>Rate type object.</p> <p>Populated when a RATE offer type is returned</p> <p>Empty if a USAGE, MONEY or POOL offer type is returned</p>
usage	Object	CM	<p>Usage type object.</p> <p>Populated when a USAGE offer type is returned</p> <p>Empty if a RATE, MONEY or POOL offer type is returned</p>
pool	Object	CM	<p>Pool plan type object.</p>

Element	Type	M/O/CM	Description
			<p>Populated when a POOL offer type is returned</p> <p>Empty if any other offer type is returned (USAGE, RATE, MONEY).</p>
eligibleSubAccountIds	String	M	<p>Array of sub account UUIDs. Specified sub account\ s are the accounts that are eligible to view and manage (attach/detach) this offer as part of the self-service feature.</p> <ul style="list-style-type: none"> ○ Empty string – None of the customer's sub-accounts are eligible to this offer. ○ 'ALL' keyword (ENUM) - All the customer's sub-accounts are eligible to this offer.
availabilityZone	Object	O	<p>Array of availability zones object that are assigned to this plan.</p> <p>Empty array means that the plan is available in any zone.</p>
linkedOffers	Object	O	<p>Array of offer(s) object linked to this offer. The order of the instances in the array determines their priority for charging.</p> <p>An Empty array means that the created offer has no linked offers.</p>

Money data objects

Element	Type	M/O/CM	Description
activationType	String	M	<p>Displays plan activation behavior.</p> <p>Valid values:</p> <ul style="list-style-type: none"> ○ REGULAR ○ FIRSTEVENT_PERIODIC ○ FIRST_EVENT_NON_PERIODIC

Rate data objects

Element	Type	M/O/CM	Description
type	String	M	<p>Rate offer type.</p> <p>ENUM valid values: ACCOUNT, PLAN_FIXED, PLAN_CUSTOMIZED</p>
dataLimit	Decimal	O	Displays the maximal allowed DATA usage consumption.
dataLimitUnitType	String	CM	<p>Data limit unit type. Valid values: KB, MB, GB</p> <p>Populated when data limit exists.</p>
smsLimit	Decimal	O	Displays the maximal allowed SMS usage consumption. Unit counting is always a 'unit'.

Usage data objects

Element	Type	M/O/CM	Description
activationType	String	M	<p>Displays plan activation behavior.</p> <p>Valid values:</p> <ul style="list-style-type: none"> ○ REGULAR ○ FIRSTEVENT_PERIODIC ○ FIRST_EVENT_NON_PERIODIC
usageType	Object	M	Array of usage types object.

Usage Type data objects

Element	Type	M/O/CM	Description
type	String	M	Type of the usage. Valid values: DATA, SMS
value	Decimal	M	Overall allowance value for regular offer or for FIXED-type Pool Plan. Allowance value per every added subscriber for ACCUMULATIVE-type Pool Plan. Data consumption for DATA type. Unit counting for SMS type.
unitType	String	CM	<ul style="list-style-type: none"> ○ Usage unit type = DATA ○ Valid values: KB, MB, GB. <p>Populated when usage type is set to DATA.</p>

Pool data objects

Element	Type	M/O/CM	Description
subAccount	String	M	Name of the sub account for which the Pool Plan was created. No longer valid. Populated always with a 'NULL' string. List of eligible sub accounts is provided in 'eligibleSubAccountIds'
type	String	M	Pool plan type. Valid values: FIXED, ACCUMULATIVE

Element	Type	M/O/CM	Description
activationType	String	M	<p>Defines pool plan activation behavior.</p> <p>Valid values:</p> <ul style="list-style-type: none"> ○ REGULAR ○ FIRSTEVENT_PERIODIC ○ FIRST_EVENT_NON_PERIODIC
poolusageType	Object	M	Array of (pool) usage types object.

Pool Usage Type data objects

Element	Type	M/O/CM	Description
type	String	M	<p>Type of the usage.</p> <p>ENUM valid values: DATA, SMS</p>
value	Decimal	M	<p>Allowance value.</p> <p>Data consumption for DATA type.</p> <p>Unit counting for SMS type.</p>
unitType	String	CM	<p>Usage unit type = DATA</p> <p>ENUM valid values: KB, MB, GB</p> <p>Mandatory for DATA usage type. Empty for SMS usage type.</p> <p>Ignored if populated for SMS usage type.</p>
limitValue	Decimal	O	<p>Defines usage limit value.</p> <p>Data consumption for DATA type.</p>

Element	Type	M/O/CM	Description
			Unit counting for SMS type.
limitUnitType	String	CM	<ul style="list-style-type: none"> Limit unit type = DATA ENUM valid values: KB, MB, GB Mandatory when setting the limit for DATA usage. Empty for SMS usage type. Ignored if populated for SMS usage type.

Availability Zone data objects

Element	Type	M/O/CM	Description
id	UUID	M	Universal unique ID of the customer's availability zones.
name	String	M	Customer's availability zone name.

Linked Offers data objects

Element	Type	M/O/CM	Description
id	UUID	M	Universal unique ID of the offer to link to this offer.
isPinned	Boolean	O	<p>Denotes whether or not the linked offer can be removed from the parent offer.</p> <ul style="list-style-type: none"> True = Linked offer is fixed and cannot be removed. False = Linked offer is not fixed and can be removed

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

4.34.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
CUSTOMER_1002	Customer does not exist
CUSTOMER_1006	Failed to retrieve customer details

4.34.5 Examples

Request Body

<pre>{ }</pre>

Response Body: Regular Plan (Money) Success ACK:

```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
      "id": "e7fcef24-5c03-41dd-9e33-995b7d6f47a7",
      "name": "roaming",
      "description": "roaming bundle",
      "type": "MONEY",
      "cost": 20.5,
      "currency": "USD",
      "creationTime": "2020-07-01T00:00:00.977Z",
      "renewalInterval": "MONTHLY",
      "renewalIntervalMethod": "FIRST_DAY",
      "renewalIntervalDay": "",
      "expirationType": "FIXED",
      "expirationDate": "13092023",
      "expirationUnit": "",
      "expirationValue": "",
      "isProrated": true,
      "availabilityZone": [
        {
          "id": "1b15048b-1ed4-4d34-a074-c7e26520e12a",
          "name": "North America 05"
        }
      ],
      "money": [
        {
```

```

        "activationType": "REGULAR"
    }
],
"eligibleSubAccountIds": [
    "ee74dca6-8e7f-4b85-a42b-13860913b3b1",
    "ff74dca6-8e7f-4b85-a42b-13860913b370"
],
"linkedOffers": [
    {
        "id": "ee74dca6-8e7f-4b85-a42b-13860913b3b1",
        "isPinned": true
    },
    {
        "id": "ff74dca6-8e7f-4b85-a42b-13860913b370",
        "isPinned": true
    }
]
},
{
    "id": "ff74dca6-8e7f-4b85-a42b-13860913b370",
    "name": "regular",
    "description": "regular bundle",
    "type": "MONEY",
    "creationTime": "2020-07-01T00:00:00.977Z",
    "renewalInterval": "MONTHLY",
    "renewalIntervalMethod": "SELF_DEFINED",
    "renewalIntervalDay": "10",
    "expirationType": "RELATIVE_ATTACHED",
    "expirationDate": "",

```

```
        "expirationUnit": "WEEK",
        "expirationValue": "4",
        "isProrated": true,
        "availabilityZone": [],
        "money": [
            {
                "activationType": "REGULAR"
            }
        ],
        "eligibleSubAccountIds": [],
        "linkedOffers": []
    }
],
"pageable": {
    "page": 1,
    "size": 10,
    "totalPages": 1,
    "totalElements": 2
}
}
```

Response Body: Pool Plan Success ACK

```
{
    "errorCode": "",
    "errorMessage": "",
    "content": [
        {
            "id": "e7fcef24-5c03-41dd-9e33-995b7d6f47a7",

```

```

"name": "family 50GB+",
"description": "family bundle",
"type": "POOL",
"creationTime": "2020-07-01T00:00:00.977Z",
"renewalInterval": "MONTHLY",
"renewalIntervalMethod": "FIRST_DAY",
"renewalIntervalDay": "",
"expirationType": "FIXED",
"expirationDate": "13092023",
"expirationUnit": "",
"expirationValue": "",
"isProrated": false,
"availabilityZone": [
  {
    "id": "1b15048b-1ed4-4d34-a074-c7e26520e12a",
    "name": "North America 05"
  }
],
"pool": [
  {
    "subAccount": "Gualas LTD.",
    "type": "FIXED",
    "cost": 15,
    "currency": "USD",
    "activationType": "REGULAR",
    "poolUsageType": [
      {
        "type": "DATA",
        "value": 50,

```



```
        "unitType": "GB",
        "limitValue": 20,
        "limitUnitType": "GB"
    },
    {
        "type": "SMS",
        "value": 100,
        "unitType": "",
        "limitValue": 10,
        "limitUnitType": ""
    }
]
}
],
"eligibleSubAccountIds": [
    "ee74dca6-8e7f-4b85-a42b-33860913b3b1"
],
"linkedOffers": [
    {
        "id": "ee74dca6-8e7f-4b85-a42b-13860913b3b1",
        "isPinned": true
    },
    {
        "id": "ff74dca6-8e7f-4b85-a42b-13860913b370",
        "isPinned": true
    }
]
}
],
```

```

    "pageable": {
      "page": 1,
      "size": 10,
      "totalPages": 1,
      "totalElements": 2
    }
  }
}

```

Response Body: Failure NAK

```

{
  "errorCode": "GLOBAL_1001",
  "errorMessage": "Service unavailable. Please try again",
  "content": "",
  "pageable": ""
}

```

4.35 Get Customer Offer Details [V3]

This API is used to retrieve the full data of a selected customer offer. The customer can retrieve the data of an offer it created itself for its sub-accounts or an offer assigned to it by its Parent account.

HTTP URL	
GET	/api/v3/customer/{id}/offer/{id}

4.35.1 Eligibility

The Requester is eligible to request information on offers that it created and that are available for attachment to sub-customers or offers assigned to it by its Parent account.

4.35.2 API Request

This API has no request structure.

4.35.3 API Reposnse

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
id	UUID	M	Product Offering ID
name	String	M	Offer name
description	String	O	Offer description
class	String	M	Offer classification. ENUM: SELL_PLAN, BUY_PLAN
type	String	M	Individual offer type.

Element	Type	M/O/CM	Description
			ENUM: RATE, MONEY, USAGE, POOL
cost	Decimal	M	<p>Cost of the offer. May contain a decimal value.</p> <p>If no cost is applied, send 0 (zero).</p> <p>POOL plan type definitions:</p> <p>FIXED: Cost of the offer, as like all other offer types</p> <p>ACCUMULATIVE: Cost that is added with every added subscriber</p>
currency	String	M	Cost currency, such as USD, GBP, EUR.
creationTime	DateTime	M	Offer creation timestamp
renewalInterval	String	M	<p>Renewal period interval.</p> <p>ENUM valid values: DAILY, WEEKLY, MONTHLY, QUARTERLY, SEMI_ANNUALLY, ANNUALLY, ONE_TIME</p>
renewalIntervalMethod	String	CM	<p>Determines how to set the renewal day.</p> <p>ENUM valid values:</p> <p>FIRST_DAY: Renewal day will be the first day of the renewal interval, for example, first of the month per MONTHLY interval.</p> <p>SELF_DEFINED: Renewal day will be the day defined by the user, for example, 10th of the month per MONTHLY interval.</p> <p>PLAN_ALLOCATION: Renewal day will be set based on the actual plan allocation (attachment) day.</p> <p>Empty for ONE_TIME renewal interval</p>

Element	Type	M/O/CM	Description
renewalIntervalDay	Numeric	CM	<p>Determines the renewal day of the selected period.</p> <p>ENUM valid values:</p> <p>DAILY: N/A</p> <p>WEEKLY: 1–7</p> <p>MONTHLY: 1–28</p> <p>QUARTERLY: 1–90</p> <p>SEMI_ANNUALLY: 1–180</p> <p>ANNUALLY: 1–365</p> <p>ONE_TIME: N/A</p> <p>Populated only if SELF_DEFINED or FIRST_DAY has been set for the renewalIntervalMethod attribute.</p>
expirationType	String	O	<p>Determines how to set the expiration date.</p> <p>ENUM valid values:</p> <p>FIXED: Fixed, predefined expiration date.</p> <p>RELATIVE_ATTACHED: Time duration from the moment the plan was attached to the subscriber (SIM), for example, 10 days.</p> <p>RELATIVE_FIRST_USE: Time duration from the time the plan was first used by the subscriber, for example 10 days.</p> <p>If not sent, the plan will not expire at all.</p>
expirationDate	Date	CM	<p>Determines the requested date as per the selected expirationType.</p> <p>Populated only if the expirationType parameter has been set to FIXED.</p>

Element	Type	M/O/CM	Description
			Empty for other expirationType settings or no expiration type.
expirationUnit	String	CM	<p>Determines the time unit that should be used for expiration calculation.</p> <p>ENUM valid values: DAY, WEEK, MONTH, YEAR</p> <p>Empty if the selected expirationType is FIXED or no expiration type.</p>
expirationValue	Numeric	CM	<p>Determines the requested time value as per the selected expirationUnit.</p> <p>Empty if the selected expirationType is FIXED or no expiration type.</p>
isProrated	Boolean	M	<p>Plan proration.</p> <p>True = Proration will be calculated when attaching this plan</p> <p>False = There is no proration</p> <p>A Pool plan is always False.</p>
money	Object	CM	<p>Money type object.</p> <p>Populated when a MONEY offer type is returned</p> <p>Empty if a RATE, USAGE or POOL offer type is returned</p> <p>money data objects.</p>
rate	Object	CM	<p>Rate type object.</p> <p>Populated when a RATE offer type is returned</p> <p>Empty if a USAGE, MONEY or POOL offer type is returned</p>

Element	Type	M/O/CM	Description
			rate data objects.
usage	Object	CM	<p>Usage type object.</p> <p>Populated when a USAGE offer type is returned</p> <p>Empty if a RATE, MONEY or POOL offer type is returned</p> <p>usage data objects.</p>
pool	Object	CM	<p>Pool plan type object.</p> <p>Populated when a POOL offer type is returned</p> <p>Empty if any other offer type is returned (USAGE, RATE, MONEY).</p> <p>pool data objects.</p>
eligibleSubAccountIds	UUID	CM	<p>[Future Feature]</p> <p>Array of sub account UUIDs. Specified sub account(s) are the accounts that are eligible to use this plan.</p> <p>POOL Plan type: A single sub-account is always displayed</p> <p>RATE, MONEY, USAGE types: Can be empty or filled with a single sub-account or multiple sub-accounts</p>
availabilityZone	Object	O	<p>Array of availability zones object that are assigned to this plan.</p> <p>Empty array means that the plan is available in any zone.</p> <p>availability zone data objects.</p>

Element	Type	M/O/CM	Description
linkedOffers	Object	O	<p>Array of offer(s) object linked to this offer. The order of the instances in the array determines their priority for charging.</p> <p>An Empty array means that the created offer has no linked offers.</p> <p>linked offers data objects.</p>

Money data objects

Element	Type	M/O/CM	Description
activationType	String	M	<p>Displays plan activation behavior.</p> <p>Valid values:</p> <p>REGULAR</p> <p>FIRSTEVENT_PERIODIC</p> <p>FIRST_EVENT_NON_PERIODIC</p>

Rate data objects

Element	Type	M/O/CM	Description
type	String	M	<p>Rate offer type.</p> <p>ENUM valid values: ACCOUNT, PLAN_FIXED, PLAN_CUSTOMIZED</p>
dataLimit	Decimal	O	Displays the maximal allowed DATA usage consumption.
dataLimitUnitType	String	CM	Data limit unit type. Valid values: KB, MB, GB

Element	Type	M/O/CM	Description
			Populated when data limit exists.
smsLimit	Decimal	O	Displays the maximal allowed SMS usage consumption. Unit counting is always a 'unit'.
price	Object	O	<p>Array of plan price object.</p> <p>Populated if the type element is PLAN_FIXED or PLAN_CUSTOMIZED.</p> <p>Empty if type is 'ACCOUNT'.</p> <p>price data objects</p>

Price data objects

Element	Type	M/O/CM	Description
serviceType	String	M	<p>Type of usage.</p> <p>ENUM valid values: DATA, SMS</p>
unitType	String	CM	<p>Usage unit type.</p> <p>ENUM valid values: KB, MB, GB</p> <p>Populated when serviceType is set to DATA.</p> <p>Empty when serviceType is set to SMS.</p>
type	String	M	<p>Price type.</p> <p>ENUM valid values: REGULAR, BLOCK, PASS</p>
price	Decimal	CM	<p>Price per unit consumption</p> <p>Data: Price per unit (KB/MB/GB) consumption</p> <p>SMS: Price per SMS consumption</p>

Element	Type	M/O/CM	Description
			Mandatory when type is set to REGULAR
currency	String	CM	Currency, such as USD, GBP, EUR Mandatory when type is set to REGULAR
countryCode	String	M	ISO alpha-3 Country Code
network	Object	M	Mobile Network object (Mobile) Network data objects

(Mobile) Network data objects

Element	Type	M/O/CM	Description
plmn	String	M	Public Land Mobile Network. MCCMNC representation
mcc	String	M	Mobile Country Code (MCC)
mnc	String	M	Mobile Network Code (MNC)

Usage data objects

Element	Type	M/O/CM	Description
activationType	String	M	Displays plan activation behavior. Valid values: REGULAR

Element	Type	M/O/CM	Description
			FIRSTEVENT_PERIODIC FIRST_EVENT_NON_PERIODIC
usageType	Object	M	Array of usage types object. Usage Type data objects

Usage Type data objects

Element	Type	M/O/CM	Description
type	String	M	Type of the usage. Valid values: DATA, SMS
value	Decimal	M	Overall allowance value for regular offer or for FIXED-type Pool Plan. Allowance value per every added subscriber for ACCUMULATIVE-type Pool Plan. Data consumption for DATA type. Unit counting for SMS type.
unitType	String	CM	Usage unit type = DATA Valid values: KB, MB, GB. Populated when usage type is set to DATA.

Pool data objects

Element	Type	M/O/CM	Description
subAccount	String	M	Name of the sub account for which the Pool Plan was created.
type	String	M	Pool plan type. Valid values: FIXED, ACCUMULATIVE
activationType	String	M	Defines pool plan activation behavior. Valid values: REGULAR FIRSTEVENT_PERIODIC FIRST_EVENT_NON_PERIODIC
poolusageType	Object	M	Array of (pool) usage types object. Pool Usage Type data objects

Pool Usage Type data objects

Element	Type	M/O/CM	Description
type	String	M	Type of the usage. ENUM valid values: DATA, SMS
value	Decimal	M	Allowance value. Data consumption for DATA type. Unit counting for SMS type.
unitType	String	CM	Usage unit type = DATA

Element	Type	M/O/CM	Description
			<p>ENUM valid values: KB, MB, GB</p> <p>Mandatory for DATA usage type. Empty for SMS usage type.</p> <p>Ignored if populated for SMS usage type.</p>
limitValue	Decimal	O	<p>Defines usage limit value.</p> <p>Data consumption for DATA type.</p> <p>Unit counting for SMS type.</p>
limitUnitType	String	CM	<p>Limit unit type = DATA</p> <p>ENUM valid values: KB, MB, GB</p> <p>Mandatory when setting the limit for DATA usage. Empty for SMS usage type.</p> <p>Ignored if populated for SMS usage type.</p>

Availability Zone data objects

Element	Type	M/O/CM	Description
id	UUID	M	Universal unique ID of the customer's availability zones.
name	String	M	Customer's availability zone name.

Linked Offers data objects

Element	Type	M/O/CM	Description
id	UUID	M	Universal unique ID of the offer to link to this offer.
isPinned	Boolean	O	<p>[Future Feature]</p> <p>Denotes whether or not the linked offer can be removed from the parent offer.</p> <p>True = Linked offer is fixed and cannot be removed.</p> <p>False = Linked offer is not fixed and can be removed</p>

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

4.35.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
CUSTOMER_1002	Customer does not exist
CUSTOMER_1006	Failed to retrieve customer details

4.35.5 Examples

Request Body

```
{  
}
```

Response Body: Regular Plan (Money) Success ACK

```
{  
  "errorCode": "",  
  "errorMessage": "",  
  "content": [  
    {  
      "id": "e7fcef24-5c03-41dd-9e33-995b7d6f47a7",  
      "name": "roaming",  
      "description": "roaming bundle",  
      "class": "SELL_PLAN",  
      "type": "MONEY",  
      "cost": 20.5,  
      "currency": "USD",  
      "creationTime": "2020-07-01T00:00:00.977Z",  
    }  
  ]  
}
```

```
"renewalInterval": "MONTHLY",
"renewalIntervalMethod": "FIRST_DAY",
"renewalIntervalDay": "",
"expirationType": "FIXED",
"expirationDate": "13092023",
"expirationUnit": "",
"expirationValue": "",
"isProrated": true,
"availabilityZone": [
  {
    "id": "1b15048b-1ed4-4d34-a074-c7e26520e12a",
    "name": "North America 05"
  }
],
"money": [
  {
    "activationType": "REGULAR"
  }
],
"eligibleSubAccountIds": [
  "ee74dca6-8e7f-4b85-a42b-13860913b3b1",
  "ff74dca6-8e7f-4b85-a42b-13860913b370"
],
"linkedOffers": [
  {
    "id": "ee74dca6-8e7f-4b85-a42b-13860913b3b1",
    "isPinned": true
  },

```



```
    {
      "id": "ff74dca6-8e7f-4b85-a42b-13860913b370",
      "isPinned": true
    }
  ]
},
],
"pageable": {
  "page": 1,
  "size": 10,
  "totalPages": 1,
  "totalElements": 2
}
}
```

Response Body: Pool Plan Success ACK

```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
      "id": "e7fcef24-5c03-41dd-9e33-995b7d6f47a7",
      "name": "Family 50GB+",
      "description": "Family bundle",
      "class": "SELL_PLAN",
      "type": "POOL",
      "cost": 15,
      "currency": "USD",
    }
  ]
}
```

```
"creationTime": "2020-07-01T00:00:00.977Z",
"renewalInterval": "MONTHLY",
"renewalIntervalMethod": "FIRST_DAY",
"renewalIntervalDay": "",
"expirationType": "FIXED",
"expirationDate": "13092023",
"expirationUnit": "",
"expirationValue": "",
"isProrated": false,
"pool": [
  {
    "subAccount": "Gualas LTD.",
    "type": "FIXED",
    "activationType": "REGULAR",
    "poolUsageType": [
      {
        "type": "DATA",
        "value": 50,
        "unitType": "GB",
        "limitValue": 20,
        "limitUnitType": "GB"
      },
      {
        "type": "SMS",
        "value": 100,
        "unitType": "",
        "limitValue": 10,
        "limitUnitType": ""
      }
    ]
  }
]
```

```

        ]
      }
    ],
    "eligibleSubAccountIds": [
      "b8fcef24-8a03-41ed-9e43-195b7d6d42a6"
    ],
    "availabilityZone": [
      {
        "id": "1b15048b-1ed4-4d34-a074-c7e26520e12a",
        "name": "North America 05"
      }
    ],
    "linkedOffers": [
      {
        "id": "ee74dca6-8e7f-4b85-a42b-13860913b3b1",
        "isPinned": true
      },
      {
        "id": "ff74dca6-8e7f-4b85-a42b-13860913b370",
        "isPinned": true
      }
    ]
  }
],
"pageable": {
  "page": 1,
  "size": 10,
  "totalPages": 1,
  "totalElements": 2
}

```

```
}  
}
```

Response Body: Failure NAK

```
{  
  "errorCode": "GLOBAL_1001",  
  "errorMessage": "Service unavailable. Please try again",  
  "content": "",  
  "pageable": ""  
}
```

4.36 Get Customer Offer Details V4

This API is used to retrieve comprehensive data for a specific customer offer. A customer can request details for either an offer they created for their sub-customers or an offer assigned to them by their parent account.

Method	Path
GET	api/v4/customer/{id}/offer/{id}

4.36.1 Eligibility

The requestor is eligible to request information on an offer that was created by them and is available for attachment to their sub-customers, or on an offer that has been assigned to them by their parent customer.

4.36.2 API Request

Request Structure

Not applicable

4.36.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code. See list below under the 'Error Codes' section.
errorMessage	String	O	Failure detailed description. See list below under the 'Error Codes' section.
content	Object	O	Array of main response body objects. Displayed when an API call is successful. For a failure, it will be empty.
pageable	Object	O	Paging information object. Displayed when an API call is successful. For a failure, it will be empty.

Content

Parameter	Type	M/O/CM	Description
id	UUID	M	Offer ID
name	String	M	Offer name
description	String	O	Offer description
class	String	M	Offer classification. ENUM valid values: SELL_PLAN, BUY_PLAN
type	String	M	Individual offer type. ENUM: RATE, MONEY, USAGE, POOL
cost	Decimal	M	Cost of the offer. May contain decimal value. If no cost is applied, the value presented would be zero.
currency	String	M	Cost currency. e.g., USD, GBP, EUR
creationTime	DateTime	M	Offer creation timestamp
renewalInterval	String	M	Renewal period interval. ENUM valid values: DAILY, WEEKLY, MONTHLY, QUARTERLY, SEMI_ANNUALLY, ANNUALLY, ONE_TIME
renewalIntervalMethod	String	CM	<p>Renewal day settings.</p> <ul style="list-style-type: none"> FIRST_DAY – Renewal day is the first day of the renewal interval. E.g., 1'st of the month per 'MONTHLY' interval. SELF_DEFINED – Renewal day is the day defined by the user. E.g., 10'th of the month per 'MONTHLY' interval. PLAN_ALLOCATION – Renewal day is set based on the actual plan allocation (attachment) day. <p>Empty for ONE_TIME renewal interval.</p>

Parameter	Type	M/O/CM	Description
renewalIntervalDay	Numeric	CM	<p>Chosen renewal day of the selected period. Valid values per ENUM:</p> <ul style="list-style-type: none"> ○ DAILY: N/A ○ WEEKLY: 1–7 ○ MONTHLY: 1–28 ○ QUARTERLY: 1–90 ○ SEMI_ANNUALLY: 1–180 ○ ANNUALLY: 1–365 ○ ONE_TIME: N/A <p>Populated only if SELF_DEFINED or FIRST_DAY was set per 'renewalIntervalMethod' attribute.</p>
expirationType	String	O	<p>Expiration date settings. ENUM valid values:</p> <ul style="list-style-type: none"> ○ FIXED – Fixed predefined expiration date. ○ RELATIVE_ATTACHED – Time duration starting the time the plan was attached to the subscriber. E.g., 10 days from plan attachment to the subscriber. ○ RELATIVE_FIRST_USE – Time duration starting the time the plan was used by the subscriber. E.g., 10 days from plan consumption by the subscriber. <p>Plan has no expiration if it is null.</p>
expirationDate	Date	CM	<p>Date settings per chosen 'expirationType'. Populated only if selected 'expirationType' is FIXED. Empty for other expiration types or no expiration type.</p>
expirationUnit	String	CM	<p>Time unit settings for expiration calculation. ENUM Valid values: DAY, WEEK, MONTH, YEAR</p> <p>Empty if selected 'expirationType' is FIXED or no expiration type.</p>

Parameter	Type	M/O/CM	Description
expirationValue	Numeric	CM	Time value settings per chosen 'expirationUnit'. Empty if selected 'expirationType' is FIXED or no expiration type.
isProrated	Boolean	M	Plan proration. True = Proration will be calculated when attaching this plan. False = There is no proration. Pool plan will be always marked as False.
isIncludingAccessFee	Boolean	M	Specifies if the offer price already includes inherent access fee and surcharge fee. True – Offer price includes access\surcharge fees. Once a calendar month, when registering on the network, the system will not charge additionally on top of the offer price. False – Offer price does not include access\surcharge fee. Once a calendar month, when registering on the network, the system will charge the access\surcharge fees in addition to the offer price.
money	Object	CM	Money type information object. Populated when MONEY offer type is returned. Empty if either RATE, USAGE or POOL offer type is returned.
rate	Object	CM	Rate type object. Populated when RATE offer type is returned. Empty if either USAGE, MONEY or POOL offer type is returned.
usage	Object	CM	Usage type object. Populated when USAGE offer type is populated. Empty if either RATE, MONEY or POOL offer type is returned.
pool	Object	CM	Pool plan type object. Populated when POOL offer type is returned. Empty if any other offer type is returned (USAGE, RATE, MONEY).
eligibleSubAccountIds	String	O	Array of sub account UUIDs. Specified sub account\s are the accounts that are eligible to use this plan. Array of sub account UUIDs. Specified sub account\s are the accounts that are eligible to view and manage (attach/detach) this offer as part of the self-service feature.

Parameter	Type	M/O/CM	Description
			Empty string – None of the customer's sub-accounts are eligible to this plan. 'ALL' keyword (ENUM) - All the customer's sub-accounts are eligible to this plan. May be populated for Sell Plans only. Does not exist for for Buy Plans. Developer note: Do not include the attribute for Buy Plans
availabilityZone	Object	O	Array of availability zones object which are assigned to this plan. Empty array means that the plan is available in any zone.
linkedOffers	Object	O	Array of offer's object linked to this offer. The order of the instances in the array determines their priority for charging. Empty array means that the created offer has no linked offers.
allocatedSubAccounts	Object	O	Array of offer instances (attached plans) and their information

Money

Parameter	Type	M/O/CM	Description
activationType	String	M	Displays plan activation behavior. Valid values: REGULAR, FIRST_EVENT_PERIODIC, FIRST_EVENT_NON_PERIODIC.

Rate

Parameter	Type	M/O/CM	Description
type	String	M	Rate offer type. ENUM valid values – ACCOUNT, PLAN_FIXED, PLAN_CUSTOMIZED.
dataLimit	Decimal	O	Displays the maximal allowed DATA usage consumption.
dataLimitUnitType	String	CM	Data limit unit type. Valid values - KB, MB, GB. Populated when data limit exists.
smsLimit	Decimal	O	Displays the maximal allowed SMS usage consumption. Unit counting is always a 'unit'.
price	Object	O	Array of plan price object. Populated if type is 'PLAN_FIXED' or 'PLAN_CUSTOMIZED'. Empty if type is 'ACCOUNT'.

Price

Parameter	Type	M/O/CM	Description
serviceType	String	M	Type of usage. ENUM valid values: DATA, SMS.
unitType	String	CM	Usage unit type. DATA ENUM valid values - KB, MB, GB. Populated for DATA usage type. Empty for SMS usage type.
type	String	M	Type of the price. ENUM valid values: REGULAR, BLOCK, PASS.
priceValue	Decimal	CM	Price per 1 unit consumption. Data – price per one KB/MB/GB consumption. SMS – price per one SMS consumption. Mandatory if 'type' is REGULAR.
currency	String	CM	Price currency. e.g., USD, GBP, EUR. Mandatory if 'type' is REGULAR.
countryCode	String	CM	ISO alpha-3 Country Code. Mandatory if rate plan type is 'PLAN_CUSTOMIZED'.
network	Object	CM	Mobile Network object. Mandatory if rate plan type is 'PLAN_CUSTOMIZED'.

Network

Parameter	Type	M/O/CM	Description
plmn	String	M	Public Land Mobile Network. MCCMNC representation.
mcc	String	M	Mobile Country Code (MCC).
mnc	String	M	Mobile Network Code (MNC).

Usage

Parameter	Type	M/O/CM	Description
activationType	String	M	Displays plan activation behavior. Valid values: REGULAR, FIRST_EVENT_PERIODIC, FIRST_EVENT_NON_PERIODIC.
usageType	Object	M	Array of usage types object.

usageType

Parameter	Type	M/O/CM	Description
type	String	M	Type of the usage. Valid values: DATA, SMS.

Parameter	Type	M/O/CM	Description
value	Decimal	M	Overall allowance value when the regular offer or pool plan is of type FIXED. Allowance value per every added subscriber when the pool plan type is ACCUMULATIVE. Data consumption for DATA type. Unit counting for SMS type.
unitType	String	CM	Usage unit type. DATA related valid values - KB, MB, GB. Populated when usage type is set to DATA.

Pool

Parameter	Type	M/O/CM	Description
type	String	M	Pool plan type. Valid values: FIXED, ACCUMULATIVE.
activationType	String	M	Displays plan activation behavior. Valid values: REGULAR, FIRST_EVENT_PERIODIC, FIRST_EVENT_NON_PERIODIC.
poolUsageType	Object	M	Array of usage types object.

poolUsageType

Parameter	Type	M/O/CM	Description
type	String	M	Type of the usage. ENUM valid values: DATA, SMS.
value	Decimal	M	Allowance value. Data consumption for DATA type. Unit counting for SMS type.
unitType	String	CM	Usage unit type. DATA ENUM valid values: KB, MB, GB. Mandatory for DATA usage type. Empty for SMS usage type. Ignored if populated for SMS usage type.
limitValue	Decimal	O	Define usage limit value. Data consumption for DATA type. Unit counting for SMS type.
limitUnitType	String	CM	Limit unit type. DATA ENUM valid values: KB, MB, GB. Mandatory when setting limit for DATA usage. Empty for SMS usage type. Ignored if populated for SMS usage type.

availabilityZone

Parameter	Type	M/O/CM	Description
Id	UUID	M	Customer's availability zone's universal unique identity.
name	String	M	Customer's availability zone name.

linkedOffers

Parameter	Type	M/O/CM	Description
id	UUID	M	Universal unique ID of the linked offer.
isPinned	Boolean	M	<p>Denotes whether the linked offer can be removed from the parent offer or not.</p> <ul style="list-style-type: none"> ○ True = Linked offer is fixed and cannot be removed. ○ False = Linked offer is not fixed and can be removed (Future feature – Currently not in use).

allocatedSubAccounts

Parameter	Type	M/O/CM	Description
id	UUID	M	Attached (allocated) customer ID.
name	String	M	Attached (allocated) customer name.
simCount	Numeric	M	Number of attached (allocated) SIMs to this customer.
package	UUID	M	Package ID that contains this offer instance. If empty, the offer instance is standalone and not included in a package.

pageable

Parameter	Type	M/O/CM	Description
page	Numeric	M	Page number.
size	Numeric	M	Page size. Number of requested elements per page.
totalPages	Numeric	M	Total amount of available pages per requested page size.
totalElements	Numeric	M	Total amount of retrieved elements.

4.36.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible:

Code	Message
GLOBAL_1001	Service unavailable. Please try again.
CUSTOMER_1002	Customer does not exist.
CUSTOMER_1006	Failed to retrieve customer details.

4.36.5 Examples

Request Body

Not applicable

Response Body Regular Plan (Money) Success ACK

```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
      "id": "e7fcef24-5c03-41dd-9e33-995b7d6f47a7",
      "name": "roaming",
      "description": "roaming bundle",
      "class": "SELL_PLAN",
      "type": "MONEY",
      "cost": 20.5,
      "currency": "USD",
      "creationTime": "2020-07-01T00:00:00.977Z",
      "renewalInterval": "MONTHLY",
      "renewalIntervalMethod": "FIRST_DAY",
      "renewalIntervalDay": "",
      "expirationType": "FIXED",
      "expirationDate": "13092023",
      "expirationUnit": "",
      "expirationValue": "",
      "isProrated": true,
    }
  ]
}
```

```
"isIncludingAccessFee": false,
"availabilityZone": [
  {
    "id": "1b15048b-1ed4-4d34-a074-c7e26520e12a",
    "name": "North America 05"
  }
],
"money": [
  {
    "activationType": "REGULAR"
  }
],
"eligibleSubAccountIds": [
  "ee74dca6-8e7f-4b85-a42b-13860913b3b1",
  "ff74dca6-8e7f-4b85-a42b-13860913b370"
],
"linkedOffers": [
  {
    "id": "ee74dca6-8e7f-4b85-a42b-13860913b3b1",
    "isPinned": true
  },
  {
    "id": "ff74dca6-8e7f-4b85-a42b-13860913b370",
    "isPinned": true
  }
],
"allocatedSubAccounts": [
  {
    "id": "f9f1b795-6474-4d2a-a4a0-dbbfdffb19bb",
    "name": "Lenovo",
```

```
        "simCount": "120",
        "package": "544f0911-0b93-4c94-8756-208e10a43ceb"
    },
    {
        "id": "dda92b58-2ef9-44eb-9a5f-55295c6c2799",
        "name": "Dell",
        "simCount": "101",
        "package": ""
    }
]
},
"pageable": {
    "page": 1,
    "size": 10,
    "totalPages": 1,
    "totalElements": 2
}
}
```

Response Body Pool Plan Success ACK:

```
{
    "errorCode": "",
    "errorMessage": "",
    "content": [
        {
            "id": "e7fcef24-5c03-41dd-9e33-995b7d6f47a7",
            "name": "Family 50GB+",
            "description": "Family bundle",
            "class": "SELL_PLAN",
```

```
"type": "POOL",
"cost": 15,
"currency": "USD",
"creationTime": "2020-07-01T00:00:00.977Z",
"renewalInterval": "MONTHLY",
"renewalIntervalMethod": "FIRST_DAY",
"renewalIntervalDay": "",
"expirationType": "FIXED",
"expirationDate": "13092023",
"expirationUnit": "",
"expirationValue": "",
"isProrated": false,
"isIncludingAccessFee": false,
"pool": [
  {
    "type": "FIXED",
    "activationType": "REGULAR",
    "poolUsageType": [
      {
        "type": "DATA",
        "value": 50,
        "unitType": "GB",
        "limitValue": 20,
        "limitUnitType": "GB"
      },
      {
        "type": "SMS",
        "value": 100,
        "unitType": "",
        "limitValue": 10,
```

```

        "limitUnitType": ""
    }
]
}
],
"eligibleSubAccountIds": [
    "b8fcef24-8a03-41ed-9e43-195b7d6d42a6"
],
"availabilityZone": [
    {
        "id": "1b15048b-1ed4-4d34-a074-c7e26520e12a",
        "name": "North America 05"
    }
],
"linkedOffers": [
    {
        "id": "ee74dca6-8e7f-4b85-a42b-13860913b3b1",
        "isPinned": true
    },
    {
        "id": "ff74dca6-8e7f-4b85-a42b-13860913b370",
        "isPinned": true
    }
],
"allocatedSubAccounts": [
    {
        "id": "f9f1b795-6474-4d2a-a4a0-dbbfd fba19bb",
        "name": "Lenovo",
        "simCount": "12",
        "package": "544f0911-0b93-4c94-8756-208e10a43ceb"
    }
]

```



```

        },
        {
            "id": "dda92b58-2ef9-44eb-9a5f-55295c6c2799",
            "name": "Dell",
            "simCount": "11",
            "package": ""
        }
    ]
}
],
"pageable": {
    "page": 1,
    "size": 10,
    "totalPages": 1,
    "totalElements": 2
}
}

```

Response Body Failure NAK

```

{
    "errorCode": "GLOBAL_1001",
    "errorMessage": "Service unavailable. Please try again",
    "content": "",
    "pageable": ""
}

```

4.37 Get My Offers

This API is used to retrieve a list of all customer offers that the parent customer attached to a given customer (identified by “customer/{id}” in the URL below).

HTTP URL	
GET	/api/v2/customer/{id}/offer/my-offers

4.37.1 Eligibility

The Requester is eligible to request information on individual offers, which were assigned to him by his parent customer.

4.37.2 API Request

Request Structure

This API has no request structure.

4.37.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
id	UUID	M	Offer ID
name	String	M	Offer name
description	String	O	Offer description
type	String	M	Individual offer type. ENUM: RATE, MONEY, USAGE, POOL
creationTime	DateTime	M	Offer creation timestamp
expirationTime	DateTime	O	Offer expiration time
renewalInterval	String	M	Renewal period interval. ENUM valid values: DAILY, WEEKLY, MONTHLY, QUARTERLY, SEMI_ANNUALLY, ANNUALLY, ONE_TIME
isProrated	Boolean	M	Plan proration. <ul style="list-style-type: none"> ○ True = Proration will be calculated when attaching this plan ○ False = There is no proration A Pool plan is always False.
isIncludingAccessFee	Boolean	M	Specifies if the offer price already includes inherent access fee and surcharge fee. <ul style="list-style-type: none"> ○ True – Offer price includes access\surcharge fees. Once a calendar month, when registering on the network, the system will not charge additionally on top of the offer price.

Element	Type	M/O/CM	Description
			<ul style="list-style-type: none"> ○ False – Offer price does not include access\surcharge fee. Once a calendar month, when registering on the network, the system will charge the access\surcharge fees in addition to the offer price.
money	Object	CM	<p>Money type object.</p> <ul style="list-style-type: none"> ○ Populated when MONEY offer type is returned. ○ Empty if a RATE, USAGE or POOL offer type is returned.
rate	Object	O	<p>Rate typeobject.</p> <ul style="list-style-type: none"> ○ Populated when RATE offer type is returned. ○ Empty if a USAGE, MONEY or POOL offer type is returned.
usage	Object	CM	<p>Usage type object.</p> <ul style="list-style-type: none"> ○ Populated when a USAGE offer type is populated. ○ Empty if a RATE, MONEY or POOL offer type is returned.
pool	Object	CM	<p>Pool plan type object.</p> <ul style="list-style-type: none"> ○ Populated when a POOL offer type is returned. ○ Empty if any other offer type is returned (USAGE, RATE, MONEY).

Money data objects

Element	Type	M/O/CM	Description
value	Decimal	M	Offer monetary value
currency	String	M	Offer currency, for example, USD, GBP, EUR
activationType	String	M	<p>Displays plan activation behavior.</p> <p>Valid values:</p> <p>REGULAR</p> <p>FIRST_EVENT_PERIODIC</p> <p>FIRST_EVENT_NON_PERIODIC</p>

Rate data objects

Element	Type	M/O/CM	Description
dataLimit	Decimal	O	Displays the maximal allowed DATA usage consumption.
dataLimitUnitType	String	CM	<p>Data limit unit type.</p> <p>Valid values:</p> <p>KB</p> <p>MB</p> <p>GB</p> <p>Populated when data limit exists.</p>
smsLimit	Decimal	O	Displays the maximal allowed SMS usage consumption. Unit counting is always a 'unit'.

Usage data objects

Element	Type	M/O/CM	Description
cost	Decimal	M	Cost of the offer
currency	String	M	Offer currency, for example, USD, GBP, EUR
activationType	String	M	Displays plan activation behavior. Valid values: REGULAR FIRST_EVENT_PERIODIC FIRST_EVENT_NON_PERIODIC
offerDepletion	Boolean	CM	Rater behavior when offer allowances have been depleted. True = Charging will continue according to offer rate False = Charging will be blocked
usageType	Object	M	Array of usage types object.

Usage Type data objects

Element	Type	M/O/CM	Description
type	String	M	Type of the usage. Valid values: DATA, SMS
value	Decimal	M	Overall allowance value when regular offer or pool plan of type FIXED.

Element	Type	M/O/CM	Description
			<p>Allowance value per every added subscriber when pool plan and its type is ACCUMULATIVE.</p> <p>Data consumption for DATA type.</p> <p>Unit counting for SMS type.</p>
unitType	String	CM	<p>Usage unit type. DATA related valid values: KB, MB, GB.</p> <p>Populated when usage type is set to DATA.</p>
limitValue	Decimal	O	<p>Displays usage limit value</p> <p>Data consumption for DATA type.</p> <p>Unit counting for SMS type.</p>
limitUnitType	String	CM	<p>Data limit unit type. Valid values: KB, MB, GB</p> <p>Populated when setting limit for DATA usage only.</p>

Pool data objects

Element	Type	M/O/CM	Description
type	String	M	<p>Pool plan type.</p> <p>Valid values: FIXED, ACCUMULATIVE</p>
cost	Decimal	M	<p>Cost of the offer when type value is FIXED.</p> <p>Cost that will be added per every added subscriber when type is ACCUMULATIVE</p>

Element	Type	M/O/CM	Description
currency	String	M	Offer currency, for example, USD, GBP, EUR
activationType	String	M	Displays plan activation behavior. Valid values: REGULAR FIRST_EVENT_PERIODIC FIRST_EVENT_NON_PERIODIC
usageType	Object	M	Array of usage types object.

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

4.37.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
CUSTOMER_1002	Customer does not exist
CUSTOMER_1006	Failed to retrieve customer details
GLOBAL_1001	Service unavailable. Please try again

4.37.5 Examples

Request Body

```
{  
}
```

Response Body: Regular Plan (Money) Success ACK

```
{  
  "errorCode": "",  
  "errorMessage": "",  
  "content": [  
    {  
      "id": "e7fcef24-5c03-41dd-9e33-995b7d6f47a7",  
      "name": "roaming",  
      "description": "roaming bundle",  
      "type": "MONEY",  
      "creationTime": "2020-07-01T00:00:00.977Z",  
      "expirationTime": "2020-07-31T00:59:09.977Z",  
      "renewalInterval": "MONTHLY",  
      "isProrated": true,  
    }  
  ]  
}
```

```
"isIncludingAccessFee": false,
"availabilityZone": [
  {
    "id": "1b15048b-1ed4-4d34-a074-c7e26520e12a",
    "name": "North America 05"
  }
],
"money": [
  {
    "value": 300,
    "currency": "USD",
    "activationType": "REGULAR"
  }
],
},
{
  "id": "ff74dca6-8e7f-4b85-a42b-13860913b370",
  "name": "regular",
  "description": "regular bundle",
  "type": "MONEY",
  "creationTime": "2020-07-01T00:00:00.977Z",
  "expirationTime": "2020-07-31T00:59:09.977Z",
  "renewalInterval": "MONTHLY",
  "isProrated": true,
  "availabilityZone": [],
  "money": [
    {
      "value": 100,
      "currency": "GBP",
```

```
        "activationType": "REGULAR"
      }
    ]
  }
],
"pageable": {
  "page": 1,
  "size": 10,
  "totalPages": 1,
  "totalElements": 2
}
}
```

Response Body: Pool Plan Success ACK

```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
      "id": "e7fcef24-5c03-41dd-9e33-995b7d6f47a7",
      "name": "family 50GB+",
      "description": "family bundle",
      "type": "POOL",
      "creationTime": "2020-07-01T00:00:00.977Z",
      "expirationTime": "2020-07-31T00:59:09.977Z",
      "renewalInterval": "MONTHLY",
      "isProrated": false,
      "isIncludingAccessFee": false,
    }
  ]
}
```

```
"availabilityZone": [  
  {  
    "id": "1b15048b-1ed4-4d34-a074-c7e26520e12a",  
    "name": "North America 05"  
  }  
],  
"pool": [  
  {  
    "type": "FIXED",  
    "cost": 15,  
    "currency": "USD",  
    "activationType": "REGULAR",  
    "usageType": [  
      {  
        "type": "DATA",  
        "value": 50,  
        "unitType": "GB",  
        "limitValue": 20,  
        "limitUnitType": "GB"  
      },  
      {  
        "type": "SMS",  
        "value": 100,  
        "unitType": "",  
        "limitValue": 10,  
        "limitUnitType": ""  
      }  
    ]  
  }  
]
```

```
    ]
  }
],
"pageable": {
  "page": 1,
  "size": 10,
  "totalPages": 1,
  "totalElements": 2
}
```

Response Body: Failure NAK

```
{
  "errorCode": "GLOBAL_1001",
  "errorMessage": "Service unavailable. Please try again",
  "content": "",
  "pageable": ""
}
```

4.38 Get My Offers [Version 3]

This API enables users to choose whether to retrieve information on the offers attached to their account or retrieve information on offers attached to a sub-account.

Version 3 of this API provides this additional information:

- Creation of a new Plan-type Rate offer
- Linked offer(s) information
- Rate-type offer(s) Plan Cost settings

- Renewal date comprehensive information
- Expiration date comprehensive information

HTTP URL	
GET	/api/v3/customer/{id}/offer/my-offers

Customer {id} can be either the user's own customer ID or one of the customer sub-account ID:

- Own customer ID: Retrieved information of all offers which were created and attached (allocated) to my account.
- Sub customer ID: Retrieved information of all offers which were created and attached (allocated) to this given sub account.

4.38.1 Eligibility

The requester is eligible to request information on individual offers attached to them by their parent customer or on individual offers linked to sub-account subscribers.

4.38.2 API Request

This API has no request structure.

4.38.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.

Parameter	Type	M/O/CM	Description
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
id	UUID	M	Offer ID
name	String	M	Offer name
description	String	O	Offer description
type	String	M	Individual offer type. ENUM: RATE, MONEY, USAGE, POOL
cost	Decimal	M	Cost of the offer. May contain a decimal value. If no cost is applied, send 0 (zero). POOL plan type definitions: <ul style="list-style-type: none"> ○ FIXED: Cost of the offer, as like all other offer types ○ ACCUMULATIVE: Cost that is added with every added subscriber
currency	String	M	Cost currency, such as USD, GBP, EUR.

Element	Type	M/O/CM	Description
creationTime	DateTime	M	Offer creation timestamp
renewalInterval	String	M	<p>Renewal period interval.</p> <p>ENUM valid values: DAILY, WEEKLY, MONTHLY, QUARTERLY, SEMI_ANNUALLY, ANNUALLY, ONE_TIME</p>
renewalIntervalMethod	String	CM	<p>Determines how to set the renewal day.</p> <p>ENUM valid values:</p> <ul style="list-style-type: none"> ○ FIRST_DAY: Renewal day will be the first day of the renewal interval, for example, first of the month per MONTHLY interval. ○ SELF_DEFINED: Renewal day will be the day defined by the user, for example, 10th of the month per MONTHLY interval. ○ PLAN_ALLOCATION: Renewal day will be set based on the actual plan allocation (attachment) day. ○ Empty for ONE_TIME renewal interval
renewalIntervalDay	Numeric	CM	<p>Determines the renewal day of the selected period.</p> <p>ENUM valid values:</p> <ul style="list-style-type: none"> ○ DAILY: N/A ○ WEEKLY: 1–7 ○ MONTHLY: 1–28 ○ QUARTERLY: 1–90 ○ SEMI_ANNUALLY: 1–180

Element	Type	M/O/CM	Description
			<ul style="list-style-type: none"> ○ ANNUALLY: 1–365 <p>ONE_TIME: N/A</p> <p>Populated only if SELF_DEFINED or FIRST_DAY has been set for the renewalIntervalMethod attribute.</p>
expirationType	String	O	<p>Determines how to set the expiration date.</p> <p>ENUM valid values:</p> <ul style="list-style-type: none"> ○ FIXED: Fixed, predefined expiration date. ○ RELATIVE_ATTACHED: Time duration from the moment the plan was attached to the subscriber (SIM), for example, 10 days. ○ RELATIVE_FIRST_USE: Time duration from the time the plan was first used by the subscriber, for example 10 days. <p>If not sent, the plan will not expire at all.</p>
expirationDate	Date	CM	<p>Determines the requested date as per the selected expirationType.</p> <ul style="list-style-type: none"> ○ Populated only if the expirationType parameter has been set to FIXED. ○ Empty for other expirationType settings or no expiration type.
expirationUnit	String	CM	<p>Determines the time unit that should be used for expiration calculation.</p> <p>ENUM valid values: DAY, WEEK, MONTH, YEAR</p>

Element	Type	M/O/CM	Description
			Empty if the selected expirationType is FIXED or no expiration type.
expirationValue	Numeric	CM	<p>Determines the requested time value as per the selected expirationUnit.</p> <p>Empty if the selected expirationType is FIXED or no expiration type.</p>
isProrated	Boolean	M	<p>Plan proration.</p> <ul style="list-style-type: none"> ○ True = Proration will be calculated when attaching this plan ○ False = There is no proration <p>A Pool plan is always False.</p>
isIncludingAccessFee	Boolean	M	<p>Specifies if the offer price already includes inherent access fee and surcharge fee.</p> <ul style="list-style-type: none"> ○ True – Offer price includes access\surcharge fees. Once a calendar month, when registering on the network, the system will not charge additionally on top of the offer price. ○ False – Offer price does not include access\surcharge fee. Once a calendar month, when registering on the network, the system will charge the access\surcharge fees in addition to the offer price.
money	Object	CM	<p>Money type object.</p> <p>Populated when MONEY offer type is returned</p> <p>Empty if a RATE, USAGE or POOL offer type is returned</p>

Element	Type	M/O/CM	Description
rate	Object	CM	<p>Rate type object.</p> <ul style="list-style-type: none"> ○ Populated when RATE offer type is returned ○ Empty if a USAGE, MONEY or POOL offer type is returned
usage	Object	CM	<p>Usage type object.</p> <p>Populated when a USAGE offer type is populated</p> <p>Empty if a RATE, MONEY or POOL offer type is returned</p>
pool	Object	CM	<p>Pool plan type object.</p> <p>Populated when a POOL offer type is returned</p> <p>Empty if any other offer type is returned (USAGE, RATE, MONEY).</p>
availabilityZone	Object	O	<p>Array of availability zones object that are assigned to this plan.</p> <p>Empty array means that the plan is available in any zone.</p>
linkedOffers	Object	O	<p>Array of offer(s) object linked to this offer. The order of the instances in the array determines their priority for charging.</p> <p>An Empty array means that the created offer has no linked offers.</p>

Money data objects

Element	Type	M/O/CM	Description
activationType	String	M	Displays plan activation behavior. Valid values: REGULAR FIRSTEVENT_PERIODIC FIRST_EVENT_NON_PERIODIC

Rate data objects

Element	Type	M/O/CM	Description
type	String	M	Rate offer type. ENUM valid values: ACCOUNT, PLAN_FIXED, PLAN_CUSTOMIZED
dataLimit	Decimal	O	Displays the maximal allowed DATA usage consumption.
dataLimitUnitType	String	CM	Data limit unit type. Valid values: KB, MB, GB Populated when data limit exists.
smsLimit	Decimal	O	Displays the maximal allowed SMS usage consumption. Unit counting is always a 'unit'.

Usage data objects

Element	Type	M/O/CM	Description
activationType	String	M	<p>Displays plan activation behavior.</p> <p>Valid values:</p> <ul style="list-style-type: none"> ○ REGULAR ○ FIRSTEVENT_PERIODIC ○ FIRST_EVENT_NON_PERIODIC
usageType	Object	M	Array of usage types object.

Usage Type data objects

Element	Type	M/O/CM	Description
type	String	M	Type of the usage. Valid values: DATA, SMS
value	Decimal	M	<p>Overall allowance value for regular offer or for FIXED-type Pool Plan.</p> <ul style="list-style-type: none"> ○ Allowance value per every added subscriber for ACCUMULATIVE-type Pool Plan. ○ Data consumption for DATA type. ○ Unit counting for SMS type.
unitType	String	CM	<ul style="list-style-type: none"> ○ Usage unit type = DATA ○ Valid values: KB, MB, GB. <p>Populated when usage type is set to DATA.</p>

Pool data objects

Element	Type	M/O/CM	Description
type	String	M	Pool plan type. Valid values: FIXED, ACCUMULATIVE
activationType	String	M	Defines pool plan activation behavior. Valid values: <ul style="list-style-type: none"> REGULAR FIRSTEVENT_PERIODIC FIRST_EVENT_NON_PERIODIC
poolusageType	Object	M	Array of (pool) usage types object.

Pool Usage Type data objects

Element	Type	M/O/CM	Description
type	String	M	Type of the usage. ENUM valid values: DATA, SMS
value	Decimal	M	Allowance value. Data consumption for DATA type. Unit counting for SMS type.
unitType	String	CM	Usage unit type = DATA ENUM valid values: KB, MB, GB

Element	Type	M/O/CM	Description
			Mandatory for DATA usage type. Empty for SMS usage type. Ignored if populated for SMS usage type.
limitValue	Decimal	O	Defines usage limit value. Data consumption for DATA type. Unit counting for SMS type.
limitUnitType	String	CM	Limit unit type = DATA ENUM valid values: KB, MB, GB Mandatory when setting the limit for DATA usage. Empty for SMS usage type. Ignored if populated for SMS usage type.

Availability Zone data objects

Element	Type	M/O/CM	Description
id	UUID	M	Universal unique ID of the customer's availability zones.
name	String	M	Customer's availability zone name.

Linked Offers data objects

Element	Type	M/O/CM	Description
id	UUID	M	Universal unique ID of the offer to link to this offer.
isPinned	Boolean	O	<p>[Future Feature]</p> <p>Denotes whether or not the linked offer can be removed from the parent offer.</p> <p>True = Linked offer is fixed and cannot be removed.</p> <p>False = Linked offer is not fixed and can be removed</p>

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

4.38.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
CUSTOMER_1002	Customer does not exist
CUSTOMER_1006	Failed to retrieve customer details

4.38.5 Examples

Request Body

```
{  
}
```

Response Body: Regular Plan (Money) Success ACK

```
{  
  "errorCode": "",  
  "errorMessage": "",  
  "content": [  
    {  
      "id": "e7fcef24-5c03-41dd-9e33-995b7d6f47a7",  
      "name": "roaming",  
      "description": "roaming bundle",  
      "type": "MONEY",  
      "creationTime": "2020-07-01T00:00:00.977Z",  
      "expirationTime": "2020-07-31T00:59:09.977Z",  
      "renewalInterval": "MONTHLY",  
      "isProrated": true,  
    }  
  ]  
}
```

```
"isIncludingAccessFee": false,
"availabilityZone": [
  {
    "id": "1b15048b-1ed4-4d34-a074-c7e26520e12a",
    "name": "North America 05"
  }
],
"money": [
  {
    "value": 300,
    "currency": "USD",
    "activationType": "REGULAR"
  }
],
},
{
  "id": "ff74dca6-8e7f-4b85-a42b-13860913b370",
  "name": "regular",
  "description": "regular bundle",
  "type": "MONEY",
  "creationTime": "2020-07-01T00:00:00.977Z",
  "expirationTime": "2020-07-31T00:59:09.977Z",
  "renewalInterval": "MONTHLY",
  "isProrated": true,
  "availabilityZone": [],
  "money": [
    {
      "value": 100,
      "currency": "GBP",
```

```
        "activationType": "REGULAR"
      }
    ]
  }
],
"pageable": {
  "page": 1,
  "size": 10,
  "totalPages": 1,
  "totalElements": 2
}
}
```

Response Body: Pool Plan Success ACK

```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
      "id": "e7fcef24-5c03-41dd-9e33-995b7d6f47a7",
      "name": "family 50GB+",
      "description": "family bundle",
      "type": "POOL",
      "creationTime": "2020-07-01T00:00:00.977Z",
      "expirationTime": "2020-07-31T00:59:09.977Z",
      "renewalInterval": "MONTHLY",
      "isProrated": false,
    }
  ]
}
```

```
"isIncludingAccessFee": false,
"availabilityZone": [
  {
    "id": "1b15048b-1ed4-4d34-a074-c7e26520e12a",
    "name": "North America 05"
  }
],
"pool": [
  {
    "type": "FIXED",
    "cost": 15,
    "currency": "USD",
    "activationType": "REGULAR",
    "usageType": [
      {
        "type": "DATA",
        "value": 50,
        "unitType": "GB",
        "limitValue": 20,
        "limitUnitType": "GB"
      },
      {
        "type": "SMS",
        "value": 100,
        "unitType": "",
        "limitValue": 10,
        "limitUnitType": ""
      }
    ]
  }
]
```

```
    }
  ]
}
],
"pageable": {
  "page": 1,
  "size": 10,
  "totalPages": 1,
  "totalElements": 2
}
}
```

Response Body: Failure NAK

```
{
  "errorCode": "GLOBAL_1001",
  "errorMessage": "Service unavailable. Please try again",
  "content": "",
  "pageable": ""
}
```

4.39 Get My Eligible Offers

This API is used to retrieve a list of all eligible offers ('Buy Plans') granted by the parent customer. If the customer has been tagged by their parent customer as allowed for self-service, they will receive a list of all eligible offers defined by the parent customer (assuming such offers exist).

Method	Path
GET	/api/v2/customer/{id}/offer/my-eligible-offers

4.39.1 Eligibility

The requestor is eligible to request information on offers assigned to them by their parent customer if their account has been tagged as allowed for self-service.

4.39.2 API Request

Request Structure

Not applicable

4.39.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure detailed description.
content	Object	O	Array of main response body objects. Displayed when an API call is successful. For a failure, it will be empty.
pageable	Object	O	Paging information object. Displayed when an API call is successful. For a failure, it will be empty.

Content

Parameter	Type	M/O/CM	Description
id	UUID	M	Offer ID
name	String	M	Offer name
description	String	O	Offer description
type	String	M	Individual offer type. ENUM: RATE, MONEY, USAGE, POOL
cost	Decimal	M	Cost of the offer. May contain decimal value. If no cost is applied, the value presented would be zero.
currency	String	M	Cost currency. e.g., USD, GBP, EUR
creationTime	DateTime	M	Offer creation timestamp
renewalInterval	String	M	Renewal period interval. ENUM valid values: DAILY, WEEKLY, MONTHLY, QUARTERLY, SEMI_ANNUALLY, ANNUALLY, ONE_TIME
renewalIntervalMethod	String	CM	Renewal day settings. <ul style="list-style-type: none"> FIRST_DAY – Renewal day is the first day of the renewal interval. E.g., 1'st of the month per 'MONTHLY' interval.

Parameter	Type	M/O/CM	Description
			<ul style="list-style-type: none"> SELF_DEFINED – Renewal day is the day defined by the user. E.g., 10'th of the month per 'MONTHLY' interval. PLAN_ALLOCATION – Renewal day is set based on the actual plan allocation (attachment) day. <p>Empty for ONE_TIME renewal interval.</p>
renewalIntervalDay	Numeric	CM	<p>Chosen renewal day of the selected period. Valid values per ENUM:</p> <ul style="list-style-type: none"> DAILY: N/A WEEKLY: 1–7 MONTHLY: 1–28 QUARTERLY: 1–90 SEMI_ANNUALLY: 1–180 ANNUALLY: 1–365 ONE_TIME: N/A <p>Populated only if SELF_DEFINED or FIRST_DAY was set per 'renewalIntervalMethod' attribute.</p>
expirationType	String	O	<p>Expiration date settings. ENUM valid values:</p> <ul style="list-style-type: none"> FIXED – Fixed predefined expiration date. RELATIVE_ATTACHED – Time duration starting the time the plan was attached to the subscriber. E.g., 10 days from plan attachment to the subscriber. RELATIVE_FIRST_USE – Time duration starting the time the plan was used by the subscriber. E.g., 10 days from plan consumption by the subscriber. <p>Plan has no expiration if it is null.</p>

Parameter	Type	M/O/CM	Description
expirationDate	Date	CM	Date settings per chosen 'expirationType'. Populated only if selected 'expirationType' is FIXED. Empty for other expiration types or no expiration type.
expirationUnit	String	CM	Time unit settings for expiration calculation. ENUM Valid values: DAY, WEEK, MONTH, YEAR Empty if selected 'expirationType' is FIXED or no expiration type.
expirationValue	Numeric	CM	Time value settings per chosen 'expirationUnit'. Empty if selected 'expirationType' is FIXED or no expiration type.
isProrated	Boolean	M	Plan proration. True = Proration will be calculated when attaching this plan. False = There is no proration. Pool plan will be always marked as False.
isIncludingAccessFee	Boolean	M	Specifies if the offer price already includes inherent access fee and surcharge fee. True – Offer price includes access\surcharge fees. Once a calendar month, when registering on the network, the system will not charge additionally on top of the offer price. False – Offer price does not include access\surcharge fee. Once a calendar month, when registering on the network, the system will charge the access\surcharge fees in addition to the offer price.
money	Object	CM	Money type object. Populated when MONEY offer type is returned. Empty if either RATE, USAGE or POOL offer type is returned.
rate	Object	CM	Rate type object. Populated when RATE offer type is returned. Empty if either USAGE, MONEY or POOL offer type is returned.
usage	Object	CM	Usage type object. Populated when USAGE offer type is populated. Empty if either RATE, MONEY or POOL offer type is returned.

Parameter	Type	M/O/CM	Description
pool	Object	CM	Pool plan type object. Populated when POOL offer type is returned. Empty if any other offer type is returned (USAGE, RATE, MONEY).
availabilityZone	Object	O	Array of availability zones object which are assigned to this plan. Empty array means that the plan is available in any zone.
linkedOffers	Object	O	Array of offer's object linked to this offer. The order of the instances in the array determines their priority for charging. Empty array means that the created offer has no linked offers.

Money

Parameter	Type	M/O/CM	Description
activationType	String	M	Displays plan activation behavior. Valid values: REGULAR, FIRST_EVENT_PERIODIC, FIRST_EVENT_NON_PERIODIC

Rate

Parameter	Type	M/O/CM	Description
type	String	M	Rate offer type. ENUM valid values – ACCOUNT, PLAN_FIXED, PLAN_CUSTOMIZED.
dataLimit	Decimal	O	Displays the maximal allowed DATA usage consumption.
dataLimitUnitType	String	CM	Data limit unit type. Valid values - KB, MB, GB. Populated when data limit exists.
smsLimit	Decimal	O	Displays the maximal allowed SMS usage consumption. Unit counting is always a 'unit'.

Usage

Parameter	Type	M/O/CM	Description
activationType	String	M	Displays plan activation behavior. Valid values: REGULAR, FIRST_EVENT_PERIODIC, FIRST_EVENT_NON_PERIODIC.
usageType	Object	M	Array of usage types object.

usageType

Parameter	Type	M/O/CM	Description
type	String	M	Type of the usage. Valid values: DATA, SMS.
value	Decimal	M	Overall allowance value when regular offer or pool plan of type FIXED. Allowance value per every added subscriber when pool plan and its type is ACCUMULATIVE. Data consumption for DATA type. Unit counting for SMS type.
unitType	String	CM	Usage unit type. DATA related valid values - KB, MB, GB. Populated when usage type is set to DATA.

Pool

Parameter	Type	M/O/CM	Description
type	String	M	Pool plan type. Valid values: FIXED, ACCUMULATIVE.
activationType	String	M	Displays plan activation behavior. Valid values: REGULAR, FIRST_EVENT_PERIODIC, FIRST_EVENT_NON_PERIODIC.
poolUsageType	Object	M	Array of usage types object.

poolUsageType

Parameter	Type	M/O/CM	Description
type	String	M	Type of the usage. ENUM valid values: DATA, SMS.
value	Decimal	M	Allowance value. Data consumption for DATA type. Unit counting for SMS type.
unitType	String	CM	Usage unit type. DATA ENUM valid values - KB, MB, GB. Mandatory for DATA usage type. Empty for SMS usage type. Ignored if populated for SMS usage type.
limitValue	Decimal	O	Define usage limit value. Data consumption for DATA type. Unit counting for SMS type.
limitUnitType	String	CM	Limit unit type. DATA ENUM valid values - KB, MB, GB. Mandatory when setting limit for DATA usage. Empty for SMS usage type. Ignored if populated for SMS usage type.

availabilityZone

Parameter	Type	M/O/CM	Description
Id	UUID	M	Customer's availability zone's universal unique identity.
name	String	M	Customer's availability zone name.

linkedOffers

Parameter	Type	M/O/CM	Description
id	UUID	M	Universal unique ID of the linked offer.
isPinned	Boolean	M	Denotes whether the linked offer can be removed from the parent offer, or not. True = Linked offer is fixed and cannot be removed. False = Linked offer is not fixed and can be removed (Future feature – Currently not in use).

pageable

Parameter	Type	M/O/CM	Description
page	Numeric	M	Page number.
size	Numeric	M	Page size. Number of requested elements per page.
totalPages	Numeric	M	Total amount of available pages per requested page size.
totalElements	Numeric	M	Total amount of retrieved elements.

4.39.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible:

Code	Message
GLOBAL_1001	Service unavailable. Please try again.
CUSTOMER_1002	Customer does not exist.
CUSTOMER_1006	Failed to retrieve customer details.

4.39.5 Examples

Request Body

Not applicable

Response Body Regular Plan (Money) Success ACK

```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
```

```

    "id": "e7fcef24-5c03-41dd-9e33-995b7d6f47a7",
    "name": "roaming",
    "description": "roaming bundle",
    "type": "MONEY",
    "cost": 20.5,
    "currency": "USD",
    "creationTime": "2020-07-01T00:00:00.977Z",
    "renewalInterval": "MONTHLY",
    "renewalIntervalMethod": "FIRST_DAY",
    "renewalIntervalDay": "",
    "expirationType": "FIXED",
    "expirationDate": "13092023",
    "expirationUnit": "",
    "expirationValue": "",
    "isProrated": true,
    "isIncludingAccessFee": false,
    "availabilityZone": [
      {
        "id": "1b15048b-1ed4-4d34-a074-c7e26520e12a",
        "name": "North America 05"
      }
    ],
    "money": [
      {
        "activationType": "REGULAR"
      }
    ],
    "linkedOffers": [
      {
        "id": "ee74dca6-8e7f-4b85-a42b-13860913b3b1",

```

```

        "isPinned": true
    },
    {
        "id": "ff74dca6-8e7f-4b85-a42b-13860913b370",
        "isPinned": true
    }
]
},
{
    "id": "ff74dca6-8e7f-4b85-a42b-13860913b370",
    "name": "regular",
    "description": "regular bundle",
    "type": "MONEY",
    "cost": 10.5,
    "currency": "USD",
    "creationTime": "2020-07-01T00:00:00.977Z",
    "renewalInterval": "MONTHLY",
    "renewalIntervalMethod": "SELF_DEFINED",
    "renewalIntervalDay": "10",
    "expirationType": "RELATIVE_ATTACHED",
    "expirationDate": "",
    "expirationUnit": "WEEK",
    "expirationValue": "4",
    "isProrated": true,
    "isIncludingAccessFee": false,
    "availabilityZone": [],
    "money": [
        {
            "activationType": "REGULAR"
        }
    ]
}

```

```
    ],  
    "linkedOffers": []  
  }  
],  
"pageable": {  
  "page": 1,  
  "size": 10,  
  "totalPages": 1,  
  "totalElements": 2  
}  
}
```

Response Body Pool Plan Success ACK

```
{  
  "errorCode": "",  
  "errorMessage": "",  
  "content": [  
    {  
      "id": "e7fcef24-5c03-41dd-9e33-995b7d6f47a7",  
      "name": "family 50GB+",  
      "description": "family bundle",  
      "type": "POOL",  
      "cost": 15,  
      "currency": "USD",  
      "creationTime": "2020-07-01T00:00:00.977Z",  
      "renewalInterval": "MONTHLY",  
      "renewalIntervalMethod": "FIRST_DAY",  
      "renewalIntervalDay": "",  
      "expirationType": "FIXED",  
      "expirationDate": "13092023",  
    }  
  ]  
}
```

```
"expirationUnit": "",
"expirationValue": "",
"isProrated": false,
"isIncludingAccessFee": false,
"availabilityZone": [
  {
    "id": "1b15048b-1ed4-4d34-a074-c7e26520e12a",
    "name": "North America 05"
  }
],
"pool": [
  {
    "type": "FIXED",
    "activationType": "REGULAR",
    "poolUsageType": [
      {
        "type": "DATA",
        "value": 50,
        "unitType": "GB",
        "limitValue": 20,
        "limitUnitType": "GB"
      },
      {
        "type": "SMS",
        "value": 100,
        "unitType": "",
        "limitValue": 10,
        "limitUnitType": ""
      }
    ]
  }
]
```

```
    }
  ],
  "linkedOffers": [
    {
      "id": "ee74dca6-8e7f-4b85-a42b-13860913b3b1",
      "isPinned": true
    },
    {
      "id": "ff74dca6-8e7f-4b85-a42b-13860913b370",
      "isPinned": true
    }
  ]
}
],
"pageable": {
  "page": 1,
  "size": 10,
  "totalPages": 1,
  "totalElements": 2
}
}
```

Response Body Failure NACK

```
"errorCode": "GLOBAL_1001",
"errorMessage": "Service unavailable. Please try again",
"content": "",
"pageable": ""
}
```


4.40 Create Customer Package

Create Customer Package API is used to create a package for use by the customer children (sub-accounts). A package may consist of multiple offers, hence, enables handling (attach, detach) of multiple offers using a single entity.

Method	Path
POST	/api/v2/customer/{id}/package

4.40.1 Eligibility

The requestor is eligible to create a new package for use by sub-accounts. However, they are not eligible to create new packages for their own use.

4.40.2 API Request

Request Structure

Parameter	Type	M/O/CM	Description
name	String	M	Package name. Must be unique.
description	String	O	Package description.
nestedOffers	UUID	M	Array of offer IDs. At least one offer should be provided. The order of UUIDs in the array dictates offer priority within the package.
eligibleSubAccounts	String	M	Array of sub-account UUIDs. Specified sub-accounts are eligible to view and manage (attach/detach) this package as part of the self-service feature. If sent empty, none of the customer's sub-accounts are eligible for this package. 'ALL' keyword (ENUM) means all the customer's sub-accounts are eligible for this package.

4.40.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure detailed description.
content	Object	O	Array of the main response body objects. Displayed when an API call is successful. For a failure, it will be empty.

Parameter	Type	M/O/CM	Description
pageable	Object	O	Paging information object. Displayed when an API call is successful. For a failure, it will be empty.

Content

Parameter	Type	M/O/CM	Description
packageId	UUID	M	New package generated universal unique identifier.
requestId	UUID	M	Request instance ID. To be used by external systems to query the call (operation) status, whether in progress, successful, or failed.

Pageable

Parameter	Type	M/O/CM	Description
page	Numeric	M	Page number.
size	Numeric	M	Page size. Number of requested elements per page.
totalPages	Numeric	M	Total amount of available pages per requested page size.
totalElements	Numeric	M	Total amount of retrieved elements.

4.40.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible:

Code	Message
GLOBAL_1001	Service unavailable. Please try again.

4.40.5 Examples

Request Body

```
{
  "name": "Basic roaming package",
  "description": "Basic roaming package description",
  "nestedOffers": [
    "cae5ce03-d331-40e1-9a1e-803fcdc905c7",
    "ff74dba6-8e7f-4b15-a42b-13810913b371"
  ]
}
```

```
],  
  "eligibleSubAccountIds": [  
    "ee74dca6-8e7f-4b85-a42b-13860913b3b1",  
    "ff74aca1-8d1f-4b85-a62a-93360913b370",  
    "b7ff0c8d-ac91-4b0a-8e72-bbc45ba38dbd"  
  ]  
}
```

Response Body Success ACK

```
{  
  "errorCode": "",  
  "errorMessage": "",  
  "content": [  
    {  
      "requestId": "dbf2f414-ba35-4e64-a6b9-acf66752e8c0",  
      "packageId": "ee74dcd7-8e7f-4c45-a42b-13860913b129"  
    }  
  ],  
  "pageable": {  
    "page": 0,  
    "size": 10,  
    "totalPages": 1,  
    "totalElements": 1  
  }  
}
```

Response Body Failure NACK

```
{  
  "errorCode": "GLOBAL_1001",
```

```

    "errorMessage": "Service unavailable. Please try again",
    "content": "",
    "pageable": ""
  }

```

4.41 Modify Customer Package

This API is used to update the details of a single Package in the system.

NOTE: Request should contain only elements which require modification. Empty elements denote overridden of the existing value with a NULL value.

Method	Path
PATCH	/api/v2/customer/{id}/package/{id}

4.41.1 Eligibility

The Requestor is eligible to request modifications on his own Packages. It is not eligible to modify any other Package.

4.41.2 API Request

Request Structure

Parameter	Type	M/O/CM	Description
description	String	O	Package description.
nestedOffers	UUID	O	Array of offer IDs. Changing the order of the offer IDs will change the consumption priority. Changing this attribute is not allowed if the package has been attached at least once to a SIM. The system provides this indication in the Get Customer Package API via the 'isEverUsed' flag.
eligibleSubAccountIds	String	O	Array of sub-account UUIDs. Specified sub-accounts are eligible to view and manage (attach/detach) this package as part of the self-service feature. If sent empty, none of the customer's sub-

Parameter	Type	M/O/CM	Description
			<p>accounts are eligible for this package. 'ALL' keyword (ENUM) means all the customer's sub-accounts are eligible for this package.</p> <p>Note: Removing an existing sub-account that has already attached a SIM to this package will eliminate the ability of the sub-account to detach the SIM from this package using the self-service mode.</p>

4.41.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure detailed description.
content	Object	O	Array of main response body objects. Displayed when an API call is successful. For a failure, it will be empty.
pageable	Object	O	Paging information object. Displayed when an API call is successful. For a failure, it will be empty.

Content

Parameter	Type	M/O/CM	Description
requestId	UUID	M	Request instance ID. To be used by external systems to query the call (operation) status, whether in progress, successful, or failed.

Pageable

Parameter	Type	M/O/CM	Description
page	Numeric	M	Page number.
size	Numeric	M	Page size. Number of requested elements per page.
totalPages	Numeric	M	Total amount of available pages per requested page size.
totalElements	Numeric	M	Total amount of retrieved elements.

4.41.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible:

Code	Message
GLOBAL_1001	Service unavailable. Please try again.
CUSTOMER_1002	Customer does not exist.
CUSTOMER_1051	Unknown package id.

4.41.5 Examples

Request Body

```
{
  "eligibleSubAccountIds": [
    "ff74dca6-8e7f-4b85-a42b-13860913b371",
    "ceb892d2-f24b-4007-bf81-999fe75cb635"
  ]
}
```

Response Body Success ACK

```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
      "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b371"
    }
  ],
  "pageable": {
    "page": 0,
    "size": 10,
    "totalPages": 1,
    "totalElements": 1
  }
}
```

```

    }
  }

```

Response Body Failure NAK

```

{
  "errorCode": "GLOBAL_1001",
  "errorMessage": "Service unavailable. Please try again",
  "content": "",
  "pageable": ""
}

```

4.42 Delete Customer Package

This API is used to delete a package which is not attached to subscribers. Deactivation is done as a soft deletion procedure. A package cannot be deleted if at least one subscriber is connected to it. To delete a package, it should be detached from any subscriber up front. When a package is deleted, it cannot be recovered.

Method	Path
DELETE	/api/v2/customer/{id}/package/{id}

4.42.1 Eligibility

The requestor is eligible to delete a package created for sub-customer use. They are not eligible to delete any other packages.

4.42.2 API Request

Request Structure

Not applicable

API Response

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure detailed description.

Parameter	Type	M/O/CM	Description
content	Object	O	Array of main response body objects. Displayed when an API call is successful. For a failure, it will be empty.
pageable	Object	O	Paging information object. Displayed when an API call is successful. For a failure, it will be empty.

Content

Parameter	Type	M/O/CM	Description
requestId	UUID	M	Request instance ID. To be used by external systems to query the call (operation) status, whether in progress, successful, or failed.

Pageable

Parameter	Type	M/O/CM	Description
page	Numeric	M	Page number.
size	Numeric	M	Page size. Number of requested elements per page.
totalPages	Numeric	M	Total amount of available pages per requested page size.
totalElements	Numeric	M	Total amount of retrieved elements.

Error Codes

In addition to the general success and failure codes, the following error codes are possible:

Code	Message
GLOBAL_1001	Service unavailable. Please try again.
CUSTOMER_1002	Customer does not exist.
CUSTOMER_1051	Unknown package id.
CUSTOMER_1053	Package deletion failure. It is not allowed to delete a package in use by subscribers.

4.42.3 Examples

API Request

Not applicable

Response Body Success ACK

```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
      "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370"
    }
  ],
  "pageable": {
    "page": 0,
    "size": 10,
    "totalPages": 1,
    "totalElements": 1
  }
}
```

Response Body Failure NAK

```
{
  "errorCode": "CUSTOMER_1053",
  "errorMessage": "Package deletion failure. It is not allowed to delete a plan in use by subscribers",
  "content": "",
  "pageable": ""
}
```

4.43 Get My Eligible Packages

This API is used to retrieve a list of all eligible packages ('Buy Package') granted by the parent customer. If the customer has been tagged by the parent customer as allowed for self-service, they may receive a list of all eligible packages defined by the parent customer, provided that such packages exist.

NOTE: Multiple packages can be defined as eligible to a sub account, yet currently, only one package can be attached to a subscriber in a given time

Method	Path
GET	api/v2/customer/{id}/package/my-eligible-packages

4.43.1 Eligibility

The requestor is eligible to request information on packages assigned to them by their parent customer if their account has been tagged as allowed for self-service.

NOTE: A package with the 'ALL' keyword is also included in the list of eligible packages.

4.43.2 API Request

Request Structure

Not applicable

4.43.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure detailed description.
content	Object	O	Array of main response body object. Displayed when an API call is successful. For a failure, it will be empty.
pageable	Object	O	Paging information object. Displayed when an API call is successful. For a failure, it will be empty.

Content

Parameter	Type	M/O/CM	Description
id	UUID	M	Package ID
name	String	M	Package name
description	String	O	Package description
nestedOffers	UUID	M	Array of offer IDs. At least one offer will be presented. The order of offer UUIDs in the array represents offer priority within the package.

pageable

Parameter	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

4.43.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible:

Code	Message
GLOBAL_1001	Service unavailable. Please try again
CUSTOMER_1002	Customer does not exist
CUSTOMER_1006	Failed to retrieve customer details

4.43.5 Examples

Request Body

Not applicable

Response Body Success ACK

```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
      "id": "e7fcef24-5c03-41dd-9e33-995b7d6f47a7",
      "name": "roaming",
      "description": "roaming bundle",
      "nestedOffers": [
        "1b15048b-1ed4-4d34-a074-c7e26520e12a",
        "ee74dca6-8e7f-4b85-a42b-13860913b3b1"
      ]
    }
  ],
}
```

```
{
  "id": "ff74dca6-8e7f-4b85-a42b-13860913b370",
  "name": "regular",
  "description": "regular bundle",
  "nestedOffers": [
    "fb3e01cf-3798-4d53-b2b4-914b3e36c83c"
  ]
},
{
  "pageable": {
    "page": 1,
    "size": 10,
    "totalPages": 1,
    "totalElements": 2
  }
}
```

Response Body Failure NAK

```
{
  "errorCode": "GLOBAL_1001",
  "errorMessage": "Service unavailable. Please try again",
  "content": "",
  "pageable": ""
}
```

4.44 Get My Packages

This API is used to retrieve information on attached (allocated) packages. The user can choose whether to retrieve information on the packages attached to their account or on the packages attached to one of their sub-customers.

NOTE: A list of multiple packages can be retrieved; however, currently, only one package can be attached to a single subscriber at any given time.

Method	Path
GET	api/v2/customer/{id}/package/my-packages

4.44.1 Eligibility

The requestor is eligible to request information on packages assigned to them by their parent customer or on packages assigned to their sub-customers' subscribers. The Customer {id} can be either the user's own customer ID or one of the customer's sub-customer IDs:

- **Own customer ID:** Retrieves information on all packages that were created and attached (allocated) to the user's account.
- **Sub-customer ID:** Retrieves information on all packages that were created and attached (allocated) to the specified sub-account.

4.44.2 API Request

Request Structure

Not applicable

4.44.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure detailed description.
content	Object	O	Array of main response body object. Displayed when an API call is successful. For a failure, it will be empty.
pageable	Object	O	Paging information object. Displayed when an API call is successful. For a failure, it will be empty.

Content

Parameter	Type	M/O/CM	Description
id	UUID	M	Package ID
name	String	M	Package name
description	String	O	Package description

Parameter	Type	M/O/CM	Description
nestedOffers	UUID	M	Array of offer IDs. At least one offer will be presented. The provided order of UUIDs in the array represents offer priority within the package.

pageable

Parameter	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

Error Codes

In addition to the general success and failure codes, the following error codes are possible:

Code	Message
GLOBAL_1001	Service unavailable. Please try again
CUSTOMER_1002	Customer does not exist
CUSTOMER_1006	Failed to retrieve customer details

4.44.4 Examples

Request Body

Not applicable

Response Body Success ACK

```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
      "id": "e7fcef24-5c03-41dd-9e33-995b7d6f47a7",
      "name": "roaming",
      "description": "roaming bundle",
      "nestedOffers": [
        "1b15048b-1ed4-4d34-a074-c7e26520e12a",
```

```
        "ee74dca6-8e7f-4b85-a42b-13860913b3b1"
    ]
},
{
    "id": "ff74dca6-8e7f-4b85-a42b-13860913b370",
    "name": "regular",
    "description": "regular bundle",
    "nestedOffers": [
        "fb3e01cf-3798-4d53-b2b4-914b3e36c83c"
    ]
}
],
"pageable": {
    "page": 1,
    "size": 10,
    "totalPages": 1,
    "totalElements": 2
}
}
```

Response Body Failure NAK

```
{
    "errorCode": "GLOBAL_1001",
    "errorMessage": "Service unavailable. Please try again",
    "content": "",
    "pageable": ""
}
```

4.45 Get Customer Packages

This API is used to retrieve a list of all customer packages created by the user for their sub-customers from the catalog.

Method	Path
GET	api/v2/customer/{id}/package/created-packages

4.45.1 Eligibility

The requestor is eligible to request information on packages that were created by them.

4.45.2 API Request

Request Structure

Not applicable

4.45.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure detailed description.
content	Object	O	Array of main response body object. Displayed when an API call is successful. For a failure, it will be empty.
pageable	Object	O	Paging information object. Displayed when an API call is successful. For a failure, it will be empty.

Content

Parameter	Type	M/O/CM	Description
id	UUID	M	Package ID
name	String	M	Package name
description	String	O	Package description
nestedOffers	UUID	M	Array of offer IDs. At least one offer will be presented. The provided order of UUIDs in the array represents offer priority within the package.
eligibleSubAccountIds	String	M	Array of sub-account UUIDs. Specified sub-accounts are the accounts that are eligible to view and manage (attach/detach) this package as part of the self-service feature. Empty string – None of the customer's sub-accounts are eligible for this package. 'ALL' keyword

Parameter	Type	M/O/CM	Description
			(ENUM) - All the customer's sub-accounts are eligible for this package.
isEverUsed	Boolean	M	Indicates whether the package has been attached at least once. True – The package was attached at least once and therefore modification to its nested offers is forbidden. False – The package has not yet been attached and therefore anything can still be modified.

pageable

Parameter	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

4.45.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible:

Code	Message
GLOBAL_1001	Service unavailable. Please try again
CUSTOMER_1002	Customer does not exist
CUSTOMER_1006	Failed to retrieve customer details

4.45.5 Examples

Request Body

Not applicable

Response Body Success ACK

```

"errorCode": "",
"errorMessage": "",
"content": [
  {
    "id": "e7fcef24-5c03-41dd-9e33-995b7d6f47a7",
    "name": "roaming",
  }
]

```

```
    "description": "roaming bundle",
    "nestedOffers": [
      "1b15048b-1ed4-4d34-a074-c7e26520e12a",
      "ee74dca6-8e7f-4b85-a42b-13860913b3b1"
    ],
    "eligibleSubAccountIds": [
      "ff74dca6-8e7f-4b85-a42b-13860913b370",
      "95ae0009-6dc4-41ba-9d1c-8584de2fcf0c"
    ],
    "isEverUsed": false
  },
  {
    "id": "ff74dca6-8e7f-4b85-a42b-13860913b250",
    "name": "regular",
    "description": "regular bundle",
    "nestedOffers": [
      "fb3e01cf-3798-4d53-b2b4-914b3e36c83c"
    ],
    "eligibleSubAccountIds": [],
    "isEverUsed": true
  }
],
"pageable": {
  "page": 1,
  "size": 10,
  "totalPages": 1,
  "totalElements": 2
}
```

Response Body Failure NAK

```
{
  "errorCode": "GLOBAL_1001",
  "errorMessage": "Service unavailable. Please try again",
  "content": "",
  "pageable": ""
}
```

4.46 Pool Plan Top-up

This API is used to add allowances to the prepaid balance of an account's attached Pool Plan.

At least one subscriber must be allocated to the Pool Plan.

HTTP URL	
POST	/api/v2/customer/{id}/offer/{id}/topup

NOTE: Offer {id} is the product catalog offering ID.

4.46.1 Eligibility

The Requester is eligible to top-up to its customers' (sub-account) Pool Plans only. The Requester is not eligible to top-up to itself or to any other customer level beyond the first tier (for example, a customer's customer).

4.46.2 API Request

Request Structure

Parameter	Type	M/O/CM	Description
charge	Decimal	M	Top-up cost. Charge of postpaid balance.
currency	String	M	Monetary: for example, USD, GBP, EUR
expirationDate	Date	O	<p>Determines the requested date as per the selected expirationType set when plan created.</p> <p>Can be used only if the expirationType parameter has been set to FIXED.</p> <p>Ignored for other expirationType settings.</p>
allowance	Object	M	Object of allowance per service.

Allowance Data Objects

Parameter	Type	M/O/CM	Description
currency	String	M	<p>Allowance:</p> <ul style="list-style-type: none"> ○ SMS: SMS ○ Data: KB, MB, GB
value	Decimal	M	Balance amount

4.46.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.

Parameter	Type	M/O/CM	Description
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
requestId	UUID	M	<p>Request instance ID.</p> <p>To be used by external systems to query the call (operation) status:</p> <ul style="list-style-type: none"> ○ In progress ○ Successful ○ Failed.

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page

Element	Type	M/O/CM	Description
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

4.46.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
CUSTOMER_1002	Customer does not exist
CUSTOMER_1009	Top-up failure. Balance not found
CUSTOMER_1010	Pool plan for your account was not found
CUSTOMER_1011	There are no subscribers attached to this pool plan. Top-up denied.
GLOBAL_1001	Service unavailable. Please try again

4.46.5 Examples

Request Body

<pre>{ "charge": 20.5, "currency": "EUR", "expirationDate": "25042023",</pre>

```
"allowance": [  
  {  
    "currency": "SMS",  
    "value": 50  
  }  
]  
}
```

Response Body: Success ACK

```
{  
  "errorCode": "",  
  "errorMessage": "",  
  "content": [  
    {  
      "requestId": "e7fcef24-5c03-41dd-9e33-995b7d6f32b1"  
    }  
  ],  
  "pageable": {  
    "page": 0,  
    "size": 10,  
    "totalPages": 1,  
    "totalElements": 1  
  }  
}
```

Response Body: Failure NAK

```
{
```

```

    "errorCode": "SUBSCRIBER_1009",
    "errorMessage": "Top-up failure. Balance not found",
    "content": "",
    "pageable": ""
  }

```

4.47 Delete Customer Offer

This API is used to delete an individual offer (Regular Plan) or a Pool Plan that is not attached to any subscribers. for one of the customer children (sub-customers). Deactivation is done as a soft deletion procedure.

A customer offer cannot be deleted if any subscriber is connected to it. Therefore, any customer offer (Regular Plan or Pool Plan) must be detached as a prerequisite to deleting it. After deletion,, the customer offer cannot be recovered.

HTTP URL	
DELETE	/api/v2/customer/{id}/offer/{id}

NOTE: Offer {id} is the catalog offering ID

4.47.1 Eligibility

The Requester is eligible to delete individual offers or Pool Plans that the Requester created for his sub-customers use. The Requester is not eligible to delete any other individual offers or Pool Plans.

4.47.2 API Request

This API has no request structure.

4.47.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
requestId	UUID	M	<p>Request instance ID.</p> <p>To be used by external systems to query the call (operation) status:</p> <p>In progress</p> <p>Successful</p> <p>Failed.</p>

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

4.47.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
CUSTOMER_1002	Customer does not exist
AUTH_1008	Pool plan for your account was not found
CUSTOMER_1012	Unknown offer id
CUSTOMER_1014	Plan deletion failure. It is not allowed to delete a plan in use by subscribers

4.47.5 Examples

Request Body

```
{  
}
```

Response Body: Success ACK

```
{  
  "errorCode": "",  
  "errorMessage": "",  
  "content": [  
    {  
      "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370"  
    }  
  ],  
  "pageable": {  
    "page": 0,  
    "size": 10,  
    "totalPages": 1,  
    "totalElements": 1  
  }  
}
```

Response Body: Failure NAK

```
{  
  "errorCode": "GLOBAL_1014",  
  "errorMessage": "Plan deletion failure. It is not allowed to  
delete a plan in use by subscribers",  
}
```

```

    "content": "",
    "pageable": ""
  }

```

4.48 Create Customer Zone

This API is used to create a new customer-defined (user-defined) zone.

HTTP URL	
POST	/api/v2/customer/{id}/zone

4.48.1 Eligibility

The Requester is eligible to create a new zone for its own use. The Requester is not eligible to create a new zone at any other customer level, including its own sub-accounts.

4.48.2 API Request

Request Structure

Element	Type	M/O/CM	Description
name	String	M	Customer's (user-defined) zone name
description	String	O	Customer's (user-defined) zone description. It is highly recommended to provide a meaningful description.

Element	Type	M/O/CM	Description
country Code	String	M	ISO alpha-3 Country Code
plmn	String	M	Public Land Mobile Network. MCCMNC representation

4.48.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
requestId	UUID	M	Request instance ID.

Element	Type	M/O/C M	Description
			To be used by external systems to query the call (operation) status: <ul style="list-style-type: none"> ○ In progress ○ Successful ○ Failed
zoneId	UUID	M	New zone ID generated universally unique identifier

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

4.48.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again

4.48.5 Examples

Request Body

```
{
  "name": "Canada North",
  "description": "Canada north regions",
  "countryCode": "CAN",
  "plmn": [
    "CANTS",
    "CANBM"
  ]
}
```

Response Body: Success ACK

```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
      "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370",
      "zoneId": "e7fcef24-5c03-41dd-9e33-995b7d6f32b1",
    }
  ],
  "pageable": {
```

```
    "page": 0,  
    "size": 10,  
    "totalPages": 1,  
    "totalElements": 1  
  }  
}
```

Response Body: Failure NAK

```
{  
  "errorCode": "GLOBAL_1001",  
  "errorMessage": "Service unavailable. Please try again",  
  "content": "",  
  "pageable": ""  
}
```

4.49 Get Customer Zones

This API is used to retrieve a particular customer-defined (user-defined) zone, or a complete list of customer-defined zones, created in the system and available for use.

HTTP URL	
GET	/api/v2/customer/{id}/zone/{id}

If sent without a Zone ID, the API retrieves a complete list of all zones defined by this customer.

4.49.1 Eligibility

The Requester is eligible to request information on customer-defined zones that it created by itself for its own plans. The Requester is not eligible to request information on zones created at any other customer level, including its own sub-accounts.

4.49.2 API Request

Request Structure

This API has no request structure.

4.49.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
Id	UUID	M	Customer zone's universal unique identity
name	String	M	Customer's (user-defined) zone name

Element	Type	M/O/CM	Description
description	String	O	Customer's (user-defined) zone description
countryCode	String	M	ISO alpha-3 Country Code
network	Object	M	Array of Mobile Network object

Network data objects

Element	Type	M/O/CM	Description
plmn	String	M	Public Land Mobile Network. MCCMNC representation
mcc	String	M	Mobile Country Code (MCC)
mnc	String	M	Mobile Network Code (MNC)

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page

Element	Type	M/O/CM	Description
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

4.49.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again

4.49.5 Examples

Request Body

```
{
}
```

Response Body: Success ACK

```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
      "id": "1b15048b-1ed4-4d34-a074-c7e26520e12a",
    }
  ]
}
```

```
"name": "Canada South",
"description": "Canadian south regions",
"countryCode": "CAN",
"network": [
  {
    "plmn": "CANTS",
    "mcc": "302",
    "mnc": "220"
  },
  {
    "plmn": "CANVT",
    "mcc": "302",
    "mnc": "500"
  }
],
{
  "id": "40007bac-a0bc-4e43-a955-1207e7d546dd",
  "name": "United Kingdom North",
  "description": "United Kingdom north regions",
  "countryCode": "GBR",
  "network": [
    {
      "plmn": "GBRME",
      "mcc": "234",
      "mnc": "30"
    },
    {
      "plmn": "GBRVF",
```

```
        "mcc": "234",
        "mnc": "15"
      },
      {
        "plmn": "AAM26",
        "mcc": "901",
        "mnc": "46"
      }
    ]
  },
  "pageable": {
    "page": 1,
    "size": 10,
    "totalPages": 1,
    "totalElements": 2
  }
}
```

Response Body: Failure NAK

```
{
  "errorCode": "GLOBAL_1001",
  "errorMessage": "Service unavailable. Please try again",
  "content": "",
  "pageable": ""
}
```

4.50 Modify Customer Zone

This API is used to modify a single user-defined zone.

HTTP URL	
PUT	/api/v2/customer/{id}/zone/{id}

4.50.1 Eligibility

The Requester is eligible to request to modify its own user-defined zones. The Requester is not allowed to request to modify any other customer zone.

4.50.2 API Request

Request Structure

Element	Type	M/O/C M	Description
name	String	M	Customer's (user-defined) zone name
description	String	O	Customer's (user-defined) zone description.
country Code	String	M	ISO alpha-3 Country Code
plmn	String	M	Public Land Mobile Network. MCCMNC representation

4.50.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
requestId	UUID	M	<p>Request instance ID.</p> <p>To be used by external systems to query the call (operation) status:</p> <ul style="list-style-type: none"> ○ In progress ○ Successful ○ Failed

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

4.50.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
CUSTOMER_1002	Customer does not exist
CUSTOMER_1029	Failed to update customer zone

4.50.5 Examples

Request Body

```
{
  "name": "Canada North",
  "description": "Canada north regions",
  "countryCode": "CAN",
```



```
"plmn": [  
  "CANTS",  
  "CANIW"  
]  
}
```

Response Body: Success ACK

```
{  
  "errorCode": "",  
  "errorMessage": "",  
  "content": [  
    {  
      "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370"  
    }  
  ],  
  "pageable": {  
    "page": 0,  
    "size": 10,  
    "totalPages": 1,  
    "totalElements": 1  
  }  
}
```

Response Body: Failure NAK

```
{  
  "errorCode": "GLOBAL_1001",  
  "errorMessage": "Service unavailable. Please try again",  
}
```

```
"content": "",  
"pageable": ""  
}
```

4.51 Delete Customer Zones

This API is used to delete one or more user-defined zones. Deletion is done as a soft deletion procedure. When sending a request to delete multiple zones in a single call, the result treats all of them as a single result with all zones deleted successfully or all failed when even one of the zones fails to be deleted.

Sending Zone IDs for deletion, both as part of the URL and in the request itself, will result in a “bad request” notification.

HTTP URL	
DELETE	/api/v2/customer/{id}/zone/{id}

4.51.1 Eligibility

The Requester is eligible to request to delete its own zone or zones. The Requester is not allowed to delete zones at any other customer level, including its own sub-accounts (customers).

4.51.2 API Request

Request Structure

Element	Type	M/O/CM	Description
id	UUID	O	Array of Customer’s (user-defined) Zone IDs to be deleted

4.51.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
requestId	UUID	M	<p>Request instance ID.</p> <p>To be used by external systems to query the call (operation) status:</p> <ul style="list-style-type: none"> ○ In progress ○ Successful ○ Failed

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

4.51.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
CUSTOMER_1002	Customer does not exist
CUSTOMER_1030	Failed to delete customer zone\s

4.51.5 Examples

Request Body

```
{
  "id": [
    "e7fcef24-5c03-41dd-9e33-995b7d6f32b1",
  ]
}
```

```
    "ceb892d2-f24b-4007-bf81-999fe75cb635"  
  ]  
}
```

Response Body: Success ACK:

```
{  
  "errorCode": "",  
  "errorMessage": "",  
  "content": [  
    {  
      "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370"  
    }  
  ],  
  "pageable": {  
    "page": 0,  
    "size": 10,  
    "totalPages": 1,  
    "totalElements": 1  
  }  
}
```

Response Body: Failure NAK:

```
{  
  "errorCode": "CUSTOMER_1002",  
  "errorMessage": "Customer does not exist",  
  "content": "",  
  "pageable": ""  
}
```

```
}

```

4.52 Get Customer Billing Cycle Definition

The Get Customer Billing Cycle Definition (BCD) API is used to retrieve information of the BCD which were assigned to a sub-customer.

HTTP URL	
GET	api/v2/customer/{id}/bcd

Customer {id} can be one of the requestor's direct sub customers.

4.52.1 Eligibility

The Requestor is eligible to request information on BCD which was assigned to his sub-accounts.

4.52.2 API Request

Not applicable

4.52.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code. See list below, under 'Error Codes' section
errorMessage	String	O	Failure detailed description. See list below, under 'Error Codes' section
content	Object	O	Array of main response body object. Displayed when an API call was successful. For a failure it will be empty.
pageable	Object	O	Paging information object. Displayed when an API call was successful. For a failure it will be empty.

Content

Parameter	Type	M/O/CM	Description
id	UUID	M	Billing Cycle Definition Id
name	String	M	Billing Cycle Definition name
description	String	O	General information on the Billing Cycle
periodType	String	M	<p>The Billing Cycle period type. ENUM valid values: DAILY: 1</p> <p>WEEKLY: 1-7</p> <p>MONTHLY: 1-30</p> <p>BI_MONTHLY: 1-60</p> <p>QUARTERLY: 1-90</p> <p>SEMI_ANNUALLY: 1-182</p> <p>ANNUALLY: 1-365</p>
startDay	Numeric	M	<p>The starting day of the billing cycle period type 'periodType'.</p> <ul style="list-style-type: none"> ○ DAILY: 1 ○ WEEKLY: 1-7 ○ MONTHLY: 1-30 ○ BI_MONTHLY: 1-60 ○ QUARTERLY: 1-90 ○ SEMI_ANNUALLY: 1-182 ○ ANNUALLY: 1-365
duration	Numeric	M	<p>The periodType number of iterations concluding a single cycle of the Billing Cycle. For example: Period Type set to WEEKLY Start Day set to 1; Duration set to '3'; Resolution: A single billing cycle starts on Monday and lasts 3 weeks.</p>
invoiceFormat	String	M	<p>The invoice format, either PDF or XML formats, or both formats simultaneously. ENUM valid values: XML, PDF, ALL</p>
isAutomatic	Boolean	M	<p>Future Feature. Indicates if the Billing Cycle steps will be processed manually or automatically without any human</p>

Parameter	Type	M/O/CM	Description
			intervention. True – Automatic False - Manual Currently only 'Automatic' processing is valid, therefore the API always returns 'true'
isExport	Boolean	M	Indicates if the invoice files shall be exported to an external customer directory. External directory location is defined per integration process.
nextBillingCycleDate	datetime	O	The date and time of the upcoming billing cycle. Calculated field.

4.52.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
CUSTOMER_1002	Customer does not exist
CUSTOMER_1006	Failed to retrieve customer details.

4.52.5 Examples

Request Body

```
{
}
```

Response Body: Success (ACK)

```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
```



```
    "id": "e291c23a-2b2b-41dd-895e-b5c145c767de",
    "name": "BCD11-Monthly-1-XML",
    "description": "Monthly XML invoicing",
    "periodType": "MONTHLY",
    "startDay": 1,
    "duration": 1,
    "invoiceFormat": "XML",
    "isAutomatic": true,
    "isExport": true,
    "nextBillingCycleDate": "2023-10-01 00:00:00"
  }
],
"pageable": null
}
```

Response Body: Failure(s) (NAK)

```
{
  "errorCode": "GLOBAL_1001",
  "errorMessage": "Service unavailable. Please try again",
  "content": "",
  "pageable": ""
}
```

4.53 Get Customer Billing Cycle Definition Eligibility

The Get Customer Billing Cycle Definition Eligibility API is used to retrieve a list of Billing Cycle Definitions (BCDs) that are eligible to be assigned to the customer's given sub-account.

HTTP URL	
GET	api/v2/customer/{id}/eligible-bcd

4.53.1 Eligibility

The Requestor is eligible to request information on the eligible BCDs which were assigned to itself by his parent customer (and can be assigned to his sub-accounts).

4.53.2 API Request

Not applicable

4.53.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code. See list below, under 'Error Codes' section
errorMessage	String	O	Failure detailed description. See list below, under 'Error Codes' section
content	Object	O	Array of main response body object. Displayed when an API call was successful. For a failure it will be empty.
pageable	Object	O	Paging information object. Displayed when an API call was successful. For a failure it will be empty.

Content

Parameter	Type	M/O/CM	Description
id	UUID	M	Billing Cycle Definition Id
name	String	M	Billing Cycle Definition name
description	String	O	General information on the Billing Cycle
periodType	String	M	<p>The Billing Cycle period type. ENUM valid values: DAILY</p> <p>WEEKLY</p> <p>MONTHLY</p>

Parameter	Type	M/O/CM	Description
			BI_MONTHLY QUARTERLY SEMI_ANNUALLY ANNUALLY
startDay	Numeric	M	The starting day of the billing cycle period type 'periodType'. <ul style="list-style-type: none"> ○ DAILY: 1 ○ WEEKLY: 1–7 ○ MONTHLY: 1–30 ○ BI_MONTHLY: 1–60 ○ QUARTERLY: 1–90 ○ SEMI_ANNUALLY: 1–182 ○ ANNUALLY: 1–365
duration	Integer		The periodType number of iterations concluding a single cycle of the Billing Cycle. For example: Period Type set to WEEKLY Start Day set to 1; Duration set to '3'; Resolution: A single billing cycle starts on Monday and lasts 3 weeks.
invoiceFormat	String	M	The invoice format, either PDF or XML formats, or both formats simultaneously. ENUM valid values: XML, PDF, ALL
isAutomatic	Boolean	M	Future Feature. Indicates if the Billing Cycle steps will be processed manually or automatically without any human intervention. True – Automatic False - Manual Currently only 'Automatic' processing is valid, therefore the API always returns 'true'
isExport	Boolean	M	Indicates if the invoice files shall be exported to an external customer directory. External directory location is defined per integration process.

4.53.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
CUSTOMER_1002	Customer does not exist
CUSTOMER_1006	Failed to retrieve customer details.

4.53.5 Examples

Request Body

Response Body: Success (ACK)

```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
      "id": "e291c23a-2b2b-41dd-895e-b5c145c767de",
      "name": "BCD11-Monthly-1-XML",
      "description": "Monthly XML invoicing",
      "periodType": "MONTHLY",
      "startDay": 1,
      "duration": 1,
      "invoiceFormat": "XML",
      "isAutomatic": true,
      "isExport": true
    },
    {
      "id": "ff74dca6-8e7f-4b85-a42b-13860913b370",
```

```

        "name": "BCD13-Weekly-1-PDF",
        "description": "Bi-Weekly PDF invoicing",
        "periodType": "WEEKLY",
        "startDay": 1,
        "duration": 2,
        "invoiceFormat": "PDF",
        "isAutomatic": true,
        "isExport": false
    }
],
    "pageable": null
}

```

Response Body: Failure(s) NAK

```

{
    "errorCode": "GLOBAL_1001",
    "errorMessage": "Service unavailable. Please try again",
    "content": "",
    "pageable": ""
}

```

4.54 Modify Customer Billing Cycle Definition

The Modify Customer Billing Cycle Definition (BCD) API is used to replace a particular Billing Cycle Definition of a given sub-account with other BCD which is listed in the eligible BCDs.

The customer is not allowed to top-up a plan of the RATE type.

HTTP URL	
PUT	api/v2/customer/{id}/bcd

Customer {id} is the requestor's customer ID.

4.54.1 Eligibility

The Requestor is eligible to change BCD that is assigned to his sub-accounts, only from its own eligible BCD list.

4.54.2 API Request

Parameter	Type	M/O/CM	Description
id	UUID	M	New billing cycle definition universal unique identity which will replace the existing one for the given customer ID (sub account)

4.54.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code. See list below, under 'Error Codes' section
errorMessage	String	O	Failure detailed description. See list below, under 'Error Codes' section
content	Object	O	Array of main response body object. Displayed when an API call was successful. For a failure it will be empty.
pageable	Object	O	Paging information object. Displayed when an API call was successful. For a failure it will be empty.

Content

Parameter	Type	M/O/CM	Description
requestId	UUID	M	Request instance ID. To be used by external systems to query the call (operation) status, whether in progress, successful or failed.

4.54.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
CUSTOMER_1002	Customer does not exist
CUSTOMER_1006	Failed to retrieve customer details.
CUSTOMER_1039	Requested BCD is not eligible for the customer

4.54.5 Examples

Request Body

```
"id": "fe84aea1-5e3f-4f45-b32c-03562913c350"
}
```

Response Body: Success (ACK)

```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
      "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370"
    }
  ]
}
```

```

    ],
    "pageable": null
  }

```

Response Body: Failure(s) (NAK)

```

    "errorCode": "CUSTOMER_1039",
    "errorMessage": "Requested BCD is not eligible for the
customer",
    "content": "",
    "pageable": ""
  }

```

4.55 Modify Customer Balance

The Modify Customer Balance API is used to add or deduct money from/to a postpaid balance of the account. This function does not change the RATE type offer's limit values.

HTTP URL	
PUT	api/v2/customer/{id}/balance

4.55.1 Eligibility

The Requestor is eligible to add or deduct money to/from his direct sub-accounts only. It is not allowed to perform these changes neither on its own account nor any other sub-accounts level.

4.55.2 API Request

Request Structure

Parameter	Type	M/O/CM	Description
subAccountId	UUID	M	Universal unique ID of the sub account that its balance will be modified.
amount	Decimal	M	Add or deduct money to/from the customer's postpaid balance. Sending positive value will perform a DEBIT action (deduct money from the balance). Negative value will perform a CREDIT action (add money to the balance)
currency	String	M	Monetary currency. e.g., USD, GBP, EUR
quantity	Numeric	O	Quantity represents how many adjustments are needed.e.g. amount 10, currency "USD" with quantity 3 will result in an adjustment of 30\$ (amount*quantity). Must be positive number. Default if not sent is 1.
referenceTime	DateTime	O	Self-recorded timestamp. It is not the actual transaction date and time. It is not possible to populate date for future execution. The adjustment is being executed immediately when the API is sent. Default if not sent – now()
externalTransactionId	String	O	External Reference identifier. Relevant if search of transaction is required in reports or extractions
description	String	O	Adjustment description. Free text.
transactionType	String	O	Type of transaction. Currently supports manual adjustments only. ENUM valid values: MANUAL_ADJUSTMENT. Default if not sent: MANUAL_ADJUSTMENT
reason	String	O	Reason for the transaction per type. Manual adjustment ENUM valid values: GENERAL, DISCOUNT, RATES_ADJUSTMENTS, REFUND, CREDIT, SHIPMENT_COST, ORDER_COST, DEBT. Default if not sent: GENERAL

4.55.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code. See list below, under 'Error Codes' section

Parameter	Type	M/O/CM	Description
errorMessage	String	O	Failure detailed description. See list below, under 'Error Codes' section
content	Object	O	Array of main response body object. Displayed when an API call was successful. For a failure it will be empty.
pageable	Object	O	Paging information object. Displayed when an API call was successful. For a failure it will be empty.

Content Data Objects

Parameter	Type	M/O/CM	Description
requestId	UUID	M	Request instance ID. To be used by external systems to query the call (operation) status, whether in progress, successful or failed.

4.55.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
CUSTOMER_1002	Subscriber does not exist
CUSTOMER_1006	Failed to retrieve customer details

4.55.5 Examples

Request Body

<pre>{ "subAccountId": "fe84aea1-5e3f-4f45-b32c-03562913c350", "amount": -25, "currency": "USD", "quantity": 3, "referenceTime": "2024-12-30 22:05:59", }</pre>

```
"externalTransactionId": "",  
"description": "Applying a discount",  
"transactionType": "MANUAL_ADJUSTMENT",  
"reason": "DISCOUNT"  
}
```

Response Body: Full Success (ACK)

```
{  
  "errorCode": "",  
  "errorMessage": "",  
  "content": [  
    {  
      "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370"  
    }  
  ],  
  "pageable": null  
}
```

Response Body: Includes Failure(s) (NAK)

```
{  
  "errorCode": "CUSTOMER_1039",  
  "errorMessage": "Requested BCD is not eligible for the  
customer",  
  "content": "",  
  "pageable": ""  
}
```

4.56 Get Customer Invoice List

The Get Customer Invoice List API is used to retrieve a list of published customer invoices. A customer may retrieve only invoices which were generated in the last 12 months.

HTTP URL	
GET	api/v2/customer/{id}/invoices

4.56.1 Eligibility

The Requestor is eligible to request information on invoices which were assigned to his own customer or his own sub-customers.

4.56.2 API Request

Not applicable

4.56.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code. See list below, under 'Error Codes' section
errorMessage	String	O	Failure detailed description. See list below, under 'Error Codes' section
content	Object	O	Array of main response body object. Displayed when an API call was successful. For a failure it will be empty.
pageable	Object	O	Paging information object. Displayed when an API call was successful. For a failure it will be empty.

Content

Parameter	Type	M/O/CM	Description
id	UUID	M	Invoice Id
invoiceNumber	String	M	The Invoice number

Parameter	Type	M/O/CM	Description
creationTime	dateTime	M	The date and time when the invoice was generated
billingCycleStartTime	dateTime	M	The date and time when the Billing Cycle starts
billingCycleEndTime	dateTime	M	The date and time when the Billing Cycle ends
currency	string	M	Invoice currency code. E.g., GBP, USD, etc.
netAmount	decimal	M	The total accumulated net amount. The amount that tax applies for.
taxAmount	decimal	M	The total calculated tax amount
totalAmount	decimal	M	The total invoice amount, sum of tax amount and net amount
dueDate	dateTime	O	The date that the bill payment is due on

4.57 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
CUSTOMER_1002	Customer does not exist
CUSTOMER_1006	Failed to retrieve customer details

4.57.1 Examples

Request Body

```
{
}
```

Response Body: Full Success ACK

```
{
  "errorCode": "",
  "errorMessage": "",
}
```

```
"content": [  
  {  
    "id": "62e8ba66-3a2d-4919-ae16-f87f35845a4b",  
    "invoiceNumber": "1134",  
    "creationTime": "2021-07-01T00:00:00.977Z",  
    "billingCycleStartDate": "2022-07-01T00:00:00.977Z",  
    "billingCycleEndDate": "2023-07-30T23:59:59.977Z",  
    "currency": "USD",  
    "taxAmount": 25.9,  
    "netAmount": 185.1,  
    "totalAmount": 211,  
    "dueDate": "2023-10-15"  
  },  
  {  
    "id": "d1d2f769-f755-4210-bf76-00fa023623e9",  
    "invoiceNumber": "1204",  
    "creationTime": "2021-02-01T00:00:00.977Z",  
    "billingCycleStartDate": "2022-02-01T00:00:00.977Z",  
    "billingCycleEndDate": "2023-02-28T23:59:59.977Z",  
    "currency": "USD",  
    "taxAmount": 10.1,  
    "netAmount": 200,  
    "totalAmount": 210.1,  
    "dueDate": "2023-11-15"  
  }  
],  
"pageable": null  
}
```

Response Body: Includes Failure(s) (NAK)

```
{
  "bulk": [
    {
      "errorCode": "SUBSCRIBER_1009",
      "errorMessage": "Top-up failure. Balance not found",
      "requestId": "",
      "subscriberIdentifiers": {
        "type": "IMSI",
        "value": "222013090961963"
      },
      "content": {
        "subscriberOfferingId": "ff74dca6-8e7f-4b85-a42b-13860913b370",
        "charge": 20.5,
        "currency": "EUR",
        "expirationDate": "25042023",
        "allowance": [
          {
            "currency": "MB",
            "value": 20
          }
        ]
      }
    }
  ],
  "pageable": {
    "page": 0,
    "size": 10,
  }
}
```

```

    "totalPages": 1,
    "totalElements": 1
  }
}
```

4.58 Get Customer Invoice Files

The Get Customer Invoice files API is used to download customer single or multiple invoice files to the user's local machine. The API may return one or more files* of a particular invoice or even one or more files of multiple invoices. When downloading multiple invoices, the downloaded file is a zip file which contains all the requested invoices.

Currently XML and PDF file types are supported

HTTP URL	
POST	api/v2/customer/{id}/download-invoices

4.58.1 Eligibility

The Requestor is eligible to request download of invoices which were assigned to his own customer or his own sub-customers.

Customer {id} can be either the requestor's customer ID or any of the customer's direct sub customers.

4.58.2 API Request

Parameter	Type	M/O/CM	Description
id	UUID	O	Array of invoice UUIDs to retrieve

4.58.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code. See list below, under 'Error Codes' section
errorMessage	String	O	Failure detailed description. See list below, under 'Error Codes' section
content	Object	O	Array of main response body object. Displayed when an API call was successful. For a failure it will be empty.
pageable	Object	O	Paging information object. Displayed when an API call was successful. For a failure it will be empty.

Content

Parameter	Type	M/O/CM	Description
attachmentData	String	M	Base64 text encoding string representing the requested invoice file as a binary data (as a particular or a zip file type).

4.58.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
CUSTOMER_1002	Customer does not exist
CUSTOMER_1006	Failed to retrieve customer details
CUSTOMER_1040	Requested invoice ID\s invalid

4.58.5 Examples

Request Body

{ }

Response Body: Full Success (ACK)

```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
      "attachmentData": "blob:http://flo-
invoice.storage.flo.int:8080/74c15934-f0a0-437a-92cf-
fbd86b0abbb0"
    }
  ],
  "pageable": null
}
```

Response Body: Includes Failure(s) (NAK)

```
{
  "errorCode": "GLOBAL_1001",
  "errorMessage": "Service unavailable. Please try again",
  "content": "",
  "pageable": null
}
```

5 Subscriber APIs

5.1 Get Subscriber Details

This API is used to retrieve the details of a single subscriber, including plans (individual or pool offers). If the requested subscriber {value} also exists under a sub-customer, the subscriber details will also be provided.

HTTP URL	
GET	/api/v2/subscriber/{type}/{value}

5.1.1 Eligibility

The Requester is eligible to request information on own subscribers and own sub-customers' subscribers.

5.1.2 API Request

This API has no request structure.

5.1.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.

Parameter	Type	M/O/CM	Description
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/C M	Description
subscriberIdentifiers	Object	M	Subscriber unique keys
customerId	UUID	M	Parent customer ID.
customerName	String	M	Parent customer name
subsStatus	String	M	LCP status
tags	String	O	List of tags
systemLabels	String	O	Array of system label names. Comma separated.
userLabels	String	O	Array of user label names. Comma separated.
alias	String	O	Subscriber alias for more easily identifying the subscriber by name. May be filled in for the subscriber under the requesting customer. Always empty ("null") for a subscriber that exists under a sub-customer.
lastKnownLocation	Object	O	Last known SIM location.

Element	Type	M/O/C M	Description
lastConnectedNetwork	Object	O	Last known network SIM connected to.
lastRatType	Numeric	O	<p>Last connected RAT type</p> <p>The numeric value corresponds to the RAT (Radio Access Type):</p> <p>Range:</p> <p>0: <reserved></p> <p>1: UTRAN - 3G</p> <p>2: GERAN - 2G</p> <p>3: WLAN</p> <p>4: GAN</p> <p>5: HSPA Evolution</p> <p>6: EUTRAN (WB-E-UTRAN) - 4G</p> <p>7: Virtual</p> <p>8: EUTRAN-NB-IoT</p> <p>9: LTE-M</p> <p>10: NR</p> <p>11–255: <spare></p>
isInDataSession	Boolean	O	<p>Specifies whether subscriber has an open data session</p> <p>True = Subscriber has an open data session</p> <p>False = Subscriber does not have an open data session. The last recorded data session End Time is then specified in lastDataSession</p>

Element	Type	M/O/C M	Description
lastDataSession	DateTIme	O	Last closed recorded data session date and time (End Time)
lastIp	String	O	Last IP Address
offer	Object	O	Array of subscriber offers
contact	Object	O	Array of subscriber contact details
customFields	Object	O	Placeholder array of generic object used for customization purposes (future feature)

Subscriber identifiers data objects

Element	Type	M/O/CM	Description
subscriberId	UUID	M	Subscriber Universal Unique ID
imsiMsisdnPairs	Object	M	Array of IMSI and MSISDN pairs object; only one can be marked as active (at the most)
iccid	String	M	SIM card serial number
imei	String	O	Device ID registered on the subscriber
imeisv	String	O	Device ID including software version registered on the subscriber

imsiMsisdnPairs objects

Element	Type	M/O/CM	Description
imsi	String	M	IMSI registered on the SIM card
msisdn	String	O	Subscriber mobile number: MSISDN Format: International E.164
isLastActive	Boolean	M	Last known IMSI as active indication; only one can be active at a time. True = Last Active IMSI False = Inactive IMSI

Last known location data objects

Element	Type	M/O/CM	Description
longitude	Decimal	O	SIM card longitude
latitude	Decimal	O	SIM card latitude

Last connected network data objects

Element	Type	M/O/CM	Description
mcc	String	O	Last connected MCC
mnc	String	O	Last connected MNC

Element	Type	M/O/CM	Description
lac	String	O	Last connected LAC
cid	String	O	Last connected CID

Offer data objects

Element	Type	M/O/CM	Description
id	UUID	M	Offer ID as defined in Product Catalog
name	String	M	Offer name
description	String	O	Offer description
attachTimestamp	Datetime	O	Attach offer timestamp Format: YYYY-MM-DD HH:MM:SS.ms
renewalDate	Date	O	Next renewal date
expirationDate	Date	O	Expiration date
priority	Numeric	M	Plan consumption order
linkedOfferIDs	UUID	O	Array of linked offer IDs that are assigned to this offer. An empty array means that there is no offer linked to this offer.

Contact details data objects

Element	Type	M/O/CM	Description
id	UUID	M	Contact ID
emailAddress	String	O	Contact email address
type	String	M	Contact type, whether owner of the customer or a member. ENUM: OWNER, MEMBER
role	String	M	Eligible to enter the self-care application. ENUM: SELF CARE, NONE
salutation	String	O	Contact salutation. ENUM: MR, MS
firstName	String	O	Contact first name
middleName	String	O	Contact middle name
lastName	String	O	Contact last name
identity	Object	M	Array of contact identity numbers
gender	String	O	Contact gender.
birthdate	Date	O	Contact date of birth. Format: DDMMYYYY

Element	Type	M/O/CM	Description
landlinePhoneNumber	String	CM	CBR reachable phone number. Mandatory if mobilePhoneNumber is not provided
mobilePhoneNumber	String	CM	CBR reachable phone number. Mandatory if landlinePhoneNumber is not provided. Format: International E.164
additionalPhoneNumber	String	O	Additional phone number where the contact can be reached
picture	String	O	Contact photograph (future feature)
remarks	String	O	General remarks

Identity data objects

Element	Type	M/O/CM	Description
idType	String	M	Identity type: ENUM: NATIONAL_ID PASSPORT DRIVER_LICENSE
idNumber	String	M	ID number

Custom fields data objects (future feature)

Element	Type	M/O/CM	Description
keyName	String	O	Name of the custom element
keyValue	String	O	Custom element value

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

5.1.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
SUBSCRIBER_1002	Subscriber does not exist

Code	Message
SUBSCRIBER_1006	Failed to retrieve subscriber details

5.1.5 Examples

Request Body

```
{  
}
```

Response Body: Success ACK

```
{  
  "errorCode": "",  
  "errorMessage": "",  
  "content": [  
    {  
      "subscriberIdentifiers": {  
        "subscriberId": "e7fcef24-5c03-41dd-9e33-  
995b7d6f47a7",  
        "imsiMsisdnPairs": [  
          {  
            "imsi": "222013090961859",  
            "msisdn": "999013090961859",  
            "isLastActive": true  
          },  
          {  
            "imsi": "310380501118337",  
            "msisdn": "134044411258337",
```

```
        "isLastActive": false
    },
    ],
    "iccid": "8935711001000034535",
    "imei": "354306110218529",
    "imeisv": "3543061102185201"
},
"customerId": "d7fcef24-5c03-41dd-9e33-995b7d6f47a4",
"customerName": "Gualas",
"subsStatus": "ACTIVE",
"systemLabels": [
    "LPWA",
    "4FF"
],
"userLabels": [
    "user label 1",
    "user label 2"
],
"alias": "Camera1",
"lastKnownLocation": {
    "longitude": 230,
    "latitude": 70.5
},
"lastConnectedNetwork": {
    "mcc": "257",
    "mnc": "02",
    "lac": "16",
    "cid": "2224"
},
}
```

```
"lastRatType": "GSM",
"lastDataSession": "2020-11-10 09:47:46.668866",
"lastIp": "10.84.8.208",
"offer": [
  {
    "id": "e7fcef24-5c03-41dd-9e33-995b7d6f47a7",
    "name": "roaming 20GB",
    "description": "roaming bundle 20 GB",
    "attachTimestamp": "2020-11-11 08:47:46.758866",
    "renewalDate": "23122023",
    "expirationDate": "23052024",
    "priority": 100,
    "linkedOfferIds": [
      "d7ecef34-5b23-21ae-9e53-905a7d6d43a8",
      "e1eceff4-5c13-29ee-1d53-901a7a3b13a0"
    ]
  },
  {
    "id": "e7fcef24-5c03-41dd-9e33-995b7d6f46b6",
    "name": "Data 10GB",
    "description": "Data Add-on 10 GB",
    "attachTimestamp": "2020-11-08 08:12:48.758823",
    "renewalDate": "23122023",
    "expirationDate": "23052024",
    "priority": 200,
    "linkedOfferIds": null
  }
],
"contact": {
```

```
"id": "e7fcef24-5c03-41dd-9e33-995b7d6f46e2",
"emailAddress": "shaul.cohen@fllolive.net",
"type": "OWNER",
"role": "NONE",
"salutation": "MR",
"firstName": "Shaul",
"middleName": "",
"lastName": "Cohen",
"identity": [
  {
    "idType": "PASSPORT",
    "idNumber": "123456789"
  },
  {
    "idType": "NATIONAL_ID",
    "idNumber": "987654321"
  }
],
"gender": "MALE",
"birthdate": "28122000",
"landlinePhoneNumber": "",
"mobilePhoneNumber": "972542265160",
"additionalPhoneNumber": "",
"picture": "",
"remarks": ""
},
"customFields": [
  {
    "keyName": "custom-property1",
```

```

        "keyValue": "custom-value"
    },
    {
        "keyName": "custom-property2",
        "keyValue": "custom-value"
    }
]
},
{
    "subscriberIdentifiers": {
        "subscriberId": "e7fcef24-5c03-41dd-9e33-995b7d6f32b1",
        "imsiMsisdnPairs": [
            {
                "imsi": "222013090961859",
                "msisdn": "999013090961859",
                "isLastActive": true
            },
            {
                "imsi": "310380501118337",
                "msisdn": "134044411258337",
                "isLastActive": false
            }
        ],
        "iccid": "8935711001000034547",
        "imei": "354306110218531",
        "imeisv": "3543061102185301"
    },
    "customerId": "b8fcef24-5c03-41dd-9e33-956b7d6e47b3",
    "customerName": "Gualas",

```



```
"subsStatus": "ACTIVE",
"systemLabels": [
  "LPWA",
  "4FF"
],
"alias": null
"lastKnownLocation": {
  "longitude": 250,
  "latitude": 86.5
},
"lastConnectedNetwork": {
  "mcc": "257",
  "mnc": "02",
  "lac": "16",
  "cid": "2224"
},
"lastRatType": "GSM",
"lastDataSession": "2020-11-10 09:47:46.668866",
"lastIp": "10.84.8.208",
"offer": [
  {
    "id": "e7fcef24-5c03-41dd-9e33-995b7d6f47a7",
    "name": "roaming 20GB",
    "description": "roaming bundle 20 GB",
    "attachTimestamp": "2020-11-11 08:47:46.758866",
    "renewalDate": "23122023",
    "expirationDate": "23052024",
    "priority": 100,
    "linkedOfferIds": null
  }
]
```

```
    },  
    {  
      "id": "e7fcef24-5c03-41dd-9e33-995b7d6f46b6",  
      "name": "Data 10GB",  
      "description": "Data Add-on 10 GB",  
      "attachTimestamp": "2020-11-08 08:12:48.758823",  
      "renewalDate": "23122023",  
      "expirationDate": "23052024",  
      "priority": 200,  
      "linkedOfferIds": null  
    }  
  ],  
  "contact": {  
    "id": "e7fcef24-5c03-41dd-9e33-995b7d6f46e2",  
    "emailAddress": "john.flow@fllolive.net",  
    "type": "OWNER",  
    "role": "NONE",  
    "salutation": "MR",  
    "firstName": "John",  
    "middleName": "",  
    "lastName": "Flow",  
    "identity": [  
      {  
        "idType": "PASSPORT",  
        "idNumber": "123456730"  
      },  
      {  
        "idType": "NATIONAL_ID",  
        "idNumber": "987654300"  
      }  
    ]  
  }  
}
```

```
    }
  ],
  "gender": "MALE",
  "birthdate": "29122002",
  "landlinePhoneNumber": "",
  "mobilePhoneNumber": "972546655163",
  "additionalPhoneNumber": "",
  "picture": "",
  "remarks": ""
},
"customFields": [
  {
    "keyName": "custom-property1",
    "keyValue": "custom-value"
  },
  {
    "keyName": "custom-property2",
    "keyValue": "custom-value"
  }
]
}
],
"pageable": {
  "page": 1,
  "size": 10,
  "totalPages": 1,
  "totalElements": 2
}
}
```

Response Body: Failure NAK

```
{
  "errorCode": "SUBSCRIBER_1006",
  "errorMessage": "Failed to retrieve subscriber details",
  "content": "",
  "pageable": null
}
```

5.2 Modify Subscriber Details

This API is used to modify attributes of a single Subscriber in the platform.

HTTP URL	
PATCH	/api/v2/subscriber/{type}/{value}

5.2.1 Eligibility

The Requester is eligible to modify the alias of own subscribers only.

5.2.2 API Request

Request Structure

Parameter	Type	M/O/CM	Description
alias	String	O	<p>Subscriber alias for more easily identifying the subscriber by name (instead of by numerical IDs, such as ICCID)</p> <p>Entering a Null string ("") for the alias value deletes the existing alias for this subscriber</p>

5.2.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
requestId	UUID	M	<p>Request instance ID.</p> <p>To be used by external systems to query the call (operation) status:</p> <p>In progress</p> <p>Successful</p> <p>Failed.</p>

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

5.2.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
SUBSCRIBER_1002	Subscriber does not exist
SUBSCRIBER_1003	Failed to update subscriber details

5.2.5 Examples

Request Body

```
{  
  "alias": "alias1"  
}
```

Response Body: Success ACK

```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
      "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370"
    }
  ],
  "pageable": {
    "page": 0,
    "size": 10,
    "totalPages": 1,
    "totalElements": 1
  }
}
```

Response Body: Failure NAK

```
{
  "errorCode": "GLOBAL_1001",
  "errorMessage": "Service unavailable. Please try again",
  "content": "",
  "pageable": ""
}
```

5.3 Get Subscriber Applets

Get Subscriber Applets API is used to retrieve card applets information for one or more subscribers.

HTTP URL	
GET	api/v2/subscriber/{type}/{value}/applets

5.3.1 Eligibility

The Requestor is eligible to request applets information of his own subscribers regardless their actual existence (which level they reside in).

5.3.2 API Request

Not applicable

5.3.3 API Response

Response Structure

Parameter	Type	M/O /CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
atEnabled	Boolean	M	Determines whether a subscriber can be sent AT commands. True = AT commands enabled. False = AT commands disabled.
imsiOrder	String	CM	Array of the IMSI providers burned on the card. Sorted by their order. May be populated if atEnabled=true. Empty if atEnabled=false

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

5.3.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again

5.3.5 Examples

Response Body: Success ACK

```
"errorCode": "",
"errorMessage": "",
"content": [
  {
    "atEnabled": true,
    "imsiOrder": [
      "1-TIS",
      "2-Melita"
    ]
  }
],
"pageable": {
  "page": 0,
  "size": 10,
  "totalPages": 1,
  "totalElements": 1
}
```

Response Body: Failure NAK

```
{
  "errorCode": "GLOBAL_1001",
  "errorMessage": "Service unavailable. Please try again",
  "content": "",
  "pageable": ""
}
```

5.4 Delete Subscriber Location

This API, which may also be referred to elsewhere as Cancel Location, Reset SIM or Reload SIM, is used to delete a subscriber's registered location of an active IMSI from the system.

HTTP URL	
DELETE	/api/v2/subscriber/{type}/{value}/cancel-location

5.4.1 Eligibility

The requesting customer is eligible to delete (reset) own subscribers and sub-customers' subscribers.

5.4.2 API Request

Request Structure

Element	Type	M/O/CM	Description
eventType	Numeric	O	<p>Determines on which domain type to perform the action.</p> <p>Valid values:</p> <p>5 = circuit switching</p>

Element	Type	M/O/CM	Description
			<p>15 = packet switching</p> <p>25 = LTE</p> <p>0 = All: Apply to any type by the system</p> <p>Default: 0 if not provided</p>

5.4.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
requestId	UUID	M	Request instance ID.

Element	Type	M/O/CM	Description
			To be used by external systems to query the call (operation) status: In progress Successful Failed

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

5.4.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again

Code	Message
SUBSCRIBER_1002	Subscriber does not exist
SUBSCRIBER_1040	Failed to cancel subscriber location

5.4.5 Examples

Request Body

```
{  
  "eventType": 0  
}
```

Response Body: Success ACK

```
{  
  "errorCode": "",  
  "errorMessage": "",  
  "content": [  
    {  
      "requestId": "e7fcef24-5c03-41dd-9e33-995b7d6f32b1"  
    }  
  ],  
  "pageable": {  
    "page": 0,  
    "size": 10,  
    "totalPages": 1,  
    "totalElements": 1  
  }  
}
```

```
}

```

Response Body: Failure NAK

```
{
  "errorCode": "SUBSCRIBER_1040",
  "errorMessage": "Failed to cancel subscriber location",
  "content": "",
  "pageable": ""
}
```

5.5 Move Subscriber

This API is used to move a subscriber (SIM) from its current account or sub-account (customer) to another.

HTTP URL	
PUT	/api/v2/subscriber/{type}/{value}/move

5.5.1 Eligibility

The Requester is eligible to request to move a subscriber that is now attached to its own account (level 0) and move it to its own sub-account (level 1). The Requester is eligible to request to move a subscriber that is now attached to its own sub-account (level 1) and move it to another one of its sub-accounts (level 1).

The Requester is eligible to request to move a subscriber that is he previously allocated to any of its sub-accounts (level 1) back to its own (parent) account (level 0). The Requester is eligible to do this regardless of the sub-account level the subscriber is now found in. If the Requester sub-account (level 1) has allocated that subscriber, in turn, to its own sub-account (level 2), the Requester can still move the subscriber back to its own account (level 0). This means the Requester is eligible to move the subscriber that it has allocated to its sub-account back to its own account, regardless of how many times that subscriber has been resold. The Requester always “sees” the subscriber as listed in its sub-

account (level 1), regardless of where it actually is now and so can move it back to its own account (level 0).

For example:

1. SIM1 is attached to the Requester's own account (level 0).
2. The Requester moves SIM1 to one of its own sub-accounts called Sparta (level 1).
3. Sparta allocates SIM1 to one of its sub-accounts called Carthage (level 2 from the Requester's account level).
4. Carthage allocates SIM1 to one its sub-accounts called Athens (level 3 from the Requester's account level)

In this use case, the Requester at level 0 is eligible to do the following:

1. Move SIM1 from Sparta (level 1) back to its own account (level 0).
2. If SIM1 is now found in Carthage (level 2), the Requester can still move it back to its own account (level 0).
3. If SIM1 is now found in Athens (level 3), the Requester can still move it back to its own account (level 0)

5.5.2 API Request

Request Structure

Parameter	Type	M/O/CM	Description
targetCustomerId	UUID	M	The UUID of the customer that the subscriber is being moved to

5.5.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
requestId	UUID	M	<p>Request instance ID.</p> <p>To be used by external systems to query the call (operation) status:</p> <p>In progress</p> <p>Successful</p> <p>Failed.</p>

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number

Element	Type	M/O/CM	Description
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

5.5.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
CUSTOMER_1008	Failed to find target customer
SUBSCRIBER_1002	Subscriber does not exist
SUBSCRIBER_1023	Failed to move subscriber

5.5.5 Examples

Request Body

```
{  
  "targetCustomerId": "dd64dca6-8e7f-4b85-a42b-13860913bb5a"  
}
```

Response Body: Success ACK

```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
      "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370"
    }
  ],
  "pageable": {
    "page": 0,
    "size": 10,
    "totalPages": 1,
    "totalElements": 1
  }
}
```

Response Body: Failure NAK

```
{
  "errorCode": "CUSTOMER_1008",
  "errorMessage": "Failed to find target customer",
  "content": "",
  "pageable": null
}
```

5.6 Modify Subscriber Status

This API is used to change the LCP status of a single subscriber in the platform.

HTTP URL	
PUT	/api/v2/subscriber/{type}/{value}/status

5.6.1 Eligibility

The Requester is eligible to request a status change for own subscribers or for own sub-customer subscribers.

5.6.2 API Request

Request Structure

Parameter	Type	M/O/CM	Description
status	String	M	Request to change the subscriber's current status to a new status value

5.6.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
requestId	UUID	M	<p>Request instance ID.</p> <p>To be used by external systems to query the call (operation) status:</p> <p>In progress</p> <p>Successful</p> <p>Failed.</p>

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

5.6.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
SUBSCRIBER_1002	Subscriber does not exist
SUBSCRIBER_1008	Failed to update subscriber status

5.6.5 Examples

Request Body

```
{  
  "status": "ACTIVE"  
}
```

Response Body: Success ACK

```
{  
  "errorCode": "",  
  "errorMessage": "",  
  "content": [  
    {  
      "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370"  
    }  
  ],  
  "pageable": {  
    "page": 0,  
    "size": 10,  
    "totalPages": 1,  
  }  
}
```

```

    "totalElements": 1
  }
}

```

Response Body: Failure NAK

```

{
  "errorCode": "SUBSCRIBER_1008",
  "errorMessage": "Failed to update subscriber status",
  "content": "",
  "pageable": ""
}

```

5.7 Create Subscriber Labels

This API is used to create one or multiple User labels for a subscriber (SIM) in one call.

When you send a request to create multiple User labels in a single call, the result treats all of them as a single result with all User labels created successfully or all failed when even one of the labels fails to be created.

When you create a label, it cannot be modified. If you want to change a Label name, you must first delete the existing label and then create a new one.

HTTP URL	
POST	/api/v2/subscriber/{type}/{value}/label

5.7.1 Eligibility

The Requester is eligible to request creating User-labels for its own (single) subscriber or one of its sub-customers' (sub-accounts) subscribers.

5.7.2 API Request

Request Structure

Parameter	Type	M/O/CM	Description
name	String	M	List of label names to be created

5.7.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
requestId	UUID	M	Request instance ID.

Element	Type	M/O/CM	Description
			To be used by external systems to query the call (operation) status: In progress Successful Failed

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

5.7.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again

Code	Message
GLOBAL_1002	Unauthorized Call. You are not eligible to use this API
SUBSCRIBER_1030	Failed to create subscriber label/s

5.7.5 Examples

Request Body

```
{
  "name": [
    "lable1",
    "label2"
  ]
}
```

Response Body: Success ACK

```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
      "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370"
    }
  ],
  "pageable": {
    "page": 0,
    "size": 10,
  }
}
```

```
    "totalPages": 1,  
    "totalElements": 1  
  }  
}
```

Response Body: Failure NAK

```
{  
  "errorCode": "GLOBAL_1030",  
  "errorMessage": "Failed to create subscriber label\s",  
  "content": "",  
  "pageable": ""  
}
```

5.7.6 Get Subscriber Labels

This API is used to retrieve a list of User labels attached to a subscriber (SIM).

HTTP URL	
GET	/api/v2/subscriber/{type}/{value}/label

5.7.7 Eligibility

The Requester is eligible to request User-label information attached to a single subscriber (SIM) of:

- Its own customer (sub-account)
- One of its customers' sub-customers

5.7.8 API Request

This API has no request structure.

5.7.9 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
id	UUID	M	Label instance attached to the subscriber
name	String	M	Label name
creationTime	DateTime	M	Label creation timestamp

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

5.7.10 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
SUBSCRIBER_1002	Subscriber does not exist
SUBSCRIBER_1029	Failed to retrieve subscriber label details

5.7.11 Examples

Request Body

<pre>{ }</pre>

Response Body: Success ACK

```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
      "id": "e7fcef24-5c03-41dd-9e33-995b7d6f47a7",
      "name": "label1",
      "creationTime": "2020-11-11 08:47:46"
    },
    {
      "id": "b2fccb33-5c03-41dd-9e33-662f7d6f47b2",
      "name": "label2",
      "creationTime": "2020-11-11 08:47:50"
    }
  ],
  "pageable": {
    "page": 0,
    "size": 10,
    "totalPages": 1,
    "totalElements": 1
  }
}
```

Response Body: Failure NAK

```
{
  "errorCode": "SUBSCRIBER_1029",
```

```

    "errorMessage": "Failed to retrieve subscriber label
    details",
    "content": "",
    "pageable": ""
  }

```

5.8 Delete Subscriber Labels

This API is used to delete one or multiple User labels for a subscriber (SIM) in one call.

When sending a request to delete multiple User labels in a single call, the result treats all of them as a single result with all User labels deleted successfully or all failed when even one of the labels fails to be deleted.

HTTP URL	
DELETE	/api/v2/subscriber/{type}/{value}/label/{id}

5.8.1 Eligibility

The Requester is eligible to request deleting User-labels for its own (single) subscriber or one of its sub-customers' (sub-accounts) subscribers.

5.8.2 API Request

Request Structure

Parameter	Type	M/O/CM	Description
id	UUID	M	List of label IDs to be deleted

5.8.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
requestId	UUID	M	<p>Request instance ID.</p> <p>To be used by external systems to query the call (operation) status:</p> <p>In progress</p> <p>Successful</p> <p>Failed</p>

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

5.8.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
GLOBAL_1002	Unauthorized Call. You are not eligible to use this API
SUBSCRIBER_1031	Failed to delete subscriber label/s

5.8.5 Examples

Request Body

```
{
  "id": [
    "e7fcef24-5c03-41dd-9e33-995b7d6f32b1",
    "ceb892d2-f24b-4007-bf81-999fe75cb635"
  ]
}
```

```
]
}
```

Response Body: Success ACK

```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
      "requestId": "e7fcef24-5c03-41dd-9e33-995b7d6f32b1"
    }
  ],
  "pageable": {
    "page": 0,
    "size": 10,
    "totalPages": 1,
    "totalElements": 1
  }
}
```

Response Body: Failure NAK

```
{
  "errorCode": "SUBSCRIBER_1031",
  "errorMessage": "Failed to delete subscriber label\s",
  "content": "",
  "pageable": ""
}
```

5.9 Get Subscriber Campaigns

Get Subscriber Campaigns API is used to retrieve floSIM campaigns for the subscriber..

The customer is not allowed to top-up a plan of the RATE type.

HTTP URL	
GET	api/v2/subscriber/{type}/{value}/campaign/{id}

If campaign {id} is not provided, retrieve all campaigns for the subscriber.

5.9.1 Eligibility

The Requestor is eligible to request for campaign information of his own subscribers regardless their actual existence (which level they reside in).

5.9.2 API Request

Not applicable

5.9.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code. See list below, under 'Error Codes' section
errorMessage	String	O	Failure detailed description. See list below, under 'Error Codes' section
content	Object	O	Array of main response body object. Displayed when an API call was successful. For a failure it will be empty.
pageable	Object	O	Paging information object. Displayed when an API call was successful. For a failure it will be empty.

Content

Parameter	Type	M/O/CM	Description
id	Numeric	M	CMP campaign participant identity
campaignId	Numeric	M	Identity of the campaign
status	String	M	Campaign participant message status. ENUM Valid values: PENDING, COMPLETED, SUSPENDED, PROGRESS, WAIT, RETRY, CANCELED, CANCELING, EXCEPTION Note: This is NOT the campaign status.
attempts	Numeric	M	Number of attempts made to run the campaign instance on the subscriber
timestamp	dateTime	M	Date and time of campaign instance last update (including creation and updates)

Pageable

Parameter	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

5.9.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again

5.9.5 Examples

Request Body

<pre>{ }</pre>

Response Body: Full Success (ACK)

```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
      "id": "2047016",
      "campaignId": "527",
      "status": "PENDING",
      "attempts": "3",
      "timestamp": "2022-02-11 14:21:53"
    },
    {
      "id": "2028328",
      "campaignId": "528",
      "status": "COMPLETED",
      "attempts": "5",
      "timestamp": "2022-03-12 19:28:59"
    }
  ],
  "pageable": {
    "page": 0,
    "size": 10,
    "totalPages": 1,
    "totalElements": 1
  }
}
```

Response Body: Includes Failure(s) NAK

```
{
  "errorCode": "GLOBAL_1001",
  "errorMessage": "Service unavailable. Please try again",
  "content": "",
  "pageable": ""
}
```

5.10 Get Subscriber SIM Settings

The Get Subscriber SIM Settings API is used to retrieve SIM related attribute settings.

HTTP URL	
GET	api/v2/subscriber/{type}/{value}/sim

5.10.1 Eligibility

The Requestor is eligible to request his own subscribers' SIM settings information regardless of their actual existence (which level they reside in).

5.10.2 API Request

Not applicable

5.10.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code. See list below, under 'Error Codes' section
errorMessage	String	O	Failure detailed description. See list below, under 'Error Codes' section
content	Object	O	Array of main response body object. Displayed when an API call was successful. For a failure it will be empty.
pageable	Object	O	Paging information object. Displayed when an API call was successful. For a failure it will be empty.

Content Data Objects

Parameter	Type	M/O/CM	Description
appletMode	String	M	Get the SIM applet mode. Determines whether the active IMSI can be set manually, or the applet determines which IMSI to use. ENUM valid values: MANUAL, AUTOMATIC
sim	Object	M	Array of SIMs object – In-Use IMSIs only will be retrieved

SIM

Parameter	Type	M/O/CM	Description
imsi	String	M	IMSI number registered on current SIM instance
slotNumber	Numeric	M	IMSI slot number. Card can have a maximum of 10 slots
preferredOperatorNetworks	String	O	Array of operator networks that get precedence on unlisted networks in the current SIM instance (given IMSI) while roaming. Networks are presented as MCCMNC values. Networks presented as comma separated MCCMNC values. Networks presented as comma separated MCCMNC values.
forbiddenNetworks	String	O	Array of networks that the current SIM instance (given IMSI) cannot connect to while roaming. Networks are presented as MCCMNC values.
allowedCountries	String	O	<p>Array of IMSI related Mobile Country Codes (MCC). The device is allowed to make a connection while in this country/continent. Comma separated values. Max 16 items in the array are allowed.</p> <p>The following values represent a whole mainland using a single item: 2FF,3FF,4FF,5FF,6FF,7FF</p> <ul style="list-style-type: none"> ○ 2FF: Europe ○ 3FF: North America and the Caribbean ○ 4FF: Asia and the Middle East ○ 5FF: Australia and Oceania ○ 6FF: Africa ○ 7FF: South and Central America

Parameter	Type	M/O/CM	Description
isActive	Boolean	M	Indicates whether the SIM instance (IMSI) is active. Only one IMSI can be active at a time. True = Active IMSI, False = Inactive IMSI

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

5.10.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again

5.10.5 Examples

Response Body: Success ACK

```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
      "appletMode": "MANUAL",
      "sim": [
        {
          "imsi": "222013090961859",
          "slotNumber": "1",
```



```
    "preferredOperatorNetworks": [  
      "302220",  
      "302500"  
    ],  
    "forbiddenNetworks": [  
      "23430",  
      "23415",  
      "90146"  
    ],  
    "allowedCountries": "001",  
    "isActive": true  
  },  
  {  
    "imsi": "310380501118337",  
    "slotNumber": "2",  
    "preferredOperatorNetworks": [],  
    "forbiddenNetworks": [],  
    "allowedCountries": "",  
    "isActive": false  
  }  
]  
}  
],  
"pageable": null  
}
```

Response Body: Failure NAK

```
{
  "errorCode": "GLOBAL_1001",
  "errorMessage": "Service unavailable. Please try again",
  "content": "",
  "pageable": null
}
```

5.11 Modify Subscriber SIM Settings

Modify Subscriber SIM Settings API is used to amend in-use SIM related attributes. Requested changes in SIM are executed via OTA commands sent by a binary SMS.

Request should contain only elements which require modification. Empty elements denote overridden of the existing value with a NULL value.

HTTP URL	
PATCH	api/v2/subscriber/{type}/{value}/sim

5.11.1 Eligibility

The Requestor is eligible to request his own subscribers' SIM settings information regardless of their actual existence (which level they reside in).

5.11.2 API Request

Parameter	Type	M/O/CM	Description
appletMode	String	O	Set the SIM applet mode. Determines whether the active IMSI can be set manually, or the applet determines which IMSI to use. ENUM valid values: MANUAL, AUTOMATIC
activeImsi	String	O	Set active IMSI. Must be from the subscriber identifiers list. Note: The system does not block an attempt to modify active IMSI even if the 'appletMode' is set to AUTOMATIC.
sim	Object	O	Array of SIMs object – In-Use IMSIs only

SIM

Parameter	Type	M/O/CM	Description
imsi	String	M	IMSI number registered on current SIM instance
allowedCountries	String	O	<p>Set an array of IMSI related Mobile Country Codes (MCC). The device is allowed to make a connection while in this country/continent.</p> <p>Send 'MCC' Comma separated values. Max 16 items in the array are allowed.</p> <p>Set the following values when allowing a whole mainland using a single item: 2FF,3FF,4FF,5FF,6FF,7FF</p> <ul style="list-style-type: none"> ○ 2FF: Europe ○ 3FF: North America and the Caribbean ○ 4FF: Asia and the Middle East ○ 5FF: Australia and Oceania ○ 6FF: Africa 7FF ○ South and Central America
preferredOperatorNetworks	String	O	Set the list of operator networks (array of comma separated strings) that get precedence on unlisted networks in current SIM instance (given IMSI) while roaming. >Send MCCMNC value. Note: Passed value(s) will override existing value(s). Empty string will reset the existing array list.
forbiddenNetworks	String	O	Set the list of networks (array of comma separated strings) that current SIM instance (given IMSI) cannot connect to while roaming. Send MCCMNC value. Note: Passed value(s) will override existing value(s). Empty string will reset the existing array list.

5.11.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code. See list below, under 'Error Codes' section
errorMessage	String	O	Failure detailed description. See list below, under 'Error Codes' section
content	Object	O	Array of main response body object. Displayed when an API call was successful. For a failure it will be empty.
pageable	Object	O	Paging information object. Displayed when an API call was successful. For a failure it will be empty.

Content

Parameter	Type	M/O/CM	Description
requestId	UUID	M	Request instance ID. To be used by external systems to query the call (operation) status, whether in progress, successful or failed.

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

5.11.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
SUBSCRIBER_1002	Subscriber does not exist.

5.11.5 Examples

Response Body

```
{
  "appletMode": "MANUAL",
  "activeImsi": "222013090961859",
  "sim": [
    {
      "imsi": "222013090961859",
      "allowedCountries": "001",
      "preferredOperatorNetworks": [
        "302220",
        "302500"
      ],
      "forbiddenNetworks": [
        "23430",
        "23415",
        "90146"
      ]
    },
    {
      "imsi": "310380501118337",
```

```
        "allowedCountries": "320",
        "preferredOperatorNetworks": [],
        "forbiddenNetworks": []
    }
]
```

Response Body: Success ACK

```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
      "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370"
    }
  ],
  "pageable": null
}
```

Response Body: Failure NAK

```
"errorCode": "GLOBAL_1001",
"errorMessage": "Service unavailable. Please try again",
```

5.12 Modify Subscriber SIM Status

Modify Subscriber SIM Settings API is used to amend in-use SIM related attributes. Requested changes in SIM are executed via OTA commands sent by a binary SMS.

Request should contain only elements which require modification. Empty elements denote overridden of the existing value with a NULL value.

HTTP URL	
PATCH	api/v2/subscriber/{type}/{value}/sim

5.12.1 Eligibility

The Requestor is eligible to request his own subscribers' SIM settings information regardless of their actual existence (which level they reside in).

5.12.2 API Request

Parameter	Type	M/O/CM	Description
status	String	O	<p>New requested status.</p> <p>Valid ENUM values:</p> <p>RESET Reset means that the system will change the card status to free ('idle'), hence unlocking a locked SIM card</p> <p>Default if not provided = RESET</p>

5.12.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code. See list below, under 'Error Codes' section
errorMessage	String	O	Failure detailed description. See list below, under 'Error Codes' section
content	Object	O	Array of main response body object. Displayed when an API call was successful. For a failure it will be empty.
pageable	Object	O	Paging information object. Displayed when an API call was successful. For a failure it will be empty.

Content

Parameter	Type	M/O/CM	Description
requestId	UUID	M	Request instance ID. To be used by external systems to query the call (operation) status, whether in progress, successful or failed.

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

5.12.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
SUBSCRIBER_1002	Subscriber does not exist.

5.12.5 Examples

Request Body

<pre>{ "status": "RESET" }</pre>
--

Response Body: Success ACK


```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
      "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370"
    }
  ],
  "pageable": null
}
```

Response Body: Failure NAK

```
{
  "errorCode": "GLOBAL_1001",
  "errorMessage": "Service unavailable. Please try again",
  "content": "",
  "pageable": null
}
```

5.13 Get Subscriber Usage

This API is used to retrieve a subscriber's usage summary per given period. The user can choose to retrieve an all-usage summary, or a selective summary filtered per usage type, such as Data only or SMS only.

HTTP URL	
POST	/api/v2/subscriber/{type}/{value}/usage

5.13.1 Eligibility

The Requester is eligible to request and retrieve usage information for own subscribers and his sub-customers' subscribers.

5.13.2 API Request

Request Structure

Parameter	Type	M/O/CM	Description
fromDate	Date	M	Starting date of usage retrieval Format: YYYY-MM-DD
toDate	Date	O	Ending date of usage retrieval Format: YYYY-MM-DD If empty, then current date [TODAY()] is considered.
service	String	O	Data or SMS. ENUM: DATA, SMS If not provided, return all types
unit	String	O	For Data only Range: KB, MB, GB Default: KB

5.13.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
subscriberId	UUID	M	Subscriber universal unique identifier
customerId	UUID	O	Indicates the customer ID that the subscriber is connected to.
customerName	String	O	Indicates the customer name that the subscriber is connected to.
usage	Object	M	Array of usage objects

Usage data objects

Element	Type	M/O/CM	Description
type	String	M	Usage type ENUM: Data, SMS
quantity	Decimal	M	Usage-summary amount
unit	String	CM	Unit measurement Data valid values: KB, MB, GB If not provided, default value KB

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

5.13.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
SUBSCRIBER_1002	Subscriber does not exist
SUBSCRIBER_1006	Failed to retrieve subscriber details

5.13.5 Examples

Request Body

```
{
  "fromDate": "2021-11-25",
  "toDate": "2021-11-28",
  "service": "DATA",
  "unit": "MB"
}
```

Response Body: Success ACK

```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
      "subscriberId": "d7fcef24-5c03-41dd-9e33-995b7d6f47a4",
      "customerId": "e7fcef24-5c03-41dd-9e33-995b7d6f47b5",
      "customerName": "Gualas LTD.",
      "usage": {
```

```
        "type": "DATA",
        "quantity": 50.5,
        "unit": "MB"
    }
},
{
    "subscriberId": "b5fcee28-5c03-41dd-8e33-895b7d6e67b5",
    "customerId": "e7fcef24-5c03-41dd-9e33-995b7d6f47a7",
    "customerName": "Gualas LTD.",
    "usage": {
        "type": "SMS",
        "quantity": 100,
        "unit": "SMS"
    }
}
],
"pageable": {
    "page": 0,
    "size": 10,
    "totalPages": 1,
    "totalElements": 1
}
}
```

Response Body: Failure NAK

```
{
    "errorCode": "SUBSCRIBER_1006",
    "errorMessage": "Failed to retrieve subscriber details",
```

```

    "content": "",
    "pageable": ""
  }

```

5.14 Get Subscriber Balance

This API is used to retrieve a single subscriber's balance for Usage or Money type plans.

HTTP URL	
GET	/api/v2/subscriber/{type}/{value}/balance/{id}

5.14.1 Eligibility

The Requester is eligible to request and retrieve balance information for own subscribers and own sub-customers' subscribers.

5.14.2 API Request

This API has no request structure.

5.14.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.

Parameter	Type	M/O/CM	Description
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
balanceID	UUID	M	Balance universal unique ID
currency	String	M	Monetary: For example, USD, GBP, EUR Allowance: SMS: (Number of) SMSs Data: KB, MB, GB
value	Decimal	M	Balance amount

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page

Element	Type	M/O/CM	Description
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

5.14.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
SUBSCRIBER_1002	Subscriber does not exist
SUBSCRIBER_1006	Failed to retrieve subscriber details

5.14.5 Examples

Request Body

```
{
}
```

Response Body: Success ACK

```
{
  "errorCode": "",
}
```

```
"errorMessage": "",
"content": [
  {
    "balanceId": "e7fcef24-5c03-41dd-9e33-995b7d6f32b1",
    "currency": "KB",
    "value": 50.3
  }
],
"pageable": {
  "page": 0,
  "size": 10,
  "totalPages": 1,
  "totalElements": 1
}
}
```

Response Body: Failure NAK

```
{
  "errorCode": "SUBSCRIBER_1006",
  "errorMessage": "Failed to retrieve subscriber details",
  "content": "",
  "pageable": ""
}
```

5.15 Modify Subscriber Steering

Modify Subscriber Steering API is used to change steering tree of a subscriber per given provider.

HTTP URL	
PUT	api/v2/subscriber/imsi/{value}/steering

NOTE: Provided {type} must be of 'imsi' type. Any other input type (i.e., 'iccid', 'msisdn', 'imei', 'imeisv') will be rejected.

5.15.1 Eligibility

The Requestor is eligible to request a steering tree change for his own subscribers.

5.15.2 API Request

Request Structure

Parameter	Type	M/O/C M	Description
steering	Numeric	M	Requested steering tree ID.

5.15.3 API Response

Response Structure

Parameter	Type	M/O/C M	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.

Parameter	Type	M/O/C M	Description
content	Object	O	Array of main response body object. Displayed when an API call was successful. For a failure it will be empty.
pageable	Object	O	Paging information object. Displayed when an API call was successful. For a failure it will be empty.

Content data objects

Parameter	Type	M/O/C M	Description
requestId	UUID	M	Request instance ID. To be used by external systems to query the call (operation) status, whether in progress, successful or failed.

Pageable data objects

Element	Type	M/O/C M	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

5.15.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
GLOBAL_1002	Subscriber does not exist

5.15.5 Examples

Request Body

```
{  
  "steering": 13  
}
```

Response Body: Success ACK

```
{  
  "errorCode": "",  
  "errorMessage": "",  
  "content": [  
    {  
      "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370"  
    }  
  ],  
  "pageable": {  
    "page": 0,  
  }  
}
```

```

    "size": 10,
    "totalPages": 1,
    "totalElements": 1
  }
}

```

Response Body: Failure NAK

```

{
  "errorCode": "SUBSCRIBER_1002",
  "errorMessage": "Subscriber does not exist",
  "content": "",
  "pageable": ""
}

```

5.16 Modify Subscriber PCRF Settings

Modify Subscriber PCRF Settings API is used to change a specific provider's (IMSI) web surfing bandwidth in floLIVE core network (PCRF).

HTTP URL	
PUT	api/v2/subscriber/imsi/{value}/pcrf

5.16.1 Eligibility

The Requestor is eligible to request his own subscribers' PCRF settings regardless of their actual existence (which level they reside in).

5.16.2 API Request

Request Structure

Parameter	Type	M/O/CM	Description
throttlingGroupId	Numeric	M	Set the PCRF throttling group in floLIVE core network

5.16.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code. See list below, under 'Error Codes' section
errorMessage	String	O	Failure detailed description. See list below, under 'Error Codes' section
content	Object	O	Array of main response body object. Displayed when an API call was successful. For a failure it will be empty.
pageable	Object	O	Paging information object. Displayed when an API call was successful. For a failure it will be empty.

Content data objects

Parameter	Type	M/O/CM	Description
requestId	UUID	M	Request instance ID. To be used by external systems to query the call (operation) status, whether in progress, successful or failed.

Pageable data objects

Parameter	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

5.16.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
SUBSCRIBER_1002	Subscriber does not exist

5.16.5 Examples

Request Body

```
Request Body:
{
  "throttlingGroupId": 13
}
```

Response Body: Success ACK

```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
      "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370"
    }
  ],
  "pageable": null
}
```

Response Body: Failure NAK


```

    "errorCode": "GLOBAL_1001",
    "errorMessage": "Service unavailable. Please try again",
    "content": "",
    "pageable": null
  }

```

5.17 Top-Up

This API is used to add money or allowances to a prepaid balance of a billing plan (individual offer).

The customer is not allowed to top-up a plan of the RATE type.

HTTP URL	
POST	/api/v2/subscriber/{type}/{value}/offer/{id}/topup

5.17.1 Eligibility

The requesting customer is allowed to top-up sub customers only. It is not allowed to top-up itself or top-up any other sub customer level.

5.17.2 API Request

Request Structure

Parameter	Type	M/O/CM	Description
charge	Decimal	M	Top-up cost. Charge of post-paid balance

Parameter	Type	M/O/CM	Description
currency	String	M	Monetary currency. For example, USD, GBP, EUR
expirationDate	Date	O	<p>Determines the requested date as per the selected expirationType set when plan created.</p> <p>Can be used only if the expirationType parameter has been set to FIXED.</p> <p>Ignored for other expirationType settings.</p>
allowance	Object	CM	<p>Array of allowance per service</p> <p>Mandatory for plan of type USAGE'</p> <p>Ignored if filled in for plan of type MONEY</p>

Allowance data objects

Element	Type	M/O/CM	Description
currency	String	M	<p>Allowance:</p> <p>SMS: (Number of) SMSs</p> <p>Data: KB, MB, GB</p>
value	Decimal	M	Balance amount

5.17.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
requestId	UUID	M	<p>Request instance ID.</p> <p>To be used by external systems to query the call (operation) status:</p> <p>In progress</p> <p>Successful</p> <p>Failed.</p>

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number

Element	Type	M/O/CM	Description
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

5.17.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
SUBSCRIBER_1002	Subscriber does not exist
SUBSCRIBER_1009	Top-up failure. Balance not found
SUBSCRIBER_1013	Top-up failure. It is not allowed to top-up to Pool Plan using this API

5.17.5 Examples

Request Body

```
{
  "charge": 20.5,
  "currency": "EUR",
  "expirationDate": "25042023",
```

```
"allowance": [  
  {  
    "currency": "SMS",  
    "value": 50  
  }  
]  
}
```

Response Body: Success ACK

```
{  
  "errorCode": "",  
  "errorMessage": "",  
  "content": [  
    {  
      "requestId": "e7fcef24-5c03-41dd-9e33-995b7d6f32b1"  
    }  
  ],  
  "pageable": {  
    "page": 0,  
    "size": 10,  
    "totalPages": 1,  
    "totalElements": 1  
  }  
}
```

Response Body: Failure NAK

```
{
```

```

    "errorCode": "SUBSCRIBER_1009",
    "errorMessage": "Top-up failure. Balance not found",
    "content": "",
    "pageable": ""
  }

```

5.18 Attach Subscriber Offer

This API is used to attach a new plan to a subscriber. The API currently supports attaching of individual offers and Pool Plans.

It is not allowed to attach more than one instance of a particular Pool Plan to the same subscriber.

HTTP URL	
POST	/api/v2/subscriber/{type}/{value}/offer/{id}

5.18.1 Eligibility

The Requester is eligible to attach a Regular plan to sub-customers' subscribers.

The Requester is eligible to attach a Regular plan (Buy Plan created by the Parent) to own subscribers only if the `allowOfferDelegation` parameter has been set to `True` by the Parent.

The Pool plan can be attached to a specific subscriber (in URL) only on the following conditions:

The Pool Plan was created for the requester's sub account

The specific subscriber belongs to this sub account.

5.18.2 API Request

Request Structure

Parameter	Type	M/O/CM	Description
priority	Numeric	O	<p>Plan order of priority; the higher the numeric value, the higher priority the plan receives.</p> <p>For example, a plan with priority 100 precedes plan with priority 50.</p> <p>The Rater does not enforce the sequential order of any plan's priorities and so it has no meaning.</p> <p>Note: The Rater does not enforce the uniqueness of an assigned priority between a subscriber's plans. Therefore, prevent sending an existing plan's priority value to this plan.</p>
myOffer	Boolean	O	<p>Determines whether to:</p> <p>Attach one of my Customer plans (Sell Plan offers) to my sub accounts' subscribers</p> <p>OR</p> <p>Attach one of the Parent's Buy Plans to my accounts' subscribers.</p> <p>[myOffer] True = Request to attach a Parent plan (Buy Plan offer) to my own subscribers. This self-service functionality is allowed only when the sub-customer was defined by my Parent as authorized for delegation of Parent Plans</p> <p>[myOffer] False = Request to attach one of my Customer plans (Sell Plan offers) to my sub accounts subscribers (Normal operation)</p> <p>Default (if not provided) = False</p>

5.18.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
requestId	UUID	M	Request instance ID. To be used by external systems to query the call (operation) status: In progress Successful Failed.
subscriberOfferId	UUID	M	Offer instance attached to the subscriber

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

5.18.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
SUBSCRIBER_1010	Failed to attach offer
SUBSCRIBER_1027	You are not allowed to attach parent customer plans to your own SIM cards

5.18.5 Examples

Request Body

```
{  
  "priority": 100,  
  "myOffer": false
```

```
}
```

Response Body: Success ACK

```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
      "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370",
      "subscriberOfferId": "ab74dfe6-8e7f-4b45-a42b-14460913b459"
    }
  ],
  "pageable": {
    "page": 0,
    "size": 10,
    "totalPages": 1,
    "totalElements": 1
  }
}
```

Response Body: Failure NAK:

```
{
  "errorCode": "SUBSCRIBER_1010",
  "errorMessage": "Failed to attach offer",
  "content": "",
  "pageable": ""
}
```

5.19 Get Subscriber Offer

This API is used to retrieve SIM card plans and their details at two levels:

- Plans attached by the parent account to the SIM and paid by the current account to the parent
- Plans attached by the current account to its sub-account (customer) paid by the customer to the current account

HTTP URL	
GET	/api/v2/subscriber/{type}/{value}/offer

5.19.1 Eligibility

The Requester is eligible to request plan information on self (attached by the parent account) and plan information on sub-accounts (customers).

5.19.2 API Request

This API has no request structure.

5.19.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.

Parameter	Type	M/O/CM	Description
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
id	UUID	M	Offer instance attached to the subscriber
name	String	M	Offer name
description	String	O	Offer description
type	String	M	Offer type. ENUM: USAGE, MONEY, RATE
renewalDate	Date	O	Offer next renewal date
expirationDate	Date	O	Offer expiration date
subscriberId	UUID	M	Subscriber universal unique identifier
customerId	UUID	M	Customer ID
customerName	String	M	Customer name

Element	Type	M/O/CM	Description
cost	Decimal	O	Offer cost of Money or Usage plan types. Rate: Future feature. Currently empty
currency	String	CM	Cost currency. Monetary: for example, USD, GBP, EUR
attachTimestamp	DateTime	O	Attach offer timestamp. Format: YYYY-MM-DD HH:MI:SS.ms
priority	Numeric	M	Plan consumption order
isIncludingAccessFee	Boolean	M	Specifies if the offer price already includes inherent access fee and surcharge fee. <ul style="list-style-type: none"> ○ True – Offer price includes access\surcharge fees. Once a calendar month, when registering on the network, the system will not charge additionally on top of the offer price. ○ False – Offer price does not include access\surcharge fee. Once a calendar month, when registering on the network, the system will charge the access\surcharge fees in addition to the offer price.
balance	Object	M	Array of balances object
linkedOffers	Object	M	Array of offer(s) object that is linked to this offer. The order of the instances in the array determines their priority for charging.

Balance data objects

Element	Type	M/O/CM	Description
id	UUID	M	Balance Universal Unique ID
service	String	CM	Service type. Mandatory for usage plan. ENUM: DATA, SMS
currency	String	M	<p>If monetary, then provide the currency. For example, USD, GBP, EUR</p> <p>If usage, then provide the currency by usage type. ENUM:</p> <p>SMS</p> <p>Data: KB, MB, GB</p>
value	Decimal	O	Balance value
creditLimit	Decimal	O	Usage limit

Linked Offers data objects

Element	Type	M/O/CM	Description
id	UUID	M	Universal unique ID of the offer to link to this offer
isPinned	Boolean	M	<p>Denotes whether or not the linked offer can be removed from this offer</p> <p>True = Linked offer is fixed and cannot be removed</p> <p>False = Linked offer is not fixed and can be removed (Future Feature)</p>

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

5.19.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
SUBSCRIBER_1002	Subscriber does not exist
SUBSCRIBER_1006	Failed to retrieve subscriber details

5.19.5 Examples

Request Body

<pre>{ }</pre>

Response Body: Success ACK

```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
      "id": "e7fcef24-5c03-41dd-9e33-995b7d6f47a7",
      "name": "roaming 20GB",
      "description": "roaming offer 20 GB",
      "type": "USAGE",
      "renewalDate": "23122023",
      "expirationDate": "23052024",
      "subscriberId": "46251e2b-c029-4b1f-b053-47f31a2175d9",
      "customerId": "d3fcef24-5c13-41ed-9d33-995b7d5f45a6",
      "customerName": "Gualas",
      "cost": 20.5,
      "currency": "EUR",
      "attachTimestamp": "2020-11-11 08:47:46.758866",
      "priority": 100,
      "isIncludingAccessFee": false,
      "balance": [
        {
          "id": "69b431f7-e885-4a7c-9539-ac1de961fb7f",
          "service": "DATA",
          "currency": "KB",
          "value": 100,
          "creditLimit": 20
        }
      ]
    }
  ]
}
```



```

    }
  ],
  "availabilityZone": [
    {
      "id": "1b15048b-1ed4-4d34-a074-c7e26520e12a",
      "name": "North America 05",
      "description": "All Canadian regions and north USA
region",
      "zone": [
        {
          "id": "ff74dca6-8e7f-4b85-a42b-13860913b370",
          "name": "All Canada",
          "countryCode": "CAN",
          "network": [
            {
              "plmn": "CANTS",
              "mcc": "302",
              "mnc": "220"
            },
            {
              "plmn": "CANVT",
              "mcc": "302",
              "mnc": "500"
            }
          ]
        }
      ],
      "id": "ceb892d2-f24b-4007-bf81-999fe75cb635",
      "name": "North USA",

```

```
        "countryCode": "GBR",
        "network": [
            {
                "plmn": "GBRME",
                "mcc": "234",
                "mnc": "30"
            },
            {
                "plmn": "GBRVF",
                "mcc": "234",
                "mnc": "15"
            },
            {
                "plmn": "AAM26",
                "mcc": "901",
                "mnc": "46"
            }
        ]
    },
    ],
    "linkedOffers": [
        {
            "id": "ff74dca6-8e7f-4b85-a42b-13860913b370",
            "isPinned": true
        },
        {
            "id": "ff74dba6-8e7f-4b15-a42b-13810913b371",
```

```

        "isPinned": true
    }
]
},
{
    "id": "e35977e8-719d-4df7-9803-8e75e7bab61c",
    "name": "data 10GB",
    "description": "data offer 20 GB",
    "type": "USAGE",
    "renewalDate": "23122023",
    "expirationDate": "23052024",
    "subscriberId": "e1552d9f-5aa8-4958-9156-59e4878b6cc0",
    "customerId": "89af6bfe-56bf-47d0-a3dd-a983e940fd4d",
    "customerName": "Gualas",
    "cost": 20.5,
    "currency": "EUR",
    "attachTimestamp": "2020-11-11 08:47:46.758866",
    "priority": 100,
    "isIncludingAccessFee": true,
    "balance": [
        {
            "id": "ceb892d2-f24b-4007-bf81-999fe75cb635",
            "service": "DATA",
            "currency": "KB",
            "value": 100,
            "creditLimit": 20
        }
    ],
    "availabilityZone": null,

```

```
    "linkedOffers": [  
      {  
        "id": "ea73dcc6-6c7f-4c65-a42c-13560913c330",  
        "isPinned": true  
      },  
      {  
        "id": "ff74dba6-8e7f-4b15-a42b-13810913b371",  
        "isPinned": true  
      }  
    ]  
  },  
],  
"pageable": {  
  "page": 0,  
  "size": 10,  
  "totalPages": 1,  
  "totalElements": 1  
}  
}
```

Response Body: Failure NAK

```
{  
  "errorCode": "SUBSCRIBER_1006",  
  "errorMessage": "Failed to retrieve subscriber details",  
  "content": "",  
  "pageable": ""  
}
```

5.20 Detach Subscriber Offer

This API is used to detach a Regular or Pool Plan from a subscriber. The deletion is soft, but once executed, it cannot be recovered.

If required, Attach Subscriber Offer should be used.

HTTP URL	
DELETE	//api/v2/subscriber/{type}/{value}/offer/{id}

5.20.1 Eligibility

The Requester is eligible to detach a plan from sub-customers' subscribers.

The Requester is eligible to detach a Buy Plan from own subscribers only if the Parent account sets the `allowOfferDelegation` parameter to `True` for the Requester's account.

5.20.2 API Request

Request Structure

Parameter	Type	M/O/CM	Description
myOffer	Boolean	O	<p>Determines whether to:</p> <p>Detach one of my Customer plans (Sell Plan offers) from my sub accounts' subscribers</p> <p>OR</p> <p>Detach one of the Parent's Buy Plans from my accounts' subscribers.</p> <p>[myOffer] True = Request to detach a Parent plan (Buy Plan offer) from my own subscribers. This self-service functionality is allowed only when the sub-customer was defined by my Parent as authorized for delegation of Parent Plans</p>

Parameter	Type	M/O/CM	Description
			<p>[myOffer] False = Request to detach one of my Customer plans (Sell Plan offers) to my sub accounts subscribers (Normal operation)</p> <p>Default (if not provided) = False</p>

5.20.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
requestId	UUID	M	<p>Request instance ID.</p> <p>To be used by external systems to query the call (operation) status:</p>

Element	Type	M/O/CM	Description
			In progress Successful Failed.

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

5.20.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
SUBSCRIBER_1002	Subscriber does not exist

Code	Message
SUBSCRIBER_1011	Failed to detach offer\s
SUBSCRIBER_1028	You are not allowed to detach parent customer plans to your own SIM cards
SUBSCRIBER_1033	Ambiguous call. You have multiple offers. Please specify the offer ID to top-up

5.20.5 Examples

Request Body

```
{  
  "myOffer": false  
}
```

Response Body: Success ACK

```
{  
  "errorCode": "",  
  "errorMessage": "",  
  "content": [  
    {  
      "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370"  
    }  
  ],  
  "pageable": {  
    "page": 0,  
  }  
}
```



```
    "size": 10,  
    "totalPages": 1,  
    "totalElements": 1  
  }  
}
```

Response Body: Failure NAK

```
{  
  "errorCode": "SUBSCRIBER_1011",  
  "errorMessage": "Failed to detach offer\s",  
  "content": "",  
  "pageable": ""  
}
```

5.21 Modify Subscriber Offer

This API is used to modify the attributes of an existing subscriber plan.

This API is not available in the current release.

HTTP URL	
PATCH	/api/v2/subscriber/{type}/{value}/offer/{id}

5.21.1 Eligibility

The Requester is eligible to modify a Regular plan of sub-customers' subscribers or a Pool plan attached to sub-customers.

The Requester is not allowed to modify a plan of own subscribers.

5.21.2 API Request

Request Structure

Parameter	Type	M/O/CM	Description
priority	Numeric	O	<p>Plan order of priority; the higher the numeric value, the higher priority the plan receives.</p> <p>For example, a plan with priority 100 precedes plan with priority 50.</p> <p>The Rater does not enforce the sequential order of any plan's priorities and so it has no meaning.</p> <p>Note: The Rater does not enforce the uniqueness of an assigned priority between a subscriber's plans. Therefore, prevent sending an existing plan's priority value to this plan.</p>
expirationDate	Date	O	<p>Determines the requested date as per the selected expirationType set when plan created.</p> <p>Can be used only if the expirationType parameter has been set to FIXED.</p> <p>Rejected for other expirationType settings.</p>

5.21.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.

Parameter	Type	M/O/CM	Description
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
requestId	UUID	M	<p>Request instance ID.</p> <p>To be used by external systems to query the call (operation) status:</p> <p>In progress</p> <p>Successful</p> <p>Failed.</p>

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page

Element	Type	M/O/CM	Description
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

5.21.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
SUBSCRIBER_1026	Failed to modify offer

5.21.5 Examples

Request Body

```
{  
  "priority": 100  
}
```

Response Body: Success ACK

```
{  
  "errorCode": "",  
  "errorMessage": "",  
}
```

```
"content": [  
  {  
    "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370"  
  }  
],  
"pageable": {  
  "page": 0,  
  "size": 10,  
  "totalPages": 1,  
  "totalElements": 1  
}  
}
```

Response Body: Failure NAK

```
{  
  "errorCode": "SUBSCRIBER_1026",  
  "errorMessage": "Failed to modify offer",  
  "content": "",  
  "pageable": ""  
}
```

5.21.6 Attach Subscriber Package

The Attach Subscriber Package API is used to attach a package to a subscriber. The system allows attaching a customer package ('Sell Package') to their sub-customers' subscribers in a normal manner or attaching a package created by their parent customer ('Buy Package') to its own subscribers in a self-service manner. Using the self-service attach mode is permitted only if the parent customer has granted permission to this specific sub-customer by enabling the 'allowOfferDelegation' flag.

Method	Path
POST	api/v2/subscriber/{type}/{value}/package/{id}/attach

5.21.7 Eligibility

The Requestor is eligible to attach a package to his sub-customers' subscribers. It is not allowed to attach a package to his own subscribers unless the requestor's parent customer:

- Has granted permission by turning on 'allowOfferDelegation' parameter.
- Assigned at least one package to the requestor using the 'eligibleSubAccountIds' attribute when creating or modifying a package.

5.21.8 API Request

Request Structure

Parameter	Type	M/O/CM	Description
myPackage	Boolean	O	<p>Determines whether to attach one of the customer's packages (Sell Package) to their sub-account subscribers or one of the customer's parent packages (Buy Packages) to their own subscribers.</p> <ul style="list-style-type: none"> ○ True = Request to attach a parent package (Buy Package) to their own subscribers. This 'self-service' functionality is allowed only in cases where the sub-customer has been defined by their parent customer as allowed to delegate parent customer packages (allow_offer_delegation = true). ○ False = Request to attach one of the customer's packages (Sell Packages) to their sub-account subscribers (normal operation) <p>The default value, if not provided, is 'false'</p>

5.21.9 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code. See list below, under 'Error Codes' section

Parameter	Type	M/O/CM	Description
errorMessage	String	O	Failure detailed description. See list below, under 'Error Codes' section
content	Object	O	Array of main response body object. Displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object. Displayed when an API call was successful. For a failure, it will be empty.

Content

Parameter	Type	M/O/CM	Description
requestId	UUID	M	Request instance ID. To be used by external systems to query the call (operation) status, whether in progress, successful, or failed.
subscriberPackageId	UUID	M	Package instance attached to the subscriber.

Pageable

Parameter	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

5.21.10 Error Code

In addition to the general success and failure codes, the following error codes are possible:

Code	Message
GLOBAL_1001	Service unavailable. Please try again
SUBSCRIBER_1058	Failed to attach package
AUTH_1019	You are not allowed to attach parent customer package to your own SIM cards

5.21.11 Examples

Request Body

{

```
"myPackage": false
}
```

Response Body Success ACK

```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
      "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370",
      "subscriberPackageId": "eb74dfe6-8f7f-4b45-a42b-14460913b459"
    }
  ],
  "pageable": {
    "page": 0,
    "size": 10,
    "totalPages": 1,
    "totalElements": 1
  }
}
```

Response Body: Failure NAK

```
{
  "errorCode": "SUBSCRIBER_1058",
  "errorMessage": "Failed to attach package",
  "content": "",
  "pageable": null
}
```


5.22 Send Binary SMS

This API is used to send data, such as small files, to a subscriber, rather than simply plain text.

HTTP URL	
POST	/api/v2/subscriber/{type}/{value}/send-binary-sms

5.22.1 API Request

Request Structure

Parameter	Type	M/O/CM	Description
message	String	M	Message verbiage
dataCoding	Numeric	O	Data coding valid values as defined in 3GPP TS 23.038
esmClass	Numeric	O	esm_Class indicates special message attributes. Valid values as defined in SMPP Specification document.
protocolId	Numeric	O	TP-Protocol Identifier. Valid values as defined in 3GPP TS 23.040
priorityFlag	Numeric	O	Allows prioritizing the message via a priority level. Valid values as defined in SMPP Specification document.
expiration	Numeric	O	Set Store & Forward requested time (seconds) when the device is not reachable.

Parameter	Type	M/O/CM	Description
			Minimum: 120 seconds Maximum: 2678400 seconds Default (if not populated): 7200 seconds

5.22.2 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
messageID	UUID	M	SMS delivery ID for delivery notification

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

5.22.3 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
GLOBAL_1006	Invalid SMSC
SUBSCRIBER_1002	Subscriber does not exist
SUBSCRIBER_1012	Failed to send SMS

5.22.4 Examples

Request Body

```
{
```

```
"message": "hello",  
"dataCoding": 0,  
"esmClass": 0,  
"protocolId": 0,  
"priorityFlag": 0,  
"expiration": 3000  
}
```

Response Body: Success ACK

```
{  
  "errorCode": "",  
  "errorMessage": "",  
  "content": [  
    {  
      "messageId": "ff74dca6-8e7f-4b85-a42b-13860913b370"  
    }  
  ],  
  "pageable": {  
    "page": 0,  
    "size": 10,  
    "totalPages": 1,  
    "totalElements": 1  
  }  
}
```

5.23 Send Text SMS

This API is used to send a simple text message to a subscriber.

HTTP URL	
POST	/api/v2/subscriber/{type}/{value}/send-text-sms

5.23.1 API Request

Request Structure

Parameter	Type	M/O/CM	Description
message	String	M	Message verbiage
encoding	String	O	Text message encoding. Range: 'UCS-2', Default 'GSM-7'
expiration	Numeric	O	Set Store & Forward requested time (seconds) when the device is not reachable. Minimum: 120 seconds Maximum: 2678400 seconds Default (if not populated): 7200 seconds

5.23.2 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
messageID	UUID	M	SMS delivery ID for delivery notification

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size

Element	Type	M/O/CM	Description
totalElements	Numeric	M	Total amount of retrieved elements

5.23.3 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
GLOBAL_1006	Invalid SMSC
SUBSCRIBER_1002	Subscriber does not exist
SUBSCRIBER_1012	Failed to send SMS

5.23.4 Examples

Request Body

```
{  
  "message": "Hello",  
  "encoding": "GSM-7",  
  "expiration": 3000  
}
```

Response Body: Success ACK

```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
      "messageId": "ff74dca6-8e7f-4b85-a42b-13860913b370"
    }
  ],
  "pageable": {
    "page": 0,
    "size": 10,
    "totalPages": 1,
    "totalElements": 1
  }
}
```

Response Body: Failure NAK

```
{
  "errorCode": "SUBSCRIBER_1012",
  "errorMessage": "Failed to send SMS",
  "content": "",
  "pageable": ""
}
```

5.24 Get SMS Delivery Notification

This API is used to retrieve SMS delivery status.

HTTP URL	
GET	api/v2/subscriber/{type}/{value}/sms/{id}

{id} is the notification ID received when sending text or binary SMS.

5.24.1 API Request

This API has no request structure.

5.24.2 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
notification	String	M	SMS delivery notification

Element	Type	M/O/CM	Description
			Range: 200: OK 202: Accepted 204: No Content 500: Server Error 408: Request Timeout
deliveryTime	DateTime	O	SMS delivery timestamp. If the SMS was not yet delivered, it will be empty.

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

5.24.3 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
GLOBAL_1004	SMS notification ID was not found

5.24.4 Examples

Request Body

```
{  
}
```

Response Body: Success ACK

```
{  
  "errorCode": null,  
  "errorMessage": null,  
  "content": [  
    {  
      "notification": "success",  
      "deliveryTime": "2023-11-29T08:49:28.960Z"  
    }  
  ],  
  "pageable": null  
}
```

Response Body: Failure NAK

```
{  
  "errorCode": "GLOBAL_1004",  
  "errorMessage": "SMS notification ID was not found",  
  "content": "",  
  "pageable": ""  
}
```

6 Bulk Subscriber APIs

6.1 Bulk Modify Subscriber Details

This API is used to modify attributes of multiple Subscribers in the platform with a single API call.

The request should contain only elements that require modification. Empty elements denote overriding of the existing value with a NULL value.

HTTP URL	
PATCH	/api/v2/bulk/subscriber

6.1.1 Eligibility

The Requester is eligible to modify its own subscribers' details only.

6.1.2 API Request

Request Structure

Parameter	Type	M/O/CM	Description
bulk	Object	M	Array of main request body object.

Bulk data objects

Element	Type	M/O/CM	Description
subscriberIdentifiers	Object	M	Subscriber unique keys object, defines the search criteria.
content	Object	M	Main elements container object.

subscriberidentifiers data objects

Element	Type	M/O/CM	Description
type	String	M	Define the search criteria. ENUMs: IMSI, ICCID, MSISDN, IMEI, IMEISV
value	String	M	Type value. IMSI or ICCID or MSISDN, IMEI or IMEISV number.

Content data objects

Parameter	Type	M/O/CM	Description
alias	String	O	Subscriber alias for more easily identifying the subscriber by name

6.1.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
bulk	Object	M	Array of main response body object.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Bulk data objects

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
requestId	UUID	CM	Request instance ID. To be used by external systems to query the call (operation) status: <ul style="list-style-type: none"> ○ In progress ○ Successful ○ Failed. Displayed when an API call was successful. For a failure, it will be empty.

Parameter	Type	M/O/CM	Description
subscriberIdentifiers	Object	M	Subscriber unique keys object, defines the search criteria
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.

subscriberidentifiers data objects

Parameter	Type	M/O/CM	Description
type	String	M	Define the search criteria. ENUMs: IMSI, ICCID, MSISDN, IMEI, IMEISV
value	String	M	Type value. IMSI or ICCID or MSISDN IMEI or IMEISV number.

Content data objects

Element	Type	M/O/CM	Description
alias	String	O	Subscriber alias for more easily identifying the subscriber by name

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

6.1.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
SUBSCRIBER_1002	Subscriber does not exist
SUBSCRIBER_1003	Failed to update subscriber details

6.1.5 Examples

Request Body

```
{
  "bulk": [
    {
      "subscriberIdentifiers": {
        "type": "IMSI",
        "value": "222013090961859"
      },
      "content": {
        "alias": "Camera1"
      }
    },
    {
      "subscriberIdentifiers": {
        "type": "ICCID",
        "value": "8935711001000034535"
      },
      "content": {
        "alias": "Camera1"
      }
    }
  ]
}
```



```
    }  
  }  
]  
}
```

Response Body: Full Success

ACK:

```
{  
  "bulk": [  
    {  
      "errorCode": "",  
      "errorMessage": "",  
      "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370",  
      "subscriberIdentifiers": {  
        "type": "IMSI",  
        "value": "222013090961963"  
      },  
      "content": {  
  
        "alias": "Camera1"  
  
      }  
    },  
    {  
      "errorCode": "",  
      "errorMessage": "",  
      "requestId": "7e74dce6-8eef-4c86-a4bb-1a860913c271",  
      "subscriberIdentifiers": {
```

```
        "type": "ICCID",
        "value": "8935711001000035687"
    },
    "content": {

"alias": "Camera1"
    }
}
],
"pageable": {
    "page": 0,
    "size": 10,
    "totalPages": 1,
    "totalElements": 1
}
}
```

Response Body: Includes Failure(s) (NAK)

```
{
  "bulk": [
    {
      "errorCode": "AUTH_1013",
      "errorMessage": "You are not allowed to detach parent  
customer plans from your own SIM card",
      "requestId": "",
      "subscriberIdentifiers": {
        "type": "IMSI",
        "value": "222013090961963"
      },
    },
  ],
}
```

```
      "content": {  
  
        "alias": "Camera1"  
      }  
    },  
    ],  
    "pageable": {  
      "page": 0,  
      "size": 10,  
      "totalPages": 1,  
      "totalElements": 1  
    }  
  }  
}
```

6.2 Bulk Delete Subscriber Location

This API, which may also be referred to elsewhere as Cancel Location, Reset SIM or Reload SIM, is used to delete multiple subscribers' registered location of an active IMSI from the system.

HTTP URL	
DELETE	/api/v2/bulk/subscriber/cancel-location

6.2.1 Eligibility

The requesting customer is eligible to delete (reset) own subscribers and sub-customers' subscribers.

6.2.2 API Request

Request Structure

Parameter	Type	M/O/CM	Description
bulk	Object	M	Array of main request body object

Bulk data objects

Element	Type	M/O/CM	Description
subscriberIdentifiers	Object	M	Subscriber unique keys object, defines the search criteria.
content	Object	M	Main elements container object.

subscriberidentifiers data objects

Element	Type	M/O/CM	Description
type	String	M	Define the search criteria. ENUMs: IMSI, ICCID, MSISDN, IMEI
value	String	M	Type value. IMSI or ICCID or MSISDN or IMEI number.

Content data objects

Parameter	Type	M/O/CM	Description
eventType	Numeric	O	<p>Determines on which domain type to perform the action. Valid values:</p> <ul style="list-style-type: none"> ○ 5 = circuit switching ○ 15 = packet switching ○ 25 = LTE ○ 0 = All: Apply to any type by the system ○ Default: 0 if not provided

6.2.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
bulk	Object	M	Array of main response body object.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Bulk data objects

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
requestId	UUID	CM	<p>Request instance ID. To be used by external systems to query the call (operation) status:</p> <ul style="list-style-type: none"> ○ In progress ○ Successful ○ Failed. <p>Displayed when an API call was successful. For a failure, it will be empty.</p>
subscriberIdentifiers	Object	M	Subscriber unique keys object, defines the search criteria.
content	Object	O	Main response body object that reflects a single node of the original request.

subscriberidentifiers data objects

Parameter	Type	M/O/CM	Description
type	String	M	Define the search criteria. ENUMs: IMSI, ICCID, MSISDN, IMEI
value	String	M	Type value. IMSI or ICCID or MSISDN or IMEI number.

Content data objects

Element	Type	M/O/CM	Description
eventType	Numeric	O	<p>Determines on which domain type to perform the action. Valid values:</p> <ul style="list-style-type: none"> ○ 5 = circuit switching ○ 15 = packet switching ○ 25 = LTE ○ 0 = All: Apply to any type by the system ○ Default: 0 if not provided

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

6.2.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
SUBSCRIBER_1002	Subscriber does not exist
SUBSCRIBER_1040	Failed to cancel subscriber location

6.2.5 Examples

Request Body

```
{
  "bulk": [
    {
      "subscriberIdentifiers": {
        "type": "IMSI",
        "value": "222013090961859"
      },
      "content": {
        "eventType": 0
      }
    },
    {
      "subscriberIdentifiers": {
        "type": "ICCID",
        "value": "8935711001000034535"
      },
      "content": {
        "eventType": 0
      }
    }
  ]
}
```

Response Body: Full Success ACK

```
{
  "bulk": [
    {
      "errorCode": "",

```

```
    "errorMessage": "",
    "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370",
    "subscriberIdentifiers": {
      "type": "IMSI",
      "value": "222013090961963"
    },
    "content": {
      "eventType": 0
    }
  },
  {
    "errorCode": "",
    "errorMessage": "",
    "requestId": "7e74dce6-8eef-4c86-a4bb-1a860913c271",
    "subscriberIdentifiers": {
      "type": "ICCID",
      "value": "8935711001000035687"
    },
    "content": {
      "eventType": 0
    }
  }
],
"pageable": {
  "page": 0,
  "size": 10,
  "totalPages": 1,
  "totalElements": 1
}
```



```
}
```

Response Body: Failure NAK

```
{
  "bulk": [
    {
      "errorCode": "SUBSCRIBER_1002",
      "errorMessage": "Subscriber does not exist",
      "requestId": "",
      "subscriberIdentifiers": {
        "type": "ICCID",
        "value": "8935711001000035687"
      },
      "content": {
        "eventType": 0
      }
    }
  ],
  "pageable": {
    "page": 0,
    "size": 10,
    "totalPages": 1,
    "totalElements": 1
  }
}
```

6.3 Bulk Move Subscriber

This API is used to move multiple Subscribers from their current customers to new customers with a single API call.

HTTP URL	
PUT	/api/v2/bulk/subscriber/move

6.3.1 Eligibility

The Requester is eligible to request to move subscribers attached to itself and to its sub-customers; the Requester is also allowed to move a subscriber back from any sub-customer level directly to the Requester customer.

No other alternative is allowed.

6.3.2 API Request

Request Structure

Parameter	Type	M/O/CM	Description
bulk	Object	M	Array of main request body object.

Bulk data objects

Element	Type	M/O/CM	Description
subscriberIdentifiers	Object	M	Subscriber unique keys object, defines the search criteria
content	Object	M	Main elements container object

subscriberidentifiers data objects

Element	Type	M/O/CM	Description
type	String	M	Define the search criteria. ENUMs: IMSI, ICCID, MSISDN, IMEI
value	String	M	Type value. IMSI or ICCID or MSISDN or IMEI number.

Content data objects

Parameter	Type	M/O/CM	Description
targetCustomerId	UUID	M	New parent customer ID

6.3.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
bulk	Object	M	Array of main response body object.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Bulk data objects

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
requestId	UUID	CM	<p>Request instance ID.</p> <p>To be used by external systems to query the call (operation) status:</p> <p>In progress</p> <p>Successful</p> <p>Failed.</p> <p>Displayed when an API call was successful. For a failure, it will be empty.</p>
subscriberIdentifiers	Object	M	Subscriber unique keys object, defines the search criteria
content	Object	O	Main response body object that reflects a single node of the original request.

subscriberidentifiers data objects

Parameter	Type	M/O/CM	Description
type	String	M	<p>Define the search criteria.</p> <p>ENUMs: IMSI, ICCID, MSISDN, IMEI</p>
value	String	M	Type value. IMSI or ICCID or MSISDN or IMEI number.

Content data objects

Element	Type	M/O/CM	Description
targetCustomerId	UUID	M	New parent customer ID

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

6.3.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
SUBSCRIBER_1002	Subscriber does not exist

Code	Message
CUSTOMER_1008	Failed to find target customer

6.3.5 Examples

Request Body

```
{
  "bulk": [
    {
      "subscriberIdentifiers": {
        "type": "IMSI",
        "value": "222013090961859"
      },
      "content": {
        "targetCustomerId": "4543dedb-cce7-4bee-89f3-7af1447927e6"
      }
    },
    {
      "subscriberIdentifiers": {
        "type": "ICCID",
        "value": "8935711001000034535"
      },
      "content": {
        "targetCustomerId": "e7fcef24-5c03-41dd-9e33-995b7d6f47e2"
      }
    }
  ]
}
```

```
}
```

Response Body: Full Success ACK

```
{
  "bulk": [
    {
      "errorCode": "",
      "errorMessage": "",
      "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370",
      "subscriberIdentifiers": {
        "type": "IMSI",
        "value": "222013090961859"
      },
      "content": {
        "targetCustomerId": "4543dedb-cce7-4bee-89f3-7af1447927e6"
      }
    },
    {
      "errorCode": "",
      "errorMessage": "",
      "requestId": "7e74dce6-8eef-4c86-a4bb-1a860913c271",
      "subscriberIdentifiers": {
        "type": "ICCID",
        "value": "8935711001000034535"
      },
      "content": {
        "targetCustomerId": "e7fcef24-5c03-41dd-9e33-995b7d6f47e2"
      }
    }
  ]
}
```

```
    }
  }
],
"pageable": {
  "page": 0,
  "size": 10,
  "totalPages": 1,
  "totalElements": 1
}
}
```

Response Body: Includes Failure(s) (NAK)

```
{
  "bulk": [
    {
      "errorCode": "CUSTOMER_1008",
      "errorMessage": "Failed to find target customer",
      "requestId": "",
      "subscriberIdentifiers": {
        "type": "IMSI",
        "value": "222013090961859"
      },
      "content": {
        "targetCustomerId": "4543dedb-cce7-4bee-89f3-7af1447927e6"
      }
    }
  ],
}
```



```

    "pageable": {
      "page": 0,
      "size": 10,
      "totalPages": 1,
      "totalElements": 1
    }
  }
}

```

6.4 Bulk Modify Subscriber Status

This API is used to change the LCP status of multiple Subscribers in the platform with a single API call.

The request should contain only elements that require modification. Empty elements denote overriding of the existing value with a NULL value.

HTTP URL	
PUT	/api/v2/bulk/subscriber/status

6.4.1 Eligibility

The Requester is eligible to request a status change for its own subscribers or for its sub-customers' subscribers.

6.4.2 API Request

Request Structure

Parameter	Type	M/O/CM	Description
bulk	Object	M	Array of main request body object.

Bulk data objects

Element	Type	M/O/CM	Description
subscriberIdentifiers	Object	M	
content	Object	M	Main elements container objectSubscriber unique keys object, defines the search criteria.

subscriberidentifiers data objects

Element	Type	M/O/CM	Description
type	String	M	Define the search criteria: ENUMs: IMSI, ICCID, MSISDN, IMEI
value	String	M	Type value. IMSI or ICCID or MSISDN or IMEI number.

Content data objects

Parameter	Type	M/O/CM	Description
status	String	M	Request to change the subscriber's current status to a new status value: ENUM valid values: ACTIVE, SUSPEND

6.4.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
bulk	Object	M	Array of main response body object.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Bulk data objects

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.

Parameter	Type	M/O/CM	Description
requestId	UUID	CM	<p>Request instance ID. To be used by external systems to query the call (operation) status:</p> <ul style="list-style-type: none"> ○ In progress ○ Successful ○ Failed. <p>Displayed when an API call was successful. For a failure, it will be empty.</p>
subscriberIdentifiers	Object	M	Subscriber unique keys object, defines the search criteria.
content	Object	O	Main response body object that reflects a single node of the original request.

subscriberidentifiers data objects

Parameter	Type	M/O/CM	Description
type	String	M	Define the search criteria: ENUMs: IMSI, ICCID, MSISDN, IMEI
value	String	M	Type value. IMSI or ICCID or MSISDN or IMEI number.

Content data objects

Element	Type	M/O/CM	Description
status	String	M	Newly requested status

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

6.4.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
SUBSCRIBER_1002	Subscriber does not exist
SUBSCRIBER_1008	Failed to update subscriber status

6.4.5 Examples

Request Body

```
{
  "bulk": [
    {
      "subscriberIdentifiers": {
        "type": "IMSI",
        "value": "222013090961859"
      },
      "content": {
        "status": "ACTIVE"
      }
    },
    {
      "subscriberIdentifiers": {
        "type": "ICCID",
        "value": "8935711001000034535"
      },
      "content": {
        "status": "SUSPEND"
      }
    }
  ]
}
```

```
    }  
  }  
]  
}
```

Response Body: Full Success ACK

```
{  
  "bulk": [  
    {  
      "errorCode": "",  
      "errorMessage": "",  
      "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370",  
      "subscriberIdentifiers": {  
        "type": "IMSI",  
        "value": "222013090961859"  
      },  
      "content": {  
        "status": "ACTIVE"  
      }  
    },  
    {  
      "errorCode": "",  
      "errorMessage": "",  
      "requestId": "7e74dce6-8eef-4c86-a4bb-1a860913c271",  
      "subscriberIdentifiers": {  
        "type": "ICCID",  
        "value": "8935711001000034535"  
      },  
    },  
  ],  
}
```

```
        "content": {
            "status": "SUSPEND"
        }
    },
    "pageable": {
        "page": 0,
        "size": 10,
        "totalPages": 1,
        "totalElements": 1
    }
}
```

Response Body: Includes Failure(s) (NAK)

```
{
    "bulk": [
        {
            "errorCode": "SUBSCRIBER_1008",
            "errorMessage": "Failed to update subscriber status",
            "requestId": "",
            "subscriberIdentifiers": {
                "type": "IMSI",
                "value": "222013090961859"
            },
            "content": {
                "status": "ACTIVE"
            }
        }
    ]
}
```

```

    }
  ],
  "pageable": {
    "page": 0,
    "size": 10,
    "totalPages": 1,
    "totalElements": 1
  }
}

```

6.5 Bulk Modify Subscriber Balance

Bulk Modify Subscriber Balance API is used to add or deduct money from/to a subscriber postpaid balance of multiple subscribers in a single call.

This function does not change the RATE type offer limit values.

HTTP URL	
PUT	api/v2/bulk/subscriber/balance

6.5.1 Eligibility

The Requestor is eligible to add or deduct money to/from his direct sub-accounts' subscribers only. It is not allowed to perform these changes neither on its own subscribers nor any other sub-accounts level subscribers.

6.5.2 API Request

Request Structure

Parameter	Type	M/O/CM	Description
Bulk	Object	M	Array of main request body object.

Bulk data objects

Element	Type	M/O/CM	Description
subscriberIdentifiers	Object	M	Subscriber unique keys object, defines the search criteria.
content	Object	M	Main elements container object.

subscriberidentifiers data objects

Element	Type	M/O/CM	Description
type	String	M	Define the search criteria. ENUMs: IMSI, ICCID, MSISDN, IMEI
value	String	M	Type value. IMSI or ICCID or MSISDN or IMEI number.

Content data objects

Parameter	Type	M/O/CM	Description
amount	Decimal	M	Add or deduct money to/from the subscriber's postpaid balance. Sending a positive value will perform a DEBIT action (deduct money from the balance). Sending a negative value will perform a CREDIT action (add money to the balance).
currency	String	M	Monetary currency. e.g., USD, GBP, EUR
quantity	Numeric	O	Quantity represents how many adjustments are needed. For example, amount 10, currency "USD" with quantity 3 will result in an adjustment of \$30 (amount × quantity). Must be a positive number. Default if not sent is 1.
referenceTime	DateTime	O	Self-recorded timestamp. Note: It is not the actual transaction date and time. It is not

Parameter	Type	M/O/CM	Description
			possible to populate a date for future execution. The adjustment is executed immediately when the API is sent. Default if not sent – now().
externalTransactionId	String	O	External Reference identifier. Relevant if a search for a transaction is required in reports or extractions.
description	String	O	Adjustment description. Free text.
transactionType	String	O	Type of transaction. Currently supports manual adjustments only. ENUM valid values: MANUAL_ADJUSTMENT. Default if not sent: MANUAL_ADJUSTMENT.
reason	String	O	Reason for the transaction per type. Manual adjustment ENUM valid values: GENERAL, DISCOUNT, RATES_ADJUSTMENTS, REFUND, CREDIT, SHIPMENT_COST, ORDER_COST, DEBT. Default if not sent: GENERAL.

Allowance data objects

Element	Type	M/O/CM	Description
currency	String	M	Allowance: SMS: (Number of) SMSs Data: KB, MB, GB
value	Decimal	M	Balance amount

6.5.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
bulk	Object	M	Array of main response body object.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Bulk data objects

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
messageId	UUID	CM	Request instance ID. To be used by external systems to query the call (operation) status: In progress Successful Failed. Displayed when an API call was successful. For a failure, it will be empty.
subscriberIdentifiers	Object	M	Subscriber unique keys object, defines the search criteria.
content	Object	O	Main response body object that reflects a single node of the original request.

subscriberidentifiers data objects

Parameter	Type	M/O/CM	Description
type	String	M	Define the search criteria. Valid Types: ENUMs: IMSI, ICCID, MSISDN, IMEI
value	String	M	Type value. IMSI or ICCID or MSISDN or IMEI number.

Content data objects

Parameter	Type	M/O/CM	Description
amount	Decimal	M	Add or deduct money to/from the subscriber's postpaid balance. Sending a positive value will perform a DEBIT action (deduct money from the balance). Sending a negative value will perform a CREDIT action (add money to the balance).
currency	String	M	Monetary currency. e.g., USD, GBP, EUR
quantity	Numeric	O	Quantity represents how many adjustments were requested. For example, amount 10, currency "USD", with quantity 3 results in an adjustment of \$30 (amount × quantity).
referenceTime	DateTime	O	Self-recorded timestamp. Note: It is not the actual transaction date and time. It is not

Parameter	Type	M/O/CM	Description
			possible to populate a date for future execution. The adjustment is executed immediately when the API is sent.
externalTransactionId	String	O	External Reference identifier. Relevant if a search for a transaction is required in reports or extractions.
description	String	O	Adjustment description. Free text.
transactionType	String	O	Type of transaction. Currently supports manual adjustments only. ENUM valid values: MANUAL_ADJUSTMENT.
reason	String	O	Reason for the transaction per type. Manual adjustment ENUM valid values: GENERAL, DISCOUNT, RATES_ADJUSTMENTS, REFUND, CREDIT, SHIPMENT_COST, ORDER_COST, DEBT.

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

6.5.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
SUBSCRIBER_1002	Subscriber does not exist

6.5.5 Examples

Request Body

```
{
  "bulk": [
    {
      "subscriberIdentifiers": {
        "type": "IMSI",
        "value": "222013090961859"
      },
      "content": {
        "amount": -25,
        "currency": "USD",
        "quantity": 1,
        "referenceTime": "",
        "externalTransactionId": "",
        "description": "Applying three months discount",
        "transactionType": "MANUAL_ADJUSTMENT",
        "reason": "DISCOUNT"
      }
    },
    {
      "subscriberIdentifiers": {
        "type": "ICCID",
        "value": "8935711001000034535"
      },
      "content": {
        "amount": 10,
        "currency": "GBP",
        "quantity": 1,
        "referenceTime": "",
        "externalTransactionId": "",
```

```
        "description": "Collecting debt",
        "transactionType": "MANUAL_ADJUSTMENT",
        "reason": "DEBT"
    }
}
]
}
```

Response Body: Full Success (ACK)

```
{
  "bulk": [
    {
      "errorCode": "",
      "errorMessage": "",
      "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370",
      "subscriberIdentifiers": {
        "type": "IMSI",
        "value": "222013090961963"
      },
      "content": {
        "amount": -25,
        "currency": "USD",
        "quantity": 1,
        "referenceTime": "",
        "externalTransactionId": "",
        "description": "Applying three months discount",
        "transactionType": "MANUAL_ADJUSTMENT",
        "reason": "DISCOUNT"
      }
    }
  ]
}
```

```
    }
  },
  {
    "errorCode": "",
    "errorMessage": "",
    "requestId": "7e74dce6-8eef-4c86-a4bb-1a860913c271",
    "subscriberIdentifiers": {
      "type": "ICCID",
      "value": "8935711001000035687"
    },
    "content": {
      "amount": 10,
      "currency": "GBP",
      "quantity": 1,
      "referenceTime": "",
      "externalTransactionId": "",
      "description": "Collecting debt",
      "transactionType": "MANUAL_ADJUSTMENT",
      "reason": "DEBT"
    }
  }
],
"pageable": {
  "page": 0,
  "size": 10,
  "totalPages": 1,
  "totalElements": 1
}
}
```

Response Body: Includes Failure(s) (NAK)

```
{
  "bulk": [
    {
      "errorCode": "SUBSCRIBER_1002",
      "errorMessage": "Subscriber does not exist",
      "requestId": "",
      "subscriberIdentifiers": {
        "type": "IMSI",
        "value": "222013090961963"
      },
      "content": {
        "amount": -25,
        "currency": "USD",
        "quantity": 1,
        "referenceTime": "",
        "externalTransactionId": "",
        "description": "Applying three months discount",
        "transactionType": "MANUAL_ADJUSTMENT",
        "reason": "DISCOUNT"
      }
    }
  ],
  "pageable": {
    "page": 0,
    "size": 10,
    "totalPages": 1,
    "totalElements": 1
  }
}
```

```
}

```

6.6 Bulk Modify Subscriber Status

This API is used to amend in-use SIM related attributes of multiple subscribers in a single call. Requested changes in SIMs are executed via OTA commands sent by a binary SMSs.

The Requestor is eligible to modify his own subscribers' SIM settings information regardless of their actual existence (which level they reside in).

HTTP URL	
PATCH	api/v2/bulk/subscriber/sim

6.6.1 Eligibility

The Requester is eligible to request a status change for its own subscribers or for its sub-customers' subscribers.

6.6.2 API Request

Request Structure

Parameter	Type	M/O/CM	Description
bulk	Object	M	Array of main request body object.

Bulk data objects

Element	Type	M/O/CM	Description
subscriberIdentifiers	Object	M	Subscriber unique keys object, define the search criteria.
content	Object	M	Main elements container object

subscriberidentifiers data objects

Element	Type	M/O/CM	Description
type	String	M	Define the search criteria: ENUMs: IMSI, ICCID, MSISDN, IMEI
value	String	M	Type value. IMSI or ICCID or MSISDN or IMEI number.

Content data objects

Parameter	Type	M/O/CM	Description
appletMode	String	O	Set the SIM applet mode. Determines whether the active IMSI can be set manually, or the applet determines which IMSI to use. ENUM valid values: MANUAL, AUTOMATIC
activeImsi	String	O	Set active IMSI. Must be from the subscriber identifiers list. Note: The system does not block an attempt to modify active IMSI even if the 'appletMode' is set to AUTOMATIC.
sim	Object	0	Array of SIMs object – In-Use IMSIs only

SIM

Parameter	Type	M/O/CM	Description
imsi	String	M	IMSI number registered on current SIM instance
allowedCountries	String	O	<p>Set an array of IMSI related Mobile Country Codes (MCC).</p> <p>The device is allowed to make a connection while in this country/continent. Send 'MCC' Comma separated values. Max 16 items in the array are allowed.</p> <p>Set the following values when allowing a whole mainland using a single item: 2FF,3FF,4FF,5FF,6FF,7FF</p> <ul style="list-style-type: none"> ○ 2FF: Europe ○ 3FF: North America and the Caribbean

Parameter	Type	M/O/CM	Description
			<ul style="list-style-type: none"> ○ 4FF: Asia and the Middle East ○ 5FF: Australia and Oceania ○ 6FF: Africa 7FF: South and Central America ○ 7FF: South and Central America
preferredOperatorNetworks	String	O	Set the list of operator networks (array of comma separated string) that get precedence on unlisted networks in current SIM instance (given IMSI) while roaming. Send MCCMNC value. Note: Passed value\s will override existing value\s. Empty string will reset the existing array list.
forbiddenNetworks	String	O	Set the list of networks (array of comma separated string) that current SIM instance (given IMSI) cannot connect to while roaming. Send MCCMNC value. Note: Passed value\s will override existing value\s. Empty string will reset the existing array list.

6.6.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
bulk	Object	M	Array of main response body object.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Bulk data objects

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
requestId	UUID	CM	Request instance ID. To be used by external systems to query the call (operation) status, whether in progress, successful or failed. Displayed when an API call was successful. For a failure it will be empty.
subscriberIdentifiers	Object	M	Subscriber unique keys object, defines the search criteria.
content	Object	O	Main response body object that reflects a single node of the original request.

subscriberidentifiers data objects

Parameter	Type	M/O/CM	Description
type	String	M	Define the search criteria: ENUMs: IMSI, ICCID, MSISDN, IMEI
value	String	M	Type value. IMSI or ICCID or MSISDN or IMEI number.

Content data objects

Element	Type	M/O/CM	Description
appletMode	String	O	SIM applet mode. Determines whether the active IMSI can be set manually, or the applet determines which IMSI to use. ENUM valid values: MANUAL, AUTOMATIC
activeImsi	String	O	Active IMSI.
sim	Object	O	Array of SIMs object

SIM

Parameter	Type	M/O/CM	Description
imsi	String	M	IMSI number registered on current SIM instance

Parameter	Type	M/O/CM	Description
allowedCountries	String	O	<p>Array of IMSI related Mobile Country Codes (MCC). The device is allowed to make a connection while in this country/continent.</p> <p>Following values can also be used when allowing a whole mainland using a single item: 2FF,3FF,4FF,5FF,6FF,7FF</p> <ul style="list-style-type: none"> ○ 2FF: Europe ○ 3FF: North America and the Caribbean ○ 4FF: Asia and the Middle East ○ 5FF: Australia and Oceania ○ 6FF: Africa 7FF: South and Central America ○ 7FF: South and Central America
preferredOperatorNetworks	String	O	<p>Set the list of operator networks (array of comma separated string) that get precedence on unlisted networks in current SIM instance (given IMSI) while roaming. Send MCCMNC value. Note: Passed value\s will override existing value\s. Empty string will reset the existing array list.</p>
forbiddenNetworks	String	O	<p>Set the list of networks (array of comma separated string) that current SIM instance (given IMSI) cannot connect to while roaming. Send MCCMNC value. Note: Passed value\s will override existing value\s. Empty string will reset the existing array list.</p>

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

6.6.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
SUBSCRIBER_1002	Subscriber does not exist

6.6.5 Examples

Request Body

```
{
  "bulk": [
    {
      "subscriberIdentifiers": {
        "type": "IMSI",
        "value": "222013090961859"
      },
      "content": {
        "appletMode": "MANUAL",
        "activeImsi": "222013090961859",
        "sim": [
          {
```

```

        "imsi": "222013090961859",
        "allowedCountries": "001",
        "preferredOperatorNetworks": [
            "302220",
            "302500"
        ],
        "forbiddenNetworks": [
            "23430",
            "23415",
            "90146"
        ]
    },
    {
        "imsi": "310380501118337",
        "allowedCountries": "320",
        "preferredOperatorNetworks": [],
        "forbiddenNetworks": []
    }
]
}
},
{
    "subscriberIdentifiers": {
        "type": "ICCID",
        "value": "8935711001000034535"
    },
    "content": {
        "sim": [
            {

```

```
        "imsi": "310370201128465",
        "allowedCountries": "001",
        "preferredOperatorNetworks": [],
        "forbiddenNetworks": []
    }
]
}
```

Response Body: Full Success ACK

```
{
  "bulk": [
    {
      "errorCode": "",
      "errorMessage": "",
      "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370",
      "subscriberIdentifiers": {
        "type": "IMSI",
        "value": "222013090961859"
      },
      "content": {
        "appletMode": "MANUAL",
        "activeImsi": "222013090961859",
        "sim": [
          {
```

```

        "imsi": "222013090961859",
        "allowedCountries": "001",
        "preferredOperatorNetworks": [
            "302220",
            "302500"
        ],
        "forbiddenNetworks": [
            "23430",
            "23415",
            "90146"
        ]
    },
    {
        "imsi": "310380501118337",
        "allowedCountries": "320",
        "preferredOperatorNetworks": [],
        "forbiddenNetworks": []
    }
]
}
},
{
    "errorCode": "",
    "errorMessage": "",
    "requestId": "7e74dce6-8eef-4c86-a4bb-1a860913c271",
    "subscriberIdentifiers": {
        "type": "ICCID",
        "value": "8935711001000034535"
    }
},

```



```
    "content": {
      "sim": [
        {
          "imsi": "310370201128465",
          "allowedCountries": "320",
          "preferredOperatorNetworks": [],
          "forbiddenNetworks": []
        }
      ]
    }
  ],
  "pageable": {
    "page": 0,
    "size": 10,
    "totalPages": 1,
    "totalElements": 1
  }
}
```

Response Body: Includes Failure(s) (NAK)

```
{
  "bulk": [
    {
      "errorCode": "SUBSCRIBER_1002",
      "errorMessage": "Subscriber does not exist",
      "requestId": ""
    }
  ]
}
```

```
"subscriberIdentifiers": {  
  "type": "IMSI",  
  "value": "222013090961859"  
},  
"content": {  
  "appletMode": "MANUAL",  
  "activeImsi": "222013090961859",  
  "sim": [  
    {  
      "imsi": "222013090961859",  
      "allowedCountries": "001",  
      "preferredOperatorNetworks": [  
        "302220",  
        "302500"  
      ],  
      "forbiddenNetworks": [  
        "23430",  
        "23415",  
        "90146"  
      ]  
    },  
    {  
      "imsi": "310370201128465",  
      "allowedCountries": "310",  
      "preferredOperatorNetworks": [],  
      "forbiddenNetworks": []  
    }  
  ]  
}
```

```

    }
  ],
  "pageable": {
    "page": 0,
    "size": 10,
    "totalPages": 1,
    "totalElements": 1
  }
}

```

6.7 Bulk Create Subscriber Labels

This API is used to create user labels for multiple subscribers in a single call.

HTTP URL	
POST	/api/v2/bulk/subscriber/label

6.7.1 Eligibility

The Requester is eligible to request creating User-labels for its own (single) subscriber or one of its sub-customers' (sub-accounts) subscribers.

6.7.2 API Request

Request Structure

Parameter	Type	M/O/CM	Description
bulk	Object	M	Array of main request body object.

Bulk data objects

Element	Type	M/O/CM	Description
subscriberIdentifiers	Object	M	Subscriber unique keys object, defines the search criteria.
content	Object	M	Main elements container object.

subscriberidentifiers data objects

Element	Type	M/O/CM	Description
type	String	M	Define the search criteria: ENUMs: IMSI, ICCID, MSISDN, IMEI
value	String	M	Type value. IMSI or ICCID or MSISDN or IMEI number.

Content data objects

Parameter	Type	M/O/CM	Description
name	String	M	List (array) of label names to be created. If more than one label is provided, then all must have been created successfully to earn Success status; if even one fails, then the result status is Failure for all labels.

6.7.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
bulk	Object	M	Array of main response body object.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Bulk data objects

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
requestId	UUID	CM	Request instance ID. To be used by external systems to query the call (operation) status: <ul style="list-style-type: none"> ○ In progress ○ Successful

Parameter	Type	M/O/CM	Description
			<ul style="list-style-type: none"> Failed. <p>Displayed when an API call was successful. For a failure, it will be empty.</p>
subscriberIdentifiers	Object	M	Subscriber unique keys object, defines the search criteria.
content	Object	O	Main response body object that reflects a single node of the original request.

subscriberidentifiers data objects

Parameter	Type	M/O/CM	Description
type	String	M	Define the search criteria: ENUMs: IMSI, ICCID, MSISDN, IMEI
value	String	M	Type value. IMSI or ICCID or MSISDN or IMEI number.

Content data objects

Element	Type	M/O/CM	Description
name	String	M	List (array) of label names to be created.

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

6.7.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
SUBSCRIBER_1030	Failed to create subscriber label\s

6.7.5 Examples

Request Body

```
{
  "bulk": [
    {
      "subscriberIdentifiers": {
        "type": "IMSI",
        "value": "222013090961859"
      },
      "content": {
        "name": [
          "label1",
          "label2"
        ]
      }
    },
    {
      "subscriberIdentifiers": {
        "type": "ICCID",
        "value": "8935711001000034535"
      },
      "content": {
        "name": [
          "label1",
          "label2"
        ]
      }
    }
  ]
}
```

```
    ]  
  }  
}  
]  
}
```

Response Body: Full Success ACK

```
{  
  "bulk": [  
    {  
      "errorCode": "",  
      "errorMessage": "",  
      "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370",  
      "subscriberIdentifiers": {  
        "type": "IMSI",  
        "value": "222013090961963"  
      },  
      "content": {  
        "name": [  
          "label1",  
          "label2"  
        ],  
      }  
    },  
    {  
      "errorCode": "",  
      "errorMessage": "",  
      "requestId": "7e74dce6-8eef-4c86-a4bb-1a860913c271",
```

```
    "subscriberIdentifiers": {  
      "type": "ICCID",  
      "value": "8935711001000035687"  
    },  
    "content": {  
      "name": [  
        "label1",  
        "label2"  
      ]  
    }  
  ],  
  "pageable": {  
    "page": 0,  
    "size": 10,  
    "totalPages": 1,  
    "totalElements": 1  
  }  
}
```

Response Body: Includes Failure(s) (NAK)

```
{  
  "bulk": [  
    {  
      "errorCode": "SUBSCRIBER_1030",  
      "errorMessage": "Failed to create subscriber label\\s",  
      "requestId": "",  
      "subscriberIdentifiers": {
```



```

        "type": "IMSI",
        "value": "222013090961963"
    },
    "content": {
        "name": [
            "label1",
            "label2"
        ]
    }
},
"pageable": {
    "page": 0,
    "size": 10,
    "totalPages": 1,
    "totalElements": 1
}
}

```

6.8 Bulk Delete Subscriber Labels

This API is used to delete one or multiple User labels from each subscriber (SIM) in a list of multiple subscribers in a single call. The bulk request is handled on an individual basis for each subscriber. The labels to be deleted for each subscriber in the bulk list are contained in the id array of Label UUIDs. The result treats all labels of a single subscriber in the bulk list as a single result with all User labels deleted successfully for that subscriber only or all failed when even one of the labels fails to be deleted in that subscriber. The Success or Failure result of the single subscriber has no affect on the other subscribers in the bulk list.

HTTP URL	
DELETE	/api/v2/bulk/subscriber/label

6.8.1 Eligibility

The Requester is eligible to request deleting User-labels for its own subscribers or for its sub-customers' (sub-accounts) subscribers.

6.8.2 API Request

Request Structure

Parameter	Type	M/O/CM	Description
bulk	Object	M	Array of main request body object.

Bulk data objects

Element	Type	M/O/CM	Description
subscriberIdentifiers	Object	M	Subscriber unique keys object, defines the search criteria.
content	Object	M	Main elements container object.

subscriberidentifiers data objects

Element	Type	M/O/CM	Description
type	String	M	Define the search criteria: ENUMs: IMSI, ICCID, MSISDN, IMEI
value	String	M	Type value. IMSI or ICCID or MSISDN or IMEI number.

Content data objects

Parameter	Type	M/O/CM	Description
id	UUID	M	Array of label IDs to be deleted

6.8.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
bulk	Object	M	Array of main response body object.

Parameter	Type	M/O/CM	Description
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Bulk data objects

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
requestId	UUID	CM	Request instance ID. To be used by external systems to query the call (operation) status: <ul style="list-style-type: none"> ○ In progress ○ Successful ○ Failed. Displayed when an API call was successful. For a failure, it will be empty.
subscriberIdentifiers	Object	M	Subscriber unique keys object, defines the search criteria.
content	Object	O	Main response body object that reflects a single node of the original request.

subscriberidentifiers data objects

Parameter	Type	M/O/CM	Description
type	String	M	Define the search criteria: ENUMs: IMSI, ICCID, MSISDN, IMEI
value	String	M	Type value. IMSI or ICCID or MSISDN or IMEI number.

Content data objects

Element	Type	M/O/CM	Description
id	UUID	CM	Array of label IDs that have been successfully deleted (filled in for a successfully accepted request).

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

6.8.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
SUBSCRIBER_1002	Subscriber does not exist
SUBSCRIBER_1031	Failed to delete subscriber label\s

6.8.5 Examples

Request Body

```
{
  "bulk": [
    {
      "subscriberIdentifiers": {
        "type": "IMSI",
        "value": "222013090961859"
      },
      "content": {
        "id": [
```

```
        "e7fcef24-5c03-41dd-9e33-995b7d6f47b5",
        "e7fcef24-5c03-41dd-9e33-995b7d6f47a7"
    ]
}
},
{
    "subscriberIdentifiers": {
        "type": "ICCID",
        "value": "8935711001000034535"
    },
    "content": {
        "id": [
            "ff74dca6-8e7f-4b85-a42b-13860913b370",
            "b7fc34-6a03-41ed-9b32-915a7d6e76c3"
        ]
    }
}
]
```

Response Body: Full Success ACK

```
{
    "bulk": [
        {
            "errorCode": "",
            "errorMessage": "",
            "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370",
            "subscriberIdentifiers": {
```

```
        "type": "IMSI",
        "value": "222013090961963"
    },
    "content": {
        "id": [
            "e7fcef24-5c03-41dd-9e33-995b7d6f47b5",
            "e7fcef24-5c03-41dd-9e33-995b7d6f47a7"
        ]
    }
},
{
    "errorCode": "",
    "errorMessage": "",
    "requestId": "7e74dce6-8eef-4c86-a4bb-1a860913c271",
    "subscriberIdentifiers": {
        "type": "ICCID",
        "value": "8935711001000035687"
    },
    "content": {
        "id": [
            "ff74dca6-8e7f-4b85-a42b-13860913b370",
            "b7fcac34-6a03-41ed-9b32-915a7d6e76c3"
        ]
    }
}
],
"pageable": {
    "page": 0,
    "size": 10,
```

```
    "totalPages": 1,  
    "totalElements": 1  
  }  
}
```

Response Body: Includes Failure(s) (NAK)

```
{  
  "bulk": [  
    {  
      "errorCode": "SUBSCRIBER_1031",  
      "errorMessage": "Failed to delete subscriber label\\s",  
      "requestId": "",  
      "subscriberIdentifiers": {  
        "type": "IMSI",  
        "value": "222013090961963"  
      },  
      "content": {  
        "id": [  
          "e7fcef24-5c03-41dd-9e33-995b7d6f47b5",  
          "e7fcef24-5c03-41dd-9e33-995b7d6f47a7"  
        ],  
      }  
    },  
  ],  
  "pageable": {  
    "page": 0,  
    "size": 10,  
    "totalPages": 1,  
  },  
}
```

```

      "totalElements": 1
    }
  }

```

6.9 Bulk Attach Subscriber Offer

This API is used to attach a new plan to multiple subscribers in a single call. The API currently supports attaching of individual offers (Regular plans) and Pool plans.

HTTP URL	
POST	/api/v2/bulk/subscriber/offer

6.9.1 Eligibility

The Requester is eligible to attach a Regular plan to its sub-customers' subscribers. The Requester is not allowed to attach a plan to its own subscribers unless the requester's parent customer has:

Granted permission by turning on the `allowOfferDelegation` parameter.

- Granted permission by turning on the `allowOfferDelegation` parameter
- Assigned at least one plan to the requester
- Pool plans can be attached to the specified subscriber (in URL) only if it was created for the requester's sub account, and the specified subscriber belongs to this sub account.

6.9.2 API Request

Request Structure

Parameter	Type	M/O/CM	Description
bulk	Object	M	Array of main request body object.

Bulk data objects

Element	Type	M/O/CM	Description
subscriberIdentifiers	Object	M	Subscriber unique keys object, defines the search criteria
content	Object	M	Main elements container object

subscriberidentifiers data objects

Element	Type	M/O/CM	Description
type	String	M	Define the search criteria. ENUMs: IMSI, ICCID, MSISDN, IMEI
value	String	M	Type value. IMSI or ICCID or MSISDN or IMEI number.

Content data objects

Parameter	Type	M/O/CM	Description
productOfferingId	UUID	M	Product catalog offer ID
priority	Numeric	O	Plan order of priority; the higher the numeric value, the higher priority the plan receives.

Parameter	Type	M/O/CM	Description
			<p>For example, a plan with priority 100 precedes plan with priority 50.</p> <p>The Rater does not enforce the sequential order of any plan's priorities and so it has no meaning.</p> <p>Note: The Rater does not enforce the uniqueness of an assigned priority between a subscriber's plans. Therefore, prevent sending an existing plan's priority value to this plan.</p>
myOffer	Boolean	O	<p>Determines whether to:</p> <p>Attach one of my Customer plans (Sell Plan offers) to my sub accounts' subscribers</p> <p>OR</p> <p>Attach one of the Parent's Buy Plans to my accounts' subscribers.</p> <p>[myOffer] True = Request to attach a Parent plan (Buy Plan offer) to my own subscribers. This self-service functionality is allowed only when the sub-customer was defined by my Parent as authorized for delegation of Parent Plans [allow_offer_delegation = true].</p> <p>[myOffer] False = Request to attach one of my Customer plans (Sell Plan offers) to my sub accounts subscribers (Normal operation)</p> <p>Default (if not provided) = False</p>

6.9.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
bulk	Object	M	Array of main response body object.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Bulk data objects

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
requestId	UUID	CM	Request instance ID. To be used by external systems to query the call (operation) status: In progress Successful Failed. Displayed when an API call was successful. For a failure, it will be empty.
subscriberOfferId	UUID	M	Offer instance attached to the subscriber
subscriberIdentifiers	Object	M	Subscriber unique keys object, defines the search criteria
content	Object	O	Main response body object that reflects a single node of the original request.

subscriberidentifiers data objects

Parameter	Type	M/O/CM	Description
type	String	M	Define the search criteria. ENUMs: IMSI, ICCID, MSISDN, IMEI
value	String	M	Type value. IMSI or ICCID or MSISDN or IMEI number.

Content data objects

Element	Type	M/O/CM	Description
productOfferingId	UUID	M	Product catalog offer ID
priority	Numeric	O	Plan order of priority; the higher the numeric value, the higher priority the plan receives.
myOffer	Boolean	M	Determines whether to: Attach one of my Customer plans (Sell Plan offers) to my sub accounts' subscribers OR Attach one of the Parent's Buy Plans to my accounts' subscribers. [myOffer] True = Request to attach a Parent plan (Buy Plan offer) to my own subscribers.

Element	Type	M/O/CM	Description
			<p>[myOffer] False = Request to attach one of my Customer plans (Sell Plan offers) to my sub accounts subscribers (Normal operation)</p> <p>Default if not provided is 'false'</p>

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

6.9.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
SUBSCRIBER_1010	Failed to attach offer

Code	Message
AUTH_1012	You are not allowed to attach parent customer plans to your own SIM cards

6.9.5 Examples

Request Body

```
{
  "bulk": [
    {
      "subscriberIdentifiers": {
        "type": "IMSI",
        "value": "222013090961859"
      },
      "content": {
        "productOfferingId": "4543dedb-cce7-4bee-89f3-7af1447927e6",
        "priority": 10
      }
    },
    {
      "subscriberIdentifiers": {
        "type": "ICCID",
        "value": "8935711001000034535"
      },
      "content": {
        "productOfferingId": "e7fcef24-5c03-41dd-9e33-995b7d6f47e2",
        "priority": 10,

```

```
        "myOffer": true
      }
    }
  ]
}
```

Response Body: Full Success ACK

```
{
  "bulk": [
    {
      "errorCode": "",
      "errorMessage": "",
      "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370",
      "subscriberOfferId": "ab74dfe6-8e7f-4b45-a42b-14460913b459",
      "subscriberIdentifiers": {
        "type": "IMSI",
        "value": "222013090961963"
      },
      "content": {
        "productOfferingId": "4543dedb-cce7-4bee-89f3-7af1447927e6",
        "priority": 10,
        "myOffer": false
      }
    },
    {
      "errorCode": "",
      "errorMessage": "",
```

```
        "requestId": "7e74dce6-8eef-4c86-a4bb-1a860913c271",
        "subscriberOfferId": "bb64dfd6-2e1f-4a25-b32b-13461943c425",
        "subscriberIdentifiers": {
            "type": "ICCID",
            "value": "8935711001000035687"
        },
        "content": {
            "productOfferingId": "e7fcef24-5c03-41dd-9e33-995b7d6f47e2",
            "priority": 10,
            "myOffer": true
        }
    },
    "pageable": {
        "page": 0,
        "size": 10,
        "totalPages": 1,
        "totalElements": 1
    }
}
```

Response Body: Includes Failure(s) (NAK)

```
{
  "bulk": [
    {
      "errorCode": "AUTH_1012",
```



```
    "errorMessage": "You are not allowed to attach parent
customer plans to your own SIM cards",

    "requestId": "",

    "subscriberIdentifiers": {

        "type": "IMSI",

        "value": "222013090961963"

    },

    "content": {

        "productOfferingId": "4543dedb-cce7-4bee-89f3-
7af1447927e6",

        "priority": 10,

        "myOffer": false

    }

},

],

"pageable": {

    "page": 0,

    "size": 10,

    "totalPages": 1,

    "totalElements": 1

}

}
```

6.10 Bulk Modify Subscriber Offer

This API is used to modify the attributes of an existing subscriber plan attached to multiple subscribers in a single call.

HTTP URL	
PUT	/api/v2/bulk/subscriber/offer

6.10.1 Eligibility

The Requester is eligible to modify a Regular plan of sub-customers' subscribers or a Pool plan attached to sub-customers.

The Requester is not allowed to modify a plan of own subscribers.

6.10.2 API Request Request Structure

Parameter	Type	M/O/CM	Description
bulk	Object	M	Array of main request body object.

Bulk data objects

Element	Type	M/O/CM	Description
subscriberIdentifiers	Object	M	Subscriber unique keys object, defines the search criteria
content	Object	M	Main elements container object

subscriberidentifiers data objects

Element	Type	M/O/CM	Description
type	String	M	Define the search criteria. ENUMs: IMSI, ICCID, MSISDN, IMEI
value	String	M	Type value. IMSI or ICCID or MSISDN or IMEI number.

Content data objects

Parameter	Type	M/O/CM	Description
subscriberOfferingId	UUID	M	Subscriber offer ID
priority	Numeric	O	<p>Plan order of priority; the higher the numeric value, the higher priority the plan receives.</p> <p>For example, a plan with priority 100 precedes plan with priority 50.</p> <p>The Rater does not enforce the sequential order of any plan's priorities and so it has no meaning.</p> <p>Note: The Rater does not enforce the uniqueness of an assigned priority between a subscriber's plans. Therefore, prevent sending an existing plan's priority value to this plan.</p>
expirationDate	Date	O	<p>Determines the requested date as per the selected expirationType set when plan created.</p> <p>Can be used only if the expirationType parameter has been set to FIXED.</p> <p>Rejected for other expirationType settings.</p>

6.10.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
bulk	Object	M	Array of main response body object.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Bulk data objects

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
requestId	UUID	CM	<p>Request instance ID.</p> <p>To be used by external systems to query the call (operation) status:</p> <p>In progress</p> <p>Successful</p> <p>Failed.</p> <p>Displayed when an API call was successful. For a failure, it will be empty.</p>
subscriberIdentifiers	Object	M	Subscriber unique keys object, defines the search criteria
content	Object	O	Main response body object that reflects a single node of the original request.

subscriberidentifiers data objects

Parameter	Type	M/O/CM	Description
type	String	M	Define the search criteria. ENUMs: IMSI, ICCID, MSISDN, IMEI
value	String	M	Type value. IMSI or ICCID or MSISDN or IMEI number.

Content data objects

Element	Type	M/O/CM	Description
subscriberOfferingId	UUID	M	Subscriber offer ID
priority	Numeric	O	Plan order of priority; the higher the numeric value, the higher priority the plan receives.
expirationDate	Date	O	Newly requested expiration date as per the selected expirationType set when plan created.

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page

Element	Type	M/O/CM	Description
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

6.10.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
SUBSCRIBER_1026	Failed to modify offer

6.10.5 Examples

Request Body

```
{
  "bulk": [
    {
      "subscriberIdentifiers": {
        "type": "IMSI",
        "value": "222013090961859"
      },
      "content": {
        "subscriberOfferingId": "4543dedb-cce7-4bee-89f3-7af1447927e6",

```

```
        "priority": 100,
        "expirationDate": "25042023"
    },
    {
        "subscriberIdentifiers": {
            "type": "ICCID",
            "value": "8935711001000034535"
        },
        "content": {
            "subscriberOfferingId": "e7fcef24-5c03-41dd-9e33-995b7d6f47e2",
            "priority": 100,
            "expirationDate": "25042023"
        }
    }
]
```

Response Body: Full Success ACK

```
{
  "bulk": [
    {
      "errorCode": "",
      "errorMessage": "",
      "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370",
      "subscriberIdentifiers": {
        "type": "IMSI",
        "value": "222013090961963"
      }
    }
  ]
}
```

```
    },  
    "content": {  
        "subscriberOfferingId": "4543dedb-cce7-4bee-89f3-  
7af1447927e6",  
        "priority": 100,  
        "expirationDate": "25042023"  
    }  
},  
{  
    "errorCode": "",  
    "errorMessage": "",  
    "requestId": "7e74dce6-8eef-4c86-a4bb-1a860913c271",  
    "subscriberIdentifiers": {  
        "type": "ICCID",  
        "value": "8935711001000035687"  
    },  
    "content": {  
        "subscriberOfferingId": "e7fcef24-5c03-41dd-9e33-  
995b7d6f47e2",  
        "priority": 100,  
        "expirationDate": "25042023"  
    }  
}  
],  
"pageable": {  
    "page": 0,  
    "size": 10,  
    "totalPages": 1,  
    "totalElements": 1  
}
```



```
}
```

Response Body: Includes Failure(s) (NAK)

```
{
  "bulk": [
    {
      "errorCode": "SUBSCRIBER_1026",
      "errorMessage": "Failed to modify offer",
      "requestId": "",
      "subscriberIdentifiers": {
        "type": "IMSI",
        "value": "222013090961963"
      },
      "content": {
        "subscriberOfferingId": "4543dedb-cce7-4bee-89f3-7af1447927e6",
        "priority": 100,
        "expirationDate": "25042023"
      }
    }
  ],
  "pageable": {
    "page": 0,
    "size": 10,
    "totalPages": 1,
    "totalElements": 1
  }
}
```

6.11 Bulk Detach Subscriber Offer

This API is used to detach Regular or Pool plans from multiple subscribers in a single call.

The deletion is soft, but once executed, it cannot be recovered.

HTTP URL	
DELETE	/api/v2/bulk/subscriber/offer

6.11.1 Eligibility

The Requester is eligible to detach a plan from sub-customers' subscribers.

The Requester is eligible to detach a Buy Plan from own subscribers only if the Parent account sets the `allowOfferDelegation` parameter to `True` for the Requester's account.

6.11.2 API Request

Request Structure

Parameter	Type	M/O/CM	Description
bulk	Object	M	Array of main request body object.

Bulk data objects

Element	Type	M/O/CM	Description
subscriberIdentifiers	Object	M	Subscriber unique keys object, defines the search criteria
content	Object	M	Main elements container object

subscriberidentifiers data objects

Element	Type	M/O/CM	Description
type	String	M	Define the search criteria. ENUMs: IMSI, ICCID, MSISDN, IMEI
value	String	M	Type value. IMSI or ICCID or MSISDN or IMEI number.

Content data objects

Parameter	Type	M/O/CM	Description
subscriberOfferingId	UUID	M	Subscriber offer ID
myOffer	Boolean	O	<p>Determines whether to:</p> <p>Detach one of my Customer plans (Sell Plan offers) from my sub accounts' subscribers</p> <p>OR</p> <p>Detach one of the Parent's Buy Plans from my accounts' subscribers.</p> <p>[myOffer] True = Request to detach a Parent plan (Buy Plan offer) from my own subscribers. This self-service functionality is allowed only when the sub-customer was defined by my Parent as authorized for delegation of Parent Plans [allow_offer_delegation = true].</p> <p>[myOffer] False = Request to detach one of my Customer plans (Sell Plan offers) from my sub accounts subscribers (Normal operation)</p> <p>Default (if not provided) = False</p>

6.11.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
bulk	Object	M	Array of main response body object.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Bulk data objects

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
requestId	UUID	CM	<p>Request instance ID.</p> <p>To be used by external systems to query the call (operation) status:</p> <p>In progress</p> <p>Successful</p> <p>Failed.</p> <p>Displayed when an API call was successful. For a failure, it will be empty.</p>

Parameter	Type	M/O/CM	Description
subscriberIdentifiers	Object	M	Subscriber unique keys object, defines the search criteria
content	Object	O	Main response body object that reflects a single node of the original request.

subscriberidentifiers data objects

Parameter	Type	M/O/CM	Description
type	String	M	Define the search criteria. ENUMs: IMSI, ICCID, MSISDN, IMEI
value	String	M	Type value. IMSI or ICCID or MSISDN or IMEI number.

Content data objects

Element	Type	M/O/CM	Description
subscriberOfferingId	UUID	M	Subscriber offer ID
myOffer	Boolean	M	Determines whether to: Attach one of my Customer plans (Sell Plan offers) to my sub accounts' subscribers OR

Element	Type	M/O/CM	Description
			<p>Attach one of the Parent's Buy Plans to my accounts' subscribers.</p> <p>[myOffer] True = Request to attach a Parent plan (Buy Plan offer) to my own subscribers.</p> <p>[myOffer] False = Request to attach one of my Customer plans (Sell Plan offers) to my sub accounts subscribers (Normal operation)</p> <p>Default if not provided is 'false'</p>

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

6.11.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again

Code	Message
SUBSCRIBER_1011	Failed to detach offer
AUTH_1013	You are not allowed to detach parent customer plans from your own SIM cards

6.11.5 Examples

Request Body

```
{
  "bulk": [
    {
      "subscriberIdentifiers": {
        "type": "IMSI",
        "value": "222013090961859"
      },
      "content": {
        "subscriberOfferingId": "4543dedb-cce7-4bee-89f3-7af1447927e6"
      }
    },
    {
      "subscriberIdentifiers": {
        "type": "ICCID",
        "value": "8935711001000034535"
      },
      "content": {
        "subscriberOfferingId": "e7fcef24-5c03-41dd-9e33-995b7d6f47e2",

```

```
        "myOffer": true
    }
}
]
```

Response Body: Full Success ACK

```
{
  "bulk": [
    {
      "errorCode": "",
      "errorMessage": "",
      "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370",
      "subscriberIdentifiers": {
        "type": "IMSI",
        "value": "222013090961963"
      },
      "content": {
        "subscriberOfferingId": "4543dedb-cce7-4bee-89f3-7af1447927e6",
        "myOffer": false
      }
    },
    {
      "errorCode": "",
      "errorMessage": "",
      "requestId": "7e74dce6-8eef-4c86-a4bb-1a860913c271",
      "subscriberIdentifiers": {
```



```

        "type": "ICCID",
        "value": "8935711001000035687"
    },
    "content": {
        "subscriberOfferingId": "e7fcef24-5c03-41dd-9e33-995b7d6f47e2",
        "myOffer": true
    }
}
],
"pageable": {
    "page": 0,
    "size": 10,
    "totalPages": 1,
    "totalElements": 1
}
}

```

Response Body: Includes Failure(s) (NAK)

```

{
    "bulk": [
        {
            "errorCode": "AUTH_1013",
            "errorMessage": "You are not allowed to detach parent customer plans from your own SIM card",
            "requestId": "",
            "subscriberIdentifiers": {
                "type": "IMSI",
                "value": "222013090961963"
            }
        }
    ]
}

```

```

    },
    "content": {
      "subscriberOfferingId": "4543dedb-cce7-4bee-89f3-7af1447927e6",
      "myOffer": false
    }
  }
],
"pageable": {
  "page": 0,
  "size": 10,
  "totalPages": 1,
  "totalElements": 1
}
}

```

6.12 Bulk Attach Subscriber Package

The Bulk Attach Subscriber Package API is used to attach a package to multiple subscribers in a single call. The system allows a customer to attach a 'Sell Package' to the subscribers of their sub-customers, or to attach a package created by their parent customer ('Buy Package') to its own subscribers in a self-service manner.

NOTE: The self-service attach mode is permitted only if the parent customer has granted permission to the specific sub-customer by enabling the 'allowOfferDelegation' flag.

Method	Path
POST	/api/v2/bulk/subscriber/package/attach

6.12.1 Eligibility

The requestor is eligible to attach a package to their sub-customers' subscribers. However, they are not allowed to attach a package to their own subscribers unless the requestor's parent customer:

- Grants permission by enabling the 'allowOfferDelegation' parameter.
- Assigns at least one package to the requestor using the 'eligibleSubAccountIds' attribute when creating or modifying a package.

6.12.2 API Request

Request Structure

Parameter	Type	M/O/CM	Description
bulk	Object	M	Array of the main request body object.

Bulk

Parameter	Type	M/O/CM	Description
subscriberIdentifiers	Object	M	Subscriber unique keys object; defines the search criteria.
content	Object	M	Main elements container object.

subscriberIdentifiers

Parameter	Type	M/O/CM	Description
type	String	M	Defines the search criteria. Valid type ENUMs are: 'IMSI', 'ICCID', 'MSISDN', 'IMEI', 'IMEISV'.
value	String	M	Type value. IMSI, ICCID, MSISDN, IMEI, or IMEISV number.

Content

Parameter	Type	M/O/CM	Description
packageId	UUID	M	Package catalog ID.
myPackage	Boolean	O	<p>Determines whether to attach one of the customer's packages (Sell Package) to sub-account subscribers or one of the customer's parent packages (Buy Packages) to own subscribers.</p> <ul style="list-style-type: none"> ○ True = Request to attach a parent package (Buy Package) to own subscribers. This 'self-service' functionality is allowed only if the sub-customer has been defined by its parent customer

Parameter	Type	M/O/CM	Description
			<p>as allowed to delegate parent customer packages (allow_offer_delegation = true).</p> <ul style="list-style-type: none"> False = Request to attach one of the customer's packages (Sell Packages) to sub-account subscribers (normal operation). <p>Default if not provided is 'false'.</p>

6.12.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
bulk	Object	M	Array of the main response body object.
pageable	Object	O	Paging information object. Displayed when an API call is successful. For a failure, it will be empty.

Bulk

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure detailed description.
requestId	UUID	CM	Request instance ID. To be used by external systems to query the call (operation) status, whether in progress, successful, or failed. Displayed when an API call is successful. For a failure, it will be empty.
subscriberPackageId	UUID	M	Offer instance attached to the subscriber.
subscriberIdentifiers	Object	M	Subscriber unique keys object; defines the search criteria.
content	Object	M	Main response body object. Reflects a single node of the original request.

subscriberIdentifiers

Parameter	Type	M/O/CM	Description
type	String	M	Defines the search criteria. Valid type ENUMs are: 'IMSI', 'ICCID', 'MSISDN', 'IMEI', 'IMEISV'.
value	String	M	Type value. IMSI, ICCID, MSISDN, IMEI, or IMEISV number.

Content

Parameter	Type	M/O/CM	Description
packageId	UUID	M	Package catalog ID.
myPackage	Boolean	O	<p>Determines whether to attach one of the customer's packages (Sell Package) to sub-account subscribers or one of the customer's parent packages (Buy Packages) to own subscribers.</p> <ul style="list-style-type: none"> ○ True = Request to attach a parent package (Buy Package) to own subscribers. This 'self-service' functionality is allowed only when the sub-customer has been defined by its parent customer as allowed to delegate parent customer packages (allow_offer_delegation = true). ○ False = Request to attach one of the customer's packages (Sell Packages) to sub-account subscribers (normal operation). <p>Default if not provided is 'false'.</p>

Pageable

Parameter	Type	M/O/CM	Description
page	Numeric	M	Page number.
size	Numeric	M	Page size. Number of requested elements per page.
totalPages	Numeric	M	Total amount of available pages per requested page size.
totalElements	Numeric	M	Total amount of retrieved elements.

6.12.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible per each of the 'Bulk' array elements:

Code	Message
GLOBAL_1001	Service unavailable. Please try again.
SUBSCRIBER_1058	Failed to attach package.
AUTH_1019	You are not allowed to attach parent customer package to your own SIM cards.

6.12.5 Examples

Request Body

```
{
  "bulk": [
    {
      "subscriberIdentifiers": {
        "type": "IMSI",
        "value": "222013090961859"
      },
      "content": {
        "packageId": "4543dedb-cce7-4bee-89f3-7af1447927e6",
        "myPackage": false
      }
    },
    {
      "subscriberIdentifiers": {
        "type": "ICCID",
        "value": "8935711001000034535"
      },
      "content": {
        "packageId": "e7fcef24-5c03-41dd-9e33-995b7d6f47e2",
        "myPackage": false
      }
    }
  ]
}
```

Response Body Full Success ACK

```
{
  "bulk": [
    {
      "errorCode": "",
      "errorMessage": "",
      "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370",
      "subscriberPackageId": "ab74dfe6-8e7f-4b45-a42b-14460913b459",
      "subscriberIdentifiers": {
        "type": "IMSI",
        "value": "222013090961963"
      },
      "content": {
        "packageId": "4543dedb-cce7-4bee-89f3-7af1447927e6",
        "myPackage": false
      }
    },
    {
      "errorCode": "",
      "errorMessage": "",
      "requestId": "7e74dce6-8eef-4c86-a4bb-1a860913c271",
      "subscriberPackageId": "bb64dfd6-2e1f-4a25-b32b-13461943c425",
      "subscriberIdentifiers": {
        "type": "ICCID",
        "value": "8935711001000035687"
      },
      "content": {
        "packageId": "e7fcef24-5c03-41dd-9e33-995b7d6f47e2",
        "myPackage": true
      }
    }
  ]
}
```

```
    }  
  ],  
  "pageable": {  
    "page": 0,  
    "size": 10,  
    "totalPages": 1,  
    "totalElements": 1  
  }  
}
```

Response Body Includes Failure NAK

```
{  
  "bulk": [  
    {  
      "errorCode": "AUTH_1019",  
      "errorMessage": "You are not allowed to attach parent  
customer package to your own SIM cards",  
      "requestId": "",  
      "subscriberIdentifiers": {  
        "type": "IMSI",  
        "value": "222013090961963"  
      },  
      "content": {  
        "packageId": "e7fcef24-5c03-41dd-9e33-995b7d6f47e2",  
        "myPackage": true  
      }  
    }  
  ],  
  "pageable": {  
    "page": 0,  
    "size": 10,  
    "totalPages": 1,  
    "totalElements": 1  
  }  
}
```



```

    "size": 10,
    "totalPages": 1,
    "totalElements": 1
  }
}

```

6.13 Bulk Detach Subscriber Package

The Bulk Detach Subscriber Package API is used to detach existing packages from multiple subscribers in a single call. The system allows detaching a customer package ('Sell Package') from sub-customers' subscribers in a standard manner, or detaching a package created by the parent customer ('Buy Package') from its own subscribers in a self-service manner. The use of the self-service detach mode is permitted only if the parent customer has granted permission to the specific sub-customer by enabling the 'allowOfferDelegation' flag and if the sub-customer is listed in the 'eligibleSubAccountIds' attribute of the attached package. Detachment is a soft deletion; however, once executed, it cannot be recovered. If required, the (Bulk) Attach Subscriber Offer API should be used.

Method	Path
POST	/api/v2/bulk/subscriber/package/detach

6.13.1 Eligibility

The requestor is eligible to detach a package from their sub-customers' subscribers. However, they are not allowed to detach a package from their own subscribers unless the requestor's parent customer:

- Has granted permission by enabling the 'allowOfferDelegation' parameter.
- Has included them in the attached package's 'eligibleSubAccountIds' attribute.

6.13.2 API Request

Request Structure

Parameter	Type	M/O/CM	Description
bulk	Object	M	Array of the main request body object.

Bulk

Parameter	Type	M/O/CM	Description
subscriberIdentifiers	Object	M	Subscriber unique keys object; defines the search criteria.
content	Object	M	Main elements container object.

subscriberIdentifiers

Parameter	Type	M/O/CM	Description
type	String	M	Defines the search criteria. Valid type ENUMs are: 'IMSI', 'ICCID', 'MSISDN', 'IMEI', 'IMEISV'.
value	String	M	Type value. IMSI, ICCID, MSISDN, IMEI, or IMEISV number.

Content

Parameter	Type	M/O/CM	Description
packageId	UUID	M	Catalog package ID.
myPackage	Boolean	O	<p>Determines whether to detach one of the customer's packages (Sell Packages) from sub-account subscribers or one of the customer's parent packages (Buy Packages) from own subscribers.</p> <ul style="list-style-type: none"> True = Request to detach a parent package (my package) from own subscribers. This 'self-service' functionality is allowed only if the sub-customer has been defined by its parent customer as allowed to delegate parent customer packages (allow_offer_delegation = true). False = Request to detach one of the customer's packages (Sell Packages) from sub-account subscribers (normal operation). <p>Default if not provided is 'false'.</p>

6.13.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
bulk	Object	M	Array of the main response body object.
pageable	Object	O	Paging information object. Displayed when an API call is successful. For a failure, it will be empty.

Bulk

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure detailed description.
requestId	UUID	CM	Request instance ID. To be used by external systems to query the call (operation) status, whether in progress, successful, or failed. Displayed when an API call is successful. For a failure, it will be empty.
subscriberIdentifiers	Object	M	Subscriber unique keys object; defines the search criteria.
content	Object	M	Main response body object. Reflects a single node of the original request.

subscriberIdentifiers

Parameter	Type	M/O/CM	Description
type	String	M	Defines the search criteria. Valid type ENUMs are: 'IMSI', 'ICCID', 'MSISDN', 'IMEI', 'IMEISV'.
value	String	M	Type value. IMSI, ICCID, MSISDN, IMEI, or IMEISV number.

Content

Parameter	Type	M/O/CM	Description
packageId	UUID	M	Catalog package ID.
myOffer	Boolean	M	Determines whether to attach one of the customer's plans (Sell Plans) to sub-account subscribers or one of the customer's parent plans (Buy Plans) to own subscribers.

Parameter	Type	M/O/CM	Description
			<ul style="list-style-type: none"> ○ True = Request to attach a parent plan (Buy Plan) to own subscribers. ○ False = Request to attach one of the customer's plans (Sell Plan) to sub-account subscribers (normal operation). <p>Default if not provided is 'false'.</p>

Pageable

Parameter	Type	M/O/CM	Description
page	Numeric	M	Page number.
size	Numeric	M	Page size. Number of requested elements per page.
totalPages	Numeric	M	Total amount of available pages per requested page size.
totalElements	Numeric	M	Total amount of retrieved elements.

6.13.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible per each of the 'Bulk' array elements:

Code	Message
GLOBAL_1001	Service unavailable. Please try again.
SUBSCRIBER_1059	Failed to detach a package.
AUTH_1020	You are not allowed to detach parent customer packages from your own SIM cards.

6.13.5 Examples

Request Body

```
{
  "bulk": [
    {
      "subscriberIdentifiers": {
        "type": "IMSI",
```

```

        "value": "222013090961859"
      },
      "content": {
        "packageId": "4543dedb-cce7-4bee-89f3-7af1447927e6"
      }
    },
    {
      "subscriberIdentifiers": {
        "type": "ICCID",
        "value": "8935711001000034535"
      },
      "content": {
        "packageId": "e7fcef24-5c03-41dd-9e33-995b7d6f47e2",
        "myPackage": true
      }
    }
  ]
}

```

Response Body Success ACK

```

{
  "bulk": [
    {
      "errorCode": "",
      "errorMessage": "",
      "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370",
      "subscriberIdentifiers": {
        "type": "IMSI",
        "value": "222013090961963"
      },
    },
  ],
}

```

```

        "content": {
            "subscriberOfferingId": "4543dedb-cce7-4bee-89f3-7af1447927e6",
            "myOffer": false
        }
    },
    {
        "errorCode": "",
        "errorMessage": "",
        "requestId": "7e74dce6-8eef-4c86-a4bb-1a860913c271",
        "subscriberIdentifiers": {
            "type": "ICCID",
            "value": "8935711001000035687"
        },
        "content": {
            "subscriberOfferingId": "e7fcef24-5c03-41dd-9e33-995b7d6f47e2",
            "myOffer": true
        }
    }
],
"pageable": {
    "page": 0,
    "size": 10,
    "totalPages": 1,
    "totalElements": 1
}
}

```

Response Body Includes Failure\s NAK

```
{
```

```

    "bulk": [
      {
        "errorCode": "AUTH_1013",
        "errorMessage": "You are not allowed to detach parent
customer plans from your own SIM card",
        "requestId": "",
        "subscriberIdentifiers": {
          "type": "IMSI",
          "value": "222013090961963"
        },
        "content": {
          "subscriberOfferingId": "4543dedb-cce7-4bee-89f3-
7af1447927e6",
          "myOffer": false
        }
      }
    ],
    "pageable": {
      "page": 0,
      "size": 10,
      "totalPages": 1,
      "totalElements": 1
    }
  }
}

```

6.14 Bulk Replace Subscriber Package

This API allows the replacement of an existing package for multiple subscribers in a single call. The process is conducted as a transaction: it first detaches the existing package and then attaches the new package. If the attachment of the new package fails, the detachment will not take effect.

The system enables users to replace packages ('Sell Package') for their sub-customers' subscribers and to replace packages created by their parent customer ('Buy Package') for

their own subscribers in a self-service mode. However, self-service package replacement is permitted only if the parent customer has granted permission to the specific sub-customer by activating the 'allowOfferDelegation' flag.

NOTE: The system enables the user to replace an attached package with the same one.

Method	Path
POST	api/v2/bulk/subscriber/package/replace

6.14.1 Eligibility

The requestor is eligible to replace packages for sub-account subscribers. It is not permitted to replace packages for their own subscribers unless the requestor parent customer:

- Has granted permission by enabling the 'allowOfferDelegation' parameter.
- Has included the requestor in the attached package's 'eligibleSubAccountIds' attribute.
- Has assigned at least one package to the requestor.

6.14.2 API Request

Request Structure

Parameter	Type	M/O/CM	Description
bulk	Object	M	Array of main request body objects.

Bulk

Parameter	Type	M/O/CM	Description
subscriberIdentifiers	Object	M	Subscriber unique keys object, defining the search criteria.
content	Object	M	Main elements container object.

subscriberIdentifiers

Parameter	Type	M/O/CM	Description
type	String	M	Defines the search criteria. Valid type ENUMs are: 'IMSI', 'ICCID', 'MSISDN', 'IMEI', 'IMEISV'.
value	String	M	Type value. IMSI or ICCID or MSISDN or IMEI or IMEISV number.

Content

Parameter	Type	M/O/CM	Description
currentPackageId	UUID	M	Existing catalog package ID
newPackageId	UUID	M	New requested catalog package ID
myPackage	Boolean	O	<p>Determines whether to detach one of the customer's packages (Sell Packages) from sub-account subscribers or one of the customer's parent packages (Buy Packages) from own subscribers.</p> <ul style="list-style-type: none"> True = Request to detach a parent package (my package) from own subscribers. This 'self-service' functionality is allowed only in cases where the sub-customer has been defined by its parent customer as allowed to delegate parent customer packages [allow_offer_delegation = true]. False = Request to detach one of the customer's packages (Sell Packages) from sub-account subscribers (normal operation). The default value, if not provided, is 'false'.

6.14.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
bulk	Object	M	Array of main response body objects.
pageable	Object	O	Paging information object. Displayed when an API call is successful. For a failure, it will be empty.

Bulk

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure detailed description.
requestId	UUID	CM	Request instance ID. To be used by external systems to query the call (operation) status, whether in progress, successful, or failed.

Parameter	Type	M/O/CM	Description
			Displayed when an API call is successful. For a failure, it will be empty.
subscriberIdentifiers	Object	M	Subscriber unique keys object, defines the search criteria.
content	Object	M	Main response body object. Reflects a single node of the original request.

subscriberIdentifiers

Parameter	Type	M/O/CM	Description
type	String	M	Defines the search criteria. Valid type ENUMs are: 'IMSI', 'ICCID', 'MSISDN', 'IMEI', 'IMEISV'.
value	String	M	Type value. IMSI or ICCID or MSISDN or IMEI or IMEISV number.

content

Parameter	Type	M/O/CM	Description
currentPackageId	UUID	M	Existing catalog package ID
newPackageId	UUID	M	New requested catalog package ID
myPackage	Boolean	O	<p>Determines whether to detach one of the customer's packages (Sell Packages) from sub-account subscribers or one of the customer's parent packages (Buy Packages) from own subscribers.</p> <ul style="list-style-type: none"> True = Request to detach a parent package (my package) from own subscribers. This 'self-service' functionality is allowed only in cases where the sub-customer has been defined by its parent customer as allowed to delegate parent customer packages (allow_offer_delegation = true). False = Request to detach one of the customer's packages (Sell Packages) from sub-account subscribers (normal operation) The default value, if not provided, is 'false'.

Pageable

Parameter	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

6.14.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible per each of the 'Bulk' array elements.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
SUBSCRIBER_1060	Failed to replace packages
AUTH_1021	You are not eligible to use the self-service mode

6.14.5 Examples

Request Body

```
{
  "bulk": [
    {
      "subscriberIdentifiers": {
        "type": "IMSI",
        "value": "222013090961859"
      },
      "content": {
        "currentPackageId": "4543dedb-cce7-4bee-89f3-7af1447927e6",
        "newPackageId": "7c903dbc-7b6a-4ff4-91f8-96fd38feaa62"
      }
    },
    {
      "subscriberIdentifiers": {
```

```

        "type": "ICCID",
        "value": "8935711001000034535"
    },
    "content": {
        "currentPackageId": "e7fcef24-5c03-41dd-9e33-995b7d6f47e2",
        "newPackageId": "9a00e612-b17f-492b-a1c9-bf0bf7b3156b",
        "myPackage": true
    }
}
]
}

```

Response Body – Full Success:

Response Body Full Success ACK

```

{
    "bulk": [
        {
            "errorCode": "",
            "errorMessage": "",
            "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370",
            "subscriberIdentifiers": {
                "type": "IMSI",
                "value": "222013090961963"
            },
            "content": {
                "currentPackageId": "4543dedb-cce7-4bee-89f3-7af1447927e6",
                "newPackageId": "7c903dbc-7b6a-4ff4-91f8-96fd38feaa62",
            }
        }
    ]
}

```

```

        "myPackage": false
    },
    {
        "errorCode": "",
        "errorMessage": "",
        "requestId": "7e74dce6-8eef-4c86-a4bb-1a860913c271",
        "subscriberIdentifiers": {
            "type": "ICCID",
            "value": "8935711001000035687"
        },
        "content": {
            "currentPackageId": "e7fcef24-5c03-41dd-9e33-995b7d6f47e2",
            "newPackageId": "9a00e612-b17f-492b-a1c9-bf0bf7b3156b",
            "myPackage": true
        }
    }
],
"pageable": {
    "page": 0,
    "size": 10,
    "totalPages": 1,
    "totalElements": 1
}
}

```

Response Body Includes Failure NAK

```

{
    "bulk": [

```

```

{
  "errorCode": "AUTH_1021",
  "errorMessage": "You are not eligible to use the self-
service mode",
  "requestId": "",
  "subscriberIdentifiers": {
    "type": "IMSI",
    "value": "222013090961963"
  },
  "content": {
    "currentPackageId": "e7fcef24-5c03-41dd-9e33-
995b7d6f47e2",
    "newPackageId": "9a00e612-b17f-492b-a1c9-
bf0bf7b3156b",
    "myPackage": true
  }
},
],
"pageable": {
  "page": 0,
  "size": 10,
  "totalPages": 1,
  "totalElements": 1
}
}

```

6.15 Bulk Top-Up

This API is used to add money or allowances to a prepaid balance of a rate plan (individual offer) for multiple subscribers in a single call.

The customer is not allowed to top-up a plan of the RATE type.

This is a Table Caption

HTTP URL	
POST	/api/v2/bulk/subscriber/offer/topup

6.15.1 Eligibility

The requesting customer is allowed to top-up sub customers only. It is not allowed to top-up itself or top-up any other sub customer level.

6.15.2 API Request

Request Structure

Parameter	Type	M/O/CM	Description
bulk	Object	M	Array of main request body object.

Bulk data objects

Element	Type	M/O/CM	Description
subscriberIdentifiers	Object	M	Subscriber unique keys object, defines the search criteria
content	Object	M	Main elements container object

subscriberidentifiers data objects

Element	Type	M/O/CM	Description
type	String	M	Define the search criteria. ENUMs: IMSI, ICCID, MSISDN, IMEI
value	String	M	Type value. IMSI or ICCID or MSISDN or IMEI number.

Content data objects

Parameter	Type	M/O/CM	Description
subscriberOfferingId	UUID	M	Subscriber offer ID
charge	Decimal	M	Top-up cost. Charge of post-paid balance
currency	String	M	Monetary currency. For example, USD, GBP, EUR
expirationDate	Date	O	Determines the requested date as per the selected expirationType set when plan created. Can be used only if the expirationType parameter has been set to FIXED . Ignored for other expirationType settings.
allowance	Object	CM	Array of allowance per serviceMandatory for plan of type USAGE' Ignored if filled in for plan of type MONEY

Allowance data objects

Element	Type	M/O/CM	Description
currency	String	M	Allowance: SMS: (Number of) SMSs Data: KB, MB, GB
value	Decimal	M	Balance amount

6.15.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
bulk	Object	M	Array of main response body object.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Bulk data objects

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.

Parameter	Type	M/O/CM	Description
messageId	UUID	CM	Request instance ID. To be used by external systems to query the call (operation) status: In progress Successful Failed. Displayed when an API call was successful. For a failure, it will be empty.
subscriberIdentifiers	Object	M	Subscriber unique keys object, defines the search criteria.
content	Object	O	Main response body object that reflects a single node of the original request.

subscriberidentifiers data objects

Parameter	Type	M/O/CM	Description
type	String	M	Define the search criteria. ENUMs: IMSI, ICCID, MSISDN, IMEI
value	String	M	Type value. IMSI or ICCID or MSISDN or IMEI number.

Content data objects

Parameter	Type	M/O/CM	Description
subscriberOfferingId	UUID	M	Subscriber offer ID
charge	Decimal	M	Top-up cost. Charge of post-paid balance
currency	String	M	Monetary currency. For example, USD, GBP, EUR
expirationDate	Date	O	Newly requested expiration date as per the selected expirationType set when plan created.
allowance	Object	CM	Array of allowance per service. Mandatory for plan of type USAGE. Ignored if filled in for plan of type MONEY.

Allowance data objects

Element	Type	M/O/CM	Description
Currency	String	M	Allowance: SMS: (Number of) SMSs Data: KB, MB, GB
value	Decimal	M	Balance amount

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

6.15.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
SUBSCRIBER_1002	Subscriber does not exist
SUBSCRIBER_1009	Top-up failure. Balance not found
SUBSCRIBER_1013	Top-up failure. It is not allowed to top-up to pool plan using this API
SUBSCRIBER_1033	Ambiguous call. You have multiple offers. Please specify the requested offer ID

6.15.5 Examples

Request Body

<pre>{ "bulk": [</pre>

```
{
  "subscriberIdentifiers": {
    "type": "IMSI",
    "value": "222013090961859"
  },
  "content": {
    "subscriberOfferingId": "e7fcef24-5c03-41dd-9e33-995b7d6f47b5",
    "charge": 20.5,
    "currency": "EUR",
    "expirationDate": "25042023",
    "allowance": [
      {
        "currency": "SMS",
        "value": 50
      }
    ]
  }
},
{
  "subscriberIdentifiers": {
    "type": "ICCID",
    "value": "8935711001000034535"
  },
  "content": {
    "subscriberOfferingId": "ff74dca6-8e7f-4b85-a42b-13860913b370",
    "charge": 20.5,
    "currency": "EUR",
    "expirationDate": "25042023",
```

```
        "allowance": [  
            {  
                "currency": "MB",  
                "value": 20  
            }  
        ]  
    }  
}
```

Response Body: Full Success (ACK)

```
{  
    "bulk": [  
        {  
            "errorCode": "",  
            "errorMessage": "",  
            "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370",  
            "subscriberIdentifiers": {  
                "type": "IMSI",  
                "value": "222013090961963"  
            },  
            "content": {  
                "subscriberOfferingId": "e7fcef24-5c03-41dd-9e33-  
995b7d6f47b5",  
                "charge": 20.5,  
                "currency": "EUR",  
                "expirationDate": "25042023",  
            }  
        }  
    ]  
}
```

```

        "allowance": [
            {
                "currency": "SMS",
                "value": 50
            }
        ]
    },
    {
        "errorCode": "",
        "errorMessage": "",
        "requestId": "7e74dce6-8eef-4c86-a4bb-1a860913c271",
        "subscriberIdentifiers": {
            "type": "ICCID",
            "value": "8935711001000035687"
        },
        "content": {
            "subscriberOfferingId": "ff74dca6-8e7f-4b85-a42b-13860913b370",
            "charge": 20.5,
            "currency": "EUR",
            "expirationDate": "25042023",
            "allowance": [
                {
                    "currency": "MB",
                    "value": 20
                }
            ]
        }
    }
}

```

```
],  
  "pageable": {  
    "page": 0,  
    "size": 10,  
    "totalPages": 1,  
    "totalElements": 1  
  }  
}
```

Response Body: Includes Failure(s) (NAK)

```
{  
  "bulk": [  
    {  
      "errorCode": "SUBSCRIBER_1009",  
      "errorMessage": "Top-up failure. Balance not found",  
      "requestId": "",  
      "subscriberIdentifiers": {  
        "type": "IMSI",  
        "value": "222013090961963"  
      },  
      "content": {  
        "subscriberOfferingId": "ff74dca6-8e7f-4b85-a42b-  
13860913b370",  
        "charge": 20.5,  
        "currency": "EUR",  
        "expirationDate": "25042023",  
        "allowance": [  
          {
```

```
        "currency": "MB",
        "value": 20
      }
    ]
  }
}
],
"pageable": {
  "page": 0,
  "size": 10,
  "totalPages": 1,
  "totalElements": 1
}
}
```

6.16 Bulk Subscriber Steering

Bulk Modify Subscriber Steering API is used to change steering tree of a subscriber per given provider of multiple subscribers in a single call.

HTTP URL	
PUT	api/v2/bulk/subscriber/steering

Provided {type} must be of 'imsi' type. Any other input type (i.e., 'iccid', 'msisdn', 'imei') will be rejected.

6.16.1 Eligibility

The Requestor is eligible to request a steering tree change for his own subscribers..

6.16.2 API Request

Request Structure

Parameter	Type	M/O/C M	Description
bulk	Object	M	Array of main request body object.
subscriberIdentifiers	Object	M	Main elements container object

Subscriber Identifiers

Parameter	Type	M/O/C M	Description
type	String	M	Define the search criteria. Only valid type ENUM is: 'IMSI'
value	String	M	Type value. IMSI number.

Content

Parameter	Type	M/O/C M	Description
steering	Numeric	M	Requested steering tree ID.

6.16.3 API Response

Response Structure

Parameter	Type	M/O/C M	Description
bulk	Object	M	Array of main response body object.
pageable	Object	O	Paging information object. Displayed when an API call was successful. For a failure it will be empty.

Bulk

Parameter	Type	M/O/C M	Description
errorCode	String	O	Failure code
errorMessage	String	O	Failure detailed description
requestId	UUID	CM	Request instance ID. To be used by external systems to query the call (operation) status, whether in progress, successful or failed. Displayed when an API call was successful. For a failure it will be empty.
subscriberIdentifiers	Object	M	Subscriber unique keys object, defines the search criteria.
content	Object	M	Main response body object. Reflects a single node of original request.

Subscriber Identifiers

Parameter	Type	M/O/C M	Description
type	String	M	Defines the search criteria. Valid type ENUM is: 'IMSI'.
value	String	M	Type value. IMSI number.

Content

Parameter	Type	M/O/C M	Description
steering	Numeric	M	Requested steering tree ID.

Pageable Data Objects

Element	Type	M/O/C M	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

6.16.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
GLOBAL_1002	Subscriber does not exist

6.16.5 Examples

Request Body

```
{
  "bulk": [
    {
      "subscriberIdentifiers": {
        "type": "IMSI",
        "value": "222013090961859"
      },
      "content": {
        "steering": 10
      }
    },
    {
      "subscriberIdentifiers": {
        "type": "IMSI",
        "value": "222013090966359"
      },
      "content": {
```

```
        "steering": 2504
      }
    }
  ]
}
```

Response Body: Success ACK (includes failure NAK)

```
{
  "bulk": [
    {
      "errorCode": "SUBSCRIBER_1002",
      "errorMessage": "Subscriber does not exist",
      "requestId": "",
      "subscriberIdentifiers": {
        "type": "IMSI",
        "value": "222013090961963"
      },
      "content": {
        "steering": 2504
      }
    }
  ],
  "pageable": {
    "page": 0,
    "size": 10,
    "totalPages": 1,
    "totalElements": 1
  }
}
```

```

    }
  }

```

Response Body: Failure NAK

```

{
  "errorCode": "SUBSCRIBER_1002",
  "errorMessage": "Subscriber does not exist",
  "content": "",
  "pageable": ""
}

```

6.17 Bulk Modify Subscriber Status

This API is used to change the LCP status of multiple Subscribers in the platform with a single API call.

The request should contain only elements that require modification. Empty elements denote overriding of the existing value with a NULL value.

HTTP URL	
PUT	/api/v2/bulk/subscriber/status

6.17.1 Eligibility

The Requester is eligible to request a status change for its own subscribers or for its sub-customers' subscribers.

6.17.2 API Request

Request Structure

Parameter	Type	M/O/CM	Description
bulk	Object	M	Array of main request body object.

Bulk data objects

Element	Type	M/O/CM	Description
subscriberIdentifiers	Object	M	
content	Object	M	Main elements container objectSubscriber unique keys object, defines the search criteria.

subscriberidentifiers data objects

Element	Type	M/O/CM	Description
type	String	M	Define the search criteria: ENUMs: IMSI, ICCID, MSISDN, IMEI
value	String	M	Type value. IMSI or ICCID or MSISDN or IMEI number.

Content data objects

Parameter	Type	M/O/CM	Description
status	String	M	Request to change the subscriber's current status to a new status value: ENUM valid values: ACTIVE, SUSPEND

6.17.3 API Response

Response Structure

Parameter	Type	M/O/CM	Description
bulk	Object	M	Array of main response body object.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Bulk data objects

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
requestId	UUID	CM	<p>Request instance ID. To be used by external systems to query the call (operation) status:</p> <ul style="list-style-type: none"> ○ In progress ○ Successful ○ Failed. <p>Displayed when an API call was successful. For a failure, it will be empty.</p>
subscriberIdentifiers	Object	M	Subscriber unique keys object, defines the search criteria.
content	Object	O	Main response body object that reflects a single node of the original request.

subscriberidentifiers data objects

Parameter	Type	M/O/CM	Description
type	String	M	Define the search criteria: ENUMs: IMSI, ICCID, MSISDN, IMEI
value	String	M	Type value. IMSI or ICCID or MSISDN or IMEI number.

Content data objects

Element	Type	M/O/CM	Description
status	String	M	Newly requested status

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page

Element	Type	M/O/CM	Description
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

6.17.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
SUBSCRIBER_1002	Subscriber does not exist
SUBSCRIBER_1008	Failed to update subscriber status

6.17.5 Examples

Request Body

```
{
  "bulk": [
    {
      "subscriberIdentifiers": {
        "type": "IMSI",
        "value": "222013090961859"
      },
      "content": {
        "status": "ACTIVE"
      }
    },
    {
      "subscriberIdentifiers": {
        "type": "ICCID",
        "value": "8935711001000034535"
      }
    }
  ]
}
```



```
    },  
    "content": {  
      "status": "SUSPEND"  
    }  
  }  
]  
}
```

Response Body: Full Success ACK

```
{  
  "bulk": [  
    {  
      "errorCode": "",  
      "errorMessage": "",  
      "requestId": "ff74dca6-8e7f-4b85-a42b-13860913b370",  
      "subscriberIdentifiers": {  
        "type": "IMSI",  
        "value": "222013090961859"  
      },  
      "content": {  
        "status": "ACTIVE"  
      }  
    },  
    {  
      "errorCode": "",  
      "errorMessage": "",  
      "requestId": "7e74dce6-8eef-4c86-a4bb-1a860913c271",  
      "subscriberIdentifiers": {
```

```
        "type": "ICCID",
        "value": "8935711001000034535"
    },
    "content": {
        "status": "SUSPEND"
    }
}
],
"pageable": {
    "page": 0,
    "size": 10,
    "totalPages": 1,
    "totalElements": 1
}
}
```

Response Body: Includes Failure(s) (NAK)

```
{
    "bulk": [
        {
            "errorCode": "SUBSCRIBER_1008",
            "errorMessage": "Failed to update subscriber status",
            "requestId": "",
            "subscriberIdentifiers": {
                "type": "IMSI",
                "value": "222013090961859"
            },
        },
    ],
}
```

```
        "content": {  
            "status": "ACTIVE"  
        }  
    },  
    ],  
    "pageable": {  
        "page": 0,  
        "size": 10,  
        "totalPages": 1,  
        "totalElements": 1  
    }  
}
```

7 Global APIs

7.1 Get Country List

This API is used to retrieve a list of all countries available for use in the system.

HTTP URL	
GET	/api/v2/global/country

7.1.1 API Request

7.1.2 Request Structure

This API has no request structure.

API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
name	String	M	Country name
countryCode	String	M	ISO alpha-3 Country Code

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

7.1.3 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again

7.1.4 Examples

Request Body

```
{  
}
```

Response Body: Success ACK

```
{  
  "errorCode": "",  
  "errorMessage": "",  
  "content": [  
    {  
      "name": "Australia",  
      "countryCode": "AUS"  
    },  
    {  
      "name": "United States",  
      "countryCode": "USA"  
    },  
    {  
      "name": "Canada",  
      "countryCode": "CAN"  
    },  
    {  
      "name": "Indonesia",  
      "countryCode": "IDN"  
    }  
  ],  
  "pageable": {
```

```
"page": 1,  
"size": 10,  
"totalPages": 1,  
"totalElements": 2  
}  
}
```

Response Body: Failure NAK

```
{  
  "errorCode": "GLOBAL_1001",  
  "errorMessage": "Service unavailable. Please try again",  
  "content": "",  
  "pageable": ""  
}
```

7.2 Get Network List

This API is used to retrieve a list of all network operators in a given country.

HTTP URL	
GET	//api/v2/global/country/{id}/network

{id} represents an ISO Alpha-3 country code.

7.2.1 API Request

This API has no request structure.

7.2.2 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code. .
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
name	String	M	Network Operator name
mcc	String	M	Network Country Code
mnc	String	M	Mobile Network Code
plmn	String	M	Public Land Mobile Network. MCCMNC representation
providerAlias	String	O	[Future referring to eligible providers]

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

7.2.3 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again

7.2.4 Examples

Request Body

```
{  
  
  {  
  }  
}
```

Response Body: Success ACK

```
{
  "errorCode": "",
  "errorMessage": "",
  "content": [
    {
      "name": "AT&T Mobility",
      "mcc": "310",
      "mnc": "380",
      "plmn": "USAAT",
      "providerAlias": ""
    },
    {
      "name": "AT&T Mobility",
      "mcc": "310",
      "mnc": "410",
      "plmn": "USACG",
      "providerAlias": ""
    },
    {
      "name": "AT&T Mobility",
      "mcc": "310",
      "mnc": "150",
      "plmn": "USACP",
      "providerAlias": ""
    },
    {
      "name": "AT&T Mobility",
      "mcc": "310",
```

```
        "mnc": "170",
        "plmn": "USAPB",
        "providerAlias": ""
    },
    {
        "name": "US Cellular",
        "mcc": "310",
        "mnc": "580",
        "plmn": "USAUD",
        "providerAlias": ""
    },
    {
        "name": "US Cellular",
        "mcc": "310",
        "mnc": "589",
        "plmn": "USAUE",
        "providerAlias": ""
    },
    {
        "name": "US Cellular",
        "mcc": "310",
        "mnc": "588",
        "plmn": "USAUF",
        "providerAlias": ""
    },
    {
        "name": "US Cellular",
        "mcc": "311",
        "mnc": "580",
```

```
        "plmn": "USADU",
        "providerAlias": ""
    },
    {
        "name": "US Cellular",
        "mcc": "311",
        "mnc": "589",
        "plmn": "USAEU",
        "providerAlias": ""
    },
    {
        "name": "US Cellular",
        "mcc": "311",
        "mnc": "588",
        "plmn": "USAFU",
        "providerAlias": ""
    }
],
"pageable": {
    "page": 1,
    "size": 10,
    "totalPages": 1,
    "totalElements": 2
}
```

Response Body: Failure NAK

```
{
```

```

    "errorCode": "GLOBAL_1001",
    "errorMessage": "Service unavailable. Please try again",
    "content": "",
    "pageable": ""
  }

```

7.3 Get Request Status V2

This API is used to query the system for a previously sent request and get its status, Succeeded, Failed or Still In Progress.

HTTP URL	
GET	/api/v2/global/call/{id}

{id} is the UUID (requestId) that was provided in the asynchronous response.

7.3.1 Eligibility

The Requester is eligible to request, for API calls, status for own generated request IDs.

7.3.2 API Request

Request Structure

This API has no request structure.

7.3.3 API Response

Response Structure

Parameter	Type	M/O/C M	Description
errorCode	String	O	Failure code.

Parameter	Type	M/O/C M	Description
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content Data Objects

Parameter	Type	M/O/CM	Description
status	String	M	Status of the API call. Valid values: OPEN, SUCCESS, FAILURE, INTERNAL_ERROR.

Pageable Data Objects

Parameter	Type	M/O/C M	Description
page	Numeric	M	Page number
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

7.3.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
GLOBAL_1003	Provided request ID does not exist for your account.

7.3.5 Examples

Request Body

```
{  
}
```

Response Body: Success ACK

```
{  
  "errorCode": "",  
  "errorMessage": "",  
  "content": [  
    {  
      "status": "OPEN"  
    }  
  ],  
  "pageable": {  
    "page": 0,  
    "size": 10,  
    "totalPages": 1,  
    "totalElements": 1  
  }  
}
```

Response Body: Failure NAK

```
{  
  "errorCode": "GLOBAL_1003",  
  "errorMessage": "Provided request ID does not exist for your  
account",
```

```

    "content": "",
    "pageable": ""null
  }

```

7.4 Get Request Status V3

Get Request Status API is used to query the system for previously sent regular or bulk requests and get all its inner requests' status, whether succeeded, failed or still in progress in a single API call.

HTTP URL	
GET	api/v3/global/call/{id}

{id} is either the UUID (Request-Id) that was provided in a regular or in bulk asynchronous response header.

7.4.1 Eligibility

The Requestor is eligible to request for API calls status for its own generated request IDs.

7.4.2 API Request

Request Structure

This API has no request structure.

7.4.3 API Response

Response Structure

Parameter	Type	M/O/C M	Description
errorCode	String	O	Failure code. See list below, under 'Error Codes' section

Parameter	Type	M/O/C M	Description
errorMessage	String	O	Failure detailed description. See list below, under 'Error Codes' section
content	Object	O	Array of main response body object. Displayed when an API call was successful. For a failure it will be empty.
pageable	Object	O	Paging information object. Displayed when an API call was successful. For a failure it will be empty.

Content

Parameter	Type	M/O/C M	Description
requestId	String	M	The 'requestId' UUID that was provided in asynchronous response per a regular event request or per a specific node of the bulk API.
status	String	M	Specific node status of bulk API call. Valid values: OPEN, SUCCESS, FAILURE, INTERNAL_ERROR.

Pageable Data Objects

Parameter	Type	M/O/C M	Description
page	Numer ic	M	Page number
size	Numer ic	M	Page size. Number of requested elements per page
totalPages	Numer ic	M	Total amount of available pages per requested page size
totalElements	Numer ic	M	Total amount of retrieved elements

7.4.4 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again
GLOBAL_1003	Provided request ID does not exist for your account.

7.4.5 Examples

Request Body

```
{  
}
```

Response Body: Success ACK

```
{  
  "errorCode": "",  
  "errorMessage": "",  
  "content": [  
    {  
      "requestId": "77022d89-8a5b-4ecb-a118-334c7ccb3779",  
      "status": "SUCCESS"  
    },  
    {  
      "requestId": "6c4480ea-3f3d-4fa7-9517-34e08902d6f9",  
      "status": "FAILURE"  
    }  
  ],  
  "pageable": {  
    "page": 0,  
    "size": 10,  
    "totalPages": 1,  
    "totalElements": 1  
  }  
}
```

Response Body: Failure NAK

```
{  
  "errorCode": "GLOBAL_1003",  
  "errorMessage": "Provided request ID does not exist for your  
account",  
  "content": "",  
  "pageable": null  
}
```

7.5 Get System Zones

This API is used to retrieve a list of all system zones that exist in the system and are available for use.

HTTP URL	
GET	/api/v2/global/zone

7.5.1 API Request

This API has no request structure.

7.5.2 API Response

Response Structure

Parameter	Type	M/O/CM	Description
errorCode	String	O	Failure code.

Parameter	Type	M/O/CM	Description
errorMessage	String	O	Failure message.
content	Object	O	Array of main response body object displayed when an API call was successful. For a failure, it will be empty.
pageable	Object	O	Paging information object displayed when an API call was successful. For a failure, it will be empty.

Content data objects

Element	Type	M/O/CM	Description
Id	UUID	M	System zone's universal unique identity
name	String	M	System zone name
description	String	O	System zone description
countryCode	String	M	ISO alpha-3 Country Code

Pageable data objects

Element	Type	M/O/CM	Description
page	Numeric	M	Page number

Element	Type	M/O/CM	Description
size	Numeric	M	Page size. Number of requested elements per page
totalPages	Numeric	M	Total amount of available pages per requested page size
totalElements	Numeric	M	Total amount of retrieved elements

7.5.3 Error Codes

In addition to the general success and failure codes, the following error codes are possible.

Code	Message
GLOBAL_1001	Service unavailable. Please try again

7.5.4 Examples

Request Body

```
{
}
```

Response Body: Success ACK

```
{
  "errorCode": "",
  "errorMessage": "",
}
```

```
"content": [  
  {  
    "id": "2a26048b-1ed4-6d74-b094-c7d26522012c",  
    "name": "United States",  
    "description": "System zone - USA",  
    "countryCode": "USA"  
  },  
  {  
    "id": "1b15048b-1ed4-4d34-a074-c7e26520e12a",  
    "name": "Canada",  
    "description": "System zone - Canada",  
    "countryCode": "CAN"  
  },  
  {  
    "id": "40007bac-a0bc-4e43-a955-1207e7d546dd",  
    "name": "United Kingdom",  
    "description": "System zone - United Kingdom",  
    "countryCode": "GBR"  
  }  
],  
"pageable": {  
  "page": 1,  
  "size": 10,  
  "totalPages": 1,  
  "totalElements": 2  
}  
}
```

Response Body: Failure NAK

```
{  
  "errorCode": "GLOBAL_1001",  
  "errorMessage": "Service unavailable. Please try again",  
  "content": "",  
  "pageable": ""  
}
```

8 Glossary

A

Access Fee

A monthly payment for usage of an active IMSI. The Access Fee price may vary depending on the IMSI Service Provider.

Account

A hierarchical system entity representing a Customer or Provider.

Account Aggregation

The process of combining data usage from multiple entities (e.g. SIMs) from the same account.

Account Hierarchy

Structure where accounts are organized in a hierarchical manner, with parent and child accounts.

Account ID

The ID of the account defined in the system.

Account Rate Plan

A plan type that charges customers based on account rates.

Account Restrictions

Limitations or permissions applied to an account when created

Accumulative Pool Plan

A plan of the Pool type where additional costs and quota are added with each new SIM added to the Pool.

Activation Type

The method by which the plan package is activated on a SIM to determine how SIMs are charged.

Active SIM

An Active SIM is a SIM card that is currently enabled and available for use. It can connect to the network, transmit data, and perform its intended functions.

Activity Indication

Methods of determining activity for charging purposes

Adjustment Fees

Charges applied for specific actions such as top-up, represented by GL Codes, used for accounting and tracking additional charges outside regular subscription and usage fees.

Alert

A notification triggered by a rule when certain conditions are met, typically indicating a predefined event or threshold has been reached.

Allocated SIMs

Number of SIMs assigned to the plan.

Allowance

The maximum amount of data or number of SMS allowed for a specific period.

APN

Access Point Name (APN) is a gateway between a GSM, GPRS, 3G, or 4G mobile network and another computer network, usually the public Internet. The APN needs to be configured on the IoT device.

Assigned SIMs

SIM cards attached to the plan.

Audit Trail

Records and log all actions performed by users within the platform, including details such as timestamps, usernames, categories, types, and statuses of actions

Availability Zone

Zones assigned to the plan, limiting device usage to specific locations and operators.

Avatar

Profile picture associated with a user account.

B**Batch Operation**

A process that enables users to perform and manage SIM actions for multiple SIMs through CSV file uploads.

Billing & Invoices Module

A module that enables manual billing adjustments for account transactions and downloading of account invoices to track payments.

Billing Cycle

The period over which SIM usage is measured for billing purposes.

Binding Type

Specifies the scope or context of a rule to determine how the rule is applied, such as to an account, SIM, account aggregation, sell plan, or buy plan.

Buy Plan

A plan created by the parent account for its sub accounts.

C**Calculation Type**

Indicates whether the threshold for the rule is based on a fixed amount or a percentage of the pre-paid money deposit.

Cascade Effect

A process in which the creation of a new sub-account (e.g., "C") under an existing sub-account (e.g., "B") prevents the new sub-account from accessing connectivity rates. This effect ensures consistent access control throughout all levels of sub-accounts.

Charge by Active

Method of charging based on active devices.

Charge DR Records

Records charges on SIMs with pre-paid plans, including details such as offer, charge amount, currency, and transaction date.

Charge Type

Indicates whether the alert is triggered based on reaching a fixed amount or a percentage threshold.

Charge Unit

The currency in which the charge is made.

Child Account

An account subordinate to a parent account, often inheriting settings and configurations from the parent but with its own distinct attributes.

Client IP

IP address associated with the client performing actions within the platform.

Connectivity Management

An application for setting and managing accounts, users, SIMs, Self-care, Rules & Alerts, Billing information and more.

Connectivity Management Platform (CMP)

Cloud-based solution for managing IoT connectivity.

Connectivity Rates

Prices associated with data or SMS usage, typically measured in cost per MB or KB.

Consent

Explicit permission granted by a Super Admin user to enable specific service such as archiving and viewing of SMS content, allowing the platform to store and display SMS messages associated with SIM events.

Cost Revenue and Profit Display

A dashboard widget that shows a daily reckoning of account economic performance indicators, color-coded, over the user-defined length of time.

Currency

Refers to any global monetary coin unit used for billing., such as USD, EUR, GBP.

Customized Rate Plan

A plan type where rates are uploaded from an Excel file.

D**Data and SMS Price**

Charges for data usage and SMS messages, respectively.

Data Usage

Refers to the total data usage of SIMs over a defined period.

Data Volume

The amount of data usage, often measured in bytes, kilobytes, megabytes, or gigabytes.

Deactivate

Action to disable or make ineffective a setting or parameter.

Deactivated SIM

A SIM that was previously active or used but has been permanently disabled. These SIMs cannot be reactivated and are essentially retired from service. No usage charges are incurred for deactivated SIMs. There might be a final billing period covering the time up to deactivation.

Detailed Mode

A mode in the Usage Summary per SIM report that generates a breakdown report for each SIM by Country, Provider, Network, and Plan Usage

Device

Any IoT device that uses the system platform resources, such as SIM, IMSI.

Device Data Limit

Limit set for data usage by individual devices.

Device Limits

Restrictions placed on the usage of data and SMS volumes per SIM, with options to set limits or leave them unlimited.

Device SMS Limit

Limit set for SMS usage by individual devices.

E**EID**

The eUICC Identifier (EID) provides a unique global serial number for an eUICC. Contains a fixed length of 32 digits

Event Table

Tabular display of platform events including SIM events and associated SMS content, allowing users to view historical data and track activity within the platform.

Event Parameters

Parameters and descriptions for events recorded in the system, including timestamps, identifiers, actions, error codes, locations, and more.

Expiration Strategy

Determines when the plan expires.

Expiration Type

The method by which the plan's expiration date is determined. Options include No Expiration (plan never expires), Fix date (plan expires on a chosen date), From the offer activation (validity starts upon SIM attachment), From Plan First Use (validity starts upon SIM's first use).

External Parameter Upload

A method for adding, updating, and deleting external parameters for various entities (sub-accounts, billing plans, SIMs)

External Parameters

User-defined identifiers mapped with platform system entities such as Accounts, SIMs, and Billing Plans, used for managing platform entities based on user-specific identifiers.

F**Fixed Rate Plan**

A plan type with fixed rates for usage for all SIMs.

G**GGSN/PGW**

Gateway GPRS Support Node/Packet Data Network Gateway. Systems for configuring and managing data routing in mobile networks.

GL Code Sub Type

Sub categorization of GL Codes within a specific type, such as Data service or SMS service for Usage Fees, used for distinguishing between different types of usage charges.

GL Code Type

A category of GL Code specifying the type of charge, such as Recurring Fees, Usage Fees, or Adjustment Fees, used for organizing and tracking different types of revenue and charges.

GL Codes

General Ledger Codes are alphanumeric aliases used in accounting processes to track business activity generated by SIM configuration and billing plans within specific sub-accounts.

GL Zone

Geographic area or network segment associated with usage-based charges, represented by GL Codes, used for defining specific billing parameters for different regions or networks.

H**HLR/HSS**

Home Location Register/Home Subscriber Server. Systems used for managing subscriber profiles, RAT Types, IMSI/MSISDN ranges, and more.

HTTP Push API

An interface that allows applications to receive real-time notifications or data updates to web servers or endpoints over HTTP.

HTTP Push API Channels

Notification channels that designate URLs as notification destinations.

HTTP Push Notification Channel

A channel used to send alerts via HTTP to a designated URL, including mandatory fields like channel name, URL, and shared key.

HTTP Shared Key

A shared key used to ensure communication integrity between the platform and the target URL for HTTP push API notifications.

I

ICCID

Integrated Circuit Card Identifier, a unique serial number associated with a SIM card.

IMEI

International Mobile Equipment Identity, a unique GSM modem ID.

IMEI Change

An event trigger for detecting changes in the IMEI associated with a SIM card.

IMEI Initial Detection

An event trigger for detecting when a device's IMEI is initially attached to a SIM card.

IMEI Monitoring

A rule type for monitoring IMEI-related events such as initial detection or changes.

IMEISV

The IMEI number with an additional designation for the device firmware/software version

IMSI

International Mobile Subscriber Identity, a 14/15-digit unique number used to identify mobile subscribers. The IMSI number comprises three components: MCC, MNC, and MSIN. - MCC: 3-digit country identifier - MNC: operator identifier (two or three digits) - MSIN: identifier for the connected device (nine or 10 digits)

Inactive SIM

A SIM that has been provisioned but is not yet activated. These SIMs are not yet operational and cannot connect to the network until they are activated. Typically, no usage charges are incurred until the SIM is activated. Also referred to as Pre-Active SIM.

Inactivity Period

The duration of inactivity that triggers the alert.

Inactivity Type

Specifies the type of inactivity being monitored by an Inactivity rule, such as Network Inactivity or Usage Consumption Inactivity.

Invoice

A bill generated and sent to customers at the end of a Billing Cycle.

Invoice Module

A module for viewing and downloading of generated account invoices and monthly reports in various formats.

Invoice Table

A table listing uploaded invoices, sortable by Upload Date or Invoice Name, accessible per account.

L

Lock Permission to Account

Enables customers to lock SIMs to devices (IMEI) by setting up account permissions.

Lock SIM to Device IMEI

Feature that enables locking and unlocking of SIMs based on associated International Mobile Equipment Identity (IMEI).

Login On Behalf

Feature enabling a parent super admin to access the system on behalf of a sub-account user.

M

Manual Adjustment

Precise adjustments to billing by account or by ICCID, correcting discrepancies, applying discounts, making refunds, or adjusting charges.

Markup

Additional charge or price applied to service rates, either as a percentage or a fixed price.

MCC

Mobile Country code, a GSM unique ID for every country.

MNC

Mobile Network Code, a unique Operator ID within a country.

Monthly Usage Growth

Compares the number of SIMs/IMSI and their service (data, SMS) usage volumes between two selected months.

MSISDN

Mobile Station International Subscriber Directory Number, a phone number associated with a SIM card.

Multi-Tenancy

System architecture where multiple users or tenants share the same infrastructure.

Multi IMSI SIM Management

Configuration, management, and control of multiple IMSIs assigned to a single SIM card to enable seamless connectivity.

My Sub Accounts

Module for creating and managing sub-accounts linked to a parent account.

MyTerm

N

Network Inactivity

The absence of activity or communication from a SIM card within a specified network, typically monitored to detect potential issues or anomalies.

Notification Channels

Channels through which notifications are sent, such as email addresses or HTTP URLs, configured in the Notifications Module.

Notification Description

A text description provided within a notification to convey relevant information or context regarding the triggered event or condition.

Notification Logs

Logs listing all notifications sent from the system, including information such as notification type, source, action name, account name, ICCID, delivery status, timestamps, and retry time.

Notification Source

The module of the platform where the rule triggering the notification was created.

Notification Type

The method by which alerts generated by a rule are delivered to users, either via Email or HTTP (Push API).

Notify When

Indicates the conditions under which an alert is triggered, such as when a threshold is reached or when inactivity is detected.

O

Operator

Refers to individual service providers or operators within a country.

Order SIMs

A wizard that guides you through the SIMs ordering process.

Over-the-Air (OTA)

A method to configure or update SIM cards wirelessly, without physical connection.

P

Package

A package is contained for a single or multiple plans up to the maximum allowed for a single subscriber

Parent Account

The main or primary account within a hierarchical account structure, typically having control over child accounts and associated resources.

Parent Account Buy Rates

Rates set by the parent account, viewed per country

Plan

A package that defines the terms and conditions for SIM usage, including cost, renewal period, activation type, prorated status, etc.

Plan Allocation Day

The day the plan is allocated to the SIM, serving as the base day for renewal.

Plan Assignment

The association of SIM cards or accounts with specific plans, governing their usage, billing, and other related aspects.

Plan Cost

The monetary cost of the Plan over the Renewal Period

Plan Details

Comprehensive information about a plan, including tabs such as Plan Details, Assigned SIMs, External Parameters, and Customize Rates.

Plan Expiration Strategy

Determines when the plan expires.

Plan Name

The name of the plan attached to the account or SIM.

Plan Rates

Plans that offer specific rates for services like Data or SMS.

Plan Renewal Strategy

Specifies the interval at which the plan is renewed.

Plan Type

Includes Regular Plan, PoolPlan and Rated Plan

Platform Fee

Includes both the Access Fee and Surcharge Fee. When creating a plan, users can select the "Included in Plan" option to exclude calculation of the Platform Fee in billing transactions.

Pool Plan

A plan designed for managing and charging multiple SIMs under a single plan and quota.

Product

A Product (also referred to as product services) refers to ongoing, automatic payment for services such as Access Point Name (APN), Virtual Private Network (VPN) and premium Service Level Agreements (SLAs) etc.

Prorated

Indicates if the plan is prorated or not.

Provider

An MNO that provides IMSIs and MSISDNs to be used by the platform.

Q**Quantity Unit**

The unit of measurement for the quantity, such as MB or SMS.

R

Rate Plan

A plan that applies specific rates for usage, such as per unit of data or SMS.

Rate Sheet

A document specifying rates for SIM services

Recurring Fees

Charges applied periodically (e.g., monthly) for SIM usage, represented by GL Codes, used for accounting and tracking subscription-based revenue.

Regular Plans

A standard plan for SIM connectivity services.

Renewal Day

The specific day or date when the plan is renewed.

Renewal Interval

The frequency at which the plan is automatically renewed.

Renewal Period

Interval at which the plan is renewed automatically.

Role Type

Classification defining the level of permissions and access granted to a user, such as Super admin, Support, User, and Read only.

Rule

A set of conditions and actions that trigger alerts or notifications based on predefined criteria.

Rule Activation

The process of activating a new or suspended rule, allowing it to become active and trigger alerts.

Rule Configuration

The process of setting up and defining the parameters of a rule, including its type, scope, and conditions for triggering alerts.

Rule Details

Specific parameters and settings associated with a rule, including its name, description, application scope, and threshold values.

Rule Name

A unique alphanumeric identifier for the rule.

Rule Suspension

The temporary halt of a rule's execution, often done to troubleshoot issues or prevent unwanted alerts.

Rule Type

A classification that determines the purpose and behavior of a rule, such as Usage, Rate, Money, First Event, Pool, or Inactivity.

Rules Table

A table displaying limited information for each rule, including attributes like Rule Name, Rule Type, Active status, Binding Type, Apply On (Account), and Notification Type.

S

Self Upload

A feature allowing accounts to upload Buy Rates for allocated providers, activated at the discretion of the Parent account.

Sell Package

A package containing a single or multiple plans that the parent customer creates to charge child sub accounts. Also known as “Customer Package”

Sell Plan

Subscription plan associated with a particular SIM or set of SIMs, represented by GL Codes for Recurring Fees and Usage Fees, used for defining subscription-based billing parameters. Sell Plans are created by user and assigned to customer SIMs, Buy Plans are provided by the Parent account

Session Logout

Period after which a user session expires due to inactivity.

SIM

Subscriber Identity Module, a smart card containing a unique identification number that enables access to mobile networks. A SIM card may contain one or more IMSIs. A SIM card can use different form factor such as plastic card or as embedded modules.

SIM Actions

Activate, Suspend, SIM, Action, Status, SIM Activate, SIM Suspend

SIM Alias

Assigning an alias to SIMs manually or using batch operation, requires SIM UUID and Alias Name.

SIM Connectivity

The ability of a SIM card to establish and maintain connections to mobile networks, enabling communication and data transfer.

SIM ID Type

The type of identifier used for SIMs, such as IMSI, ICCID, EID, MSISDN.

SIM Label

Tags assigned to SIMs for grouping, filtering, and performing actions or bulk operations. Includes SIM UUID and Label Name to identify a specific SIM.

SIM Provisioning

Functionality that enables Mobile Network Operators (MNOs) to manage and provision SIMs.

SIM Status

Defines the SIM's technical status, such as Suspended, Activated etc.

SMS Consent Page

Interface allowing Super Admin users to configure consent settings for archiving and viewing SMS content, enabling or disabling the storage and display of SMS messages associated with SIM events.

SMS Content

Textual content of SMS messages associated with SIM events, archived and displayed in the Events Table by the platform, subject to Super Admin consent.

SMSC

Short Message Service Center. A mobile telecommunication network element that stores, forwards, converts, and delivers SMS messages and maintains unique timestamps in text or binary messages.

Software-as-a-Service (SaaS)

Software delivery model where software is hosted on a cloud and accessed via the internet.

Sub-Account

An account owned by and subordinate to the Parent account.

Sub-Account Country Markups

Markups specific to a single country within a sub-account

Sub-Account Global Markups

Markups applicable to all countries and provider-operators within a sub-account

Surcharge Fee

An additional monthly fee made by a network provider on top of the Access Fee. Surcharge fees may differ per country and per network provider.

Suspended SIM

A Suspended SIM is a SIM card that has been temporarily disabled and cannot connect to the network or perform any data transmission or communication.

T**Threshold**

A predetermined value or condition that, when met or exceeded, triggers an alert or action within a rule.

Top-Up

Add credit or funds to a SIM card or a pool plan.

Transaction DR Records

Records top-up transactions performed on SIMs, including details such as amount, currency, and transaction date.

U**UE IP V4**

The IPv4 address allocated to the device.

Usage

The consumption or utilization of services, such as data volume or SMS messages, typically monitored and managed by usage-based rules.

Usage DR Records

Records all rated (charge-incurring) CDRs or DRs generated by all account SIMs, detailing data and SMS usage over a defined period.

Usage Fees

Charges applied based on actual SIM usage, including data and SMS usage, represented by GL Codes, used for accounting and tracking pay-as-you-go revenue.

Usage Per Account

Records the daily total data and SMS usage of all SIMs in an account, including usage volume and charges incurred over a defined period.

Used SIM

A Used SIM refers to a SIM card that has been active and has already engaged in network activities, such as transmitting data or making calls. It indicates that the SIM has a usage history.

W

White List Zone

Specific zones where the plan can be used, limiting device usage to selected countries and operators.