



KITE PLATFORM

# UNICA API: REST binding for customers

Version 11.1.0

Kite Platform team

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Public use

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## 2 Document history

Version	Status	Date	Changes
2.2	Finished	27/03/2014	Initial version
2.2	Finished	30/05/2014	<p>Set resources to camelCase format:</p> <ul style="list-style-type: none"> <li>• statusHistory</li> <li>• timeAndConsumption</li> </ul> <p>Added resource for getting Billing Account detail.</p> <p>Set commercial group version to v2.</p> <p>Added resource for activating/deactivating End Customer.</p> <p>Added resource for getting its own Customer information.</p> <p>Added resource for getting its own VPN list.</p> <p>Added resource for getting its own expiration time.</p> <p>Added resource for modifying its own detailed Customer information.</p> <p>Added resource for getting its own supplementary services.</p>
2.4	Finished	02/06/2014	Added resource inventory SMS for sending SMS and checking status delivery.
2.4	Finished	16/10/2014	Fix endCustomer path
2.5	Finished	03/03/2015	No changes
2.6	Finished	01/12/2015	<p>Modified inventory SMS resource in order to add the hasDeliveryReport flag.</p> <p>Added new report type SMS Application Originated.</p>
2.6.1	Ready for external review	07/03/2016	No changes
2.6.1	Reviewed	15/03/2016	Fixed destSubscriptions in SMS resource for POST operation
2.6.1	Reviewed	15/04/2016	Improve destSubscriptions explanation
2.6.2	Ready for external review	12/05/2016	<p>Fixed the code response for the POST operation over the resource downloadReport. The real response code is 202 instead 201.</p> <p>Removed the character "?" from somebody examples and use a real value.</p> <p>The fixed endpoint for creating a report. Changed /r21 to /r12.</p> <p>Add request for creating the sms_ao report.</p>
2.6.2	Reviewed	17/02/2016	No changes
2.6.3	Internal review	30/06/2016	Format changes.
2.6.3	Reviewed	06/07/2016	Reviewed the new format
2.6.3	Reviewed	12/07/2016	Deleted synchronous report interface
2.6.3	Internal review	12/07/2016	Changes in footnotes



3.0.0	Ready for review	07/07/2016	Add available and active voucher resources
3.0.0	Internal review	08/07/2016	<p>Updating dates in footnotes.</p> <p>Elimination of the sections called Operations and transformation of the sections Request and Response in Input parameters and Output parameters.</p> <p>Addition of the Request and Response examples section.</p> <p>Addition of the section about SMS AO report and subscription snapshot detail in Resource downloadReport and its response example.</p>
3.0.0	Ready for review	08/07/2016	<p>Updated downloadReport:</p> <ul style="list-style-type: none"> <li>Add new report charges_aggregated</li> </ul> <p>Fixed endpoints</p>
3.0.0	Internal review	15/07/2016	No changes.
3.0.1	Internal review	14/11/2016	No changes.
3.1.0	New	09/01/2017	Add resource swap sim.
3.1.0	Internal review	09/01/2017	Format changes.
3.1.0	New	09/01/2017	<p>Added new reports:</p> <ul style="list-style-type: none"> <li>Daily API transaction activity</li> <li>Daily network failures</li> </ul> <p>Added echo resource.</p>
3.1.0	Internal review	10/01/2017	Format changes
3.2.0	New	02/05/2017	Updated getSubscriptions. Removed startIndex restriction.
3.2.0	Internal review	29/05/2017	Updating Table of contents and style.
3.2.0	External Review	02/11/2017	<p>Fixed resource inventory Sim detail:</p> <ul style="list-style-type: none"> <li>Added lteEnabled field.</li> </ul>
3.3.0	New	02/11/2017	Added IMPORTANT clarification in functionality definition: API Certificates have ADMIN permissions.
3.3.0	New	03/11/2017	<p>Updated inventory resource:</p> <ul style="list-style-type: none"> <li>Added new fields related for the subscription swap feature: eid, swapStatus, subscriptionType</li> <li>Added new field for the last radio access technology: ratType</li> <li>Added new swap operation: downloadAndActivateProfile</li> </ul> <p>Updated downloadReport resource:</p> <ul style="list-style-type: none"> <li>Swap activity report</li> <li>Retired subscriptions report</li> </ul> <p>Updated supplementary resource:</p> <ul style="list-style-type: none"> <li>Added new Swap info tariffs: euiccSetup, simSwap, simSwapFreeOperationsMax, simSwapFreeOperations</li> </ul>

			<ul style="list-style-type: none"> <li>Added new field for DCA service (current Device Management): dcaSmsMsisdn</li> </ul> <p>Updated create, get and modify commercialGroup resource:</p> <ul style="list-style-type: none"> <li>Added new field: datePoolOverageBarring</li> </ul>
3.3.0	Internal review	07/11/2017	Updating table of contents and styles
4.0.0	Internal review	15/03/2018	No changes
4.0.0	Internal review	10/04/2018	Fixed example for updating the commercialGroup in SIM detail
4.0.0	New	19/04/2018	Added clarification about the modifySubscription operation related to the lifeCycleStatus in case of a Subscription without MSISDN.
4.0.1	New	30/05/2018	Added new Subscription Detail Monthly Billing report. Only TLSv 1.2 allowed.
4.1.0	New	04/07/2018	<p>Added new diagnostic synchronous resource for GPRS and GSM diagnostics.</p> <p>Deleted sim detail resource from inventory. You can use the inventory resource by filtering by subscription.</p> <p>Added new reports:</p> <ul style="list-style-type: none"> <li>changed imei report</li> <li>manufacturer model</li> </ul>
4.2.0	New	24/09/2018	<p>Removed GPRS and GSM asynchronous diagnostic. You can use the synchronous diagnostic.</p> <p>Added NAI (Nature of Address Indicator) configuration for screening lists in commercial group resource:</p> <ul style="list-style-type: none"> <li>blackListNAI</li> <li>roamingListNAI</li> <li>whiteListNAI</li> </ul> <p>You can keep using old parameter if you don't need to configure other NAI different from International.</p> <p>Added QCI (QoS Class Identifier) configuration for subscriptions whose Provider has LTE enabled.</p>
4.3.0	Internal review	22/11/2018	No changes
5.0.0	New	11/01/2019	<p>Added clarifications about simType in sim inventory resource.</p> <p>New value TE_O2DE for "Red de Respaldo" feature in Movistar Spain.</p>
5.0.0	New	27/02/2019	<p>Added new filters for sim inventory resource:</p> <ul style="list-style-type: none"> <li>aggressiveBehaviour</li> <li>stalledDays &amp; lifeCycleState</li> <li>unusedDays</li> <li>outreachEventDays &amp; outreachEventType</li> <li>subnet &amp; subnetMask</li> </ul>

			<p>Added new fields in sim inventory resource:</p> <ul style="list-style-type: none"> <li>lastStateChangeDate</li> <li>lastTrafficDate</li> </ul>
5.0.0	New	28/02/2019	Added new field premium data in active and available voucher resources.
5.0.0	New	27/02/2019	<p>Added ipv4v6 for dynamic addressing in customer resource.</p> <p>Added multiple subnet management for static addressing apns in customer resource. This change is not compatible with the previous json model. You shall use the new json model in case you have configured multiple subnets from Kite Platform web portal.</p>
5.0.0.	New	28/02/2019	Added new report user list in download report resource.
5.1.0.	New	14/03/2019	Added new service pack detail resource.
5.1.0	New	17/04/2019	<p>Added support for multiple static apns in Inventory API.</p> <p>You can configure several static apns for the subscription by means of new parameters: staticIpAddress0, staticIpAddress1, ... staticIpAddress9</p> <p>StaticIp and staticApnIndex are deprecated.</p>
5.1.0	New	17/04/2019	Removed targetProfileId from downloadAndActivateProfile operation in Inventory API. Selected profile is getting from the one defined in the swap rules.
5.1.0	New	19/06/2019	<p>Added new fields for getSubscriptions in Inventory API only for VIVO provider:</p> <ul style="list-style-type: none"> <li>blockReason1</li> <li>blockReason2</li> <li>blockReason3</li> </ul>
5.1.0	New	20/06/2019	<p>Added new operation networkReset in Inventory API</p> <p>Added new field networkResetEnabled in Customer API</p> <p>Added new private LTE tariffs in Supplementary Services API only enabled for Provider with private LTE enabled.</p> <p>Added new Swap tariffs in Supplementary Services API only available for Providers with Swap enabled.</p>
5.1.0	New	28/06/2019	Added new operation modify supervision group of the subscription in Inventory API
5.2.0	New	11/11/2019	<p>Added additional ip address for ipv4v6 static apns in getSubscriptions and modifySubscription of Inventory API.</p> <p>Added new field suspensionNextDate in getSubscriptions of Inventory API.</p>
5.2.0	New	12/11/2019	<p>Added support for ipv4v6 static apns in Customer API.</p> <p>Added new privateLte configuration in Supplementary Services API only available for Providers with Private LTE enabled.</p>
6.0.0	New	13/04/2020	<p>Renamed parameter in Active Voucher:</p> <ul style="list-style-type: none"> <li>remaingData to remaing</li> <li>totalData to total</li> </ul>

			<p>Added new parameter mobilePhone into User API.</p> <p>Added new report into Report API:</p> <ul style="list-style-type: none"> <li>alarms_monthly</li> </ul>
6.0.0	New	28/05/2020	<p>Added support for supplementary services management through Inventory API.</p> <p>Added support for basic services management through Inventory API.</p> <p>Added SupervisionGroup API.</p>
6.1.0	New	25/06/2020	<p>Added new report only for Customers belonging to VIVO Provider.</p> <ul style="list-style-type: none"> <li>customer_manufacturer_file</li> </ul>
6.2.0	Internal review	14/09/2020	No changes.
6.3.0	New	26/10/2020	Added new flags related to the data to be synchronized for SupervisionGroup API
6.4.0	New	10/02/2021	<p>Improvements in resource inventory SMS examples</p> <p>Added support for sim blocking for Customers belonging to VIVO Provider:</p> <ul style="list-style-type: none"> <li>user</li> <li>decommission</li> </ul>
7.0.0	Internal review	20/04/2021	No changes.
7.1.0	New	23/06/2021	Fixed the request example to Modify APN fields
7.1.0	Internal review	03/09/2021	The maximum maxBatchSize allowed for the Inventory API increased to 1000.
7.2.0	Internal review	10/09/2021	Added clarifications related to sim blocking.
7.3.0	New	03/12/2021	<p>Added new field advancedAnalytics in Supplementary detail response.</p> <p>It can take the values:</p> <ul style="list-style-type: none"> <li>DISABLED</li> <li>BASIC</li> <li>ADVANCED</li> </ul> <p>Added new field upfrontFee in available and active vouchers response. It represents the initial fee applied when buying a RECURRENT data voucher.</p>
7.4.0	New	14/02/2022	<p>Added new fields related to consumption thresholds for SIMs entering the commercial group in Commercial Group resource:</p> <ul style="list-style-type: none"> <li>consumptionLimitsEnabled</li> <li>limitDailyVoice</li> <li>limitDailySms</li> <li>limitDailyData</li> <li>limitMonthlyVoice</li> <li>limitMonthlySms</li> <li>limitMonthlyData</li> </ul>

			Added new advancedAnalytics tariffs in Supplementary detail response.
7.5.0	New	17/03/2022	<p>Added new field networkResetEnabled in EndCustomer API in order to enable the endCustomer the ability to cancel SIM location:</p> <ul style="list-style-type: none"> <li>networkResetEnabled</li> </ul>
8.0.0	New	26/05/2022	<p>Added new field iotDataReadyEnabled in Customer API. It indicates if the Customer has the service Iot Data Ready enabled:</p> <ul style="list-style-type: none"> <li>iotDataReadyEnabled</li> </ul> <p>Added new field iotDataReady in Supervision API to sync data. Only for customers with the flag iotDataReadyEnabled enabled.</p> <ul style="list-style-type: none"> <li>infoToSync.iotDataReady</li> </ul> <p>Added new Device Data API. It allows to read the events generated by SIMs belonging to Supervision Groups with the flag iotDataReady set to true. Only for customers with the flag iotDataReadyEnabled enabled.</p> <p>Added new filter in Inventory API in order to filter based on the use of prepaid vouchers.</p>
8.1.0	New	11/07/2022	<p>Added new field irreplaceableRecurrentVoucher in available and active Voucher response.</p> <p>Added new field activationDateTime in active Voucher response.</p> <p>The field expirationDate becomes optional for vouchers related to plans with the flag for voucher's immediate activation set to false.</p> <p>Added new field voLteEnabled in Customer API only available for Providers with voLteEnabled enabled.</p> <p>Added new field voLteEnabled in Inventory API only available for Providers with voLteEnabled enabled.</p> <p>Added new field voucherImmediateActivation in TariffPlan</p> <p>Added new field irreplaceableRecurrentVoucher in TariffVouchers</p>
8.2.0	New	14/10/2022	<p>The report of retired daily subscriptions can be requested with start date from 2011-01-01.</p> <p>The filter for SIMs stalled in a given lifecycle state is increased to 20000 days.</p> <p>New field in Customer API and BillingAccount API for billing account ID in CRM legacy:</p> <ul style="list-style-type: none"> <li>billAccIdInSPCRMLegacy</li> </ul> <p>The creation of the report of monthly expense detail for non monetary users may involve two downloadReportIds, one for each billing closing, if there is a minicycle.</p> <p>Added new tariff in Supplementary API only available for Providers with remoteSimManagement enabled.</p> <ul style="list-style-type: none"> <li>remoteSimManagement</li> </ul> <p>Removed the field remoteSimManagementMsisdn from Supplementary API, no longer in use.</p>
8.2.0	Internal review	25/10/2022	Fixed typo in BillingAccount API endpoint
8.2.0	Internal review	17/11/2022	Root element deleted in DeviceData API

9.0.0	New	06/03/2023	<p>Added new fields in Customer API for radio technologies:</p> <ul style="list-style-type: none"> <li>• tecLteEnabled</li> <li>• tec2GEnabled</li> <li>• tec3GEnabled</li> <li>• tecNblotEnabled</li> </ul> <p>Removed lteEnabled, no longer in use.</p> <p>Added new field in Customer API. Only for Customers of Movistar.</p> <ul style="list-style-type: none"> <li>• billableEnabled</li> </ul> <p>Added new tariff for IoT Data Ready in Supplementary API. Only for Providers with IoT Data Ready enabled.</p> <p>Added new tariff for Advanced Location in Supplementary API.</p> <p>New new operation for sending messages in DeviceData API.</p> <p>Added new field basicServices in Supervision API to sync data.</p> <ul style="list-style-type: none"> <li>• infoToSync.iotDataReady</li> </ul>
9.1.0	New	07/07/2023	<p>Added new fields in Customer and EndCustomer API for authorization flow:</p> <ul style="list-style-type: none"> <li>• authorizationFlowEnabled</li> <li>• authorizationFlowThresholdNominal</li> <li>• authorizationFlowThresholdPercentageEnabled</li> <li>• authorizationFlowThresholdPercentage</li> <li>• authorizationFlowThresholdDelegated</li> <li>• authorizationContact</li> <li>• authorizationContactAddress</li> <li>• authorizationContactIsPrimaryContact</li> <li>• authorizationContactAddressIsCompanyAddress</li> </ul> <p>Added new field in Supplementary API for advanced analytics</p> <ul style="list-style-type: none"> <li>• advancedAnalytics</li> </ul> <p>Added lpwa power saving config into Commercial group resource. Only for Customers belonging to Providers that supports the management of power saving parameters:</p> <ul style="list-style-type: none"> <li>• lpwaPowerSaving</li> </ul> <p>Added new field in Customer API to allow the Customer to configure the lpwa power saving:</p> <ul style="list-style-type: none"> <li>• lpwaPowerSavingEnabled</li> </ul> <p>Added new operations for getting new historical data in Inventory API:</p> <ul style="list-style-type: none"> <li>• consumptionHistory</li> <li>• gprsHistory</li> </ul> <p>Added new field in Customer and Inventory API for defaultApn:</p> <ul style="list-style-type: none"> <li>• defaultApn</li> </ul> <p>Added new report only for Customers with legacy billing account belonging to Movistar Provider:</p>

			<ul style="list-style-type: none"> <li>legacy_expense_detail_monthly</li> </ul> <p>Added new field in Diagnostic API for administrative diagnostic:</p> <ul style="list-style-type: none"> <li>radioAccessEnabledParam</li> </ul>
9.2.0	New	27/09/2023	<p>Updated tariff model in Supplementary API for advanced analytics.</p> <p>Deprecated field:</p> <ul style="list-style-type: none"> <li>advancedAnalytics.customer.monthlyActive</li> </ul> <p>Added multiple stretch management for advanced analytics tariff in Supplementary API. This change is not compatible with the previous version.</p> <p>Added new field in DeviceData API for source port used in upstream communication:</p> <ul style="list-style-type: none"> <li>sourcePort</li> </ul> <p>Added new field in Supervision API for sending additional ACK. Only for customers with the supplementary service <code>iotDataReady</code> enabled.</p> <ul style="list-style-type: none"> <li>iotDataReadyProcessingAck</li> </ul> <p>Added new service in Supplementary API for <code>assetControl</code>.</p> <ul style="list-style-type: none"> <li>assetControl</li> </ul> <p>Added new resource for <code>iotDeviceControl</code> API. Only for subscriptions belonging to customers with the supplementary service of remote sim management enabled.</p>
9.3.0	New	16/11/2023	<p>Updated the format of <code>billingCycleStart</code> in Customer API in order to add the timezone.</p> <p>Added new flags to enable the traffic cut in Inventory and CommercialGroup API in case of exceeding the consumption limit:</p> <ul style="list-style-type: none"> <li>smsTrafficCut</li> <li>voiceTrafficCut</li> <li>dataTrafficCut</li> <li>trafficCut</li> </ul> <p>Added new field in User API in order to allow multiple roles</p> <ul style="list-style-type: none"> <li>roles</li> </ul> <p>Deprecated field:</p> <ul style="list-style-type: none"> <li>rol</li> </ul>
10.0.0	New	14/03/2024	<p>New <code>lotPat</code> API. Only for Customers of Movistar.</p> <p>New new operation for getting and deleting messages in DeviceData API.</p> <p>Added new <code>assetControl</code> service.</p>
10.1.0	New	17/07/2024	<p>New lot partner expense detail report. Only for customers that have a billing account associated with the MCP of Singtel.</p> <p>Changed IPV6 validation. Last 64 bits of IPV6 cannot be zero.</p>
10.1.0	New	11/09/2024	<p>New Inventory filters:</p>

			<ul style="list-style-type: none"> <li>startLastCommercialGroupChangeDate</li> <li>endLastCommercialGroupChangeDate</li> <li>startLastServicePackChangeDate</li> <li>endLastServicePackChangeDate</li> <li>startLastStateChangeDate</li> <li>endLastStateChangeDate</li> <li>startState</li> <li>endState</li> </ul> <p>New Inventory fields:</p> <ul style="list-style-type: none"> <li>lastCommercialGroupChangeDate</li> <li>lastServicePackChangeDate</li> <li>lastStateChangeDate</li> </ul>
10.2.0	New	28/11/2024	<p>Updated Customer and EndCustomer API:</p> <p>Added field:</p> <ul style="list-style-type: none"> <li>authorizationFlowDelegatedOrganization</li> </ul> <p>Deprecated field:</p> <ul style="list-style-type: none"> <li>authorizationFlowDelegated</li> </ul> <p>Added new Device SMS API. This API allows you to manage SMS sent/received through IoTDataReady. Only for customers with all IoT Data Ready, IoTDataReadySMS and Application outgoing SMS services enabled</p>
11.0.0	New	14/03/2025	<p>Updated Inventory API:</p> <p>Added filters related to radio technologies:</p> <ul style="list-style-type: none"> <li>tecLteEnabled</li> <li>tecNblotEnabled</li> <li>tec2GEnabled</li> <li>tec3GEnabled</li> <li>tec5GEnabled</li> <li>tec2GUsed</li> <li>tec3GUsed</li> <li>tec35GUsed</li> <li>tec4GUsed</li> <li>tec5GUsed</li> <li>tecLteUsed</li> <li>tecNblotUsed</li> </ul> <p>Added filters for last consumption dates:</p> <ul style="list-style-type: none"> <li>startSmsConsumptionDate</li> <li>endSmsConsumptionDate</li> <li>startVoiceConsumptionDate</li> </ul>



			<ul style="list-style-type: none"> <li>endVoiceConsumptionDate</li> </ul> <p>Added other filters:</p> <ul style="list-style-type: none"> <li>startGprsUpDate</li> <li>endGprsUpDate</li> <li>simModel</li> <li>imeiLock</li> <li>imeiLockEnabled</li> </ul> <p>Added fields:</p> <ul style="list-style-type: none"> <li>lastSmsConsumptionDate</li> <li>lastVoiceConsumptionDate</li> <li>imeiLock</li> <li>oldQci</li> <li>oldQciRestorationDate</li> <li>usedRatTypes</li> <li>radioAccessTech <ul style="list-style-type: none"> <li>tecLteEnabled</li> <li>tecNbIotEnabled</li> <li>tec2GEnabled</li> <li>tec3GEnabled</li> <li>tec5GEnabled</li> </ul> </li> </ul>
11.0.0	New	14/03/2025	<p>Updated Customer API:</p> <p>Added field:</p> <ul style="list-style-type: none"> <li>automaticIimeiLock</li> </ul> <p>Added field. Only for Customers of VIVO:</p> <ul style="list-style-type: none"> <li>sharedPoolByFranchiseModelEnabled</li> </ul>
11.0.0	New	27/03/2025	<p>Updated Report API:</p> <p>Added new report:</p> <ul style="list-style-type: none"> <li>inventory_export</li> </ul> <p>Updated Diagnostic API:</p> <p>New data issue:</p> <ul style="list-style-type: none"> <li>IMEI_LOCK</li> </ul>
11.1.0	New	14/07/2025	<p>Updated Commercial Group and Service Pack API:</p> <p>Added new fields:</p> <ul style="list-style-type: none"> <li>roamingBlackList</li> <li>roamingBlackListNAI</li> </ul> <p>Updated Supervision Group API:</p>

			<p>Added new field:</p> <ul style="list-style-type: none"> <li>infoToSync.networkRejection</li> </ul> <p>Updated Supplementary Group API:</p> <p>Added new tariffs:</p> <ul style="list-style-type: none"> <li>tariffs.volte.subscription.setup</li> <li>tariffs.volte.subscription.monthlyActive</li> </ul> <p>Updated Service Pack API:</p> <p>Added new field:</p> <ul style="list-style-type: none"> <li>movementSourceOnly</li> </ul> <p>Updated Report API:</p> <p>Added new filter in expense detail daily:</p> <ul style="list-style-type: none"> <li>chargeCodes</li> </ul> <p>Updated Service Pack API:</p> <p>Added new enumType for getting the allowed charge codes:</p> <ul style="list-style-type: none"> <li>chargeCodes</li> </ul>
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### 3 Glossary

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- API: Application Programming Interface
- Application: Software that is used for business or entertainment purposes.
- Activation Pending: Subscription lifecycle state that requires manual operation to transition to active state. Traffic is not allowed in this state.
- Activation Ready: Subscription lifecycle state that does not require manual operation to transition to active state. Traffic might be allowed in this state but, as soon as a traffic session starts, the subscription automatically changes to active state.
- Activated: Subscription lifecycle state that allows traffic consumption. Traffic is rated according to the Basic Services Commercial Plan of the Subscription Group where the Subscription is included.
- Administrative status: See Lifecycle status
- Advanced Supervision service: Supplementary service that when enabled allows the device to send keep-alive packets to the Kite Platform, so IP presence status can be queried.
- Basic Services Commercial Plan: Defines Subscription available services (voice/data/SMS) and how are charged. It is composed by Services, Restrictions, Lifecycle configuration, Basic Services (voice/data/SMS) tariffs, Lifecycle tariffs and phone lists for filtering. Created by Service Provider, distributed to one or more Customers.
- Billing account: Every chargeable event in Kite Platform (monthly fees, one-time fees, and voice/data/SMS) is linked to a Billing Account. A Customer has a "Default" billing account and may have Additional billing accounts that are provisioned by Service Provider. Customer charges are linked to its Default Billing Account (e.g. VPN monthly fee), pool charges are linked to Subscription Group Billing Account (configurable by Customer) and Subscriptions charges are linked to the Subscription Subscription Group Billing Account (configurable by Customer).
- Billing cycle: Day of the month (1-28) when the billing period of a Billing Account starts. Is set at Customer level & Billing Account level and at the end of each Billing Cycle a prebill is generated for each Billing Account (providing billable flag is set to true).
- CI: Cell Identity
- CRM: Customer Relationship Management
- Commercial Group: Name in API to refer to Subscription Group.
- Customer: Organization that uses managed connectivity services offered by Kite Platform.

- DCA service: Supplementary service that manages data from sensors. DCA stands for Data Collection and Analysis. This service might not be available in your region, contact your sales representative if you are interested.
- Deactivated: Subscription lifecycle state that does not allow traffic consumption. Subscription can be re-activated manually.
- DIM service: Devices I+M supplementary service. This service might not be available in your region, contact your sales representative if you are interested.
- Enabler Service Provider: Service provider that sells Managed Connectivity product to Customers.
- EUICC: The embedded SIM (also called eSIM or eUICC) is a new secure element designed to remotely manage multiple mobile network operator subscriptions and be compliant with GSMA specifications.
- Hosting Service Provider: Service provider that provides GSM/GPRS network resources (IMSI range, GGSN, STPs...).
- ID: Identifier
- ICC: Integrated Circuit Card
- IMEI: International Mobile Equipment Identification
- IMSI: International Mobile Subscriber Identity
- IP: Internet Protocol
- Inactive new: Initial subscription lifecycle state. It does not allow traffic consumption and can be changed only once a Subscription Group (and hence a Basic Services Commercial Plan) is set for the Subscription.
- LAC: Location Area Code
- Lifecycle: A set of states of and transitions configuration for M2M Subscriptions. Each Basic Service Commercial Plan has its own lifecycle configuration and is created by Service Provider. Kite Platform allows four configurations: automatic activation with and without a test, manual activation with and without a test.
- Lifecycle status: Determines if the Subscription can consume SMS/Data/Voice traffic and how is charged. Monthly fees may apply for being in a lifecycle status. Available statuses are Inactive New, Activation Pending, Activation Ready, Test, Activated, Deactivated, Suspended, and Retired.
- Location service: supplementary service that, when enabled, the platform automatically locates the cell tower where the subscription is camped when a GPRS connection/disconnection event is received on the platform.
- MCC: Mobile Country Code
- MNC: Mobile Network Code
- MSISDN: Mobile Subscriber ISDN Number
- OB: Operating Business

- Primitive: Smallest unit of processing available in a programming language.
- Retired: Subscription lifecycle state to remove a Subscription from the Kite Platform. This state can only be set for Subscriptions that already are on Suspended state. ICC, IMSI & MSISDN can be re-used and re-provisioned in the platform; but the Subscription disappears from inventory and cannot be re-activated.
- Service Pack: Name used in API to refer to Basic Services Commercial Plan.
- Service Provider: Organization providing and/or selling the M2M service. This organization may offer some GSM network infrastructure and resources: IMSI range allocation, MSISDN range allocation.
- Subscription: A SIM card provisioned in Kite Platform and assigned to a Customer. A Subscription has (both static and dynamic) data associated with it. E.g. ICC, IMSI, MSISDN, status, historic information, monthly consumption, monthly expense... This entity represents a SIM delivered to a Customer.
- Supervision Group: All the supervision events (GSM/GPRS presence, location, IMEI change) generated by a subscription are linked to the supervision group which the subscription pertains. Based on the supervision group, alarms can be set and reports can be obtained.
- Subscription Group: Assign a set of properties to the Subscriptions included in the Subscription Group: Basic Services Commercial Plan, Billing Account for pool charges, phone list filters, expense control. A customer creates this group and assigns to it the corresponding subscriptions.
- Suspended: Subscription lifecycle state that does not allow traffic consumption. When a Subscription is in this state, it can only return to its previous state. The customer cannot change state to/from Suspended.
- Test: Subscription lifecycle state that allows free traffic consumption up to certain limits.
- VPN service: Supplementary service that, if disabled, do not allow to the subscription to perform GPRS data connections.
- WSDL: Web Services Description Language

## 4 Scope

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The UNICA Global M2M is an API that allows Customers and Service Providers self-management of connectivity for M2M based on GSM/GPRS mobile network. This API do not expose all the features of the platform. Please contact your sales manager / Global Product Manager in case you miss any feature in this API.

It is import clarify that the permissions of the API Access are related to the role ADMIN, with all the possible consequences that may have; for example, access to creation, update, or deletion operations.

Kite Platform is a platform that offers managed connectivity service using the mobile access infrastructure provided by Telefonica. Users of this service are able to self-manage the service using a web portal and the set of APIs described in this document (in addition to the SOAP interface describe in a different document).

This document deals with the REST binding of the Global M2M API. Service aspects such as resources, query parameters, methods, request entity body, response entity body and response headers.

Complementary to this binding are the following UNICA API documents:

- “UNICA APIs: Common, SOAP, REST and RPC Specification” It covers among other things, a full description of specification sets, naming conventions, use of content types, serialization, technologies and the base fault framework.
- “UNICA\_API\_GlobalM2M\_SOAP\_Binding” It covers documentation of response objects of this REST binding. Please, note that REST resource names are not explicitly named on the document, but the datatypes returned in SOAP binding matches with datatypes returned in REST binding.

### **Features left for further versions**

Management of alarms and supervision groups.

### **Known bugs and limitations**

None.

## 5 Operations specification

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This chapter covers the REST operation to be applied to the defined resources. For all applicable operations, the following applies:

### Input and output parameters:

Either Input and Output parameters are sent as part of JSON bodies or as query parameters (in the case of requests).

### Headers:

Other needed information may be included in corresponding HTTP headers, this documentation does not detail every needed header (e.g. Content-type), see *UNICA APIs: Common, SOAP, REST and RPC Specification* to obtain that information.

### Faults:

Faults are always returned in the form of HTTP error codes.

When a method is not allowed by the resource, the returned HTTP error code is 405. The server should also include the Allow header field in the response as per section 14.7 of [4]. For instance, if the resource only allows a GET operation it will return 'Allow: GET' in the response.

In the rest of cases, the appropriate HTTP error code together with the details of the exception included will be returned in JSON format:

```
{
  "exceptionCategory": "Error category",
  "exceptionId": "Error ID",
  "text": "Error text"
}
```

For more information on the structure of these exception objects and possible values please check the clause of common REST data types in "UNICA APIs: Common, SOAP, REST and RPC Specification".

This document covers detailed specific error codes, informative messages of this API faults, associated HTTP status codes as well as the applicability of Common faults are covered.

### 5.1 Resource inventory SIM

This resource is used to operate Subscriptions inventory.

Resource URI:

`https://{env:port}/services/REST/GlobalM2M/Inventory/v13/r12/sim`

#### 5.1.1 GET

Retrieves Customer Subscriptions inventory, allowing to list all deployed subscription base or search for a Subscription (or group of subscriptions) that match a given criterion.

### 5.1.1.1 Input parameters

- Body: Void entity-body
- Available query parameters:

Parameter	Type	Optional	Description
maxBatchSize	int	Yes	A maximum number of entries to be returned in the response. Accepted values range is 1 to 1000.
startIndex	int	Yes	Offset to be applied to the response. E.g.: startIndex=50 means that entries since 51 should be returned (first 50 entries should not be returned). Accepted values range is from 0.
icc	Valid ICC number	Yes	ICC of the Subscription
imsi	Valid IMSI number	Yes	IMSI of the Subscription
msisdn	Valid MSISDN number	Yes	MSISDN of the Subscription
commercialGroup	ID of the Subscription Group	Yes	Subscription Group to which the Subscription pertains.
billingAccount	0, 1...	Yes	Billing Account of the Customer. 0 is the Default Billing Account for a Customer.
customField_1	Any	Yes	Custom Field value of the Subscription
customField_2	Any	Yes	Custom Field value of the Subscription
customField_3	Any	Yes	Custom Field value of the Subscription
customField_4	Any	Yes	Custom Field value of the Subscription
alias	Any	Yes	Alias of the Subscription
simType	Valid sim type: "LOCAL" "LOCAL_RR" "TE_O2DE"	Yes	LOCAL_RR and TE_O2DE are only used for "Red de Respaldo" feature in Movistar Spain.
lifeCycleState	Valid lifecycle state: "INACTIVE_NEW" "TEST" "ACTIVATION_PENDANT" "ACTIVATION_READY" "DEACTIVATED" "ACTIVE" "SUSPENDED" "RETIRED" "RESTORE"	Yes	Get subscriptions that are in a given lifecycle state.



	See definitions chapter for additional information.		
provisionDate	YYYY-MM-DD	Yes	Returns subscriptions that were provisioned after or during the given day. Days are considered in GMT timezone
shippingDate	YYYY-MM-DD	Yes	Get subscriptions that were shipped on the given date. Correctness on shipping date depends on SIM Manufacturer
activationDate	YYYY-MM-DD	Yes	Returns subscriptions that were activated after or during the given day. Days are considered in GMT timezone
aggregator	Valid End Customer ID	Yes	Get subscriptions pertaining only to the given End Customer
imei	Valid 15 digits IMEI	Yes	Get subscription attached to the given Communications Module.
ip	Valid IPv4 address	Yes	Returns all the subscriptions that are currently using the given IP address during an ongoing GPRS session
apn	Valid apn address	Yes	Returns all the subscriptions that are currently using the given APN during an ongoing GPRS session
staticIP	Valid IPv4 address	Yes	Returns all the subscriptions that are configured with the given static IP
enabledApn	Valid apn address	Yes	Returns all the subscriptions that include the given APN as one of the 10 available slots for permitted APNs
sgsnIP	Valid IPv4 address	Yes	Returns all the subscriptions that were connected to GPRS using the given SGSN
ggsnIP	Valid IPv4 address	Yes	Returns all the subscriptions that were connected to GPRS using the given GGSN
country	Country in format ISO 3166-1 alpha-2	Yes	Returns all the subscriptions that were connected to GPRS in the given country
operator	ITU-T Recommendation E.212 – Mobile Country Code + Mobile Network Code (e.g. 21407)	Yes	Returns all the subscriptions that were connected to GPRS using the given MNO access network
servicePack	Valid Basic Services Commercial Plan ID	Yes	Returns all the subscriptions using the given Basic Services Commercial Plan
postalCode	Postal Code Number	Yes	Returns all the subscriptions in the given zip code (only works in Spain).
region	Region	Yes	Returns all the subscriptions in the given region (only works in VIVO).
lteEnabled	boolean	Yes	When is set to true, return subscriptions that have LTE enabled. When is set to false, return subscriptions that do not have LTE enabled.

endCustomer	Valid End Customer ID	Yes	End Customer organization associated with this subscription. It is prefixed by "aggregator-".																
ratType	<div>Last Radio Access Tecnology as defined in 3GPP TS 29.274, section 8.17.</div> <table><thead><tr><th>Value</th><th>Radio Technology</th></tr></thead><tbody><tr><td>1</td><td>3G</td></tr><tr><td>2</td><td>2G</td></tr><tr><td>5</td><td>3.5G</td></tr><tr><td>6</td><td>4G</td></tr><tr><td>8</td><td>NB-IoT</td></tr><tr><td>9</td><td>Lte-M</td></tr><tr><td>10</td><td>5G</td></tr></tbody></table> <div>You can filter by -1 in order to filter for the rest of values: 0, 3, 4, 7 or none</div>	Value	Radio Technology	1	3G	2	2G	5	3.5G	6	4G	8	NB-IoT	9	Lte-M	10	5G	Yes	Returns all the subscriptions with the last radio access technology detected.
Value	Radio Technology																		
1	3G																		
2	2G																		
5	3.5G																		
6	4G																		
8	NB-IoT																		
9	Lte-M																		
10	5G																		
qci	QoS Class Identifier	Yes	Returns all the subscriptions with the given QoS Identifier.																
stalledDays	Min: 1 Max: 20000	Yes	Returns all the subscriptions stalled in the given lifecycle state during the given last days.  The value 1 refers to current day.  It is required to use the filter lifeCycleState as well.																
unusedDays	Min: 1 Max: 365	Yes	Returns all the subscriptions without traffic during the given last days.  The value 1 refers to current day.																
aggressiveBehaviour	boolean	Yes	When is set to true, returns all the subcriptions with > 150 open connections in the last 24 hours.  When is set to false, returns all the subcriptions with <= 150 open connections in the last 24 hours.																
outreachEventDays	Min: 1 Max: 365	Yes	Returns all the subscriptions demanding traffic above limits due to the event type during the given last days.  The value 1 refers to current day.  It is required to use the filter outreachEventType as well.																

outreachEventType	Limit reached: <ul style="list-style-type: none"> <li>pool</li> <li>data</li> <li>overall</li> </ul>	Yes	Returns all the subscriptions demanding traffic above limits due to the event type during the given last days.  It is required to use the filter outreachEventDays as well.
subnet	Valid Ipv4 address	Yes	Returns all the subscriptions configured within the given IP range.  It is required to use the filter subnetMask as well.
subnetMask	Valid Ipv4 mask	Yes	Returns all the subscriptions configured within the given IP range.  It is required to use the filter subnet as well.
blockReason	Valid block reason: <ul style="list-style-type: none"> <li>non-payment_total</li> <li>theft</li> <li>user</li> <li>fraud</li> <li>fraud_partial</li> <li>decommission</li> <li>non-payment_retire</li> <li>non-payment_partial</li> <li>none</li> </ul>	Yes	Returns all subscriptions matching the given block reason for the three last block states.  Only for VIVO Provider.
suspensionNextDate	YYYY-MM-DDT00:00:00+01:00	Yes	Returns subscriptions whose expiration contract is later or during the given day. Days are considered in GMT timezone.
swapStatus	Valid embedded SIM status: <ul style="list-style-type: none"> <li>ENABLING</li> <li>ENABLED</li> <li>DISABLING</li> <li>DISABLED</li> <li>DELETING</li> <li>DELETED</li> <li>DOWNLOADING</li> </ul>	Yes	Returns subscriptions whose swap status is the given.  Only for Customer with Swap enabled.
subscriptionType	Valid types: <ul style="list-style-type: none"> <li>EUICC (swappable)</li> </ul> UICC (non swappable)		Returns subscriptions whose type is the given.  Only for Customer with Swap enabled.
eid	Embedded SIM (eUICC) ID.	Yes	Returns all subscriptions matching the given eUICC.  Only for Customer with Swap enabled.
pvBasicService	Valid types: <ul style="list-style-type: none"> <li>V (voice)</li> </ul>	Yes	Returns all subscriptions matching the given prepaid voucher filter given by: pvBasicService, pvScope and pvCriticality.

	<ul style="list-style-type: none"> <li>• D (data)</li> <li>• S (SMS)</li> </ul>		Only for customers with active SIMs in subscription groups whose commercial plan includes at least one prepaid rate in any of the basic services.
pvScope	Valid types: <ul style="list-style-type: none"> <li>• voucherAvailability</li> <li>• consumption</li> <li>• remainingDays</li> </ul>	Yes	Returns all subscriptions matching the given prepaid voucher filter given by: pvBasicService, pvScope and pvCriticality.
pvCriticality	Valid types: <ul style="list-style-type: none"> <li>• 0</li> <li>• 1</li> <li>• 2</li> <li>• 3</li> </ul>	Yes	Returns all subscriptions matching the given prepaid voucher filter given by: pvBasicService, pvScope and pvCriticality.  The field pvCriticality can take the following values depending on the value of pvScope:  <b>a)</b> pvScope equals to voucherAvailability: 1: with vouchers 0: no vouchers in all tariffs  <b>b)</b> pvScope equals to consumption: 0: greater than 30% 1: between 10% and 30% 2: between 5% and 10% 3: less than 5%  <b>c)</b> pvScope equals to remainingDays: 0: greater than 30 days 1: between 10 and 30 days 2: between 5 and 10 days 3: less than 5 days
voLteEnabled	boolean	Yes	When is set to true, return subscriptions that have voLTE enabled. When is set to false, return subscriptions that do not have voLTE enabled.
startLastCommercialGroupChangeDate	YYYY-MM-DD	Yes	Returns all subscriptions whose last commercial group change occurred after or during the given day. Days are considered in GMT timezone.
endLastCommercialGroupChangeDate	YYYY-MM-DD	Yes	Returns all subscriptions whose last commercial group change occurred before or during the given day. Days are considered in GMT timezone.
startLastServicePackChangeDate	YYYY-MM-DD	Yes	Returns all subscriptions whose last service pack change occurred after or during the given day. Days are considered in GMT timezone
endLastServicePackChangeDate	YYYY-MM-DD	Yes	Returns all subscriptions whose service pack change occurred before or during the given day. Days are considered in GMT timezone
startLastStateChangeDate	YYYY-MM-DD	Yes	Returns all subscriptions whose last state change occurred after or during the given

			<p>day. Days are considered in GMT timezone.</p> <p>It can be used in combination with startState or endState.</p>
endLastStateChangeDate	YYYY-MM-DD	Yes	<p>Returns subscriptions whose last state change occurred before or during the given day. Days are considered in GMT timezone.</p> <p>It can be used in combination with startState or endState.</p>
startState	Valid lifecycle state: "INACTIVE_NEW" "TEST" "ACTIVATION_PENDANT" "ACTIVATION_READY" "DEACTIVATED" "ACTIVE" "SUSPENDED" "RETIRED" "RESTORE"	Yes	<p>It must be used in combination with startLastStateChangeDate or endLastStateChangeDate.</p>
endState	Valid lifecycle state: "INACTIVE_NEW" "TEST" "ACTIVATION_PENDANT" "ACTIVATION_READY" "DEACTIVATED" "ACTIVE" "SUSPENDED" "RETIRED" "RESTORE"	Yes	<p>It must be used in combination with startLastStateChangeDate or endLastStateChangeDate</p>
tec2GEnabled	boolean	Yes	<p>When set to true, returns all subscriptions that have 2G enabled.</p>
tec3GEnabled	boolean	Yes	<p>When set to true, returns all subscriptions that have 3G enabled.</p>
tecNblotEnabled	boolean	Yes	<p>When set to true, returns all subscriptions that have NB-IoT enabled.</p>
tecLteEnabled	boolean	Yes	<p>When set to true, returns all subscriptions that have LTE enabled.</p>
tec5GEnabled	boolean	Yes	<p>When set to true, returns all subscriptions that have 5G enabled.</p>
tec2GUsed	boolean	Yes	<p>When set to true, returns all subscriptions that have used 2G.</p>
tec3GUsed	boolean	Yes	<p>When set to true, returns all subscriptions that have used 3G.</p>

tec3GUsed	boolean	Yes	When set to true, returns all subscriptions that have used NB-IoT.
tec4GUsed	boolean	Yes	When set to true, returns all subscriptions that have used 4G.
tec5GUsed	boolean	Yes	When set to true, returns all subscriptions that have used 5G..
tecLteUsed	boolean	Yes	When set to true, returns all subscriptions that have used LTE.
tecNblotUsed	boolean	Yes	When set to true, returns all subscriptions that have used Nblot.
startSmsConsumptionDate	YYYY-MM-DD	Yes	Returns all subscriptions whose last sms consumption date occurred after or during the given day. Days are considered in GMT timezone.
endSmsConsumptionDate	YYYY-MM-DD	Yes	Returns subscriptions whose last sms consumption date occurred before or during the given day. Days are considered in GMT timezone.
startVoiceConsumptionDate	YYYY-MM-DD	Yes	Returns all subscriptions whose last voice consumption date occurred after or during the given day. Days are considered in GMT timezone.
endVoiceConsumptionDate	YYYY-MM-DD	Yes	Returns all subscriptions whose last voice consumption date occurred before or during the given day. Days are considered in GMT timezone.
startGprsUpDate	YYYY-MM-DD	Yes	Returns all subscriptions whose GPRS up date occurred after or during the given day. Days are considered in GMT timezone.
endGprsUpDate	YYYY-MM-DD	Yes	Returns all subscriptions whose GPRS up date occurred before or during the given day. Days are considered in GMT timezone.
simModel	string	Yes	Returns all subscriptions whose sim model matches the given.
imeiLock	string	Yes	Get the subscription whose linked imei matches the given.
imeiLockEnabled	boolean	Yes	If true, returns all subscriptions with imeiLock configured.

#### 5.1.1.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): Array of subscriptions. Void if inventory has no Subscriptions or no Subscriptions matches query parameters.
- Element subscriptionData of type array SubscriptionInfoType

### 5.1.1.3 Request example

#### 5.1.1.3.1 Filter by lifeCycle

```
GET /services/REST/GlobalM2M/Inventory/v13/r12/sim?maxBatchSize=1000
&startIndex=250&lifeCycleState=ACTIVE HTTP/1.1
```

#### 5.1.1.3.2 Filter prepaid vouchers

```
GET /services/REST/GlobalM2M/Inventory/v13/r12/sim?
pvBasicService=D&pvScope=voucherAvailability&pvCriticality=1
HTTP/1.1
```

#### 5.1.1.3.3 Filter by last state change date

```
GET /services/REST/GlobalM2M/Inventory/v13/r12/sim?
startLastStateChangeDate=2024-08-30&endLastStateChangeDate=2024-
08-30&startState=DEACTIVATED&endState=ACTIVE
HTTP/1.1
```

#### 5.1.1.3.4 Filter by imei lock

You can use wildcards

```
GET /services/REST/GlobalM2M/Inventory/v13/r12/sim?imeiLock=35*
HTTP/1.1
```

#### 5.1.1.3.5 Filter by imei lock enabled

```
GET /services/REST/GlobalM2M/Inventory/v13/r12/sim?imeiLockEnabled=t
rue
HTTP/1.1
```

#### 5.1.1.3.6 Filter by last sms consumption date

```
GET /services/REST/GlobalM2M/Inventory/v13/r12/sim?
startSmsConsumptionDate=2024-08-30&endSmsConsumptionDate=2025-
08-30
HTTP/1.1
```

### 5.1.1.4 Response example

#### 5.1.1.4.1 Filter by any of the above filters

The result will be a list of subscriptions that matches the requested filters.

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnnn
Date: Tue, 18 Mar 2014 15:24:15 GMT

{
  "subscriptionData": [
    {
```

```
"icc": "8952959316043419840",
"imsi": "214074773794147",
"msisdn": "34320492013",
"alias": "8952959316043419840",
"simModel": "SimModel",
"simType": "LOCAL_RR",
"gprsStatus": {
  "status": 0
},
"ipStatus": {
  "status": 0
},
"advancedSupervision": false,
"consumptionDaily": {
  "voice": {
    "limit": 0,
    "value": 0,
    "thrReached": 0,
    "enabled": false,
    "trafficCut": false
  },
  "sms": {
    "limit": 0,
    "value": 0,
    "thrReached": 0,
    "enabled": false,
    "trafficCut": false
  },
  "data": {
    "limit": 0,
    "value": 0,
    "thrReached": 0,
    "enabled": false,
    "trafficCut": false
  }
},
"consumptionMonthly": {
  "voice": {
    "limit": 0,
    "value": 0,
    "thrReached": 0,
    "enabled": false,
    "trafficCut": false
  },
  "sms": {
    "limit": 0,
    "value": 0,
    "thrReached": 0,
    "enabled": false,
    "trafficCut": false
  },
  "data": {
    "limit": 0,
    "value": 0,
    "thrReached": 0,
    "enabled": false,
```



```

        "trafficCut": false
    },
    "expenseMonthly": {
        "voiceOver": {
            "limit": "0.00000",
            "value": "0.00000",
            "thrReached": "0.00",
            "enabled": false
        },
        "smsOver": {
            "limit": "0.00000",
            "value": "0.00000",
            "thrReached": "0.00",
            "enabled": false
        },
        "dataOver": {
            "limit": "0.00000",
            "value": "0.00000",
            "thrReached": "0.00",
            "enabled": false
        },
        "totalOver": {
            "limit": "0.00000",
            "value": "0.00000",
            "thrReached": "0.00",
            "enabled": false
        },
        "voiceFee": "0.00000",
        "smsFee": "0.00000",
        "dataFee": "0.00000",
        "totalFee": "3.93549",
        "other": "80.00000",
        "total": "83.93549",
        "voiceGroupWarning": false,
        "smsGroupWarning": false,
        "dataGroupWarning": false,
        "totalGroupWarning": false
    },
    "provisionDate": "2021-02-04T00:00:00+00:00",
    "activationDate": "2021-02-04T00:00:00+00:00",
    "supervisionGroup": "default_group",
    "orderNumber": "PY17223",
    "postalCode": "",
    "country": "",
    "operator": "",
    "manufacturerOrderNumber": "GEM17223_1612431732151",
    "chargingType": "online",
    "qci": 7,
    "lastStateChangeDate": "2025-03-17T04:23:37+00:00",
    "crmBillingAccountId": "3456789M",
    "billingAccountFiscalNumber": "2345678L",
    "suspensionNextDate": "2024-07-08T00:00:00+00:00",
    "voLteEnabled": false,
    "defaultApn": "",
    "radioAccessTech": {

```

```

        "tec2GEnabled": true,
        "tec3GEnabled": true,
        "tec5GEnabled": false,
        "tecLteEnabled": true,
        "tecNbIotEnabled": false
    },
    "lastServicePackChangeDate": "2025-03-
13T16:07:04+00:00",
    "lastCommercialGroupChangeDate": "2025-03-
13T16:07:04+00:00",
    "imeiLock": "",
    "usedRatTypes": [
        2
    ],
    "lastSmsConsumptionDate": "2025-03-
16T23:32:28.940Z",
    "lastVoiceConsumptionDate": "2025-03-
16T23:32:15.477Z",
    "serviceProviderCommercialId": "provider-
movistar1376f0c049eGAFyImcQxeblg",
    "serviceProviderCommercialName": "movistar",
    "serviceProviderEnablerId": "provider-
movistar1376f0c049eGAFyImcQxeblg",
    "serviceProviderEnablerName": "movistar",
    "customerName": "Customer_API_SOAP_for_SVA",
    "lifeCycleStatus": "DEACTIVATED",
    "billingAccountName": "default",
    "servicePackId": "38",
    "commercialGroupId": "184097",
    "customerCurrency": "978",
    "customerCurrencyName": "Euro",
    "legacy": false,
    "logistics": "P32",
    "presence": {
        "additionalIp": ""
    },
    "lpwaPowerSaving": {
        "kiteMaster": false
    },
    "subscriptionId": "736979",
    "customerID": "customer-
Customer_API_SOAP_f177686617cbuD",
    "customField1": "",
    "customField2": "",
    "customField3": "",
    "customField4": "",
    "ip": "",
    "billingAccount": "0",
    "commModuleManufacturer": "",
    "commModuleModel": "",
    "supplServices": {
        "vpn": false,
        "location": false,
        "dca": false,
        "dim": false,
        "advancedSupervision": false
    }

```

```
    },
    "sgsnIP": "",
    "ggsnIP": "",
    "servicePack": "BSPA_SOAP",
    "staticIp": "",
    "commercialGroup": "GS1_SVA",
    "subscriptionType": "UICC",
    "idlinOBCRM": "Customer_API_SOAP_for_SVA",
    "apn": "",
    "masterId": "",
    "masterName": "",
    "customerId": "",
    "aggregatorId": "",
    "aggregatorName": "",
    "staticApnIndex": -1,
    "apn0": "",
    "apn1": "",
    "apn2": "",
    "apn3": "",
    "apn4": "",
    "apn5": "",
    "apn6": "",
    "apn7": "",
    "apn8": "",
    "apn9": "",
    "staticIpAddress0": "",
    "staticIpAddress1": "",
    "staticIpAddress2": "",
    "staticIpAddress3": "",
    "staticIpAddress4": "",
    "staticIpAddress5": "",
    "staticIpAddress6": "",
    "staticIpAddress7": "",
    "staticIpAddress8": "",
    "staticIpAddress9": "",
    "basicServices": {
      "voiceOriginatedHome": true,
      "voiceOriginatedRoaming": true,
      "voiceOriginatedInternational": true,
      "voiceTerminatedHome": true,
      "voiceTerminatedRoaming": true,
      "smsOriginatedHome": true,
      "smsOriginatedRoaming": true,
      "smsOriginatedInternational": true,
      "smsTerminatedHome": true,
      "smsTerminatedRoaming": true,
      "dataHome": true,
      "dataRoaming": true
    }
  }
]
```

### 5.1.1.5 Fault response example

#### 5.1.1.5.1 Invalid prepaid voucher filter

```
HTTP/1.1 400 Bad Request
Content-Type: application/json
Content-Length: nnnn
Date: Tue, 18 Mar 2014 15:24:15 GMT

{
  "ClientException": {
    "exceptionCategory": "SVC",
    "exceptionId": 1021,
    "text": "Invalid parameter value: pvBasicService. Both p
vBasicService and pvCriticality must be present."
  }
}
```

#### 5.1.1.5.2 Not authorized filter

```
HTTP/1.1 403 Forbidden
Content-Type: application/json
Content-Length: nnnn
Date: Tue, 18 Mar 2014 15:24:15 GMT

{
  "ClientException": {
    "exceptionCategory": "SVC",
    "exceptionId": 1013,
    "text": "Operation is not allowed. User has no permissio
n to filter by pvBasicService"
  }
}
```

#### 5.1.1.5.3 Invalid last state filter

```
HTTP/1.1 400 Bad Request
Content-Type: application/json
Content-Length: nnnn
Date: Tue, 18 Mar 2014 15:24:15 GMT

{
  "ClientException": {
    "exceptionCategory": "SVC",
    "exceptionId": 1021,
    "text": "Invalid parameter: startState. It needs to be
used in combination with the parameter
'startLastStateChangeDate' or 'endLastStateChangeDate'"
  }
}
```

### 5.1.2 PUT

This operation modifies certain data of the given Subscription.

Resource URI:

`https://{env:port}/services/REST/GlobalM2M/Inventory/v13/r12/sim/{id}`

Where *id* may be the ICC, IMSI, MSISDN or *subscriptionId* in the following format:

- For ICC: `icc:{ICC value}`
- For IMSI: `imsi:{IMSI value}`
- For MSISDN: `tel:{MSISDN value}`
- For subscriptionID: `{subscriptionId value}`

#### 5.1.2.1 Input parameters

- Available query parameters: none
- Body (JSON format):

Parameters	Type	Optional	Description
lifeCycleStatus	string	Yes (choice)	Modified administrative status for the specified subscription. Available values are:  "INACTIVE_NEW"  "TEST"  "ACTIVATION_PENDANT"  "ACTIVATION_READY"  "DEACTIVATED"  "ACTIVE"  See definitions chapter for additional information.  Clarification: in case of a subscription without MSISDN, a success response does not necessarily mean that the change has already been done.
commercialGroup	string	Yes (choice)	Modified Commercial Group ID for the specified subscription
supervisionGroup	string	Yes (choice)	Modified Supervision Group name for the specified subscription
alias, customField1, customField2, customField3, customField4	string	Yes (choice)	Modified alias/Custom fields for the specified subscription
apn0, apn1, apn2, apn3, apn4, apn5, apn6, apn7, apn8, apn9  staticIpAddress0, staticIpAddress1, staticIpAddress2, staticIpAddress3, staticIpAddress4, staticIpAddress5,	string (apn0, apn1, apn2...)  uct:IpAddressType (staticIpAddress 0...9)	Yes (choice)	Modified APNs/staticIP for the specified subscription. To delete an APN a "-" must be sent. It also removes its corresponding static IP address.

staticIpAddress6, staticIpAddress7, staticIpAddress8, staticIpAddress9			
dailyConsumptionThreshold, monthlyConsumptionThreshold, monthlyExpenseLimit	tns:ConsumptionThresholdType , tns:ConsumptionThresholdType , tns:ExpenseLimitType	Yes (choice)	Modified consumption thresholds / limit for the specified subscription
lteEnabled	boolean	Yes (choice)	LTE is enabled in the subscription, when this parameter is set to true. When is set to false, LTE is disabled in the subscription.  Only available for Customers whose Provider has the flag LTE enabled, otherwise it will return an exception.
qci	int	Yes (choice)	Modified QCI for the specified subscription.  Only available for Customers that have the QCI self-management flag set to true, otherwise it will return an exception.
qciDuration	int	Yes (choice)	Duration of the given QCI. Valid values between 300 and 15552000 seconds.

### 5.1.2.2 Output parameters

- HTTP Response Code: 204 OK
- Body (JSON format): Void

### 5.1.2.3 Request example

#### 5.1.2.3.1 *Modify life cycle status*

```
PUT
/services/REST/GlobalM2M/Inventory/v13/r12/sim/icc:8934072100251
262559
HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
{
  "lifeCycleStatus": "ACTIVE"
}
```

#### 5.1.2.3.2 *Modify comercial group ID*

```
PUT
/services/REST/GlobalM2M/Inventory/v13/r12/sim/icc:8934072100251
262559
HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive

{
  "commercialGroup": "11630"
}
```

#### **5.1.2.3.3 Modify customer fields**

```
PUT
/services/REST/GlobalM2M/Inventory/v13/r12/sim/icc:8934072100251
262559
HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive

{
  "alias": "my_alias",
  "customField1": "cf1",
  "customField2": "cf2",
  "customField3": "cf3",
  "customField4": "cf4"
}
```

#### **5.1.2.3.4 Modify APN fields**

```
PUT
/services/REST/GlobalM2M/Inventory/v13/r12/sim/icc:8934072100251
262559
HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive

{
  "apn0": "api.customer.vpn",
  "apn1": "sm2m-apple.movistar.es",
  "apn2": "",
  "apn3": "",
}
```

```

"apn4": "",
"apn5": "",
"apn6": "",
"apn7": "",
"apn8": "",
"apn9": "",
"staticIpAddress0": {"ipv4": "33.13.14.234"},
"staticIpAddress1": {"ipv6": "2002:0db8:1234:1110:0:0:0:0001"}
}

```

#### 5.1.2.3.5 *Modify expense limits and consumption thresholds*

```

PUT
/services/REST/GlobalM2M/Inventory/v13/r12/sim/icc:8934072100251
262559
HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive

{
  "dailyConsumptionThreshold": {
    "dataEnabled": "false",
    "voiceEnabled": "false",
    "smsEnabled": "true",
    "smsLimit": "25",
    "dataTrafficCut": false,
    "voiceTrafficCut": false,
    "smsTrafficCut": false
  },
  "monthlyConsumptionThreshold": {
    "dataEnabled": "false",
    "voiceEnabled": "false",
    "smsEnabled": "false",
    "smsLimit": "200",
    "dataTrafficCut": false,
    "voiceTrafficCut": false,
    "smsTrafficCut": false
  },
  "monthlyExpenseLimit": {
    "dataEnabled": "false",
    "voiceEnabled": "false",
    "smsEnabled": "false",
    "totalEnabled": "true",
    "totalLimit": "25"
  }
}

```

#### 5.1.2.3.6 *Modify QCI*

You can set the optional parameter `qciDuration` in seconds if you need to return to the previous qci after this time.



```
PUT
/services/REST/GlobalM2M/Inventory/v13/r12/sim/icc:8934072100251
262559
HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
{
  "qci": "9",
  "qciDuration": 300
}
```

#### **5.1.2.3.7 Modify supervision group**

```
PUT
/services/REST/GlobalM2M/Inventory/v13/r12/sim/icc:8934072100251
262559
HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
{
  "supervisionGroup": "default_group"
}
```

#### **5.1.2.3.8 Modify supplementary services**

```
PUT
/services/REST/GlobalM2M/Inventory/v13/r12/sim/icc:8934072100251
262559
HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
{
  "vpnEnabled": true,
  "locationEnabled": true,
  "advancedSupervisionEnabled": true
}
```

#### **5.1.2.3.9 Modify basic services**

```
PUT
/services/REST/GlobalM2M/Inventory/v13/r12/sim/icc:8934072100251
262559
HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive

{
  "dataHomeEnabled": "false",
  "dataRoamingEnabled": false,
  "voiceMOHomeEnabled": false,
  "voiceMORoamingEnabled": false,
  "voiceMOInternationalEnabled": false,
  "voiceMTHomeEnabled": false,
  "voiceMTRoamingEnabled": false,
  "smsMOHomeEnabled": false,
  "smsMORoamingEnabled": false,
  "smsMOInternationalEnabled": false,
  "smsMTHomeEnabled": false,
  "smsMTRoamingEnabled": false
}
```

#### **5.1.2.3.10 Modify imei lock**

```
PUT
/services/REST/GlobalM2M/Inventory/v13/r12/sim/icc:8934072100251
262559
HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive

{
  "imeiLock": "339347786089828"
}
```

#### **5.1.2.3.11 Modify radio technologies**

```
PUT
/services/REST/GlobalM2M/Inventory/v13/r12/sim/icc:8934072100251
262559
HTTP/1.1
Content-Type: application/json;charset=UTF-8
```

```
Content-Length: nnnn
Accept-Encoding: gzip, deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

```
{
  "tec2GEnabled": true,
  "tec3GEnabled": true,
  "tec5GEnabled": false,
  "tecLteEnabled": false,
  "tecNbIotEnabled": false
}
```

#### 5.1.2.4 Response example

```
HTTP/1.1 204 No Content
Date: Thu, 04 Jun 2009 02:51:59 GMT
```

#### 5.1.2.5 Fault response example

##### 5.1.2.5.1 *Operation is not allowed: roaming enabled but not home*

```
HTTP/1.1 403 Forbidden
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2012 02:52:00 GMT

{
  "ClientException": {
    "exceptionId": 1013,
    "text": "Operation is not allowed: Incoming sms roaming can
not be enabled if home is not enabled",
    "exceptionCategory": "SVC"
  }
}
```

##### 5.1.2.5.2 *Operation is not allowed: service not allowed in commercial plan*

```
HTTP/1.1 403 Forbidden
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2012 02:52:00 GMT

{
  "ClientException": {
    "exceptionId": 1013,
    "text": "Operation is not allowed: This service cannot be
activated because it is deactivated in assigned commercial
plan",
    "exceptionCategory": "SVC"
  }
}
```

```
}  
}
```

#### **5.1.2.5.3 Operation is not allowed: outgoing roaming voice and sms shall be synchronized**

```
HTTP/1.1 403 Forbidden  
Content-Type: application/json  
Content-Length: nnnn  
Date: Thu, 01 Jun 2012 02:52:00 GMT  
  
{  
  "ClientException": {  
    "exceptionId": 1013,  
    "text": "Operation is not allowed: Outgoing roaming voice  
and sms must be linked",  
    "exceptionCategory": "SVC"  
  }  
}
```

#### **5.1.2.5.4 Operation is not allowed: services not allowed in comercial provider**

Outgoing roaming/home/international shall be set to the same state for each service (sms/voice/data) in case of a commercial provider.

- When enabling or disabling incoming calls: incoming voice home & roaming shall be enabled or disabling as well.
- When enabling or disabling outgoings calls: outgoing voice home & roaming & international shall be enabled or disabling as well.
- When enabling or disabling incoming sms: incoming sms home & roaming shall be enabled or disabling as well.
- When enabling or disabling outgoings sms: outgoing sms home & roaming & international shall be enabled or disabling as well.
- When enabling or disabling data traffic: data home & roaming shall be enabled or disabling as well.

```
HTTP/1.1 400 Bad Request  
Content-Type: application/json  
Content-Length: nnnn  
Date: Thu, 01 Jun 2012 02:52:00 GMT  
  
{
```

```
"ClientException": {  
  "exceptionId": 1013,  
  "text": "Operation is not allowed: Outgoing voice  
roaming/home/international shall be linked for commercial  
provider",  
  "exceptionCategory": "SVC"  
}
```

#### **5.1.2.5.5 Operation is not allowed: supplementary service is not enabled for the Customer**

```
HTTP/1.1 403 Forbidden  
Content-Type: application/json  
Content-Length: nnnn  
Date: Thu, 01 Jun 2012 02:52:00 GMT  
  
{  
  "ClientException": {  
    "exceptionId": 1013,  
    "text": "Operation is not allowed: The advance service  
cannot be activated because it's not enabled for customer  
Customer_API_SOAP14bc4e28b63kBSC",  
    "exceptionCategory": "SVC"  
  }  
}
```

#### **5.1.2.5.6 Invalid parameter value: invalid IPv6**

```
HTTP/1.1 403 Forbidden  
Content-Type: application/json  
Content-Length: nnnn  
Date: Thu, 01 Jun 2012 02:52:00 GMT  
  
{  
  "ClientException": {  
    "exceptionCategory": "SVC",  
    "exceptionId": "SVC 1021",  
    "text": "Invalid parameter value: staticIpAddresses.  
\\n[JSON]\\n{\\\"staticIpAddresses\\\":{\\\"notAllowedIpAddress\\\":\\\"'ac3  
5:23ef:0501:fffa:0:0:0:0' not allowed. Last 64 bits cannot be  
zero\\\"}}\\n[\\\"JSON\\\"}\\n"  
  }  
}
```

#### **5.1.2.5.7 Operation is not allowed: Same QCI with new duration**

```
HTTP/1.1 403 Forbidden  
Content-Type: application/json  
Content-Length: nnnn  
Date: Thu, 01 Jun 2012 02:52:00 GMT
```

```
{
  "ClientException": {
    "exceptionCategory": "SVC",
    "exceptionId": 1013,
    "text": "Operation is not allowed: It is not allowed to
change to the same QCI with a new duration when no duration is
configured."
  }
}
```

## 5.2 Resource inventory presence

This resource is used to retrieve detailed network presence status of the given subscription.

Resource URI:

`https://{env:port}/services/REST/GlobalM2M/Inventory/v13/r12/sim/{id}/presence`

Where *id* may be the ICC, IMSI, MSISDN or *subscriptionId* in the following format:

- For ICC: `icc:{ICC value}`
- For IMSI: `imsi:{IMSI value}`
- For MSISDN: `tel:{MSISDN value}`
- For subscriptionID: `{subscriptionId value}`

### 5.2.1 GET

Retrieves detailed network presence status of the given subscription.

#### 5.2.1.1 Input parameters

- Available query parameters: None
- Body: Void entity-body

#### 5.2.1.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): Element `presenceDetailData` of type `PresenceDetailData`.

#### 5.2.1.3 Request example

```
GET
/services/REST/GlobalM2M/Inventory/v13/r12/sim/icc:8934072100251
262559/presence HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

#### 5.2.1.4 Response example

```
HTTP/1.1 200 OK
```

```
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2012 02:52:00 GMT

{"presenceDetailData": {
  "level": "NOT_REGISTERED",
  "cause": "NOT_REGISTERED",
  "timeStamp": "2014-03-14T14:08:46Z"
}}
```

### 5.3 Resource inventory location

This resource is used to retrieve geolocation information of the given subscription.

Resource URI:

`https://{env:port}/services/REST/GlobalM2M/Inventory/v13/r12/sim/{id}/location`

Where *id* may be the ICC, IMSI, MSISDN or *subscriptionId* in the following format:

- For ICC: `icc:{ICC value}`
- For IMSI: `imsi:{IMSI value}`
- For MSISDN: `tel:{MSISDN value}`
- For subscriptionID: `{subscriptionId value}`

#### 5.3.1 GET

Retrieves detailed geolocation information of the given subscription.

##### 5.3.1.1 Input parameters

- Available query parameters: None
- Body: Void entity-body

##### 5.3.1.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): Element `locationDetailData` of type `LocationDetailData`.

##### 5.3.1.3 Request example

```
GET
/services/REST/GlobalM2M/Inventory/v13/r12/sim/icc:8934072100251
262559/location
HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

##### 5.3.1.4 Response example

```
HTTP/1.1 200 OK
```

```
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2012 02:52:00 GMT

{
  "locationDetailData": {
    "manualLocation": {
      "timestamp": "2016-01-07T12:16:52Z",
      "coordinates": {
        "latitude": "40.47413",
        "longitude": "-3.63302"
      },
      "postalCode": "35346"
    },
    "automaticLocation": {
      "timestamp": "2016-01-07T12:16:52Z",
      "coordinates": {
        "latitude": "40.47328",
        "longitude": "-3.63228"
      },
      "postalCode": "35346"
    }
  }
}
```

## 5.4 Resource inventory status

This resource is used to retrieve administrative status information of the given subscription.

Resource URI:

<https://{env:port}/services/REST/GlobalM2M/Inventory/v13/r12/sim/{id}/status>

Where *id* may be the ICC, IMSI, MSISDN or *subscriptionId* in the following format:

- For ICC: `icc:{ICC value}`
- For IMSI: `imsi:{IMSI value}`
- For MSISDN: `tel:{MSISDN value}`
- For subscriptionID: `{subscriptionId value}`

### 5.4.1 GET

Retrieves detailed administrative status information of the given subscription.

#### 5.4.1.1 Input parameters

- Available query parameters: None
- Body: Void entity-body

#### 5.4.1.2 Output parameters

- HTTP Response Code: 200 OK



- Body (JSON format): Element *statusDetailData* of type *StatusDetailData*.

#### 5.4.1.3 Request example

```
GET
/services/REST/GlobalM2M/Inventory/v13/r12/sim/icc:8934072100251
262559/status HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

#### 5.4.1.4 Response example

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnnn
Date: Tue, 18 Mar 2014 15:24:15 GMT

{"statusDetailData": {
  "state": "ACTIVE",
  "changeReason": "Status change petition sended by
subscription service.",
  "currentStatusDate": "2014-03-20T10:18:45.000Z",
  "changeUserName": "API_AlvaroCustomer",
  "changeUserId": "<unknown user>",
  "automatic": false
}}
```

### 5.5 Resource inventory statusHistory

This resource is used to retrieve administrative status history information of the given subscription.

Resource URI:

`https://{env:port}/services/REST/GlobalM2M/Inventory/v13/r12/sim/{id}/statusHistory`

Where *id* may be the ICC, IMSI, MSISDN or *subscriptionId* in the following format:

- For ICC: `icc:{ICC value}`
- For IMSI: `imsi:{IMSI value}`
- For MSISDN: `tel:{MSISDN value}`
- For subscriptionID: `{subscriptionId value}`

#### 5.5.1 GET

Retrieves detailed administrative status history information of the given subscription.

##### 5.5.1.1 Input parameters

- Available query parameters:

Parameter	Type	Optional	Description
startDate	datetime	Yes	Start date to retrieve history information. Format is YYYY-MM-DD Please note only year-month-day is taken into account.
endDate	datetime	Yes	End date to retrieve history information. Format is YYYY-MM-DD Please note only year-month-day is taken into account.

- Body: Void entity-body

#### 5.5.1.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): Element *statusHistoryData* of type *StatusHistoryData*.

#### 5.5.1.3 Request example

```
GET
/services/REST/GlobalM2M/Inventory/v13/r12/sim/icc:8934072100251
262559/statusHistory?startDate=2014-03-20&endDate=2014-03-21
HTTP/1.1
Accept-Encoding: gzip, deflate
Accept: application/json
```

#### 5.5.1.4 Response example

```
Example:
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2012 02:52:00 GMT

{"statusHistoryData": [
  {
    "state": "ACTIVE",
    "life_cycle": {
      "id": "17",
      "name": "52454cadb724f6.12432041"
    },
    "automatic": false,
    "time": "2014-03-20T09:03:11+00:00",
    "reason": "Status change petition sended by subscription
service.",
    "user": "API_movistar"
  },
  {
    "state": "DEACTIVATED",
    "life_cycle": {
      "id": "17",
      "name": "52454cadb724f6.12432041"
    },
    "automatic": false,
    "time": "2014-03-20T10:18:31+00:00",
```

```
"reason": "Status change petition sended by subscription  
service.",  
  "user": "API_AlvaroCustomer"  
}  
}]}
```

## 5.6 Resource inventory timeAndConsumption

This resource is used to manage time and consumption voucher of the given subscription.

Resource URI:

`https://{env:port}/services/REST/GlobalM2M/Inventory/v13/r12/sim/{id}/timeAndConsumption`

Where *id* may be the ICC, IMSI, MSISDN or *subscriptionId* in the following format:

- For ICC: `icc:{ICC value}`
- For IMSI: `imsi:{IMSI value}`
- For MSISDN: `tel:{MSISDN value}`
- For subscriptionID: `{subscriptionId value}`

### 5.6.1 GET

Retrieves data of time and consumption voucher for the given subscription.

#### 5.6.1.1 Input parameters

- Available query parameters: None
- Body: Void entity-body

#### 5.6.1.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): Time and consumption voucher for data.

#### 5.6.1.3 Request example

```
GET  
/services/REST/GlobalM2M/Inventory/v13/r12/sim/icc:8934072100251  
262559/timeAndConsumption HTTP/1.1  
Accept-Encoding: gzip,deflate  
Accept: application/json  
Host: host.com  
Connection: Keep-Alive
```

#### 5.6.1.4 Response example

```
HTTP/1.1 200 OK  
Content-Type: application/json  
Content-Length: nnnn  
Date: Thu, 01 Jun 2012 02:52:00 GMT
```

```
{
  "timeAndConsumptionVoucher": {
    "enabled": "true",
    "dataTime": 10,
    "dataConsumption": 20
  }
}
```

## 5.6.2 PUT

Sets time and consumption voucher for the given subscription.

### 5.6.2.1 Input parameters

- Available query parameters: None
- Body (JSON format):

Parameter	Type	Optional	Description
enabled	boolean	Yes	True if the voucher is enabled
dataTime	int	No (if enabled is false)	A number of seconds available for the subscription. While the amount of time specified, the subscription will be able to consume data traffic.
dataConsumption	int	No (if enabled is false)	A number of bytes available for the subscription. From this operation, the subscription is granted with this amount of bytes before restricting data traffic.

### 5.6.2.2 Output parameters

- HTTP Response Code: 204 OK
- Body: Void.

### 5.6.2.3 Request example

```
PUT
/services/REST/GlobalM2M/Inventory/v13/r12/sim/icc:8934072100251
262559/timeAndConsumption HTTP/1.1
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2012 02:52:00 GMT

{
  "dataConsumption": "0",
  "dataTime": "0",
  "enabled": "true"
}
```

### 5.6.2.4 Response example

```
HTTP/1.1 204 OK
Date: Thu, 01 Jun 2012 02:52:00 GMT
```

## 5.7 Resource inventory SMS

This resource is used to send a SMS to several subscribers.

Resource URI:

`https://{env:port}/services/REST/GlobalM2M/Inventory/v13/r12/sim/sms`

### 5.7.1 POST

Sends SMS to several subscribers.

#### 5.7.1.1 Input parameters

- Available query parameters: None
- Body: Body (JSON format)

Parameter	Type	Optional	Description
destSubscriptions	gm2minve_s1t:SubscriptionIdType [0..unbounded]	No	Subscriptions that will receive this SMS.
text	string	No	The text of the message.
originMsisdn	uct:E164Type	Yes	Origin MSISDN. If not provided default SMS-AO origin number will be used.
hasDeliveryReport	boolean	Yes	Activate the delivery report generation option.

The destination subscription shall follow the format depending on the identifier type used:

- For ICC: `icc:{ICC value}`
- For IMSI: `imsi:{IMSI value}`
- For MSISDN: `tel:{MSISDN value}`
- For subscriptionID: `{value}`

#### 5.7.1.2 Output parameters

- HTTP Response Code: 201 Created
- Body (JSON format): *WatcherId* for retrieving the status operation by means of generating the SMS-AO report.

#### 5.7.1.3 Request example

Example using ICC identifier:

```
POST /services/REST/GlobalM2M/Inventory/v13/r12/sim/sms
HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
{
```

```
{
  "destSubscriptions": [
    "icc:89536222421979385264"
  ],
  "text": "text",
  "originMsisdn": "34669000002",
  "hasDeliveryReport": true
}
```

Example using MSISDN and IMSI identifiers:

```
POST /services/REST/GlobalM2M/Inventory/v13/r12/sim/sms
HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
{
  "destSubscriptions": [
    "tel:34673501902",
    "tel:34453266921",
    "imsi:214071418484295"
  ],
  "text": "text",
  "originMsisdn": "34669000002",
  "hasDeliveryReport": true
}
```

Example using Subscription identifier:

```
POST /services/REST/GlobalM2M/Inventory/v13/r12/sim/sms
HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
{
  "destSubscriptions": [
    "1527"
  ],
  "text": "text",
  "originMsisdn": "34669000002",
  "hasDeliveryReport": true
}
```

#### 5.7.1.4 Response example

```
HTTP/1.1 201 Created
Content-Type: application/json
Content-Length: nnnn
```

```
Date: Thu, 01 Jun 2012 02:52:00 GMT
Location:
https:// host:port/services
/services/REST/GlobalM2M/Inventory/v13/r12/sim/sms/{watcherId}

{
  "watcherId": "535e0eb0f4d15d870d000003"
}
```

### 5.7.2 GET

Gets the delivery operation status.

Resource URI:

`https://{env:port}/services/REST/GlobalM2M/Inventory/v13/r12/sim/sms/{watcherId}`

#### 5.7.2.1 Input parameters

- Available query parameters: None
- Body: Void entity-body

#### 5.7.2.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): Status operation

#### 5.7.2.3 Request example

```
GET
/services/REST/GlobalM2M/Inventory/v13/r12/sim/sms/{watcherId}
HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

#### 5.7.2.4 Response example

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2012 02:52:00 GMT

{
  "result": {
    "status": "active"
  }
}
```

## 5.8 Resource inventory downloadAndActivateProfile

This operation allows downloading and activating the selected Profile, defined in the swap rules, on the origin EUICC subscription (swappable SIM). The target customer and

commercial group shall accomplish the established swap rules, and besides, the origin subscription shall be in active status

Resource URI:

`https://{env:port}/services/REST/GlobalM2M/Inventory/v13/r12/sim/{id}/downloadAndActivateProfile`

Where *id* may be the ICC, IMSI, MSISDN or *subscriptionId* in the following format:

- For ICC: `icc:{ICC value}`
- For IMSI: `imsi:{IMSI value}`
- For MSISDN: `tel:{MSISDN value}`
- For subscriptionID: `{subscriptionId value}`

## 5.8.1 PUT

### 5.8.1.1 Input parameters

- Available query parameters: None
- Body: Void entity-body

Parameter	Type	Optional	Description
targetCustomerId	gm2m_s1t:myStr	No	Target Customer ID with allowed swap rule.
targetCommercialGroupId	gm2m_s1t:myStr	No	Target Commercial Group ID with allowed swap rule.

### 5.8.1.2 Output parameters

- HTTP Response Code: 204 OK
- Body (JSON format).

### 5.8.1.3 Request example

```
PUT /services/REST/GlobalM2M/Inventory/v13/r12/sim/icc:
8934072176000000128/downloadAndActivateProfile
HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive

{
  "targetCustomerId": "swapCustomerTarget",
  "targetCommercialGroupId": "swapCommercialGroupTarget"
}
```



#### 5.8.1.4 Response example

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2012 02:52:00 GMT
```

### 5.9 Resource inventory networkReset

This operation performs a cancel location over a SIM. You can choose the type network reset to be performed: "2G/3G", or "4G" or both

Resource URI:

`https://{env:port}/services/REST/GlobalM2M/Inventory/v13/r12/sim/{id}/networkReset`

Where *id* may be the ICC, IMSI, MSISDN or *subscriptionId* in the following format:

- For ICC: `icc:{ICC value}`
- For IMSI: `imsi:{IMSI value}`
- For MSISDN: `tel:{MSISDN value}`
- For subscriptionID: `{subscriptionId value}`

#### 5.9.1 PUT

##### 5.9.1.1 Input parameters

- Available query parameters: None
- Body: Void entity-body

Parameter	Type	Optional	Description
network2g3g	boolean	Yes	Reset network of the given SIM for 2G/3G.
network4g	boolean	Yes	Reset network of the given SIM for 4G in case of LTE is active.

##### 5.9.1.2 Output parameters

- HTTP Response Code: 204 OK
- Body (JSON format).

##### 5.9.1.3 Request example

```
PUT
/services/REST/GlobalM2M/Inventory/v13/r12/sim/icc:8934072176000
000128/networkReset
HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
```

```
Host: host.com
Connection: Keep-Alive

{"network2g3g": true}
```

#### 5.9.1.4 Response example

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2012 02:52:00 GMT

{
  "result": true
}
```

### 5.10 Resource inventory block

This resource is used to block/unblock the subscription. When a subscription is blocked, it becomes to suspended status. Only for Customers belonging to VIVO Provider.

Resource URI:

<https://{env:port}/services/REST/GlobalM2M/Inventory/v13/r12/sim/{id}/block>

Where *id* may be the ICC, IMSI, MSISDN or *subscriptionId* in the following format:

- For ICC: icc:{ICC value}
- For IMSI: imsi:{IMSI value}
- For MSISDN: msisdn:{MSISDN value}
- For subscriptionID: {subscriptionId value}

#### 5.10.1 PUT

It blocks or unblocks the subscription. In case of the subscription is already blocked, it modifies the block reason of the blocking. While the SIM is blocked, no monthly fee is applied. If the SIM is blocked, modifying the subscription to change the lifecycle state doesn't work.

If the SIM is already blocked by any other reasons (fraud, non-payment...), this operation will return an error.

##### 5.10.1.1 Input parameters

- Available query parameters: none.
- Body (JSON format)

Parameters	Type	Optional	Description
------------	------	----------	-------------

block	boolean	No	When is set to true, the subscription is blocked. When is set to false, the subscription is unblocked.
blockCause	string	No	<p>When block is set to true, the block cause is added to the concatenated lock list.</p> <p>When block is set to false, the block cause is removed from the concatenated lock list.</p> <p>Available values are:</p> <ul style="list-style-type: none"> <li>• user</li> <li>• decommission</li> </ul> <p>You cannot block with "user" block-cause more than once a year.</p>

With "user" block-cause, the SIM lifecycle state will become “Suspended”. If you don’t unblock the SIM, after 120 days (decided by Vivo), the SIM’s will be moved to the previous lifecycle state. You can block with block-cause "user" once in a period of 365 days.

With "decommission" block-cause: the SIM lifecycle state will become “Suspended”. If you don’t unblock the SIM, after 180 (decided by Vivo) days, there are two scenarios:

- If the SIM’s isn’t linked to a customer order, the assigned MSISDN is returned to IT system’s to be re-used and the SIM’s will be retired and deleted from the systems.
- If the SIM’s is linked to a customer order, the assigned MSISDN is returned to IT system’s to be re-used but the SIM’s stay in suspended status.

#### 5.10.1.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): Empty entity-body.

#### 5.10.1.3 Request example

```
PUT
https://{env:port}/services/REST/GlobalM2M/Inventory/v13/r12/sim
/icc:893407430000292277/block HTTP/1.1

Accept-Encoding: gzip,deflate
Accept: application/json
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Host: host.com
Connection: Keep-Alive

{
  "block":true,
  "block_cause":"user"
}
```

#### 5.10.1.4 Output parameters

- HTTP Response Code: 200 OK

- Body (JSON format): Empty entity-body.

#### 5.10.1.5 Fault error response

##### 5.10.1.5.1 Validation error

```
HTTP/1.1 400 Bad Request
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2012 02:52:00 GMT

{
  "ClientException":{
    "exceptionCategory":"SVC",
    "exceptionId":"SVC 1021",
    "text":"Invalid parameter value: block_cause"
  }
}
```

##### 5.10.1.5.2 Not allowed error. Cannot block with block-cause "user" more than once a year

```
HTTP/1.1 403 Forbidden
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2012 02:52:00 GMT

{
  "ClientException":{
    "exceptionCategory":"SVC",
    "exceptionId":"SVC 1013",
    "text":" Operation is not allowed: One year must be ellapsed
from last block."
  }
}
```

## 5.11 Resource inventory consumptionHistory

This resource is used to retrieve consumption history information of the given subscription.

Resource URI:

<https://{env:port}/services/REST/GlobalM2M/Inventory/v13/r12/sim/{id}/consumptionHistory>

Where *id* may be the ICC, IMSI, MSISDN or *subscriptionId* in the following format:

- For ICC: icc:{ICC value}
- For IMSI: imsi:{IMSI value}
- For MSISDN: tel:{MSISDN value}
- For subscriptionID: {subscriptionId value}

### 5.11.1 GET

Retrieves detailed consumption history information of the given subscription.

#### 5.11.1.1 Input parameters

- Available query parameters:

Parameter	Type	Optional	Description
startDate	datetime	Yes	Start date to retrieve the history information. Format is YYYY-MM-DD Please note only year-month-day is taken into account.
endDate	datetime	Yes	End date to retrieve the history information. Format is YYYY-MM-DD Please note only year-month-day is taken into account.
monthly	boolean	Yes	It returns the monthly consumption between dates, otherwise the daily consumption.

- Body: Void entity-body

#### 5.11.1.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): Element *consumptionHistoryData*.

Parameter	Type	Optional	Description
date	datetime	No	Date in format YYYY-MM-DD. It is the beginning of billing cycle when the period is "month".
voice	int	No	Voice consumption in seconds
sms	int	No	SMS consumption in messages
data	int	No	Data consumption in bytes

#### 5.11.1.3 Request example

```
GET
/services/REST/GlobalM2M/Inventory/v13/r12/sim/icc:8934072100251
262559/consumptionHistory?startDate=2022-05-01&endDate=2022-06-
01&monthly=true
HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
```

#### 5.11.1.4 Response example

```
Example:
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2023 02:52:00 GMT

{
```

```

    "consumptionHistoryData": [
      {
        "date": "2022-05-01",
        "voice": 0,
        "sms": 1,
        "data": 565023
      },
      {
        "date": "2022-06-01",
        "voice": 600,
        "sms": 2,
        "data": 0
      }
    ]
  }
}

```

## 5.12 Resource inventory gprsHistory

This resource is used to retrieve gprs history information of the given subscription.

Resource URI:

<https://{env:port}/services/REST/GlobalM2M/Inventory/v13/r12/sim/{id}/gprsHistory>

Where *id* may be the ICC, IMSI, MSISDN or *subscriptionId* in the following format:

- For ICC: icc:{ICC value}
- For IMSI: imsi:{IMSI value}
- For MSISDN: tel:{MSISDN value}
- For subscriptionID: {subscriptionId value}

### 5.12.1 GET

Retrieves detailed gprs history information of the given subscription.

#### 5.12.1.1 Input parameters

- Available query parameters:

Parameter	Type	Optional	Description
startDate	datetime	Yes	Start date to retrieve the gprs history information. Format is YYYY-MM-DD  Please note only year-month-day is taken into account.
endDate	datetime	Yes	End date to retrieve the gprs history information. Format is YYYY-MM-DD  Please note only year-month-day is taken into account.

- Body: Void entity-body

#### 5.12.1.2 Output parameters

- HTTP Response Code: 200 OK

- Body (JSON format): Element *gprsHistoryData*.

Parameter	Type	Optional	Description
ip	string	Yes	IP address
sentBytes	int	Yes	Bytes transmitted
receivedBytes	int	Yes	Bytes received
sentPackages	int	Yes	Packages transmitted
receivedPackages	int	Yes	Packages received
startTimestamp	datetime	Yes	Opening context date in format YYYY-MM-DDTHH:MM:SSZ
endTimestamp	datetime	Yes	End of context date in format YYYY-MM-DDTHH:MM:SSZ
apn	string	Yes	Access point name
ggsnIp	string	Yes	GGSN last IP
sgsnIp	string	Yes	SGSN last IP
sgsn.operator.company	string	Yes	Operator company
sgsn.operator.countryCode	string	Yes	Operator country code
cgi	string	Yes	Cell global identity
ratTypeStart	int	Yes	Access technology in opening context: 1: 3G 2: 2G 5: 3.5G 6: 4G 8: NB-IoT 9: LTE-M 10: 5G 255: Unknown
ratTypeEnd	int	Yes	Access technology in end of context: 1: 3G 2: 2G 5: 3.5G 6: 4G 8: NB-IoT 9: LTE-M 10: 5G 255: Unknown
sessionId	string	Yes	Id of the session

### 5.12.1.3 Request example

```
GET
/services/REST/GlobalM2M/Inventory/v13/r12/sim/icc:8934072100251
262559/gprsHistory?startDate=2023-06-20&endDate=2023-06-21
HTTP/1.1
Accept-Encoding: gzip, deflate
Accept: application/json
```

### 5.12.1.4 Response example

```
Example:
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2023 02:52:00 GMT

{
  "gprsHistoryData": [
    {
      "sentBytes": 1887,
      "receivedBytes": 25263,
      "sentPackages": 34,
      "receivedPackages": 27,
      "ip": "10.213.8.146",
      "startTimestamp": "2023-06-19T13:21:20Z",
      "endTimestamp": "2023-06-21T05:50:49Z",
      "apn": "sm2m-apple.movistar.es",
      "ggsnIp": "80.27.124.150",
      "sgsn": {
        "ip": "172.18.154.1",
        "operator": {
          "company": "Orange España",
          "countryCode": "ES"
        }
      },
      "cgi": "214-09-1-64",
      "ratTypeStart": 2,
      "ratTypeEnd": 2,
      "sessionId": "501b7c9601b17f27"
    }
  ]
}
```

## 5.13 Resource prebill

This resource is used to list Prebills of consumer Customer account.

Resource URI:

<https://{env:port}/services/REST/GlobalM2M/Prebill/v1/r12/prebill>

### 5.13.1 GET

Retrieves data of time and consumption voucher for the given subscription.



#### 5.13.1.1 Input parameters

- Available query parameters:

Parameter	Type	Optional	Description
billingAccountID	string	Yes	Billing Account ID whose prebill(s) will be retrieved. If not present, every billing account will be returned.
startDate	datetime	Yes	Start date of the period (YYYY-MM-DD)
endDate	datetime	Yes	End date of the period (YYYY-MM-DD)

- Body: Void entity-body

#### 5.13.1.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): Array of prebills.

#### 5.13.1.3 Request example

```
GET
/services/REST/GlobalM2M/Prebill/v1/r12/prebill?billingAccountID=0&startDate=2014-03-19&endDate=2014-03-20 HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

#### 5.13.1.4 Response example

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2012 02:52:00 GMT

{"prebill": [
  {
    "totalTrafficUsage": {
      "data": "0",
      "voice": "0",
      "sms": "0"
    },
    "serviceGlobalCharges": 0,
    "customer": {
      "type": "customer",
      "companyAddress": {
        "line1": "linea modificada",
        "line2": "linea 2 modificada",
        "city": "cityRest",
        "state": "state modificado",
        "country": "ES",
        "postalCode": "23456789"
      },
      "defaultBillingAccount": {"fiscalNumber": "78914565212"}
    }
  }
]}
```

```

        "currencyName": "Euro"
    },
    "serviceProvider": {
        "type": "provider",
        "name": "movistar",
        "commercialName": "",
        "brand": "movistar",
        "fiscalNumber": "",
        "companyAddress": {
            "line1": "line1",
            "line2": "",
            "city": "Madrid",
            "state": "Madrid",
            "country": "AS",
            "postalCode": "28756"
        }
    },
    "billingAccountName": "Rest75567756",
    "creationDate": "2014-03-14",
    "issuedDate": "2014-03-20",
    "lastModificationDate": "2014-03-20",
    "totalCharge": 32323,
    "prebillID": "Alv144c03fc446zk195A201402280004",
    "customerID": "customer-AlvaroCustomer141ee88ecdfS2WxC6A",
    "customerName": "AlvaroCustomer",
    "currency": "978",
    "customerID1OBCRM": "alvarocustomer",
    "billingPeriodStartDate": "2014-02-01",
    "billingPeriodEndDate": "2014-02-28",
    "subscriptionsCharges": 0,
    "prebillIDinOBCRM": "qwertyuio234567",
    "adjustment": 32323,
    "discount": [],
    "tax": [],
    "totalNetCharge": 0,
    "poolCharges": 0,
    "customerID2OBCRM": "",
    "status": "published"
},
{
    "totalTrafficUsage": {
        "data": "0",
        "voice": "0",
        "sms": "0"
    },
    "serviceGlobalCharges": 0,
    "customer": {
        "type": "customer",
        "companyAddress": {
            "line1": "linea modificada",
            "line2": "linea 2 modificada",
            "city": "cityRest",
            "state": "state modificado",
            "country": "ES",
            "postalCode": "23456789"
        }
    },

```

```

        "defaultBillingAccount": {"fiscalNumber":
"78914565212"},
        "currencyName": "Euro"
    },
    "serviceProvider": {
        "type": "provider",
        "name": "movistar",
        "commercialName": "",
        "brand": "movistar",
        "fiscalNumber": "",
        "companyAddress": {
            "line1": "line1",
            "line2": "",
            "city": "Madrid",
            "state": "Madrid",
            "country": "AS",
            "postalCode": "28756"
        }
    }
}
]]

```

## 5.14 Resource prebill export

This resource is used to obtain XML format of a prebill.

Resource URI:

<https://{env:port}/services/REST/GlobalM2M/Prebill/v1/r12/prebill/{prebillID}/export>

Where *prebillID* is a *PrebillID* obtained previously using prebill resource.

### 5.14.1 GET

Retrieves URI where the consumer can retrieve prebill in XML format.

#### 5.14.1.1 Input parameters

- Available query parameters: None
- Body: Void entity-body

#### 5.14.1.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): URL where consumer can execute a GET request to download exported prebill.

#### 5.14.1.3 Request example

```
GET /services/REST/GlobalM2M/Prebill/v1/r12/prebill/{prebillID}
/export
```

```

Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json

```

```
Host: host.com
Connection: Keep-Alive
```

#### 5.14.1.4 Response example

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

{"resultURL": "http://m2m-movistar-es.int-
m2mglobserv02.hi.inet/api/download/R1Dw53tQA62x57zpX0YcYPXsW06sb
Z2BUqp4qvMn6r78xK5v9YANGGx4c4i3"}
```

### 5.15 Resource **billingAccount**

This resource is used to list consumer Customer Billing Accounts.

Resource URI:

`https://{env:port}/services/REST/GlobalM2M/BillingAccount/v2/r12/customer/{customerID}/billingAccount`

Where *customerID* is a Customer Account ID (consumer Customer account).

#### 5.15.1 GET

Retrieves Customer Billing Accounts list.

##### 5.15.1.1 Input parameters

- Available query parameters: None
- Body: Void entity-body

##### 5.15.1.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): *billingAccount* element array

##### 5.15.1.3 Request example

```
GET
/services/REST/GlobalM2M/BillingAccount/v2/r12/customer/{customerID}/billingAccount HTTP/1.1
Accept-Encoding: gzip, deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

##### 5.15.1.4 Response example

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnnn
```

Date: Tue, 18 Mar 2014 15:24:15 GMT

```
{
  "billingAccount": [
    {
      "billingAccountName": "default",
      "billingAccountId": "0",
      "fiscalNumber": "23456789098765",
      "billable": true,
      "addressIsCompanyAddress": false,
      "address": {
        "line1": "linea modificada",
        "line2": "linea 2 modificada",
        "city": "cityRest",
        "state": "state modificado",
        "country": "ES",
        "postalCode": "23456789"
      },
      "contactIsPrimaryContact": true,
      "paymentMethod": "visa",
      "expenseCounter": {
        "limit": 0,
        "counter": 26168997
      },
      "billingCycleNextStartDay": 1,
      "billingCycleModifiable": true,
      "commercialGroup": [
        "1727",
        "1162",
        "56"
      ],
      "autoPrebillIssue": true,
      "billAccIDinSPCRM": "Modif23457",
      "paymentData": "visa",
      "subscriptions": 0
    },
    {
      "billingAccountName": "Cuenta adic 1",
      "billingAccountId": "1",
      "fiscalNumber": "2345678L",
      "billable": true,
      "addressIsCompanyAddress": true,
      "contactIsPrimaryContact": true,
      "paymentMethod": "",
      "expenseCounter": {
        "limit": 0,
        "counter": 0
      },
      "billingCycleNextStartDay": 1,
      "billingCycleModifiable": true,
      "autoPrebillIssue": true,
      "billAccIDinSPCRM": "sdfghjk",
      "paymentData": "",
      "subscriptions": 0
    },
    {
      "billingAccountName": "prueba cuenta",

```

```

    "billingAccountId": "2",
    "fiscalNumber": "234567890",
    "billable": true,
    "addressIsCompanyAddress": true,
    "contactIsPrimaryContact": true,
    "paymentMethod": "visa",
    "expenseCounter": {
        "limit": 0,
        "counter": 200000
    },
    "billingCycleNextStartDay": 1,
    "billingCycleModifiable": true,
    "commercialGroup": ["2190"],
    "autoPrebillIssue": true,
    "billAccIDinSPCRM": "sdfghjk87656",
    "paymentData": "234567890",
    "subscriptions": 0
},
{
    "billingAccountName": "Rest9536499",
    "billingAccountId": "6",
    "fiscalNumber": "78914565212",
    "billable": true,
    "addressIsCompanyAddress": true,
    "contactIsPrimaryContact": true,
    "paymentMethod": "visa",
    "expenseCounter": {
        "limit": 0,
        "counter": 0
    },
    "billingCycleNextStartDay": 1,
    "billingCycleModifiable": true,
    "autoPrebillIssue": true,
    "billAccIDinSPCRM": "qwertyuio234567",
    "paymentData": "visa",
    "subscriptions": 0
}
]
}

```

## 5.16 Resource **billingAccount** detail

This resource is used to retrieve a detailed billing account related to the Customer.

Resource URI:

<https://{env:port}/services/REST/GlobalM2M/BillingAccount/v2/r12/customer/{customerID}/billingAccount/{billingAccountID}>

Where *customerID* is a Customer Account ID (consumer Customer account).

### 5.16.1 GET

Retrieves Customer Billing Account detail.

#### 5.16.1.1 Input parameters

- Available query parameters: None
- Body: Void entity-body

#### 5.16.1.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): billingAccount element

#### 5.16.1.3 Request example

```
GET
/services/REST/GlobalM2M/BillingAccount/v2/r12/customer/{customerId}/billingAccount/{billingAccountID} HTTP/1.1
Accept-Encoding: gzip, deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

#### 5.16.1.4 Response example

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnnn
Date: Tue, 18 Mar 2014 15:24:15 GMT
{
  "billingAccount": {
    "billingAccountName": "Modif57529776",
    "billingAccountId": "0",
    "fiscalNumber": "23456789098765",
    "billable": true,
    "addressIsCompanyAddress": false,
    "address": {
      "line1": "linea modificada",
      "line2": "linea 2 modificada",
      "city": "cityRest",
      "state": "state modificado",
      "country": "ES",
      "postalCode": "23456789"
    },
    "contactIsPrimaryContact": true,
    "paymentMethod": "visa",
    "expenseCounter": {
      "limit": 0,
      "counter": 0
    },
    "billingCycleNextStartDay": 1,
    "billingCycleModifiable": true,
    "commercialGroup": [
      "1931",
      "1929",
      "1940",
      "1942",
      "1928",
```

```
        "1930",  
        "1932",  
        "1941"  
    ],  
    "autoPrebillIssue": true,  
    "billAccIDinSPCRM": "crmId",  
    "billAccIDinSPCRMLegacy": "crmIdLegacy",  
    "paymentData": "visa",  
    "subscriptions": 0  
}  
}
```

## 5.17 Resource commercialGroup

This resource is used to manage Subscription Groups of the Customer.

Resource URI:

`https://{env:port}/services/REST/GlobalM2M/CommercialGroup/v5/r12/commercialGroup`

Where *customerID* is a Customer Account ID (consumer Customer account).

Subscription Group are called Commercial Groups in the API.

### 5.17.1 GET list

Retrieves Customer Subscription Groups list.

#### 5.17.1.1 Input parameters

- Available query parameters: None
- Body: Void entity-body

#### 5.17.1.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): *commercialGroup* element array

#### 5.17.1.3 Request example

```
GET  
/services/REST/GlobalM2M/CommercialGroup/v5/r12/commercialGroup  
HTTP/1.1  
  
Accept-Encoding: gzip, deflate  
Accept: application/json  
Host: host.com  
Connection: Keep-Alive
```

#### 5.17.1.4 Response example

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



Content-Length: nnnn

```
{
  "commercialGroup": [
    {
      "id": "26",
      "name": "GS_Restringido_SOAP",
      "description": "Update realizado",
      "customerId": "customer-Customer_API_SOAP14bc4e28b63kBSC",
      "billingAccountId": 0,
      "restricted": true,
      "dataPoolsBlockedCount": 0,
      "subscriberCount": 0
    },
    {
      "id": "61",
      "name": "CG_Normal_SOAP",
      "description": "description",
      "customerId": "customer-Customer_API_SOAP14bc4e28b63kBSC",
      "billingAccountId": 0,
      "restricted": false,
      "dataPoolsBlockedCount": 0,
      "subscriberCount": 28
    }
  ]
}
```

### 5.17.2 GET detail

Returns detailed information of a subscription group whose *id* has been obtained previously, using GET listing operation.

- Resource URI:

`https://{env:port}/services/REST/GlobalM2M/CommercialGroup/v5/r12/commercialGroup/{commercialGroupId}`

#### 5.17.2.1 Input parameters

- Available query parameters: None
- Body: void entity-body.

#### 5.17.2.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): Subscription Group information.
- [See chapter: 6.32](#) Consumption limit configuration. Parameters related to the consumption thresholds that will be applied to the SIMs that enter the commercial group from now on (only available from REST API version).

### 5.17.2.3 Request example

```
GET
/services/REST/GlobalM2M/CommercialGroup/v5/r12/commercialGroup/
1727 HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

### 5.17.2.4 Response example

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

{
  "name": "GS_Restringido_SOAP",
  "description": "Update realizado",
  "limitVoice": {
    "enabled": true,
    "value": 4,
    "trafficCut": false
  },
  "limitSms": {
    "enabled": false,
    "trafficCut": false
  },
  "limitData": {
    "enabled": false,
    "trafficCut": false
  },
  "limitTotal": {
    "enabled": false,
    "trafficCut": false
  },
  "billingCycleStartDay": 28,
  "restricted": true,
  "imeiFilterEnabled": false,
  "dataPoolOverageBarring": false,
  "inputRestricted": false,
  "consumptionLimitsEnabled": true,
  "limitDailyVoice": {
    "enabled": true,
    "value": 50804
  },
  "limitDailySms": {
    "enabled": true,
    "value": 31152
  },
  "limitDailyData": {
    "enabled": true,
    "value": 59186
  },
  "limitMonthlyVoice": {
    "enabled": true,
```

```

        "value": 23813735
    },
    "limitMonthlySms": {
        "enabled": true,
        "value": 13035846
    },
    "limitMonthlyData": {
        "enabled": true,
        "value": 51923737
    },
    "customerId": "customer-Customer_API_SOAP14bc4e28b63kBSC",
    "customerName": "Customer_API_SOAP",
    "subscriberCount": 17,
    "servicePackId": "8",
    "servicePackName": "bsp_selenium",
    "billingAccountId": 0,
    "billingAccountName": "default",
    "listsLocked": false,
    "lpwaPowerSaving": {
        "tauTimer": 33333,
        "tauTimerUnit": "SECONDS",
        "activeTimer": 1000,
        "activeTimerUnit": "SECONDS",
        "edrx": [
            {
                "edrxCycle": 0,
                "pagingTimeWindow": 0,
                "radioTechnology": "lte-m"
            }
        ],
        "kiteMaster": true
    },
    "id": "26"
}

```

### 5.17.3 POST

Creates a new Subscription Group.

- Resource URI:

<https://{env:port}/services/REST/GlobalM2M/CommercialGroup/v5/r12/commercialGroup>

#### 5.17.3.1 Input parameters

- Available query parameters: None
- Body (JSON format): Subscription Group information
- [See chapter: 6.32](#) Consumption limit configuration. Parameters related to the consumption thresholds that will be applied to the SIMs that enter the commercial group from now on (only available from REST API version).

### 5.17.3.2 Output parameters

- HTTP Response Code: 201 Created
- Body (JSON format): Empty entity-body.
- Additional HTTP Headers: Location that contains the URI of the created Subscription Group.

### 5.17.3.3 Request example

When creating a Subscription Group, you can only assign a non restricted commercial plan.

#### 5.17.3.3.1 Default NAI International

```
POST
/services/REST/GlobalM2M/CommercialGroup/v5/r12/commercialGroup
HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive

{
  "name": "myGroup",
  "description": "This is an example for REST!",
  "servicePackId": "15",
  "billingAccountId": "0",
  "limitVoice": {
    "enabled": "true",
    "value": "200"
  },
  "limitSms": {
    "enabled": "true",
    "value": "200"
  },
  "limitData": {
    "enabled": "true",
    "value": "200"
  },
  "limitTotal": {
    "enabled": "false"
  },
  "whiteList": [
    "4465*"
  ],
  "blackList": [
    "4465*"
  ],
  "roamingList": [
    "4465*"
  ]
}
```

```
]
}
```

#### 5.17.3.3.2 NAI Configurable

```
POST
/services/REST/GlobalM2M/CommercialGroup/v5/r12/commercialGroup
HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive

{
  "name": "myGroup",
  "description": "This is an example for REST!",
  "servicePackId": "15",
  "billingAccountId": "0",
  "limitVoice": {
    "enabled": "true",
    "value": "200"
  },
  "limitSms": {
    "enabled": "true",
    "value": "200"
  },
  "limitData": {
    "enabled": "true",
    "value": "200"
  },
  "limitTotal": {
    "enabled": "false"
  },
  "whiteListNAI": [
    {
      "rule": "4465*"
      "naiId": 4
    }
  ],
  "blackListNAI": [
    {
      "rule": "4465*"
      "naiId": 4
    }
  ],
  "roamingListNAI": [
    {
      "rule": "4465*"
      "naiId": 4
    }
  ]
}
```

#### 5.17.3.4 Response example

```
HTTP/1.1 201 Created
Date: Thu, 04 Jun 2009 02:51:59 GMT
Location:
https://host:port/services/REST/GlobalM2M/CommercialGroup/v5/r12/
commercialGroup/3263
```

#### 5.17.4 PUT

Modifies an existing Subscription Group.

If the Subscription Group is restricted (it means that it has been created by the Service Provider), you can not modify either the name or the commercial plan or the billing account.

- Resource URI:

`https://{env:port}/services/REST/GlobalM2M/CommercialGroup/v5/r12/commercialGroup/{commercialGroupId}`

##### 5.17.4.1 Input parameters

- Available query parameters: None
- Body (JSON format): Subscription Group information to be updated.
- [See chapter: 6.32](#) Consumption limit configuration. Parameters related to the consumption thresholds that will be applied to the SIMs that enter the commercial group from now on (only available from REST API version).

##### 5.17.4.2 Output parameters

- HTTP Response Code: 204 No Content
- Body (JSON format): Empty entity-body.

##### 5.17.4.3 Request example

```
PUT
/services/REST/GlobalM2M/CommercialGroup/v5/r12/commercialGroup/
3263 HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
{
  "name": "name_modificado",
  "description": "desc_modificada",
  "servicePackId": "29",
  "billingAccountId": "2",
  "limitVoice": {
    "enabled": "false"
  },
}
```

```
{
  "limitSms": {
    "enabled": "false"
  },
  "limitData": {
    "enabled": "false"
  },
  "limitTotal": {
    "enabled": "false"
  },
  "dataPoolOverageBarring": "false"
}
```

#### 5.17.4.4 Response example

```
HTTP/1.1 204 No Content
Date: Thu, 04 Jun 2009 02:51:59 GMT
```

#### 5.17.4.5 Fault response example

##### 5.17.4.5.1 Operation not allowed

```
HTTP/1.1 403 Forbidden
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2012 02:52:00 GMT

{
  "ClientException": {
    "exceptionId": 1013,
    "text": "Operation is not allowed. Access to perform
\"update_field_name\" on a resource of type \"commercialGroup\"
has been denied for user with id \"54eee152e907ac3fe338b4f5\"
and role \"admin-customer\",
    "exceptionCategory": "SVC"
  }
}
```

Check if the commercial group is restricted.

#### 5.17.5 PUT screeningLists

Modifies Screening List of an existing Subscription Group.

- Resource URI:

<https://{env:port}/services/REST/GlobalM2M/CommercialGroup/v5/r12/commercialGroup/{commercialGroupId}/screeningLists>

##### 5.17.5.1 Input parameters

- Available query parameters: None.
- Body (JSON format): Screening List information to be updated.

#### 5.17.5.2 Output parameters

- HTTP Response Code: 204 OK
- Body (JSON format): Empty entity-body.

#### 5.17.5.3 Request example

##### 5.17.5.3.1 Default NAI International

```
PUT
/services/REST/GlobalM2M/CommercialGroup/v5/r12/commercialGroup/
3263/screeningLists HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive

{
  "whiteList": [
    "4465*"
  ],
  "blackList": [
    "4465*"
  ],
  "roamingList": [
    "4465*"
  ]
}
```

##### 5.17.5.3.2 NAI Configurable

```
PUT
/services/REST/GlobalM2M/CommercialGroup/v5/r12/commercialGroup/
3263/screeningLists HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive

{
  "whiteListNAI": [
    {
      "rule": "4465*",
      "naiId": 4
    }
  ],
  "blackListNAI": [
    {
      "rule": "44659853321",
      "naiId": 4
    }
  ],
}
```



```

    "roamingListNAI": [
      {
        "rule": "4465*",
        "naiId": 4
      }
    ],
    "roamingBlackListNAI": [
      {
        "rule": "44659853321",
        "naiId": 4
      }
    ],
  }
}

```

#### 5.17.5.4 Response example

```

HTTP/1.1 204 OK
Date: Thu, 04 Jun 2009 02:51:59 GMT

```

#### 5.17.6 PUT IpwaPowerSaving

Modifies Power Saving configuration of an existing Subscription Group.

- Resource URI:

<https://{env:port}/services/REST/GlobalM2M/CommercialGroup/v5/r12/commercialGroup/{commercialGroupId}/IpwaPowerSaving>

##### 5.17.6.1 Input parameters

- Available query parameters: None.
- Body (JSON format): Power Saving configuration to be updated.

Parameter	Type	Optional	Description
tauTimer	int	No	Minimum 60 minutes Maximum 4.294.967.295 seconds
tauTimerUnit	string	No	Time Unit. Available values are: <ul style="list-style-type: none"> <li>• SECONDS</li> <li>• MINUTES</li> <li>• HOURS</li> </ul>
activeTimer	int	Yes	Minor or equals than tauTimer Zero is a valid value
activeTimerUnit	string	Yes	Time Unit. Available values are: <ul style="list-style-type: none"> <li>• SECONDS</li> <li>• MINUTES</li> <li>• HOURS</li> </ul>
kiteMaster	boolean	No	When set to true, custom setting are applied, otherwise those set by the device.

edrx	array	Yes	Array of EDRX configuration in HSS
------	-------	-----	------------------------------------

•

Parameter	Type	Optional	Description
edrxCycle	int	No	Value from 0 to 15. It is translated to binary to pick the time value depending on radio technology.  0 -> 0000 1 -> 0001  .... 15 -> 1111  See the table below. The configured time value must be less than or equals to activeTimer.
pagingTimeWindow	int	No	Value from 0 to 15. It is translated to binary to pick the time value depending on radio technology.  0 -> 0000 1 -> 0001  .... 15 -> 1111  See the table below. The configured time value must be less than or equals to edrxCycle.
radioTechnology	string	No	Available values are: <ul style="list-style-type: none"> <li>lte-m</li> <li>nb-iot</li> </ul>

epsEdrxCycleLength  
values

		LTE-M	NBIOT
0	0000	5,12	N.A.
1	0001	10,24	N.A.
2	0010	20,48	20,48
3	0011	40,96	40,96
4	0100	61,44	20,48
5	0101	81,92	81,92
6	0110	102,4	20,48
7	0111	122,88	20,48
8	1000	143,36	20,48
9	1001	163,84	163,84
10	1010	327,68	327,68
11	1011	655,36	655,36
12	1100	1310,72	1310,72
13	1101	2621,44	2621,44
14	1110	2621,44	5242,88
15	1111	2621,44	10485,76

epsPagingTimeWindow  
values

		LTE-M	NBIOT
0	0000	1,28	2,56
1	0001	2,56	5,12
2	0010	3,84	7,68
3	0011	5,12	10,24
4	0100	6,4	12,8
5	0101	7,68	15,36
6	0110	8,96	17,92
7	0111	10,24	20,48
8	1000	11,52	23,04
9	1001	12,8	25,6
10	1010	14,08	28,16
11	1011	15,36	30,72
12	1100	16,64	33,28
13	1101	17,92	35,84
14	1110	19,2	38,4
15	1111	20,48	40,96

•

### 5.17.6.2 Output parameters

- HTTP Response Code: 204 OK
- Body (JSON format): Empty entity-body.

### 5.17.6.3 Request example

#### 5.17.6.3.1 Master Kite mode

```
PUT
/services/REST/GlobalM2M/CommercialGroup/v5/r12/commercialGroup/
3263/lpwaPowerSaving HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive

{
  "tauTimer": 33333,
  "tauTimerUnit": "SECONDS",
  "activeTimer": 1000,
  "activeTimerUnit": "SECONDS",
  "edrx": [
    {
      "edrxCycle": 0,
      "pagingTimeWindow": 0,
      "radioTechnology": "lte-m"
    }
  ],
  "kiteMaster": true
}
```

#### 5.17.6.3.2 Master Device mode

```
PUT
/services/REST/GlobalM2M/CommercialGroup/v5/r12/commercialGroup/
3263/lpwaPowerSaving HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive

{
  "kiteMaster": false
}
```

#### 5.17.6.4 Fault response example

```
HTTP/1.1 400 Bad Request
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2023 02:52:00 GMT

{
  "ClientException": {
    "exceptionCategory": "SVC",
```

```
"exceptionId": 1021,  
  "text": "Invalid parameter value: pagingTimeWindow. Paging  
time window cannot be greater than eDRX cycle for LTE-M"  
}
```

### 5.17.7 DELETE

Deletes an existing Subscription Group.

- Resource URI:

`https://{env:port}/services/REST/GlobalM2M/CommercialGroup/v5/r12/commercialGroup/{commercialGroupId}`

If the Subscription Group is restricted (it means that it has been created by the Service Provider), you can not delete it.

#### 5.17.7.1 Input parameters

- Available query parameters: None
- Body (JSON format): Void entity-body.

#### 5.17.7.2 Output parameters

- HTTP Response Code: 204 No Content.
- Body (JSON format): Empty entity-body.

#### 5.17.7.3 Request example

```
DELETE  
/services/REST/GlobalM2M/CommercialGroup/v5/r12/commercialGroup/  
3263 HTTP/1.1  
Content-Type: application/json;charset=UTF-8  
Content-Length: nnnn  
Accept-Encoding: gzip, deflate  
Accept: application/json  
Host: host.com  
Connection: Keep-Alive
```

#### 5.17.7.4 Response example

```
HTTP/1.1 204 No Content  
Date: Thu, 04 Jun 2009 02:51:59 GMT
```

## 5.18 Resource servicePack

This resource is used to retrieve Basic Service Commercial Plans of consumer Customer account.

Resource URI:

`https://{env:port}/services/REST/GlobalM2M/ServicePacks/v2/r12/servicePack`

### 5.18.1 GET list

Retrieves Basic Services Commercial Plans list.

#### 5.18.1.1 Input parameters

- Available query parameters:

Parameter	Type	Optional	Description
startIndex	int	Yes	Start index
maxBatchSize	int	Yes	Number of items to be retrieved
customer	String	Yes	Customer identifier

- Body: Void entity-body

#### 5.18.1.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): Array of Basic Services Commercial Plans.

#### 5.18.1.3 Request example

```
GET /services/REST/GlobalM2M/ServicePacks/v2/r12/servicePack
HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

#### 5.18.1.4 Response example

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

{"servicePacks": [
  {
    "id": "15",
    "name": "sp_loperador",
    "description": "Description",
    "published": "PUBLISHED",
    "currency": "Euro",
    "whiteList": [],
    "blackList": [],
    "roamingList": [],
    "serviceProviderId": "provider-
movistar13fc3f6f116pbQbN2xZGCHG8",
    "serviceProviderName": "movistar",
    "restrictionsId": "17",
    "restrictionsName": "52454cadd68956.74382338",
    "lifeCycleId": "17",
    "lifeCycleName": "52454cadb724f6.12432041",
    "tariffPlanServicesId": "17",
```

```

    "tariffPlanServicesName": "52454cad80d661.31274509",
    "tariffPlanLifeCycleId": "17",
    "tariffPlanLifeCycleName": "52454cad654d44.41450202",
    "listsLocked": true
  },
  {
    "id": "29",
    "name": "BSPA2",
    "description": "Description",
    "published": "PUBLISHED",
    "currency": "Euro",
    "whiteList": [],
    "blackList": [],
    "roamingList": [],
    "serviceProviderId": "provider-
movistar13fc3f6f116pbQbN2xZGCHG8",
    "serviceProviderName": "movistar",
    "restrictionsId": "33",
    "restrictionsName": "526e31b502f418.68360691",
    "lifeCycleId": "42",
    "lifeCycleName": "526e31b4d62cb9.66082232",
    "tariffPlanServicesId": "41",
    "tariffPlanServicesName": "526e31b4691d27.03932151",
    "tariffPlanLifeCycleId": "41",
    "tariffPlanLifeCycleName": "526e31b44da7f4.99874717",
    "listsLocked": false
  }
]
}

```

### 5.18.2 Get detail

Returns detailed information of a Basic Service Commercial Plan whose *id* has been obtained previously, using GET listing operation.

- Resource URI:
- <https://{env:port}/services/REST/GlobalM2M/ServicePacks/v2/r12/servicePack/{servicePackId}>

#### 5.18.2.1 Input parameters

- Available query parameters: None
- Body: Void entity-body.

#### 5.18.2.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): Basic Service Commercial Plan Data. See chapter: 6.1 Commercial plan data {CommercialPlanData}.

*Fee and cost parameters have 5 decimals digits. Example 1 euro = 100000*

### 5.18.2.3 Request example

```
GET
/services/REST/GlobalM2M/ServicePacks/v2/r12/servicePack/{id}
HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

### 5.18.2.4 Response example

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

{
  "data": {
    "name": "bsp_selenium",
    "description": "Description",
    "published": "PUBLISHED",
    "customers": [
      {
        "restricted": true,
        "customerId": "customer-
Customer_API_SOAP14bc4e28b63kBSC",
        "customerName": "Customer_API_SOAP"
      }
    ],
    "currency": "978",
    "changeCost": 0,
    "whiteList": [],
    "blackList": [],
    "roamingList": [],
    "movementSourceOnly": true,
    "lteEnabled": true,
    "hasCommercialGroup": true,
    "id": "8",
    "maxZoneplanGroup": 25,
    "serviceProviderId": "provider-
movistar1376f0c049eGAFyImcQxeb1g",
    "serviceProviderName": "movistar",
    "restrictionsId": "10",
    "restrictionsName": "54e39d32d7b852.50477357",
    "lifeCycleId": "16",
    "lifeCycleName": "54e39d32a4dd03.53970010",
    "tariffPlanServicesId": "16",
    "tariffPlanServicesName": "54e39d3250bcd2.48005358",
    "tariffPlanLifeCycleId": "16",
    "tariffPlanLifeCycleName": "54e39d32270380.11679790",
    "listsLocked": false,
    "lifeCycle": {
      "name": "54e39d32a4dd03.53970010",
      "status": [
        {
```

```

        "transitions": [
            {
                "destinationStatus":
"ACTIVATION_PENDANT",
                "manual": true,
                "automatic": false
            },
            {
                "destinationStatus": "SUSPENDED",
                "manual": true,
                "automatic": true,
                "automaticInfo": {
                    "timerCause": true,
                    "firstUseCause": false,
                    "voucherCause": false
                }
            }
        ],
        "timer": 60,
        "status": "INACTIVE_NEW"
    },
    {
        "transitions": [
            {
                "destinationStatus": "ACTIVE",
                "manual": true,
                "automatic": false
            },
            {
                "destinationStatus": "SUSPENDED",
                "manual": true,
                "automatic": false
            }
        ],
        "status": "ACTIVATION_PENDANT"
    },
    {
        "transitions": [
            {
                "destinationStatus": "DEACTIVATED",
                "manual": true,
                "automatic": false
            },
            {
                "destinationStatus": "SUSPENDED",
                "manual": true,
                "automatic": false
            }
        ],
        "status": "ACTIVE"
    },
    {
        "transitions": [
            {
                "destinationStatus": "ACTIVE",
                "manual": true,

```



```

        "automatic": false
      },
      {
        "destinationStatus": "SUSPENDED",
        "manual": true,
        "automatic": false
      }
    ],
    "status": "DEACTIVATED"
  },
  {
    "transitions": [
      {
        "destinationStatus": "INACTIVE_NEW",
        "manual": true,
        "automatic": false
      },
      {
        "destinationStatus":
"ACTIVATION_PENDANT",
        "manual": true,
        "automatic": false
      },
      {
        "destinationStatus": "ACTIVE",
        "manual": true,
        "automatic": false
      },
      {
        "destinationStatus": "DEACTIVATED",
        "manual": true,
        "automatic": false
      },
      {
        "destinationStatus": "RETIRED",
        "manual": true,
        "automatic": false
      }
    ],
    "status": "SUSPENDED"
  },
  {
    "status": "RETIRED"
  }
],
"id": "16",
"published": "PUBLISHED"
},
"restrictions": {
  "id": "10",
  "name": "54e39d32d7b852.50477357",
  "description": "description",
  "voice": {
    "mo": {
      "home": false,
      "roaming": false,

```

```
        "international": false
      },
      "mt": {
        "home": false,
        "roaming": false
      }
    },
    "sms": {
      "mo": {
        "home": false,
        "roaming": false,
        "international": false
      },
      "mt": {
        "home": false,
        "roaming": false
      }
    },
    "data": {
      "home": false,
      "roaming": false
    },
    "steering": {
      "created": 1417612795,
      "modified": 1543250172,
      "resId": 4374,
      "servicePackId": "8",
      "steeringList": [
        "752",
        "297"
      ],
      "steeringType": "both",
      "useCustomOrder": false,
      "id": "54611cb206f4262f458b567d"
    },
    "operator": [
      "295",
      "297",
      "752"
    ],
    "published": "PUBLISHED"
  },
  "tariffPlanServices": {
    "name": "54e39d3250bcd2.48005358",
    "zonePlanId": "16",
    "defaultData": {
      "tariffPayPerUse": {
        "t6Q": 1000,
        "pool": false,
        "txN": 1,
        "chargeUnused": false,
        "dynamic": false
      },
      "type": "PAY_PER_USE",
      "published": "PUBLISHED",
      "zoneGroupName": "OTHERS",
```

```

        "destinationName": "OTHERS"
    },
    "defaultOrigVoice": {
        "tariffPayPerUse": {
            "t2S": 0,
            "t2Q": 0,
            "pool": false,
            "txN": 1,
            "chargeUnused": false,
            "dynamic": false,
            "n2Free": 0
        },
        "type": "PAY_PER_USE",
        "published": "PUBLISHED",
        "zoneGroupName": "OTHERS",
        "destinationName": "DEFAULT"
    },
    "defaultTermVoice": {
        "tariffPayPerUse": {
            "t2S": 0,
            "t2Q": 0,
            "pool": false,
            "txN": 1,
            "chargeUnused": false,
            "dynamic": false,
            "n2Free": 0
        },
        "type": "PAY_PER_USE",
        "published": "PUBLISHED",
        "zoneGroupName": "OTHERS",
        "destinationName": "DEFAULT"
    },
    "defaultSms": {
        "tariffPayPerUse": {
            "t2Q": 50000,
            "pool": false,
            "txN": 1,
            "chargeUnused": false,
            "dynamic": false
        },
        "type": "PAY_PER_USE",
        "published": "PUBLISHED",
        "zoneGroupName": "OTHERS",
        "destinationName": "DEFAULT"
    },
    "id": "16",
    "zonePlan": {
        "name": "zonePlan",
        "id": "16",
        "published": "PUBLISHED"
    },
    "published": "PUBLISHED",
    "modified": false
},
"tariffPlanLifeCycle": {
    "name": "54e39d32270380.11679790",

```

```

    "status": [
      {
        "cost": 0,
        "status": "ACTIVATION_READY"
      },
      {
        "cost": 0,
        "status": "ACTIVATION_PENDANT"
      },
      {
        "cost": 0,
        "status": "ACTIVE"
      },
      {
        "cost": 0,
        "status": "DEACTIVATED"
      }
    ],
    "transitions": [
      {
        "cost": 0,
        "statusStart": "INACTIVE_NEW",
        "statusFinal": "TEST"
      },
      {
        "cost": 0,
        "statusStart": "INACTIVE_NEW",
        "statusFinal": "ACTIVATION_READY"
      },
      {
        "cost": 0,
        "statusStart": "INACTIVE_NEW",
        "statusFinal": "ACTIVATION_PENDANT"
      },
      {
        "cost": 0,
        "statusStart": "TEST",
        "statusFinal": "ACTIVATION_READY"
      },
      {
        "cost": 0,
        "statusStart": "TEST",
        "statusFinal": "ACTIVATION_PENDANT"
      },
      {
        "cost": 0,
        "statusStart": "ACTIVATION_READY",
        "statusFinal": "ACTIVE"
      },
      {
        "cost": 0,
        "statusStart": "ACTIVATION_PENDANT",
        "statusFinal": "ACTIVE"
      },
      {
        "cost": 0,

```

```

        "statusStart": "ACTIVE",
        "statusFinal": "DEACTIVATED"
    },
    {
        "cost": 0,
        "statusStart": "DEACTIVATED",
        "statusFinal": "ACTIVE"
    },
    {
        "cost": 0,
        "statusStart": "SUSPENDED",
        "statusFinal": "RETIRED"
    }
],
"id": "16",
"published": "PUBLISHED",
"modified": false
},
"whiteListNAI": [],
"blackListNAI": [],
"roamingListNAI": [],
"roamingBlackListNAI": [],
"discounts": [
    {
        "customerId": "customer-
Customer_API_SOAP14bc4e28b63kBSC",
        "customerName": "Customer_API_SOAP",
        "voice": 0,
        "sms": 0,
        "data": 0
    }
],
"voucherOnlyDiscounts": [
    {
        "customerId": "customer-
Customer_API_SOAP14bc4e28b63kBSC",
        "customerName": "Customer_API_SOAP",
        "voice": 0,
        "sms": 0,
        "data": 0
    }
]
},
"modified": false
}

```

### 5.18.3 Get enumerated

Retrieves enumerated list.

- Resource URI:
- <https://{env:port}/services/REST/GlobalM2M/ServicePacks/v2/r12/enumerated?enumType={enumType}>

### 5.18.3.1 Input parameters

- Body: Void entity-body
- Available query parameters:

Parameter	Type	Optional	Description
enumType	String	No	Allowed values are: <ul style="list-style-type: none"> <li>• serviceProviderZone</li> <li>• serviceProviderDestination</li> <li>• serviceProviderDestinationData</li> <li>• serviceProviderDestinationSms</li> <li>• RAID</li> </ul>

### 5.18.3.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format):

### 5.18.3.3 Request example

#### 5.18.3.3.1 Get Service Provider Zones

```
GET
/services/REST/GlobalM2M/ServicePacks/v2/r12/enumerated?enumType
=serviceProviderZone HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

#### 5.18.3.3.2 Get Operators

```
GET
/services/REST/GlobalM2M/ServicePacks/v2/r12/enumerated?enumType
=RAID HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

#### 5.18.3.3.3 Get ChargeCodes

```
GET
/services/REST/GlobalM2M/ServicePacks/v2/r12/enumerated?enumType
=chargeCodes HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

### 5.18.3.4 Response example

#### 5.18.3.4.1 Get Service Provider Zones

```
HTTP/1.1 200 OK
Date: Thu, 04 Jun 2009 02:51:59 GMT
Content-Type: application/json
Content-Length: nnnn
{
  "data": [
    {
      "serviceProviderId": "provider-
movistar1376f0c049eGAFyImcQxeblg",
      "subId": 21403,
      "name": "Spain-Orange España",
      "description": "Spain-Orange España",
      "translation": [
        {
          "language": "en",
          "translation": "Spain-Orange España"
        },
        {
          "language": "es",
          "translation": "España-Orange España"
        },
        {
          "language": "fr",
          "translation": "JAPON-JPNJP-SOFTBANK MOBILE CORP."
        },
        {
          "language": "de",
          "translation": "Spanien-Orange España"
        },
        {
          "language": "cs",
          "translation": "Španělsko-Orange España"
        },
        {
          "language": "pt",
          "translation": "Espanha-Orange España"
        }
      ]
    },
    {
      "serviceProviderId": "provider-
movistar1376f0c049eGAFyImcQxeblg",
      "subId": 21409,
      "name": "Spain-Telefonica Moviles España",
      "description": "Spain-Telefonica Moviles España",
      "translation": [
        {
          "language": "cs",
          "translation": "Španělsko-Telefonica Moviles España"
        },
        {
          "language": "fr",
```

```

        "translation": "ESPAGNE-TELEFONICA MOVILES ESPAGNE"
    },
    {
        "language": "en",
        "translation": "Spain-Telefonica Moviles España"
    },
    {
        "language": "es",
        "translation": "España-Telefonica Moviles España"
    },
    {
        "language": "pt",
        "translation": "Espanha-Telefonica Moviles España"
    },
    {
        "language": "de",
        "translation": "Spanien-Telefonica Moviles España"
    }
]
},
{
    "serviceProviderId": "provider-
movistar1376f0c049eGAFyImcQxeblg",
    "subId": 21406,
    "name": "Spain-Vodafone España",
    "description": "Spain-Vodafone España",
    "translation": [
        {
            "language": "en",
            "translation": "Spain-Vodafone España"
        },
        {
            "language": "es",
            "translation": "España-Vodafone España"
        },
        {
            "language": "cs",
            "translation": "Španělsko-Vodafone España"
        },
        {
            "language": "fr",
            "translation": "ESPAGNE-VODAFONE ESPAGNE"
        },
        {
            "language": "de",
            "translation": "Spanien-Vodafone España"
        },
        {
            "language": "pt",
            "translation": "Espanha-Vodafone España"
        }
    ]
}
]
}

```



#### 5.18.3.4.2 Get Operators

```
HTTP/1.1 200 OK
Date: Thu, 04 Jun 2009 02:51:59 GMT
Content-Type: application/json
Content-Length: nnnn
{
  "data": [
    {
      "description": "Spain-Orange España",
      "hasLte": false,
      "id": 750,
      "isNoCamel": false,
      "translation": [
        {
          "language": "fr",
          "translation": "JAPON-JPNJP-SOFTBANK MOBILE CORP."
        },
        {
          "language": "cs",
          "translation": "Španělsko-Orange España"
        },
        {
          "language": "en",
          "translation": "Spain-Orange España"
        },
        {
          "language": "es",
          "translation": "España-Orange España"
        },
        {
          "language": "pt",
          "translation": "Espanha-Orange España"
        },
        {
          "language": "de",
          "translation": "Spanien-Orange España"
        }
      ]
    },
    {
      "id": 751,
      "description": "Spain-Vodafone España",
      "translation": [
        {
          "language": "fr",
          "translation": "ESPAGNE-VODAFONE ESPAGNE"
        },
        {
          "language": "cs",
          "translation": "Španělsko-Vodafone España"
        },
        {
          "language": "en",
          "translation": "Spain-Vodafone España"
        }
      ]
    }
  ]
}
```

```
{
  {
    "language": "es",
    "translation": "España-Vodafone España"
  },
  {
    "language": "pt",
    "translation": "Espanha-Vodafone España"
  },
  {
    "language": "de",
    "translation": "Spanien-Vodafone España"
  }
],
"hasLte": false,
"isNoCamel": false
},
{
  "id": 752,
  "description": "Spain-Telefonica Moviles España",
  "translation": [
    {
      "language": "fr",
      "translation": "ESPAGNE-TELEFONICA MOVILES ESPAGNE"
    },
    {
      "language": "cs",
      "translation": "Španělsko-Telefonica Moviles España"
    },
    {
      "language": "en",
      "translation": "Spain-Telefonica Moviles España"
    },
    {
      "language": "es",
      "translation": "España-Telefonica Moviles España"
    },
    {
      "language": "pt",
      "translation": "Espanha-Telefonica Moviles España"
    },
    {
      "language": "de",
      "translation": "Spanien-Telefonica Moviles España"
    }
  ],
  "hasLte": true,
  "isNoCamel": false
}
]}
```

#### 5.18.3.4.3 Get ChargeCodes

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

Content-Length: nnnn

```
{
  "data": [
    {
      "id":
"ACTIVATION_PENDING_STATE_RECURRENT_FEE_MONTHLY_FEE(14) "
    },
    {
      "id":
"ACTIVATION_READY_STATE_RECURRENT_FEE_MONTHLY_FEE(13) "
    },
    {
      "id": "ACTIVE_STATE_RECURRENT_FEE_MONTHLY_FEE(15) "
    },
    {
      "id":
"ADVANCED_ANALYTICS_ACTIVATION_ONE_TIME_FEE(134) "
    },
    {
      "id":
"ADVANCED_ANALYTICS_DEACTIVATION_ONE_TIME_FEE(135) "
    },
    {
      "id": "ADVANCED_ANALYTICS_MONTHLY_FEE_CUSTOMER(132) "
    },
    {
      "id":
"ADVANCED_ANALYTICS_REACTIVATION_ONE_TIME_FEE(137) "
    },
    {
      "id":
"ADVANCED_ANALYTICS_SUSPENSION_MONTHLY_FEE(133) "
    },
    {
      "id":
"ADVANCED_ANALYTICS_SUSPENSION_ONE_TIME_FEE(136) "
    },
    {
      "id":
"ADVANCED_LOCATION_AND_TRACKING_MONTHLY_FEE(169) "
    },
    {
      "id":
"ADVANCED_LOCATION_AND_TRACKING_TARIFF_MONTHLY_FEE(170) "
    },
    {
      "id": "ADVANCED_SUPERVISION_MONTHLY_FEE(21) "
    },
    {
      "id": "AGP(114) "
    },
    {
      "id": "AGP(115) "
    },
  ]
}
```

```

        "id":
"APPLICATION_SMS_INITIATION_SUSPENSION_ONE_TIME_FEE(43) "
    },
    {
        "id": "APPLICATION_SMS_OVERAGE_FEE(47) "
    },
    {
        "id":
"APPLICATION_SMS_REACTIVATION_ONE_TIME_FEE(45) "
    },
    {
        "id": "APPLICATION_SMS_SET_UP_ONE_TIME_FEE(41) "
    },
    {
        "id":
"APPLICATION_SMS_SUSPENSION_TARIFF_MONTHLY_FEE(44) "
    },
    {
        "id": "APPLICATION_SMS_TARIFF_MONTHLY_FEE(46) "
    },
    {
        "id": "APPLICATION_SMS_TERMINATION_ONE_TIME_FEE(42) "
    },
    {
        "id": "BACKUP_FEE_MONTHLY_FEE(122) "
    },
    {
        "id": "BLOCK_FRAUD_PARTIAL(144) "
    },
    {
        "id": "BLOCK_FRAUD_TOTAL(146) "
    },
    {
        "id": "BLOCK_NON_PAYMENT_DECOMMISSION(150) "
    },
    {
        "id": "BLOCK_NON_PAYMENT_PARTIAL(152) "
    },
    {
        "id": "BLOCK_NON_PAYMENT_TOTAL(148) "
    },
    {
        "id": "BLOCK_THEFT(142) "
    },
    {
        "id": "BLOCK_USER(138) "
    },
    {
        "id": "DATA_CONNECTION(3) "
    },
    {
        "id": "DATA_RECURRENT_FEE_MONTHLY_FEE(6) "
    },
    {
        "id": "DCA_INITIATION_SUSPENSION_ONE_TIME_FEE(67) "
    },
    },

```

```

    {
        "id": "DCA_REACTIVATION_ONE_TIME_FEE(69) "
    },
    {
        "id": "DCA_SET_UP_ONE_TIME_FEE(65) "
    },
    {
        "id": "DCA_SUSPENSION_TARIFF_MONTHLY_FEE(68) "
    },
    {
        "id": "DCA_TARIFF_MONTHLY_FEE(70) "
    },
    {
        "id": "DCA_TERMINATION_ONE_TIME_FEE(66) "
    },
    {
        "id":
"DEACTIVATED_STATE_RECURRENT_FEE_MONTHLY_FEE(16) "
    },
    {
        "id": "DECOMMISSION_CANCEL(141) "
    },
    {
        "id": "DECOMMISSION_REQUEST(140) "
    },
    {
        "id": "eSIM_SETUP(105) "
    },
    {
        "id": "FIXED_IP_MONTHLY_FEE(30) "
    },
    {
        "id":
"FREE_PROFILE_SWAP_OPERATION_ONE_TIME_FEE(107) "
    },
    {
        "id": "INACTIVE_NEW_FEE_C1(86) "
    },
    {
        "id": "INACTIVE_NEW_FEE_C2(87) "
    },
    {
        "id": "IOT_DATA_READY_ACTIVATION_ONE_TIME_FEE(166) "
    },
    {
        "id":
"IOT_DATA_READY_FROMDEVICE_MESSAGE_MONTHLY_FEE(167) "
    },
    {
        "id": "IOT_DATA_READY_MESSAGES_MONTHLY_FEE(171) "
    },
    {
        "id": "IOT_DATA_READY_MONTHLY_FEE(165) "
    },
    {

```

```

        "id":
"IOT_DATA_READY_TODEVICE_MESSAGE_MONTHLY_FEE(168) "
    },
    {
        "id": "IOT_DEVICE_CONTROL_ACTIVATION(157) "
    },
    {
        "id":
"IOT_DEVICE_CONTROL_COLLECT_BATTERY_LEVEL(164) "
    },
    {
        "id": "IOT_DEVICE_CONTROL_COLLECT_CAPABILITIES(158) "
    },
    {
        "id": "IOT_DEVICE_CONTROL_COLLECT_IMEI(159) "
    },
    {
        "id": "IOT_DEVICE_CONTROL_COLLECT_LOCATION(160) "
    },
    {
        "id": "IOT_DEVICE_CONTROL_COLLECT_RADIO_IN_USE(162) "
    },
    {
        "id":
"IOT_DEVICE_CONTROL_COLLECT_RADIO_SUPPORTED(163) "
    },
    {
        "id":
"IOT_DEVICE_CONTROL_COLLECT_SIGNAL_STRENGTH(161) "
    },
    {
        "id": "IOT_DEVICE_CONTROL_COMMAND_RESET(156) "
    },
    {
        "id": "IOT_DEVICE_CONTROL_QUERY(155) "
    },
    {
        "id":
"LIFECYCLE_STATE_CHANGE_ACTIVATION_PENDING_TO_ACTIVE(97) "
    },
    {
        "id":
"LIFECYCLE_STATE_CHANGE_ACTIVATION_READY_TO_ACTIVE(98) "
    },
    {
        "id":
"LIFECYCLE_STATE_CHANGE_ACTIVE_TO_DEACTIVATED(99) "
    },
    {
        "id":
"LIFECYCLE_STATE_CHANGE_ACTIVE_TO_SUSPENDED(119) "
    },
    {
        "id":
"LIFECYCLE_STATE_CHANGE_DEACTIVATED_TO_ACTIVE(10) "
    },

```

```

    {
      "id":
      "LIFECYCLE_STATE_CHANGE_DEACTIVATED_TO_SUSPENDED(120) "
    },
    {
      "id":
      "LIFECYCLE_STATE_CHANGE_INACTIVE_NEW_TO_ACTIVATION_PENDING(9) "
    },
    {
      "id":
      "LIFECYCLE_STATE_CHANGE_INACTIVE_NEW_TO_ACTIVATION_READY(7) "
    },
    {
      "id":
      "LIFECYCLE_STATE_CHANGE_INACTIVE_NEW_TO_TEST(8) "
    },
    {
      "id":
      "LIFECYCLE_STATE_CHANGE_SUSPENDED_TO_ACTIVATION_PENDING(131) "
    },
    {
      "id":
      "LIFECYCLE_STATE_CHANGE_SUSPENDED_TO_ACTIVE(117) "
    },
    {
      "id":
      "LIFECYCLE_STATE_CHANGE_SUSPENDED_TO_DEACTIVATED(118) "
    },
    {
      "id":
      "LIFECYCLE_STATE_CHANGE_SUSPENDED_TO_RETIRED(11) "
    },
    {
      "id":
      "LIFECYCLE_STATE_CHANGE_TEST_TO_ACTIVATION_PENDING(96) "
    },
    {
      "id":
      "LIFECYCLE_STATE_CHANGE_TEST_TO_ACTIVATION_READY(95) "
    },
    {
      "id":
      "LOCATION_AND_TRACKING_INITIATION_SUSPENSION_ONE_TIME_FEE(73) "
    },
    {
      "id": "LOCATION_AND_TRACKING_MONTHLY_FEE(28) "
    },
    {
      "id":
      "LOCATION_AND_TRACKING_REACTIVATION_ONE_TIME_FEE(75) "
    },
    {
      "id":
      "LOCATION_AND_TRACKING_SET_UP_ONE_TIME_FEE(71) "
    },
    {

```

```

        "id":
"LOCATION_AND_TRACKING_SUSPENSION_TARIFF_MONTHLY_FEE(74) "
    },
    {
        "id": "LOCATION_AND_TRACKING_TARIFF_MONTHLY_FEE(76) "
    },
    {
        "id":
"LOCATION_AND_TRACKING_TERMINATION_ONE_TIME_FEE(72) "
    },
    {
        "id": "MBT(108) "
    },
    {
        "id": "MHV(109) "
    },
    {
        "id": "MONTHLY_SERVICE(112) "
    },
    {
        "id": "ONE_SHOT_SERVICE(111) "
    },
    {
        "id": "ONE_TIME_VOUCHER_PURCHASE(100) "
    },
    {
        "id":
"POOL_DATA_TARIFF_ELEMENT_PER_ZONE_MONTHLY_FEE(17) "
    },
    {
        "id":
"POOL_ORIGINATED_SMS_TARIFF_ELEMENT_PER_ZONE_MONTHLY_FEE(20) "
    },
    {
        "id":
"POOL_ORIGINATED_VOICE_TARIFF_ELEMENT_PER_ZONE_MONTHLY_FEE(18) "
    },
    {
        "id":
"POOL_TERMINATED_VOICE_TARIFF_ELEMENT_PER_ZONE_MONTHLY_FEE(19) "
    },
    {
        "id": "PRIVATE_LTE_ACTIVATION_ONE_TIME_FEE(125) "
    },
    {
        "id": "PRIVATE_LTE_DEACTIVATION_ONE_TIME_FEE(126) "
    },
    {
        "id": "PRIVATE_LTE_MONTHLY_FEE_CUSTOMER(123) "
    },
    {
        "id": "PRIVATE_LTE_MONTHLY_FEE_SUBSCRIPTION(129) "
    },
    {
        "id": "PRIVATE_LTE_REACTIVATION_ONE_TIME_FEE(128) "
    },
    },

```



```

    {
        "id": "PRIVATE_LTE_SUSPENSION_MONTHLY_FEE(124) "
    },
    {
        "id": "PRIVATE_LTE_SUSPENSION_ONE_TIME_FEE(127) "
    },
    {
        "id": "PROFILE_SWAP_OPERATION(106) "
    },
    {
        "id": "RECURRENT_VOUCHER_PURCHASE(101) "
    },
    {
        "id": "RECURRENT_VOUCHER_RENEWAL(102) "
    },
    {
        "id":
"SELF_MANAGEMENT_INITIATION_SUSPENSION_ONE_TIME_FEE(50) "
    },
    {
        "id":
"SELF_MANAGEMENT_REACTIVATION_ONE_TIME_FEE(52) "
    },
    {
        "id": "SELF_MANAGEMENT_SET_UP_ONE_TIME_FEE(48) "
    },
    {
        "id":
"SELF_MANAGEMENT_SUSPENSION_TARIFF_MONTHLY_FEE(51) "
    },
    {
        "id": "SELF_MANAGEMENT_TARIFF_MONTHLY_FEE(53) "
    },
    {
        "id": "SELF_MANAGEMENT_TERMINATION_ONE_TIME_FEE(49) "
    },
    {
        "id": "SERVICE_PACK_LEAVE_ONE_TIME_FEE(12) "
    },
    {
        "id": "SET_UP(110) "
    },
    {
        "id":
"SIM_ACTIVATION_INVENTORY_TO_INACTIVE_NEW_ONE_TIME_FEE(85) "
    },
    {
        "id": "SIM_SET_UP_FEE_ONE_TIME_FEE(83) "
    },
    {
        "id": "SIM_TRANSPORTATION_FEE_ONE_TIME_FEE(84) "
    },
    {
        "id": "SMS_MO(2) "
    },
    {

```

```

        "id": "SMS_RECURRENT_FEE_MONTHLY_FEE(5) "
    },
    {
        "id": "SUBSCRIPTION_DCA_TARIFF_MONTHLY_FEE(29) "
    },
    {
        "id": "SUBSCRIPTION_GROUP_CHANGE(116) "
    },
    {
        "id":
"SUPERVISION_INITIATION_SUSPENSION_ONE_TIME_FEE(56) "
    },
    {
        "id":
"SUPERVISION_LOCATION_TARIFF_QUALITY_12H_MONTHLY_FEE(64) "
    },
    {
        "id":
"SUPERVISION_LOCATION_TARIFF_QUALITY_15MIN_MONTHLY_FEE(61) "
    },
    {
        "id":
"SUPERVISION_LOCATION_TARIFF_QUALITY_1H_MONTHLY_FEE(62) "
    },
    {
        "id":
"SUPERVISION_LOCATION_TARIFF_QUALITY_2MIN_MONTHLY_FEE(60) "
    },
    {
        "id":
"SUPERVISION_LOCATION_TARIFF_QUALITY_8H_MONTHLY_FEE(63) "
    },
    {
        "id":
"SUPERVISION_LOCATION_WITH_AGENT_QUALITY_12H_MONTHLY_FEE(26) "
    },
    {
        "id":
"SUPERVISION_LOCATION_WITH_AGENT_QUALITY_15MIN_MONTHLY_FEE(23) "
    },
    {
        "id":
"SUPERVISION_LOCATION_WITH_AGENT_QUALITY_1H_MONTHLY_FEE(24) "
    },
    {
        "id":
"SUPERVISION_LOCATION_WITH_AGENT_QUALITY_2MIN_MONTHLY_FEE(22) "
    },
    {
        "id":
"SUPERVISION_LOCATION_WITH_AGENT_QUALITY_8H_MONTHLY_FEE(25) "
    },
    {
        "id": "SUPERVISION_OPERATION_ONE_TIME_FEE(27) "
    },
    {

```

```

        "id": "SUPERVISION_REACTIVATION_ONE_TIME_FEE(58) "
    },
    {
        "id": "SUPERVISION_SET_UP_ONE_TIME_FEE(54) "
    },
    {
        "id":
"\"SUPERVISION_SUSPENSION_TARIFF_MONTHLY_FEE(57) \"
    },
    {
        "id": "SUPERVISION_TARIFF_MONTHLY_FEE(59) "
    },
    {
        "id": "SUPERVISION_TERMINATION_ONE_TIME_FEE(55) "
    },
    {
        "id": "TARIFF_FEE(130) "
    },
    {
        "id": "UNBLOCK_FRAUD_PARTIAL(145) "
    },
    {
        "id": "UNBLOCK_FRAUD_TOTAL(147) "
    },
    {
        "id": "UNBLOCK_NON_PAYMENT_DECOMMISSION(151) "
    },
    {
        "id": "UNBLOCK_NON_PAYMENT_PARTIAL(153) "
    },
    {
        "id": "UNBLOCK_NON_PAYMENT_TOTAL(149) "
    },
    {
        "id": "UNBLOCK_THEFT(143) "
    },
    {
        "id": "UNBLOCK_USER(139) "
    },
    {
        "id": "VALUE_ADDED_SERVICE_FEE_MONTHLY_FEE(82) "
    },
    {
        "id":
"\"VALUE_ADDED_SERVICE_INITIATION_SUSPENSION_ONE_TIME_FEE(79) \"
    },
    {
        "id": "VALUE_ADDED_SERVICE_MONTHLY_FEE(32) "
    },
    {
        "id":
"\"VALUE_ADDED_SERVICE_REACTIVATION_ONE_TIME_FEE(81) \"
    },
    {
        "id": "VALUE_ADDED_SERVICE_SET_UP_ONE_TIME(77) "
    },

```

```

    {
        "id":
"VALUE_ADDED_SERVICE_SUSPENSION_TARIFF_MONTHLY_FEE(80) "
    },
    {
        "id":
"VALUE_ADDED_SERVICE_TERMINATION_ONE_TIME_FEE(78) "
    },
    {
        "id": "VIRTUAL_PROFILE_SETUP_ONE_TIME_FEE(121) "
    },
    {
        "id": "VOICE_MO(0) "
    },
    {
        "id": "VOICE_MT(1) "
    },
    {
        "id": "VOICE_RECURRENT_FEE_MONTHLY_FEE(4) "
    },
    {
        "id": "VOLTE_ACTIVATION(172) "
    },
    {
        "id": "VOLTE_TARIFF(173) "
    },
    {
        "id": "VOUCHER_ACTIVATION(154) "
    },
    {
        "id": "VOUCHER_CANCELLATION(103) "
    },
    {
        "id": "VOUCHER_EXPIRATION(104) "
    },
    {
        "id": "VPN_CUSTOM_APN_ONE_TIME_FEE(38) "
    },
    {
        "id": "VPN_INITIATION_SUSPENSION_ONE_TIME_FEE(35) "
    },
    {
        "id": "VPN_MONTHLY_FEE(31) "
    },
    {
        "id": "VPN_REACTIVATION_FEE_ONE_TIME_FEE(37) "
    },
    {
        "id": "VPN_SET_UP_ONE_TIME_FEE(33) "
    },
    {
        "id": "VPN_STATIC_IP_MONTHLY_FEE(40) "
    },
    {
        "id": "VPN_SUSPENSION_TARIFF_MONTHLY_FEE(36) "
    },
    },

```

```
{
  {
    "id": "VPN_TARIFF_MONTHLY_FEE(39)"
  },
  {
    "id": "VPN_TERMINATION_ONE_TIME_FEE(34)"
  },
  {
    "id": "YEARLY_SERVICE(113)"
  }
]
}
```

### 5.19 Resource downloadReport

This resource is used to manage (asynchronous) generation of reports. Lifecycle of a report generated using this interface is:

- Create report (if this operation returns success, at this point generation of the report starts in background).
- Poll its status listing all the generated reports.
- Obtain download link once the report has been reported as created in polling, using the resource link.
- Download report.
- Delete the report from the platform (there is a limit of 10 opened reports per consumer).

Resource URI:

<https://{env:port}/services/REST/GlobalM2M/Reports/v1/r12/report/downloadReport>

#### 5.19.1 GET list

Retrieves the list of reports that has been created by this API consumer (identified by its SSL Client Certificate).

##### 5.19.1.1 Input parameters

- Available query parameters: None
- Body: Void entity-body

##### 5.19.1.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): List of reports that have been generated by the consumer.

### 5.19.1.3 Request example

```
GET
/services/REST/GlobalM2M/Reports/v1/r12/report/downloadReport
HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

### 5.19.1.4 Response example

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnnn
Date: Fri, 10 Dec 2010 12:51:59 GMT

{"downloadReports": [
  {
    "downloadReportId": "532c3daaefb54b21114495cf",
    "created": "2014-03-21T14:24:58+01:00",
    "expire": "2014-03-22T14:24:58+01:00",
    "modified": "2014-03-21T14:25:00+01:00",
    "status": "finished",
    "params": {"consumption_daily": {
      "start": "2013-12-01",
      "showBillingAccount": "true",
      "showSubscriptions": "false",
      "end": "2013-12-05",
      "orgId": "customer-AlvaroCustomer141ee88ecdfS2WxC6A"
    }},
    "remove": "2015-03-21T14:24:58+01:00"
  },
  {
    "downloadReportId": "532c3da8efb54bb50f4495d4",
    "created": "2014-03-21T14:24:56+01:00",
    "expire": "2014-03-22T14:24:56+01:00",
    "modified": "2014-03-21T14:24:58+01:00",
    "status": "finished",
    "params": {"consumption_daily": {
      "start": "2013-12-01",
      "showBillingAccount": "true",
      "showSubscriptions": "false",
      "end": "2013-12-05",
      "orgId": "customer-AlvaroCustomer141ee88ecdfS2WxC6A"
    }},
    "remove": "2015-03-21T14:24:56+01:00"
  }
]
```

### 5.19.2 POST

Creates a new report request to be generated in background.

The creation of the report of monthly expense detail for non monetary users may involve two different downloadReportIds if there is a minicycle. One downloadReportId for each report.

### 5.19.2.1 Input parameters

- Available query parameters: None.
- Body: Report to be generated.
- Available options are the following:

Parameter	Type	Description
presence_daily	ReportType	Daily presence report
presence_monthly	ReportType	Monthly presence report
location_daily	ReportType	Daily location report
location_monthly	ReportType	Monthly location report
opened_sup_alarms_daily	ReportType	Daily opened supervision alarms report
opened_sup_alarms_monthly	ReportType	Monthly opened supervision alarms report
closed_sup_alarms_daily	ReportType	Daily closed supervision alarms report
closed_sup_alarms_monthly	ReportType	Monthly closed supervision alarms report
accumulated_summary_daily	DailySummaryAggregatedReportType	Daily summary of presence report
consumption_daily	DailyConsumptionReportType	Daily consumption report
expense_detail_monthly	MonthlyExpenseDetailReportType	Monthly expense detail report
subscription_base_monthly	SubscriptionBaseReportType	Subscription base monthly report
expense_detail_daily	DailyExpenseDetailReportType	Daily expense detail report
consumption_detail_daily	DailyConsumptionDetailReportType	Daily consumption detail report
subscription_snapshot_daily	SubscriptionSnapshotReportType	Subscription snapshot report
sms_ao	SMSAOReportType	Sms application originated
charges_aggregated	PrebillAggregatedMonthlyReportType	Prebill aggregated report
api_transaction_activity_daily	DailyAPITransactionActivityDailyType	Daily API transaction activity report
network_registration_failure_daily	DailyNetworkRegistrationFailureType	Daily network registration failure
swap_activity	SwapActivityReportType	Swap activity report
retired_subscriptions	RetiredSubscriptionsReportType	Retired subscriptions report

subscription_detail_monthly	SubscriptionDetailMonthlyReportType	Subscription detail monthly billing report
manufacturer_model_summary	ManufacturerReportType	Manufacturer model summary report
user_list	UserListReportType	User list report
alarms_monthly	AlarmsMonthlyReportType	Alarms monthly report
customer_manufacturer_file	CustomerManufacturerFileReportType	Direct SIM manufacturer order report. Only for Customers belongs to VIVO Provider.

### 5.19.2.2 Output parameters

- HTTP Response Code: 202 Accepted
- Body (JSON format): Empty body.

### 5.19.2.3 Request example

#### 5.19.2.3.1 Presence report (monthly period)

```
POST
/services/REST/GlobalM2M/Reports/v1/r12/report/downloadReport
HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive

{
  "presence_monthly": {
    "supervisionGroup": "default_group",
    "date": "2014-01"
  }
}
```

#### 5.19.2.3.2 Presence report (daily report)

```
POST
/services/REST/GlobalM2M/Reports/v1/r12/report/downloadReport
HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive

{
  "presence_daily": {
    "supervisionGroup": "default_group",
    "date": "2014-01-01"
  }
}
```



```
}
```

#### **5.19.2.3.3 Opened supervision alarms report (monthly period)**

```
POST
/services/REST/GlobalM2M/Reports/v1/r12/report/downloadReport
HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive

{
  "opened_sup_alarms_monthly": {
    "supervisionGroup": "default_group",
    "date": "2014-01"
  }
}
```

#### **5.19.2.3.4 Opened supervision alarms report (daily report)**

```
POST
/services/REST/GlobalM2M/Reports/v1/r12/report/downloadReport
HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive

{
  "opened_sup_alarms_daily": {
    "supervisionGroup": "default_group",
    "date": "2014-01-01"
  }
}
```

#### **5.19.2.3.5 Closed supervision alarms report (montly period)**

```
POST
/services/REST/GlobalM2M/Reports/v1/r12/report/downloadReport
HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive

{
  "closed_sup_alarms_monthly": {
    "supervisionGroup": "default_group",
    "date": "2014-01"
  }
}
```

```
}
```

#### **5.19.2.3.6 Closed supervision alarms report (daily period)**

```
POST
/services/REST/GlobalM2M/Reports/v1/r12/report/downloadReport
HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive

{
  "closed_sup_alarms_daily": {
    "supervisionGroup": "default_group",
    "date": "2014-01-01"
  }
}
```

#### **5.19.2.3.7 Location report (monthly period)**

```
POST
/services/REST/GlobalM2M/Reports/v1/r12/report/downloadReport
HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive

{
  "location_monthly": {
    "supervisionGroup": "default_group",
    "date": "2014-01-01"
  }
}
```

#### **5.19.2.3.8 Location report (daily period)**

```
POST
/services/REST/GlobalM2M/Reports/v1/r12/report/downloadReport
HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive

{
  "location_daily": {
    "supervisionGroup": "default_group",
    "date": "2014-01-01"
  }
}
```

}

#### 5.19.2.3.9 Daily summary aggregated report

DailySummaryAggregated has the following fields:

Parameter	Type	Optional	Description
supervisionGroup	string	No	Supervision Group ID
date	gYearMonth	No	YYYY-MM

```

POST
/services/REST/GlobalM2M/Reports/v1/r12/report/downloadReport
HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive

{
  "accumulated_summary_daily": {
    "supervisionGroup": "default_group",
    "date": "2014-01"
  }
}

```

#### 5.19.2.3.10 Daily consumption report

DailyConsumptionReportType has the following fields:

Parameter	Type	Optional	Description
showBillingAccount	boolean	Yes	Show daily aggregated values for each Billing Account. If this field is true, showCommercialGroup cannot be true.
showCommercialGroup	Boolean	Yes	Show daily aggregated values for each Subscription Group. If this field is true, showBillingAccount cannot be true.
showSubscriptions	boolean	Yes	Show daily aggregated values for each individual subscription.
start	date	No	Start date
end	date	No	End date

```

POST
/services/REST/GlobalM2M/Reports/v1/r12/report/downloadReport
HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate

```

```
Accept: application/json
Host: host.com
Connection: Keep-Alive
{
  "consumption_daily": {
    "start": "2014-01-29",
    "showBillingAccount": "true",
    "showCommercialGroup": "false",
    "showSubscriptions": "false",
    "end": "2014-01-30"
  }
}
```

#### 5.19.2.3.11 *Monthly expense detail report*

MonthlyExpenseDetailReportType has the following fields:

Parameter	Type	Optional	Description
billingAccount	string	No	Billing Account ID
date	gYearMonth	No	Month in format YYYY-MM, obtained billable events will be those included in the billing period that expires on this month.

```
POST
/services/REST/GlobalM2M/Reports/v1/r12/report/downloadReport
HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip, deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive

{
  "expense_detail_monthly": {
    "billingAccount": "0",
    "date": "2014-02"
  }
}
```

#### 5.19.2.3.12 *Subscription base report*

SubscriptionBaseReportType has the following fields:

Parameter	Type	Optional	Description
start	gYearMonth	No	Start date
end	gYearMonth	No	End date

```
POST
/services/REST/GlobalM2M/Reports/v1/r12/report/downloadReport
HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
{
  "subscription_base_monthly": {
    "start": "2014-01",
    "end": "2014-02"
  }
}
```

#### 5.19.2.3.13 *Daily expense detail report*

DailyExpenseDetailReportType has the following fields:

Parameter	Type	Optional	Description
start	date	No	Start date
end	date	No	End date. Can be up to 31 natural days after start date

```
POST
/services/REST/GlobalM2M/Reports/v1/r12/report/downloadReport
HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
{
  "expense_detail_daily": {
    "start": "2014-01-01",
    "end": "2014-01-30",
    "chargeCodes": [
      "YEARLY_SERVICE(113)",
      "VPN_TARIFF_MONTHLY_FEE(39)"
    ]
  }
}
```

#### 5.19.2.3.14 *Daily consumption detail report*

DailyConsumptionDetailReportType has the following fields:

Parameter	Type	Optional	Description
-----------	------	----------	-------------

start	date	No	Start date
end	date	No	End date

```
POST
/services/REST/GlobalM2M/Reports/v1/r12/report/downloadReport
HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
{
  "consumption_detail_daily": {
    "start": "2014-01-01",
    "end": "2014-01-30"
  }
}
```

#### **5.19.2.3.15 Subscription snapshot detail report**

```
POST
/services/REST/GlobalM2M/Reports/v1/r12/report/downloadReport
HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
{
  "subscription_snapshot_daily": {
    "date": "2014-01-01"
  }
}
```

#### **5.19.2.3.16 SMS-AO report**

The watcher ID returned by the POST inventory (SMS)5.7.1 is used to create the SMS\_AO report that contains the report about the delivery of the message

```
POST
/services/REST/GlobalM2M/Reports/v1/r12/report/downloadReport
HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
{
```

```
"sms_ao": {  
  "watcherId": "12344432234"  
}  
}
```

#### **5.19.2.3.17    *Prebill aggregated monthly report***

```
POST  
/services/REST/GlobalM2M/Reports/v1/r12/report/downloadReport  
HTTP/1.1  
Content-Type: application/json;charset=UTF-8  
Content-Length: nnnn  
Accept-Encoding: gzip,deflate  
Accept: application/json  
Host: host.com  
Connection: Keep-Alive  
  
{  
  "charges_aggregated":  
  {  
    "date":"2014-05",  
    "billingAccount": "0"  
  }  
}
```

#### **5.19.2.3.18    *Daily API transaction activity report***

```
POST  
/services/REST/GlobalM2M/Reports/v1/r12/report/downloadReport  
HTTP/1.1  
Content-Type: application/json;charset=UTF-8  
Content-Length: nnnn  
Accept-Encoding: gzip,deflate  
Accept: application/json  
Host: host.com  
Connection: Keep-Alive  
  
{  
  "api_transaction_activity_daily":  
  {  
    "date":"2014-05-01"  
  }  
}
```

#### **5.19.2.3.19    *Daily network registration failure report***

```
POST  
/services/REST/GlobalM2M/Reports/v1/r12/report/downloadReport  
HTTP/1.1  
Content-Type: application/json;charset=UTF-8  
Content-Length: nnnn  
Accept-Encoding: gzip,deflate  
Accept: application/json  
Host: host.com  
Connection: Keep-Alive  
  
{
```

```
"network_registration_failure_daily":
{
  "date":"2014-05-01"
}
```

#### **5.19.2.3.20 Swap activity report**

```
POST
/services/REST/GlobalM2M/Reports/v1/r12/report/downloadReport
HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive

{
  "swap_activity":
  {
    "date":"2014-05-01"
  }
}
```

#### **5.19.2.3.21 Retired subscription report**

```
POST
/services/REST/GlobalM2M/Reports/v1/r12/report/downloadReport
HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive

{
  "retired_subscriptions":
  {
    "start":"2014-05-01",
    "end":"2014-05-01"
  }
}
```

#### **5.19.2.3.22 Subscription detail monthly report**

```
POST
/services/REST/GlobalM2M/Reports/v1/r12/report/downloadReport
HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com

Connection: Keep-Alive
```



```
{
  "subscription_detail_monthly": {
    "billingAccount": "0",
    "dateBillingCycleEnd": "2018-05-27",
    "msisdn": "99999999"
  }
}
```

#### **5.19.2.3.23**     ***Changed imei report***

```
POST
/services/REST/GlobalM2M/Reports/v1/r12/report/downloadReport
HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com

Connection: Keep-Alive

{
  "changed_imei": {
    "date": "2018-05-27"
  }
}
```

#### **5.19.2.3.24**     ***Manufacturer monthly summary report***

```
POST
/services/REST/GlobalM2M/Reports/v1/r12/report/downloadReport
HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com

Connection: Keep-Alive

{
  "manufacturer_model_summary": {
  }
}
```

#### **5.19.2.3.25**     ***User list report***

```
POST
/services/REST/GlobalM2M/Reports/v1/r12/report/downloadReport
HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
```

```
Connection: Keep-Alive
```

```
{
  "user_list": {
  }
}
```

#### 5.19.2.3.26 **Alarms monthly report**

```
POST
/services/REST/GlobalM2M/Reports/v1/r12/report/downloadReport
HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
```

```
Connection: Keep-Alive
```

```
{
  "alarms_monthly": {
    "date": "2020-04"
  }
}
```

#### 5.19.2.3.27 **Direct SIM manufacturer order report**

```
POST
/services/REST/GlobalM2M/Reports/v1/r12/report/downloadReport
HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
```

```
Connection: Keep-Alive
```

```
{
  "customer_manufacturer_file": {
    "orderId": "CP1255"
  }
}
```

#### 5.19.2.3.28 **Legacy expense detail report**

LegacyExpenseDetailReportType has the following fields:

Parameter	Type	Optional	Description
billingAccount	string	No	Billing Account ID
date	xsd:date	No	Date of the invoice in format YYYY-MM-DD
showBillingAccount	xsd:boolean	Yes	Show daily aggregated values. Read only parameter.

```
POST
/services/REST/GlobalM2M/Reports/v1/r12/report/downloadReport
HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive

{
  "legacy_expense_detail_monthly": {
    "billingAccount": "0",
    "date": "2014-02-05"
  }
}
```

#### 5.19.2.3.29 *lot Partner expense detail report*

lotPartnerExpenseDetailReportType has the following fields:

Parameter	Type	Optional	Description
billingAccount	string	No	Billing Account ID
date	xsd:date	No	Date of the invoice in format YYYY-MM

```
POST
/services/REST/GlobalM2M/Reports/v1/r12/report/downloadReport
HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive

{
  "iot_partner_expense_detail_monthly": {
    "billingAccount": "0",
    "date": "2024-02"
  }
}
```

#### 5.19.2.3.30 *Inventory Export report*

InventoryExportReportType has the following fields:

Parameter	Type	Optional	Description
-----------	------	----------	-------------

filters	object array	Yes	Array of key-value pairs where the keys are the same as the query parameters supported for filtering in inventory.
columns	<p>string array</p> <p>Valid values:</p> <ul style="list-style-type: none"> <li>• icc</li> <li>• imsi</li> <li>• msisdn</li> <li>• alias</li> <li>• customFieldName_1</li> <li>• customFieldName_2</li> <li>• customFieldName_3</li> <li>• customFieldName_4</li> <li>• simModel</li> <li>• logistics</li> <li>• lteEnabled</li> <li>• legacy</li> <li>• statusGPRS</li> <li>• connectDateGPRS</li> <li>• disconnectDateGPRS</li> <li>• statusIP</li> <li>• connectDateIP</li> <li>• disconnectDateIP</li> <li>• limitVoiceConsumptionDay</li> <li>• consumptionVoiceConsumptionDay</li> <li>• thresholdVoiceConsumptionDay</li> <li>• limitSMSConsumptionDay</li> <li>• consumptionSMSConsumptionDay</li> <li>• thresholdSMSConsumptionDay</li> <li>• limitDataConsumptionDay</li> <li>• consumptionDataConsumptionDay</li> <li>• thresholdDataConsumptionDay</li> <li>• limitVoiceConsumptionMonth</li> <li>• consumptionVoiceConsumptionMonth</li> <li>• thresholdVoiceConsumptionMonth</li> <li>• limitSMSConsumptionMonth</li> <li>• consumptionSMSConsumptionMonth</li> <li>• thresholdSMSConsumptionMonth</li> <li>• limitDataConsumptionMonth</li> <li>• consumptionDataConsumptionMonth</li> <li>• thresholdDataConsumptionMonth</li> <li>• limitVoiceExpense</li> </ul>	Yes	Array of columns to be downloaded. By default all the columns are downloaded.

	<ul style="list-style-type: none"> <li>• consumptionVoiceExpense</li> <li>• thresholdVoiceExpense</li> <li>• limitSMSEExpense</li> <li>• consumptionSMSEExpense</li> <li>• thresholdSMSEExpense</li> <li>• limitDataExpense</li> <li>• consumptionDataExpense</li> <li>• thresholdDataExpense</li> <li>• limitTotalExpense</li> <li>• consumptionTotalExpense</li> <li>• thresholdTotalExpense</li> <li>• commercialGroup</li> <li>• supervisionGroup</li> <li>• imei</li> <li>• currentApn</li> <li>• currentItp</li> <li>• manufacturerOrderNumber</li> <li>• orderNumber</li> <li>• servicePack</li> <li>• serviceProviderEnablerName</li> <li>• serviceProviderCommercialName</li> <li>• customerName</li> <li>• lifeCycleStatus</li> <li>• sgsnIp</li> <li>• ggsnIp</li> <li>• country</li> <li>• operator</li> <li>• swapType</li> <li>• eid</li> <li>• profileStatus</li> <li>• ratType</li> <li>• qci</li> <li>• lastStateChangeDate</li> <li>• lastConsumDate</li> <li>• crmId_1</li> <li>• billingAccountFiscalNumber</li> <li>• crmBillingAccountId</li> <li>• additionalIp</li> <li>• suspensionNextDate</li> <li>• poolConsumptionTotalExpense</li> <li>• poolConsumptionSMSEExpense</li> <li>• poolConsumptionDataExpense</li> <li>• poolConsumptionVoiceExpense</li> </ul>		
--	---	--	--

	<ul style="list-style-type: none"> <li>• voLteEnabled</li> <li>• defaultApn</li> <li>• lastServicePackChangeDate</li> <li>• lastCommercialGroupChangeDate</li> <li>• tec2GEnabled</li> <li>• tec3GEnabled</li> <li>• tecLteEnabled</li> <li>• tecNblotEnabled</li> <li>• tec5GEnabled</li> <li>• usedRatTypes</li> <li>• imeiLock</li> <li>• lastSmsConsumptionDate</li> <li>• lastVoiceConsumptionDate</li> </ul>		
--	--	--	--

```

POST
/services/REST/GlobalM2M/Reports/v1/r12/report/downloadReport
HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive

{
  "inventory_export": {
    "filters": [
      {
        "customer": "customer-customer_anajf_movil7f6a8c30d2rw"
      }
    ],
    "columns": [
      "icc",
      "imsi",
      "msisdn",
      "alias",
      "customFieldName_1",
      "customFieldName_2",
      "customFieldName_3",
      "customFieldName_4",
      "simModel",
      "logistics",
      "lteEnabled",
      "legacy",
      "statusGPRS",
      "connectDateGPRS",
      "disconnectDateGPRS",
      "statusIP",
      "connectDateIP",
      "disconnectDateIP",
    ]
  }
}

```

```
"limitVoiceConsumptionDay",
"consumptionVoiceConsumptionDay",
"thresholdVoiceConsumptionDay",
"limitSMSConsumptionDay",
"consumptionSMSConsumptionDay",
"thresholdSMSConsumptionDay",
"limitDataConsumptionDay",
"consumptionDataConsumptionDay",
"thresholdDataConsumptionDay",
"limitVoiceConsumptionMonth",
"consumptionVoiceConsumptionMonth",
"thresholdVoiceConsumptionMonth",
"limitSMSConsumptionMonth",
"consumptionSMSConsumptionMonth",
"thresholdSMSConsumptionMonth",
"limitDataConsumptionMonth",
"consumptionDataConsumptionMonth",
"thresholdDataConsumptionMonth",
"limitVoiceExpense",
"consumptionVoiceExpense",
"thresholdVoiceExpense",
"limitSMSExpense",
"consumptionSMSExpense",
"thresholdSMSExpense",
"limitDataExpense",
"consumptionDataExpense",
"thresholdDataExpense",
"limitTotalExpense",
"consumptionTotalExpense",
"thresholdTotalExpense",
"commercialGroup",
"supervisionGroup",
"imei",
"currentApn",
"currentIp",
"manufacturerOrderNumber",
"orderNumber",
"servicePack",
"serviceProviderEnablerName",
"serviceProviderCommercialName",
"customerName",
"lifeCycleStatus",
"sgsnIp",
"ggsnIp",
"country",
"operator",
"swapType",
"eid",
"profileStatus",
"ratType",
"qci",
"lastStateChangeDate",
"lastConsumDate",
"crmId_1",
"billingAccountFiscalNumber",
"crmBillingAccountId",
```

```

        "additionalIp",
        "suspensionNextDate",
        "poolConsumptionTotalExpense",
        "poolConsumptionSMSExpense",
        "poolConsumptionDataExpense",
        "poolConsumptionVoiceExpense",
        "voLteEnabled",
        "defaultApn",
        "lastServicePackChangeDate",
        "lastCommercialGroupChangeDate",
        "tec2GEnabled",
        "tec3GEnabled",
        "tecLteEnabled",
        "tecNbIotEnabled",
        "tec5GEnabled",
        "usedRatTypes",
        "imeiLock",
        "lastSmsConsumptionDate",
        "lastVoiceConsumptionDate"
    ]
}
}

```

#### 5.19.2.4 Response example

```

HTTP/1.1 202 Accepted
Date: Thu, 04 Jun 2009 02:51:59 GMT
Location:
https://host.com/services/REST/GlobalM2M/Reports/v1/r12/report/downloadReport

```

#### 5.19.2.5 Fault response example

```

HTTP/1.1 400 Bad Request
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2012 02:52:00 GMT

{
  "ClientException": {
    "exceptionId": 1021,
    "text": "Invalid parameter value: date. Supported values
are using Y-m format
",
    "exceptionCategory": "SVC"
  }
}

```

### 5.19.3 DELETE

Deletes an asynchronous report that was generated previously using POST operation. ID of the report to be deleted can be obtained using GET (list) operation.



Resource URI:

`https://{env:port}/services/REST/GlobalM2M/Reports/v1/r12/report/downloadReport/{downloadReportId}`

#### 5.19.3.1 Input parameters

- Available query parameters: None
- Body: Void entity-body

#### 5.19.3.2 Output parameters

- HTTP Response Code: 200 OK

Body (JSON format): Useless response.

#### 5.19.3.3 Request example

`reportId` is obtained on a GET operation

```
DELETE
/services/REST/GlobalM2M/Reports/v1/r12/report/downloadReport/53
2c505befb54b53194495d0
Accept-Encoding: gzip, deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

#### 5.19.3.4 Response example

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnnn
Date: Fri, 10 Dec 2010 12:51:59 GMT

{"data":true}
```

### 5.20 Resource `downloadReport` link

This resource is used to get a one-time-usage-link of a report that has been generated previously using the *downloadReport* resource.

Resource URI:

`https://{env:port}/services/REST/GlobalM2M/Reports/v1/r12/report/downloadReport/{downloadReportId}/link`

*downloadReportId* can be obtained in a GET operation to *downloadReport* resource.

#### 5.20.1 GET

Retrieves one-time-usage link to download the content of the generated report.

#### 5.20.1.1 Input parameters

- Available query parameters: None
- Body: Void entity-body

#### 5.20.1.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): List of reports that have been generated by the consumer.

#### 5.20.1.3 Request example

```
GET
/services/REST/GlobalM2M/Reports/v1/r12/report/downloadReport/53
314ae6efb54bc830604466/link HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

#### 5.20.1.4 Response example

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnnn
Date: Fri, 10 Dec 2010 12:51:59 GMT

{"resultURL": ["http://m2m-movistar-es.int-
m2mglobserv02.hi.inet/api/download/475mU7qxe673I8MbP3WtQbPpR6XUu
iu6GM2Idh11797cmWHT23UtETcAub5h"]}] }
```

### 5.21 Resource diagnostic

This resource is used to perform the following subscription diagnostics:

- Administrative
- IP

Resource URI:

`https://{env:port}/services/REST/GlobalM2M/  
DiagnosticInventory/v1/r12/sim/{id}/diagnostic/{diagnostic_type}`

Where:

- {id} is the identification of the simcard:
  - For ICC: icc:{ICC value}
  - For IMSI: imsi:{IMSI value}
  - For MSISDN: tel:{MSISDN value}
  - For subscriptionID: {value}
- {diagnostic\_type} is administrative or ip

### 5.21.1 GET - Administrative diagnostic

Performs an administrative diagnostic of the Subscription, this means all the subsystems of the platform are queried to assess its provisioning status.

#### 5.21.1.1 Input parameters

- Available query parameters: None
- Body: Void entity-body

#### 5.21.1.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): Global, voice, data and SMS status and a list of identified issues.

#### 5.21.1.3 Request example

```
GET
/services/REST/GlobalM2M/DiagnosticInventory/v1/r12/sim/1422/dia
gnostic/administrative HTTP/1.1

Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

#### 5.21.1.4 Response example

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

{
  "globalStatus": true,
  "globalIssues": [
    "PROVISION_CORE",
    "PROVISION_HLR"
  ],
  "voiceStatus": true,
  "voiceIssues": [
    "PROVISION_CORE"
  ],
  "dataStatus": true,
  "dataIssues": [
    "PROVISION_CORE", "RADIO_ACCESS_ENABLED", "IMEI_LOCK"
  ],
  "smsStatus": true,
  "smsIssues": [
    "PROVISION_CORE"
  ],
  "radioAccessEnabledParam": {
    "radioAccessList": "2G, 3G, NB-IoT"
  }
}
```

```
}
```

### 5.21.2 GET - IP diagnostic

Performs an IP diagnostic of the Subscription, this means all the subsystems of the platform are queried to assess its provisioning status.

#### 5.21.2.1 Input parameters

- Available query parameters: None
- Body: Void entity-body

#### 5.21.2.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): As this is an asynchronous operation, *transactionId* is returned to poll later for the result of the operation.

#### 5.21.2.3 Request example

```
GET
/services/REST/GlobalM2M/DiagnosticInventory/v1/r12/sim/1422/dia
gnostic/ip HTTP/1.1

Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

#### 5.21.2.4 Response example

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

{"transactionId": "5330369cefb54bb62622bf11"}
```

### 5.21.3 GET – Diagnostic result

Polls the status of a diagnostic operation that is being executed in background.

Resource URI:

```
https://{env:port}/services/REST/GlobalM2M/
DiagnosticInventory/v1/r12/sim/{id}/diagnostic/{transactionId}
```

#### 5.21.3.1 Input parameters

- Available query parameters: None
- Body: Void entity-body

#### 5.21.3.2 Output parameters

- HTTP Response Code: 200 OK

- Body (JSON format): Result of the IP diagnostic operation.

#### 5.21.3.3 Request example

```
GET
/services/REST/GlobalM2M/DiagnosticInventory/v1/r12/async/sim/di
agnostic/5330369cefb54bb62622bf11 HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

#### 5.21.3.4 Response example

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

{"result": "IP_DOWN"}
```

### 5.22 Resource syncDiagnostic

This resource is used to perform the following subscription diagnostics in a synchronous way:

- GSM
- GPRS

Resource URI:

`https://{env:port}/services/REST/GlobalM2M/  
DiagnosticInventory/v1/r12/sim/{id}/syncDiagnostic/{diagnostic_type}`

Where:

- {id} is the identification of the simcard:
  - For ICC: icc:{ICC value}
  - For IMSI: imsi:{IMSI value}
  - For MSISDN: tel:{MSISDN value}
  - For subscriptionID: {value}
- {diagnostic\_type} is gsm or gprs

#### 5.22.1 GET - GSM synchronous diagnostic

Performs a GSM diagnostic of the Subscription, this means all the subsystems of the platform are queried to assess its provisioning status.

##### 5.22.1.1 Input parameters

- Available query parameters: None

- Body: Void entity-body

#### 5.22.1.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): Result of the operation.

#### 5.22.1.3 Request example

```
GET
/services/REST/GlobalM2M/DiagnosticInventory/v1/r12/sim/1422/syn
cDiagnostic/gsm HTTP/1.1

Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

#### 5.22.1.4 Response example

```
HTTP/1.1 200 OK
Date: Thu, 04 Jun 2009 02:51:59 GMT
Content-Type: application/json
Content-Length: nnnn
{"result": "GSM_DOWN"}
```

### 5.22.2 GET - GPRS synchronous diagnostic

Performs a GPRS diagnostic of the Subscription, this means all the subsystems of the platform are queried to assess its provisioning status.

#### 5.22.2.1 Input parameters

- Available query parameters: None
- Body: Void entity-body

#### 5.22.2.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): Result of the operation.

#### 5.22.2.3 Request example

```
GET
/services/REST/GlobalM2M/DiagnosticInventory/v1/r12/sim/1422/syn
cDiagnostic/gprs HTTP/1.1

Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

#### 5.22.2.4 Response example

```
HTTP/1.1 200 OK
Date: Thu, 04 Jun 2009 02:51:59 GMT
```

```
Content-Type: application/json
Content-Length: nnnn

{"result": "GPRS_DOWN"}
```

## 5.23 Resource endCustomer

This resource is used to manage consumer End Customers.

Resource URI:

<https://{env:port}/services/REST/GlobalM2M/EndCustomers/v3/r12/endCustomer>

### 5.23.1 GET detail

Retrieves detailed information of an End Customer.

Resource URI:

<https://{env:port}/services/REST/GlobalM2M/EndCustomers/v3/r12/endCustomer/{endCustomerId}>

#### 5.23.1.1 Input parameters

- Request URI contains End Customer ID.
- Available query parameters: None
- Body: Void entity-body

#### 5.23.1.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): End Customer detailed information

#### 5.23.1.3 Request example

```
GET
/services/REST/GlobalM2M/EndCustomers/v3/r12/endCustomer/{endCustomerId} HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

#### 5.23.1.4 Response example

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2012 02:52:00 GMT

{"endCustomerData": {
  "name": "automatizado6473465",
```

```
"status": "Active",
"defaultLanguage": "es",
"companyType": "1",
"sector": "4",
"companyAddress": {
  "line1": "Diagonal 00",
  "line2": "",
  "city": "LaCity",
  "state": "LA",
  "country": "ES",
  "postalCode": "552356"
},
"primaryContact": {
  "firstName": "Rambo",
  "lastName": "Stallone",
  "phone": "123456789",
  "email": "email@email.com",
  "mobile": "123456789",
  "fax": "2132121"
},
"billingAddress": {
  "line1": "456789sdfg",
  "line2": "",
  "city": "Madrid",
  "state": "Madrid",
  "country": "ES",
  "postalCode": "123456"
},
"shippingAddress": {
  "line1": "654789321",
  "line2": "",
  "city": "Madrid",
  "state": "Madrid",
  "country": "ES",
  "postalCode": "31265"
},
"twoFactorLoginEnabled": false,
"networkResetEnabled": false,
"endCustomerID": "aggregator-
automatizado64734651439b272b74No",
"customField1": "test123",
"customField2": "field2",
"customField3": "field3",
"customField4": "field4",
"firstAdditionalContact": {
  "firstName": "Rambo",
  "lastName": "Stallone",
  "phone": "123456789",
  "email": "email@email.com",
  "mobile": "123456789",
  "fax": "234342"
},
"authorizationFlowEnabled": false,
"authorizationFlowProviderThreshold": 50000,
"authorizationFlowTotalSubscriptions": 2479,
"authorizationFlowDelegated": false,
```



```
"authorizationFlowThresholdPercentage": 100,
"authorizationFlowThresholdPercentageEnabled": false
}}
```

### 5.23.2 GET list

Returns the list of End Customers created by Consumer account.

Resource URI:

<https://{env:port}/services/REST/GlobalM2M/EndCustomers/v3/r12/endCustomer>

#### 5.23.2.1 Input parameters

- Available query parameters:

Parameter	Type	Optional	Description
maxBatchSize	int	Yes	A maximum number of entries to be returned in the response. Accepted values range is 1 to 10
startIndex	int	Yes	Offset to be applied to the response. E.g. startIndex=50 means that entries since 51 should be returned (first 50 entries should not be returned)

- Body: void entity-body.

#### 5.23.2.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): End Customer listing, returning ID, Name and status for each End Customer.

#### 5.23.2.3 Request example

```
GET
/services/REST/GlobalM2M/EndCustomers/v3/r12/endCustomer?startIndex=1&maxBatchSize=20 HTTP/1.1

Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

#### 5.23.2.4 Response example

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2012 02:52:00 GMT

{"endCustomerData": [
  {
    "status": "Active",
    "name": "Walking_Tester",
    "endCustomerID": "aggregator-
Walking_Tester142b3db2327bPUjnZx"
```

```
    },  
    {  
      "status": "Active",  
      "name": "automatizado6473465",  
      "endCustomerID": "aggregator-  
automatizado64734651439b272b74No"  
    },  
    {  
      "status": "Active",  
      "name": "automatizado11987145",  
      "endCustomerID": "aggregator-  
automatizado119871451439e4011ec9"  
    }  
  ]  
}
```

### 5.23.3 POST

Creates a new End Customer.

Resource URI:

<https://{env:port}/services/REST/GlobalM2M/EndCustomers/v3/r12/endCustomer>

#### 5.23.3.1 Input parameters

- Available query parameters: None
- Body (JSON format): Information of the End Customer that will be created.

#### 5.23.3.2 Output parameters

- HTTP Response Code: 201 Created
- Body (JSON format): Created End Customer ID.
- Additional HTTP Headers: Location.

#### 5.23.3.3 Request example

```
POST /services/REST/GlobalM2M/EndCustomers/v3/r12/endCustomer  
HTTP/1.1  
Content-Type: application/json;charset=UTF-8  
Content-Length: nnnn  
Accept-Encoding: gzip,deflate  
Accept: application/json  
Host: host.com  
Connection: Keep-Alive  
{  
  "billingAddress": {  
    "city": "Ciudad",  
    "country": "ES",  
    "line1": "Línea 1",  
    "line2": "Línea 2",  
    "postalCode": "28000",  
    "state": "Estado"  
  },  
  "companyAddress": {
```

```
    "city": "Ciudad",
    "country": "AL",
    "line1": "Line 1",
    "line2": "Line 2",
    "postalCode": "28001",
    "state": "Esta"
  },
  "companyType": "1",
  "twoFactorLoginEnabled": false,
  "networkResetEnabled": false,
  "customField1": "campo 1",
  "customField2": "campo 2",
  "customField3": "campo 3",
  "customField4": "campo 4",
  "defaultLanguage": "es",
  "name": "API_Rest_94911228",
  "primaryContact": {
    "email": "foo@tid.es",
    "fax": "8976987",
    "firstName": "José",
    "lastName": "Rodríguez",
    "mobile": "45435",
    "phone": "43543533"
  },
  "sector": "6",
  "shippingAddress": {
    "city": "Cit",
    "country": "US",
    "line1": "L1",
    "line2": "L2",
    "postalCode": "28002",
    "state": "Stat"
  },
  "status": "Active"
}
```

#### 5.23.3.4 Response example

```
HTTP/1.1 201 Created
Date: Thu, 04 Jun 2009 02:51:59 GMT
Location: Location:
https://host:port/services/REST/GlobalM2M/EndCustomers/v3/r12/endCustomer/aggreggreg-API_Rest_94911228144f46bacdfb3SD
{"endCustomerID": "aggregator-API_Rest_94911228144f46bacdfb3SD"}
```

#### 5.23.4 PUT

Modifies an existing End Customer.

Resource URI:

`https://{env:port}/services/REST/GlobalM2M/EndCustomers/v3/r12/endCustomer/{endCustomerID}`

#### 5.23.4.1 Input parameters

- Request URI contains End Customer ID.
- Available query parameters: None
- Body (JSON format): End Customer information to be updated.

#### 5.23.4.2 Output parameters

- HTTP Response Code: 204 OK
- Body (JSON format): Empty entity-body.

#### 5.23.4.3 Request example

##### 5.23.4.3.1 Update end customer data

```
PUT
/services/REST/GlobalM2M/EndCustomers/v3/r12/endCustomer/{endCustomerID} HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
{
  "billingAddress": {
    "city": "Ciudad",
    "country": "ES",
    "line1": "Línea 1",
    "line2": "Línea 2",
    "postalCode": "28000",
    "state": "Estado"
  },
  "companyAddress": {
    "city": "Ciudad",
    "country": "AL",
    "line1": "Line 1",
    "line2": "Line 2",
    "postalCode": "28001",
    "state": "Esta"
  },
  "companyType": "1",
  "twoFactorLoginEnabled": false,
  "networkResetEnabled": false,
  "customField1": "campo 1",
  "customField2": "campo 2",
  "customField3": "campo 3",
  "customField4": "campo 4",
  "defaultLanguage": "es",
  "name": "API_MODIF",
  "primaryContact": {
    "email": "foo@tid.es",
    "fax": "8976987",
    "firstName": "José",
```

```
    "lastName": "Rodríguez",
    "mobile": "45435",
    "phone": "43543533"
  },
  "sector": "6",
  "shippingAddress": {
    "city": "Cit",
    "country": "US",
    "line1": "L1",
    "line2": "L2",
    "postalCode": "28002",
    "state": "Stat"
  },
  "status": "Active"
}
```

#### **5.23.4.3.2 Update authorization delegated organization**

You can delegate the authorization flow to endcustomer only if the authorization flow is not already delegated to serviceProvider, customer or kiteMaster.

```
PUT
/services/REST/GlobalM2M/EndCustomers/v3/r12/customer/{endCustomerID} HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Content-Type: application/json; charset=UTF-8
Content-Length: nnnn
Host: host.com
Connection: Keep-Alive
{
  "endCustomerData": {
    "authorizationFlowDelegatedOrganization": "endCustomer"
  }
}
```

#### **5.23.4.4 Response example**

```
HTTP/1.1 204 No Content
Content-Length: nnnn
Date: Fri, 10 Dec 2010 12:51:59 GMT
```

#### **5.23.4.5 Fault response example**

##### **5.23.4.5.1 Authorization flow cannot be disabled due to number of subscriptions**

```
HTTP/1.1 403 Forbidden
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2012 02:52:00 GMT
```

```
{
  "ClientException": {
    "exceptionCategory": "SVC",
    "exceptionId": 1013,
    "text": "Operation is not allowed. Authorizations are
not allowed to be delegated"
  }
}
```

#### **5.23.4.5.2 Authorization flow is delegated to Master or Provider and cannot be delegated to a child organization**

```
HTTP/1.1 403 Forbidden
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2012 02:52:00 GMT

{
  "ClientException": {
    "exceptionCategory": "SVC",
    "exceptionId": 1013,
    "text": "Operation is not allowed. Authorizations are
not allowed to be delegated to a child organization"
  }
}
```

#### **5.23.5 PUT status (activate/deactivate)**

Activate/deactive an existing End Customer.

<https://{env:port}/services/REST/GlobalM2M/EndCustomers/v3/r12/endCustomer/{endCustomerId}/status>

Parameter	Type	Optional	Description
status	enumerated	Yes	Important note: When this parameter is set, request body must be empty.  Options are:  activate: activate End Customer.  deactivate: deactivate End Customer.

##### **5.23.5.1 Input parameters**

- Request URI contains End Customer ID.
- Available query parameters: action
- Body (JSON format): none.

##### **5.23.5.2 Output parameters**

- HTTP Response Code: 200 OK
- Body (JSON format): Empty entity-body.

### 5.23.5.3 Request example

```
PUT
/servic2es/REST/GlobalM2M/EndCustomers/v3/r12/endCustomer/{endCustomerID}/status?status=activate HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

### 5.23.5.4 Response example

```
HTTP/1.1 200 OK
Content-Length: nnnn
Date: Fri, 10 Dec 2010 12:51:59 GMT

{"data": "aggregator-API_Rest_74041242149c35f71353SkT"}
```

## 5.23.6 DELETE

Deletes an existing End Customer.

Resource URI:

`https://{env:port}/services/REST/GlobalM2M/EndCustomers/v3/r12/endCustomer/{endCustomerID}`

### 5.23.6.1 Input parameters

- Request URI contains End Customer ID.
- Available query parameters: None
- Body (JSON format): Void entity-body.

### 5.23.6.2 Output parameters

- HTTP Response Code: 204 No Content
- Body (JSON format): Empty entity-body.

### 5.23.6.3 Request example

```
DELETE
/services/REST/GlobalM2M/EndCustomers/v3/r12/endCustomer/{endCustomerID} HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

### 5.23.6.4 Response example

```
HTTP/1.1 204 No Content
Date: Thu, 04 Jun 2009 02:51:59 GMT
```

## 5.24 Resource user

This resource is used to manage consumer Users.

Resource URI:

`https://{env:port}/services/REST/GlobalM2M/Users/v3/r12/user`

### 5.24.1 GET list

Retrieves consumer user list.

#### 5.24.1.1 Input parameters

- Available query parameters:

Parameter	Type	Optional	Description
userName	String	Yes	Username of the user
email	String	Yes	Email of the user
maxBatchSize	int	Yes	A maximum number of entries to be returned in the response. Accepted values range is 1 to 10
startIndex	int	Yes	Offset to be applied to the response. E.g.: startIndex=50 means that entries since 51 should be returned (first 50 entries should not be returned)

- Body: Void entity-body

#### 5.24.1.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): Users list

#### 5.24.1.3 Request example

```
GET
/services/REST/GlobalM2M/Users/v3/r12/user?maxBatchSize=10&startIndex=0 HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

#### 5.24.1.4 Response example

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

{"user": [
  {
    "country": "AW",
    "email": "alvaro.melon@tic.alten.es",
    "language": "en"2,
    "roles": ["admin"],
    "status": "activated",
    "timezone": "Asia/Yerevan",
```



```
    "id": "526a1fa0efb54b377a000004",
    "username": "alvaro_customer",
    "firstname": "Alvaro Customer",
    "orgId": "customer-AlvaroCustomer141ee88ecdfs2WxC6A",
    "lastname": "Admin",
    "monetaryInfo": true,
    "mobilePhone": "0034698741254"
  },
  {
    "country": "ES",
    "email": "acaraba@axpe.com",
    "language": "es",
    "phone": "34697346888",
    "roles": ["admin"],
    "status": "pending",
    "timezone": "UTC",
    "id": "52a7da5fefb54b3f65000062",
    "username": "username74068371",
    "firstname": "UserFirstName",
    "orgId": "customer-AlvaroCustomer141ee88ecdfs2WxC6A",
    "lastname": "UserLastName",
    "monetaryInfo": true
  }
]}
```

## 5.24.2 POST

Creates a new User.

### 5.24.2.1 Input parameters

- Available query parameters: None
- Body (JSON format): Information of the User that will be created.

### 5.24.2.2 Output parameters

- HTTP Response Code: 201 Created
- Body (JSON format): Empty entity-body.
- Additional HTTP Headers: Location.

### 5.24.2.3 Request example

```
POST /services/REST/GlobalM2M/Users/v3/r12/user HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive

{
  "username": "jm_rest_8682155",
  "firstName": "Jose Miguel",
  "lastname": "Rodriguez 5",
```

```
{
  "email": "foo@tid.es",
  "orgId": "customer-AlvaroCustomer141ee88ecdfS2WxC6A",
  "phone": "1232134",
  "roles": ["admin"],
  "language": "es",
  "country": "ES",
  "timezone": "Europe/Madrid",
  "monetaryInfo": "true",
  "mobilePhone": "+34698741254"
}
```

#### 5.24.2.4 Response example

```
HTTP/1.1 201 Created
Date: Thu, 04 Jun 2009 02:51:59 GMT
Content-Type: application/json
Content-Length: nnnn
```

#### 5.24.3 PUT

Modifies an existing User.

Resource URI:

<https://{env:port}/services/REST/GlobalM2M/Users/v3/r12/user/{userId}>

##### 5.24.3.1 Input parameters

- Username is contained in request URI
- Available query parameters:

Parameter	Type	Optional	Description
action	enumerated	Yes	<p>Important note: When this parameter is set, request body must be empty.</p> <p>Options are:</p> <p>block: user account gets blocked.</p> <p>unblock: unblocks a previously blocked user account.</p> <p>resetPassword: resets a user that has blocked his account (too many incorrect logins or activation code expired or expired password).</p>

- Body (JSON format): End Customer information to be updated.

##### 5.24.3.2 Output parameters

- HTTP Response Code: 204 OK
- Body (JSON format): Empty entity-body.

##### 5.24.3.3 Request example

```
PUT /services/REST/GlobalM2M/Users/v3/r12/user/username:
jm_rest_8682155 HTTP/1.1
```

```
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

```
{
  "firstname": "José Miguel MODIF",
  "lastname": "Rodríguez MOD",
  "email": "foo_modified@tid.es",
  "phone": "91919191",
  "roles": ["admin"],
  "language": "en",
  "country": "US",
  "timezone": "Europe/Madrid",
  "monetaryInfo": "TRUE"
}
```

#### **5.24.3.3.1 Block user**

```
PUT /services/REST/GlobalM2M/Users/v3/r12/user/username:
jm_rest_8682155?action=block HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

#### **5.24.3.3.2 Unblock user**

```
PUT /services/REST/GlobalM2M/Users/v3/r12/user/username:
jm_rest_8682155?action=block HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

#### **5.24.3.3.3 Reset password**

```
PUT /services/REST/GlobalM2M/Users/v3/r12/user/username:
jm_rest_8682155?action=resetPassword HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

#### **5.24.3.4 Response example**

```
HTTP/1.1 204 OK
Date: Thu, 04 Jun 2009 02:51:59 GMT
Content-Type: application/json
```

Content-Length: nnnn

#### 5.24.4 DELETE

Deletes an existing user.

Resource URI:

`https://{env:port}/services/REST/GlobalM2M/Users/v3/r12/user/{userId}`

##### 5.24.4.1 Input parameters

- Available query parameters: None
- Body (JSON format): Void entity-body.

##### 5.24.4.2 Output parameters

- HTTP Response Code: 204 No Content
- Body (JSON format): Empty entity-body.

##### 5.24.4.3 Request example

```
DELETE /services/REST/GlobalM2M/Users/v3/r12/user/username:
jm_rest_8682155 HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

##### 5.24.4.4 Response example

```
HTTP/1.1 204 No Content
Date: Thu, 04 Jun 2009 02:51:59 GMT
Content-Type: application/json
Content-Length: nnnn
```

#### 5.25 Resource user role

This resource is used to retrieve available roles list that are used to create users.

Resource URI:

`https://{env:port}/services/REST/GlobalM2M/Users/v3/r12/role`

##### 5.25.1 GET

Retrieves roles for the given organization.

##### 5.25.1.1 Input parameters

- Available query parameters: organization ID.
- Body: Void entity-body

### 5.25.1.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): Available roles list.

### 5.25.1.3 Request example

```
GET /services/REST/GlobalM2M/Users/v3/r12/role?orgId=customer-
AlvaroCustomer141ee88ecdfS2WxC6A HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

### 5.25.1.4 Response example

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

{"roles": [
  "admin",
  "admin-smip",
  "billing",
  "billing-smip",
  "finance",
  "finance-smip",
  "supervision",
  "supervision-smip",
  "technical",
  "technical-smip",
  "trialkit",
  "trialkit-smip",
  "user",
  "user-management",
  "user-management-smip",
  "user-smip"
]}
```

## 5.26 Resource customer

This resource is used to retrieve information of its own Customer.

Resource URI:

<https://{env:port}/services/REST/GlobalM2M/Customers/v14/r12/customer/{customerID}>

### 5.26.1 GET

Returns detailed information of its own Customer.

#### 5.26.1.1 Input parameters

- Available query parameters: none

- Body: Void entity-body

#### 5.26.1.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): Customer detailed information

#### 5.26.1.3 Request example

```
GET
/services/REST/GlobalM2M/Customers/v14/r12/customer/{customerID}
HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Host: host.com
Connection: Keep-Alive
```

#### 5.26.1.4 Response example

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

{
  "customerData": {
    "type": "customer",
    "name": "Customer_API_SOAP",
    "description": "M2M customer",
    "status": "Active",
    "defaultLanguage": "en",
    "billingCycleStart": {
      "dayOfMonth": "1",
      "timezone": "Atlantic/Canary"
    },
  },
  "currency": "978",
  "companyAddress": {
    "line1": "String1234dasf",
    "line2": "",
    "city": "valladolid",
    "state": "castilla",
    "country": "ES",
    "postalCode": "47162"
  },
  "primaryContact": {
    "firstName": "nombre",
    "lastName": "apellido",
    "phone": "983367730",
    "email": "ran@tid.es",
    "mobile": "610541708"
  },
  "primaryContactAddressIsCompanyAddress": true,
  "primaryContactAddress": {
```

```
        "line1": "String1234dasf",
        "line2": "",
        "city": "valladolid",
        "state": "castilla",
        "country": "ES",
        "postalCode": "47162"
    },
    "billingContactIsPrimaryContact": true,
    "billingContact": {
        "firstName": "nombre",
        "lastName": "apellido",
        "phone": "983367730",
        "email": "ran@tid.es",
        "mobile": "610541708"
    },
    "billingContactAddressIsCompanyAddress": true,
    "billingContactAddress": {
        "line1": "String1234dasf",
        "line2": "",
        "city": "valladolid",
        "state": "castilla",
        "country": "ES",
        "postalCode": "47162"
    },
    "shippingAddressIsCompanyAddress": true,
    "shippingAddress": {
        "line1": "String1234dasf",
        "line2": "",
        "city": "valladolid",
        "state": "castilla",
        "country": "ES",
        "postalCode": "47162"
    },
    "defaultBillingAccount": {
        "billingAccountName": "default",
        "billingAccountId": "0",
        "fiscalNumber": "12345678L",
        "billable": true,
        "addressIsCompanyAddress": true,
        "contactIsPrimaryContact": true,
        "commercialGroups": [
            "258003",
            "260206"
        ],
        "paymentMethod": "",
        "billingCycleStartDay": 28,
        "billingCycleNextStartDay": 28,
        "billingCycleModifiable": true,
        "autoPrebillIssue": true,
        "billAccIDinSPCRM": "idcuenta",
        "paymentData": "",
        "subscriptions": 10643,
        "contact": {
            "firstName": "nombre",
            "lastName": "apellido",
            "phone": "983367730",
```

```
        "email": "ran@tid.es",
        "mobile": "610541708"
    },
    "address": {
        "line1": "String1234dasf",
        "line2": "",
        "city": "valladolid",
        "state": "castilla",
        "country": "ES",
        "postalCode": "47162"
    },
    "billAccIDinSPCRMLegacy": "crmIdLegacy"
},
"billingAccounts": [
    {
        "billingAccountName": "Dia 5",
        "billingAccountId": "1",
        "fiscalNumber": "asdasd",
        "billable": true,
        "automaticPrebill": true,
        "crmBillingAccountId": "123123123",
        "addressIsCompanyAddress": true,
        "contactIsPrimaryContact": true,
        "numSubscriptions": 0,
        "paymentMethod": "",
        "paymentRelatedData": "",
        "billingCycleStartDay": 5,
        "billingCycleNextStartDay": 5,
        "billingCycleModifiable": true
    },
    {
        "billingAccountName": "dia 3 def",
        "billingAccountId": "2",
        "fiscalNumber": "wertyuio",
        "billable": false,
        "automaticPrebill": false,
        "crmBillingAccountId": "ertyuiopoi",
        "addressIsCompanyAddress": true,
        "contactIsPrimaryContact": true,
        "numSubscriptions": 0,
        "paymentMethod": "",
        "paymentRelatedData": "",
        "billingCycleStartDay": 3,
        "billingCycleNextStartDay": 3,
        "billingCycleModifiable": true
    },
    {
        "billingAccountName": "igual q def",
        "billingAccountId": "3",
        "fiscalNumber": "qwertyuio",
        "billable": false,
        "automaticPrebill": false,
        "crmBillingAccountId": "wert yuk",
        "addressIsCompanyAddress": true,
        "contactIsPrimaryContact": true,
        "numSubscriptions": 0,
```



```

        "paymentMethod": "",
        "paymentRelatedData": "",
        "billingCycleStartDay": 28,
        "billingCycleNextStartDay": 28,
        "billingCycleModifiable": true
    },
    ],
    "vpns": [
        {
            "name": "apn_swap",
            "apns": [
                "mconnect.pre.telefonica.com"
            ],
            "staticAddressing": false,
            "ipType": "ipv4"
        },
        {
            "name": "vpn.api.v4v6.estatic.10",
            "apns": [
                "vpn.api.v4v6.estatic.apn.10"
            ],
            "subnets": [
                {
                    "network": "33.13.36.0",
                    "mask": "255.255.255.0",
                    "usedIps": 0,
                    "nextIp": "33.13.36.1"
                },
                {
                    "network":
"2001:0db8:3c59:0000:0000:0000:0000:0000",
                    "mask": "/48",
                    "usedIps": 0,
                    "nextIp":
"2001:0db8:3c59:0000:0000:0000:0000:0000"
                }
            ],
            "staticAddressing": true,
            "ipType": "ipv4v6"
        }
    ],
    "servicepackDiscounts": {
        "customerServicepack": [
            {
                "voiceDiscount": 1000,
                "smsDiscount": 3000,
                "dataDiscount": 2000,
                "voucherOnlyVoiceDiscount": 0,
                "voucherOnlySmsDiscount": 0,
                "voucherOnlyDataDiscount": 0,
                "servicepackId": "41353",
                "servicepackName": "SP_REST_3611189_AWT"
            },
            {
                "voiceDiscount": 0,
                "smsDiscount": 0,

```

```

        "dataDiscount": 0,
        "voucherOnlyVoiceDiscount": 0,
        "voucherOnlySmsDiscount": 0,
        "voucherOnlyDataDiscount": 0,
        "servicepackId": "8",
        "servicepackName": "bsp_selenium"
    }
}
},
"timeAndConsumptionVoucherIsEnabled": true,
"inactiveNewFees": {
    "cost_1": 0,
    "cost_2": 10000,
    "timer": 0
},
"subscriptionCount": 10643,
"lteEnabled": true,
"imeiFilterEnabled": false,
"twoFactorLoginEnabled": false,
"smsMtFilter": {
    "active": false,
    "defaultLists": false,
    "allowedGts": [
        "*"
    ],
    "allowedMsisdns": [
        "346666552*"
    ]
},
"deleted": false,
"swapPlatform": true,
"swapProfile": true,
"sectorOb": "",
"qciEnabled": true,
"aggregatorTwoFactorLoginDefault": false,
"hasActiveCloudAccounts": true,
"hasCloudConMonitoringOn": true,
"networkResetEnabled": true,
"pushApiEnabled": true,
"snmpAlarmEnabled": false,
"snmpEventEnabled": false,
"decommissionEnabled": false,
"vivoBehaviourEnabled": false,
"multinational": {
    "customers": [
        {
            "id": "customer-
Auto_cust_peru_lead14beb3a5b1a9",
            "name": "Auto_cust_peru_leadi"
        },
        {
            "id": "customer-
Customer02UKLeading15f7238f2e6pJ",
            "name":
"Customer02UKLeading_cancel_location_changed"
        }
    ]
},

```

```

        {
            "id": "customer-
CustomerVIVO14bb34e0765PBfX9vqcn",
            "name": "CustomerVIVO"
        },
        {
            "id": "customer-
Customer_offline_de1552b0276692i",
            "name":
"Customer_offline_de_HOB_mixto_movistar"
        }
    ],
    "hq": false
},
"cloudCon": {
    "description": "https://iot.us-east-2.amazon.com",
    "status": "ENABLED"
},
"pushApi": {
    "description": "https://6c6cecff-d727-41f7-8e2a-
e6024e936fb2.mock.pstmn.io",
    "status": "ENABLED"
},
"swapOnTarget": true,
"hasSwapAlarmActions": true,
"iotDataReadyEnabled": false,
"isTtech": false,
"hasPrepaidActiveSims": true,
"supplementaryServicesId": "2",
"customerType": "NONE",
"parentId": "provider-movistar1376f0c049eGAFyImcQxeb1g",
"orgChargingType": "online",
"customerID": "customer-
Customer_API_SOAP14bc4e28b63kBSC",
"customField1": "field1",
"customField2": "field2",
"customField3": "field3",
"customField4": "field4",
"id1inOBCRM": "customer_soap",
"id2inOBCRM": "",
"companyType": "0",
"authorizationFlowProviderThreshold": 50000,
"authorizationFlowDelegatedOrganization": "customer",
"authorizationFlowThresholdNominal": 50006,
"authorizationFlowThresholdPercentage": 15,
"authorizationFlowThresholdPercentageEnabled": false,
"authorizationContactIsPrimaryContact": false,
"authorizationContact": {
    "firstName": "Carlos",
    "lastName": "Soto",
    "phone": "123456789",
    "email": "email@email.com",
    "mobile": "123456789"
},
"authorizationContactAddressIsCompanyAddress": false,
"authorizationContactAddress": {

```

```
        "line1": "Libertad, 12",
        "line2": "portal 31, A",
        "city": "Valladolid",
        "state": "Valladolid",
        "country": "ES",
        "postalCode": "47002"
    },
    "lpwaPowerSavingEnabled": true,
    "defaultApn": "",
    "type": "customer",
    "automaticImeiLock": true
}
```

### 5.26.2 PUT

Modifies certain parameters of its own Customer.

Resource URI:

<https://{env:port}/services/REST/GlobalM2M/Customers/v14/r12/customer/{customerID}>

#### 5.26.2.1 Input parameters

- Available query parameters: none.
- Body: Body (JSON format): Information of the Customer that will be modified.

#### 5.26.2.2 Output parameters

- HTTP Response Code: 204 No Content
- Body (JSON format): Empty entity-body.

#### 5.26.2.3 Request example

##### 5.26.2.3.1 Update customer vpns

```
PUT
/services/REST/GlobalM2M/Customers/v14/r12/customer/{customerID}
HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Host: host.com
Connection: Keep-Alive
{
  "customerData": {
    "name": "test",
    "vpns": [
      {
        "ipType": "ipv4",
        "apns": [
          "m2m.movistar.es"
        ],

```

```
        "name": "prueba",
        "staticAddressing": "false"
    }
]
}
}
```

#### **5.26.2.3.2 Update authorization delegated organization**

You can delegate the authorization flow to customer or endcustomer only if the authorization flow is not already delegated to serviceProvider or kiteMaster.

```
PUT
/services/REST/GlobalM2M/Customers/v14/r12/customer/{customerID}
HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Host: host.com
Connection: Keep-Alive
{
  "customerData": {
    "authorizationFlowDelegatedOrganization": "endCustomer"
  }
}
```

#### **5.26.2.3.3 Update imei lock**

```
PUT
/services/REST/GlobalM2M/Customers/v14/r12/customer/{customerID}
HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Host: host.com
Connection: Keep-Alive
{
  "customerData": {
    "imeiLock": "586068737918093"
  }
}
```

#### **5.26.2.4 Response example**

```
HTTP/1.1 204 No Content
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2012 02:52:00 GMT
```

### 5.26.2.5 Fault response example

#### 5.26.2.5.1 *Authorization flow cannot be disabled due to number of subscriptions*

```
HTTP/1.1 403 Forbidden
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2012 02:52:00 GMT

{
  "ClientException": {
    "exceptionCategory": "SVC",
    "exceptionId": 1013,
    "text": "Operation is not allowed. Authorizations are
not allowed to be delegated"
  }
}
```

#### 5.26.2.5.2 *Authorization flow is delegated to Master or Provider and cannot be delegated to a child organization*

```
HTTP/1.1 403 Forbidden
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2012 02:52:00 GMT

{
  "ClientException": {
    "exceptionCategory": "SVC",
    "exceptionId": 1013,
    "text": "Operation is not allowed. Authorizations are
not allowed to be delegated to a child organization"
  }
}
```

## 5.27 Resource customer VPNs

This resource is used to retrieve information of the VPNs of its own Customer.

Resource URI:

<https://{env:port}/services/REST/GlobalM2M/Customers/v14/r12/customer/{customerID}/vpns>

### 5.27.1 GET

Returns VPN list of its own Customer.

#### 5.27.1.1 Input parameters

- Available query parameters: none.
- Body: Void entity-body.

### 5.27.1.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): VPN list information.

### 5.27.1.3 Request example

```
GET
/services/REST/GlobalM2M/Customers/v14/r12/customer/{customerID}
/vpns HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Host: host.com
Connection: Keep-Alive
```

### 5.27.1.4 Response example

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

{
  "data": [
    {
      "name": "Vpn_Movistar",
      "apns": [
        "m2m4-huawei.movistar.es"
      ],
      "staticAddressing": false,
      "ipType": "ipv4"
    },
    {
      "name": "Vpn_Tef_2",
      "apns": [
        "miapn.movistar.es"
      ],
      "staticAddressing": false,
      "ipType": "ipv4"
    },
    {
      "name": "api.customer.vpn",
      "apns": [
        "api.customer.vpn"
      ],
      "subnets": [
        {
          "network": "33.13.14.0",
          "mask": "255.255.255.0",
          "usedIps": 2,
          "nextIp": "33.13.14.114"
        }
      ],
      "staticAddressing": true,
      "ipType": "ipv4"
    }
  ]
}
```

```

    },
    {
      "name": "vpn.api.v4v6.estatic.10",
      "apns": [
        "vpn.api.v4v6.estatic.apn.10"
      ],
      "subnets": [
        {
          "network":
"2001:0db8:3c59:0000:0000:0000:0000:0000",
          "mask": "/48",
          "usedIps": 0,
          "nextIp":
"2001:0db8:3c59:0000:0000:0000:0000:0000"
        },
        {
          "network": "33.13.36.0",
          "mask": "255.255.255.0",
          "usedIps": 0,
          "nextIp": "33.13.36.1"
        }
      ],
      "staticAddressing": true,
      "ipType": "ipv4v6"
    }
  ]
}

```

## 5.28 Resource customer expirationTime

This resource is used to retrieve information of the expiration time data of its own Customer.

Resource URI:

<https://{env:port}/services/REST/GlobalM2M/Customers/v14/r12/customer/{customerID}/expirationTime>

### 5.28.1 GET

Returns expiration time data of its own Customer.

#### 5.28.1.1 Input parameters

- Available query parameters: none.
- Body: Void entity-body.

#### 5.28.1.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): Expiration time.



### 5.28.1.3 Request example

```
GET
/services/REST/GlobalM2M/Customers/v14/r12/customer/{customerID}
/expirationTime HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Host: host.com
Connection: Keep-Alive
```

### 5.28.1.4 Response example

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

{
  "data": 0
}
```

## 5.29 Resource supplementary

This resource is used to retrieve information of the supplementary services of its own Customer.

Resource URI:

<https://{env:port}/services/REST/GlobalM2M/SupplementaryServices/v9/r12/supplServices>

### 5.29.1 GET list

Returns supplementary service list of its own Customer.

#### 5.29.1.1 Input parameters

- Available query parameters: none
- Body: Void entity-body

#### 5.29.1.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): supplementary service list of its own Customer.

### 5.29.1.3 Request example

```
GET
/services/REST/GlobalM2M/SupplementaryServices/v9/r12/supplServices HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
```

Host: host.com  
Connection: Keep-Alive

#### 5.29.1.4 Response example

```
{
  "serviceData": [
    {
      "id": "5",
      "name": "ss_apimolona",
      "description": "Wiki wack Supplementary Services  
pack. Another easter egg. Don't think more about that.",
      "published": "PUBLISHED",
      "currency": "978",
      "serviceProviderId": "provider-  
movistar1376f0c049eGAFyImcQxeblg",
      "serviceProviderName": "movistar",
      "customerId": "customer-  
OrgAPIMolona144fef1817evhH014Lw8",
      "customerName": "OrgAPIMolona",
      "subscriptionCount": 0
    }
  ]
}
```

#### 5.29.2 GET detail

Retrieves detailed information of a Supplementary Service of its own Customer.

Resource URI:

<https://{env:port}/services/REST/GlobalM2M/SupplementaryServices/v9/r12/supplServices/{supplServiceId}>

##### 5.29.2.1 Input parameters

- Available query parameters: none.
- Body: Void entity-body.

##### 5.29.2.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): supplementary detailed information.

##### 5.29.2.3 Request example

```
GET
/services/REST/GlobalM2M/SupplementaryServices/v9/r12/supplServices/{supplServiceId} HTTP/1.1
Accept-Encoding: gzip, deflate
Accept: application/json
Content-Type: application/json; charset=UTF-8
Content-Length: nnnn
```

Host: host.com  
Connection: Keep-Alive

#### 5.29.2.4 Response example

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

{
  "serviceData": {
    "name": "SSP_SOAP",
    "description": "Description",
    "published": "PUBLISHED",
    "currency": "978",
    "selfManagement": "ACTIVATED",
    "vpnService": "ACTIVATED",
    "applicationOriginatedSms": "ACTIVATED",
    "advancedSupervision": "ACTIVATED",
    "location": "ACTIVATED",
    "dca": "DEACTIVATED",
    "dim": "ACTIVATED",
    "supervisionLevel": "WITHOUT_KEEPA_LIVE",
    "applicationOriginatedSmsMsisdn": "1111",
    "remoteSimManagement": "ACTIVATED",
    "iotDataReady": "ACTIVATED",
    "assetControl": "ACTIVATED",
    "tariffs": {
      "selfManagement": {
        "transitions": {
          "setup": 1,
          "termination": 2,
          "suspension": 3,
          "reactivation": 4
        },
        "customer": {
          "monthlyActive": 5,
          "monthlySuspended": 6
        },
        "subscription": {
          "monthlyActive": 0
        }
      },
      "vpn": {
        "transitions": {
          "setup": 7,
          "termination": 8,
          "suspension": 9,
          "reactivation": 10
        },
        "customer": {
          "monthlyActive": 11,
          "monthlySuspended": 12,
          "monthlyStaticIp": 13,
          "customApn": 14
        }
      }
    }
  }
}
```

```
    },
    "subscription": {
      "monthlyActive": 15,
      "monthlyStaticIp": 16
    }
  },
  "appOriginatedSms": {
    "transitions": {
      "setup": 17,
      "termination": 18,
      "suspension": 19,
      "reactivation": 20
    },
    "customer": {
      "monthlyActive": 21,
      "monthlySuspended": 22,
      "operationSendSms": 9,
      "monthlyVoucherUnits": 24
    }
  },
  "advancedSupervision": {
    "transitions": {
      "setup": 25,
      "termination": 26,
      "suspension": 27,
      "reactivation": 28
    },
    "customer": {
      "monthlyActive": 29,
      "monthlySuspended": 30
    },
    "subscription": {
      "monthlyActive": 31,
      "operationDiagnosisIcmp": 32
    }
  },
  "location": {
    "transitions": {
      "setup": 33,
      "termination": 34,
      "suspension": 35,
      "reactivation": 36
    },
    "customer": {
      "monthlyActive": 37,
      "monthlySuspended": 38
    },
    "subscription": {
      "monthlyActive": 39
    }
  },
  "dca": {
    "transitions": {
      "setup": 40,
      "termination": 41,
      "suspension": 42,
```

```
        "reactivation": 43
      },
      "customer": {
        "monthlyActive": 44,
        "monthlySuspended": 45
      },
      "subscription": {
        "monthlyActive": 46
      }
    },
    "dim": {
      "transitions": {
        "setup": 47,
        "termination": 48,
        "suspension": 49,
        "reactivation": 50
      },
      "customer": {
        "monthlyActive": 51,
        "monthlySuspended": 52
      },
      "subscription": {
        "monthlyActive": 53
      }
    },
    "advsupLocLevel": {
      "customer": {
        "monthlyLevel_1": 54,
        "monthlyLevel_2": 55,
        "monthlyLevel_3": 56,
        "monthlyLevel_4": 57,
        "monthlyLevel_5": 58
      },
      "subscription": {
        "monthlyLevel_1": 59,
        "monthlyLevel_2": 60,
        "monthlyLevel_3": 61,
        "monthlyLevel_4": 62,
        "monthlyLevel_5": 63
      }
    },
    "other": {
      "simSetup": 64,
      "simTransportation": 65,
      "simActivation": 66,
      "swap": {
        "euiccSetup": 0,
        "simSwap": 0,
        "simSwapFreeOperationsMax": 0,
        "simSwapFreeOperations": 0,
        "simSwapVirtualProfileSetup": 0,
        "simSwapBackupOperation": 0
      }
    },
    "privateLte": {
      "transitions": {
```

```

        "setup": 46,
        "termination": 80,
        "suspension": 94,
        "reactivation": 48
    },
    "customer": {
        "monthlyActive": 31,
        "monthlySuspended": 13
    },
    "subscription": {
        "monthlyActive": 26
    }
},
"advancedAnalytics": {
    "transitions": {
        "setup": 0,
        "termination": 0,
        "suspension": 0,
        "reactivation": 0
    },
    "stretches": {
        "lastStretchCost": 0
    }
},
"remoteSimManagement": {
    "customer": {
        "setup": 0,
    },
    "subscription": {
        "operationCommandExecution": 0,
        "operationDataQuery": 0
    }
},
"iotDataReady": {
    "customer": {
        "setup": "0",
        "monthlyActive": "0"
    },
    "stretches": {
        "stretchInfo": [
            {
                "top": 650000,
                "cost": "0"
            },
            {
                "top": 1500000,
                "cost": "1"
            },
            {
                "top": 3000000,
                "cost": "1"
            },
            {
                "top": 5000000,
                "cost": "10"
            }
        ]
    }
},

```

```

        {
            "top": 50000000,
            "cost": "1"
        }
    ],
    "lastStretchCost": "1"
}
},
"volte": {
    "subscription": {
        "setup": "11.05",
        "monthlyActive": "21"
    }
}
},
"subscriptionCountVpnService": 8830,
"subscriptionCountAdvancedSupervision": 3,
"subscriptionCountLocation": 5,
"subscriptionCountDca": 0,
"subscriptionCountDim": 1,
"readyForMultipleSmsOa": true,
"selfManagementLevel": "ADVANCED",
"privateLte": "ACTIVATED",
"privateLteMode": "ACCESS_AND_CORE_NETWORK",
"privateLteBackup": false,
"privateLteZoneCode": 56,
"remoteSimManagement": "DEACTIVATED",
"advancedAnalytics": "DISABLED",
"serviceProviderId": "provider-
movistar1376f0c049eGAFyImcQxeblg",
"serviceProviderName": "movistar",
"customerId": "customer-
Customer_API_SOAP14bc4e28b63kBSC",
"customerName": "Customer_API_SOAP",
"subscriptionCount": 8839,
"id": "2",
"dcaSmsMsisdn": "1119"
}
}

```

### 5.30 Resource available vouchers

This resource is used to manage the available prepaid vouchers that can be purchased for a subscription, as defined in its Commercial Plan. The available vouchers only can be configured through the Kite Platform Web.

Resource URI:

<https://{env:port}/services/REST/GlobalM2M/Vouchers/v5/r12/sim/{id}/availableVouchers>

Where *id* may be the ICC, IMSI, MSISDN or *subscriptionId* in the following format:

- For ICC: `icc:{ICC value}`

- For IMSI: imsi:{IMSI value}
- For MSISDN: tel:{MSISDN value}
- For subscriptionID: {value}

### 5.30.1 GET

Retrieves the list of prepaid vouchers that can be purchased for a subscription, as defined in its Commercial Plan.

#### 5.30.1.1 Input parameters

- Available query parameters: None
- Body: void entity-body

#### 5.30.1.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): Voucher list.

#### 5.30.1.3 Request example

```
GET /services/REST/
GlobalM2M/Vouchers/v5/r12/sim/icc:8934074300002601778/availableV
ouchers HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

#### 5.30.1.4 Response example

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

{
  "voucherData": [
    {
      "currency": "978",
      "basicService": "data",
      "zoneGroupId": "-1",
      "zoneGroupName": "OTHERS",
      "destinationId": "-1",
      "destinationName": "OTHERS",
      "servicePackId": "5442",
      "servicePackName": "test_bug2",
      "voucherId": 348,
      "voucherName": "Small One",
      "type": "ONE_TIME",
      "nominalData": 3,
      "validityPeriodType": "DAYS",
      "validityPeriod": 1,
      "threshold": 50,
```



```

        "fee": 500000,
        "staticPriority": 8,
        "renewalPeriod": 1
    },
    {
        "currency": "978",
        "basicService": "data",
        "zoneGroupId": "-1",
        "zoneGroupName": "OTHERS",
        "destinationId": "-1",
        "destinationName": "OTHERS",
        "servicePackId": "5442",
        "servicePackName": "test_bug2",
        "voucherId": 257,
        "voucherName": "Test Tamaño 3M",
        "type": "RECURRENT",
        "nominalData": 3145728,
        "validityPeriodType": "MONTHS",
        "validityPeriod": 12,
        "threshold": 50,
        "fee": 100000,
        "upfrontFee": 100000,
        "staticPriority": 2,
        "renewalPeriod": 1
    },
    {
        "currency": "978",
        "basicService": "data",
        "zoneGroupId": "-1",
        "zoneGroupName": "OTHERS",
        "destinationId": "-1",
        "destinationName": "OTHERS",
        "servicePackId": "5442",
        "servicePackName": "test_bug2",
        "voucherId": 276,
        "voucherName": "Test Tamaño 2M 2",
        "type": "RECURRENT",
        "nominalData": 2097152,
        "validityPeriodType": "MONTHS",
        "validityPeriod": 12,
        "threshold": 50,
        "fee": 100000,
        "upfrontFee": 100000,
        "staticPriority": 3,
        "renewalPeriod": 1
    }
]
}

```

### 5.31 Resource active voucher

This resource is used to manage the prepaid vouchers purchased for a subscription.

Resource URI:

https://{env:port}/services/REST/GlobalM2M/Vouchers/v5/r12/sim/{id}/activeVouchers

Where *id* may be the ICC, IMSI, MSISDN or *subscriptionId* in the following format:

- For ICC: icc:{ICC value}
- For IMSI: imsi:{IMSI value}
- For MSISDN: tel:{MSISDN value}
- For subscriptionID: {value}

### 5.31.1 POST

Purchase a voucher for a subscription. The voucher can be monthly recurrent or for one time. Besides, you can customize some voucher data.

#### 5.31.1.1 Input parameters

- Available query parameters: None
- Body: void entity-body

#### 5.31.1.2 Output parameters

- HTTP Response Code: 201 OK
- Body (JSON format): Empty entity-body.

#### 5.31.1.3 Request example

```
POST /services/REST/GlobalM2M/Vouchers/v5/r12/sim/icc:8934074300002601778/activeVouchers HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

Example for purchasing a one-time voucher:

```
{
  "expirationDate": "2016-02-10",
  "type": "ONE_TIME",
  "extendPreviousOneTimeVouchers": "true",
  "voucherId": "1234"
}
```

Example for purchasing a recurrent voucher:

```
{
  "expirationDate": "2016-02-10",
  "renewalDay": "28",
  "type": "RECURRENT",
  "extendPreviousOneTimeVouchers": "true",
}
```

```
{
  "voucherId": "1234",
  "initialData": "22222"
}
```

#### 5.31.1.4 Response example

```
HTTP/1.1 201 OK
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2012 02:52:00 GMT

{
  "voucherInstanceId": "f5a221e6-4ae8-4586-a9c5-2b0e7b92440b"
}
```

#### 5.31.1.5 Fault response example

```
HTTP/1.1 403 Forbidden
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2012 02:52:00 GMT

{
  "ClientException": {
    "exceptionCategory": "SVC",
    "exceptionId": 1013,
    "text": "Operation is not allowed: Field 'expirationDate' not allowed in Voucher id 257 with immediate activation disabled."
  }
}
```

### 5.31.2 GET

Retrieves the list of purchased vouchers for a subscription.

#### 5.31.2.1 Input parameters

- Available query parameters:

Parameter	Type	Optional	Description
zoneGroupld	String	Yes	Zone identifier
destinationld	String	Yes	Destination identifier

- Body: void entity-body

#### 5.31.2.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): Voucher list.

### 5.31.2.3 Request example

```
GET /services/REST/
GlobalM2M/Vouchers/v5/r12/sim/icc:8934074300002601778/activeVouc
hers?destinationId=-1 HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

### 5.31.2.4 Response example

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

{
  "activeVoucherData": [
    {
      "currency": "978",
      "basicService": "data",
      "expirationDate": "2016-07-31T22:00:00.000Z",
      "zoneGroupId": "-1",
      "zoneGroupName": "OTHERS",
      "destinationId": "-1",
      "destinationName": "OTHERS",
      "servicePackId": "5442",
      "servicePackName": "test_bug2",
      "voucherInstanceId": "d6d02be4-e187-40e9-b690-
9f7d05c2963e",
      "extendPreviousOneTimeVouchers": true,
      "voucherId": 257,
      "voucherName": "Test Tamaño 3M",
      "type": "RECURRENT",
      "remaining": 3145728,
      "purchaseDateTime": "2016-07-01T11:56:25.993Z",
      "cost": 100000,
      "upfrontFee": 100000,
      "total": 3145728,
      "priorityOrder": 1
    }
  ]
}
```

### 5.31.3 DELETE

Cancel the purchased voucher.

Resource URI:

<https://{env:port}/services/REST/GlobalM2M/Vouchers/v5/r12/sim/{id}/activeVouchers/{voucherInstanceId}>

#### 5.31.3.1 Input parameters

- Available query parameters: None.
- Body: void entity-body.

#### 5.31.3.2 Output parameters

- HTTP Response Code: 204 No Content.
- Body (JSON format): Empty entity-body.

#### 5.31.3.3 Request example

```
DELETE /services/REST/
GlobalM2M/Vouchers/v5/r12/sim/icc:8934074300002601778/activeVouc
hers/{voucherInstanceId} HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

#### 5.31.3.4 Response example

```
HTTP/1.1 204 No Content
Date: Thu, 04 Jun 2009 02:51:59 GMT
```

### 5.31.4 DELETE renewal

Cancel the next renewal of the recurrent purchased voucher.

<https://{env:port}/services/REST/GlobalM2M/Vouchers/v5/r12/sim/{id}/activeVouchers/{voucherInstanceId}/renewal>

#### 5.31.4.1 Input parameters

- Available query parameters: None
- Body: void entity-body

#### 5.31.4.2 Output parameters

- HTTP Response Code: 204 No Content.
- Body (JSON format): Empty entity-body.

#### 5.31.4.3 Request example

```
DELETE /services/REST/
GlobalM2M/Vouchers/v5/r12/sim/icc:8934074300002601778/activeVouc
hers/{voucherInstanceId}/renewal HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

#### 5.31.4.4 Response example

```
HTTP/1.1 204 No Content
```

### 5.32 Resource SIM swap

This functionality is especially useful for clients that use solderable SIMs (MFF2, VQFN8) that cannot be removed from the device.

This operation is only available for Mexico Hosting.

Two scenarios will be covered:

1. The device of the SIM card is broken down and it needs to get replaced but preserving its expense information and history, billing status and telephone number.
2. A previous customer buys a new device and wants to transfer the balance of the existing data plan to the new device.

For this, a new API operation will be defined that will allow the client to perform the following two changes in a single API call:

- Swap MSISDNs (to keep the telephone number)
- Swap Kite Platform internal SIM card ID (to keep consumption and expense histories)

In this API call, client will be able to identify each subscription by any of the following SIM identifiers: ICC, IMSI, MSISDN or by the subscription identifier used internally by the Kite Platform.

Resource URI:

`https://{env:port}/services/REST/GlobalM2M/Simswap/v1/r12/sim/{id}/swap`

Where *id* may be the ICC, IMSI, MSISDN or *subscriptionId* in the following format:

- For ICC: `icc:{ICC value}`
- For IMSI: `imsi:{IMSI value}`
- For MSISDN: `tel:{MSISDN value}`
- For `subscriptionId`: `{subscriptionId value}`

The `subscriptionId` does not need prefix when it is used into the URI.

#### 5.32.1 PUT

It will allow to swap chip data (ICC-IMSI) between two subscriptions in their own inventory.

### 5.32.1.1 Input parameters

- Available query parameters: None
- Body: Body (JSON format)

Parameter	Type	Optional	Description
icc	SubscriptionType	No	Subscription identifier
imsi			
tel			
subscriptionId			

The target subscription must follow the following format depending on the identifier type used:

- For ICC: icc:{ICC value}
- For IMSI: imsi:{IMSI value}
- For MSISDN: tel:{MSISDN value}
- For subscriptionId: subscriptionId:{subscriptionId value}

The subscriptionId need a key when it is used into the body.

### 5.32.1.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format).

### 5.32.1.3 Request example

```
PUT
/services/REST/GlobalM2M/Simswap/v1/r12/sim/icc:8999592478628689
124/swap
HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive

{"subscriptionId":"89998"}
```

### 5.32.1.4 Response example

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2012 02:52:00 GMT
```

```
{
  "result": true
}
```

#### 5.32.1.5 Fault response example

```
HTTP/1.1 404 Not Found
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2012 02:52:00 GMT

{
  "ClientException": {
    "exceptionId": 1006,
    "text": "Resource icc does not exist:
icc:8999592478628689124",
    "exceptionCategory": "SVC"
  }
}
```

### 5.33 Resource echo

This resource is used to check if the Platform is up by sending a text, which shall be returned in the response.

Resource URI:

`https://{env:port}/services/REST/GlobalM2M/Echo/v1/r12/echo`

#### 5.33.1 POST

Send a text to the Platform, which shall be returned in the response, otherwise, the Platform is down.

##### 5.33.1.1 Input parameters

- Available query parameters: None.
- Body: Body (JSON format).

Parameter	Type	Optional	Description
data	string	No	Text not empty with a maximum length of 20 characters.

##### 5.33.1.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format).

##### 5.33.1.3 Request example

```
POST /services/REST/GlobalM2M/Echo/v1/r12/echo
HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip, deflate
```



```
Accept: application/json
Host: host.com
Connection: Keep-Alive

{"data":"testing"}
```

#### 5.33.1.4 Response example

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2012 02:52:00 GMT

{"data":"testing"}
```

#### 5.33.1.5 Fault response example

```
HTTP/1.1 503 Service unavailable
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2012 02:52:00 GMT

{
  "ServerException": {
    "exceptionCategory": "SVR",
    "exceptionId": 1006,
    "text": "Service temporarily unavailable"
  }
}
```

### 5.34 Resource supervisionGroup

This resource is used to manage the supervision groups of the customer.

Resource URI:

<https://{env:port}/services/REST/GlobalM2M/SupervisionGroup/v1/r12/supervisionGroup>

#### 5.34.1 POST

Create supervision group.

##### 5.34.1.1 Input parameters

- Available query parameters: None.
- Body: Body (JSON format).

Parameter	Type	Optional	Description
name	string	No	Text not empty <ul style="list-style-type: none"> <li>• maximum length of 32 characters</li> </ul>

			<ul style="list-style-type: none"> <li>• minimum length of 5 characters</li> <li>• match regular expression: <code>^[a-zA-Z0-9_@]+\$</code></li> </ul>
description	string	Yes	Maximum length of 150 characters
cloudMonitoring	boolean	Yes	Enable cloud monitoring. Only for customers that have cloud accounts.
pushApiMonitoring	boolean	Yes	Enable pushApi monitoring. Only for customers that have pushApi accounts.
infoToSync	<a href="#">InfoToSyncType</a>	Yes	Flags related to the data to be synchronized
iotDataReadyProcessingAck	boolean	Yes	Send additional ACK when message has been processed by KITE. This flag only can be set to true if the Customer has the service iotDataReady activated.

#### 5.34.1.1.1 InfoToSyncType

Parameter	Type	Optional	Description
presence	boolean	Yes	Flags related to the data to be synchronized.
consumption			
lifecycleStatus			
alias			
iotDataReady			The flag iotDataReady only can be set to true if the Customer has the service iotDataReady activated.
basicServices			
networkRejection			

#### 5.34.1.2 Output parameters

- HTTP Response Code: 201 Created
- Body (JSON format): Empty entity-body.

#### 5.34.1.3 Request example

```
POST
/services/REST/GlobalM2M/SupervisionGroup/v1/r12/supervisionGroup
HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive

{
  "name": "supervisionGroupName",
  "description": "description",
  "cloudMonitoring": false,
  "pushApiMonitoring": true,
```

```
"infoToSync": {
  "presence": true,
  "consumption": true,
  "lifecycleStatus": false,
  "alias": true,
  "iotDataReady": false,
  "networkRejection": true
},
"iotDataReadyProcessingAck": false
}
```

#### 5.34.1.4 Response example

```
HTTP/1.1 201 Created
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2012 02:52:00 GMT
```

#### 5.34.1.5 Fault response example

##### 5.34.1.5.1 *Cloud account is not configured*

```
HTTP/1.1 400 Bad Request

Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2012 02:52:00 GMT

{
  "ClientException": {
    "exceptionId": 1021,
    "text": "Invalid parameter value: cloudMonitoring.
\n[JSON]\n{\n  \"cloudMonitoring\": {\n    \"customerNotHaveCloudAccount\":
\n    \"The customer does not have cloud account\"}\n}\n[\\JSON]\n",
    "exceptionCategory": "SVC"
  }
}
```

##### 5.34.1.5.2 *IoT Data Ready service is not activated*

```
HTTP/1.1 400 Bad Request

Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2012 02:52:00 GMT

{
  "ClientException": {
    "exceptionCategory": "SVC",
    "exceptionId": 1021,
    "text": "Invalid parameter value: iotDataReady.
\n[JSON]\n{\n  \"iotDataReady\": {\n    \"iotDataReady \": \"The customer
does not have the Iot Data Ready service
enabled\"}\n}\n[\\JSON]\n"
```

```
}  
}
```

### 5.34.2 GET list

Retrieve supervision group list.

#### 5.34.2.1 Input parameters

- Available query parameters: None
- Body: Void entity-body

#### 5.34.2.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): Array of supervision groups.

#### 5.34.2.3 Request example

```
GET  
/services/REST/GlobalM2M/SupervisionGroup/v1/r12/supervisionGroup  
p  
  
HTTP/1.1  
Accept-Encoding: gzip,deflate  
Accept: application/json  
Host: host.com  
Connection: Keep-Alive
```

#### 5.34.2.4 Response example

```
HTTP/1.1 200 OK  
Content-Type: application/json  
Content-Length: nnnn  
Date: Thu, 01 Jun 2012 02:52:00 GMT  
  
{  
  "supervisionGroup": [  
    {  
      "id": "default_group",  
      "description": "default group",  
      "cloudMonitoring": false,  
      "pushApiMonitoring": false,  
      "infoToSync": {  
        "presence": false,  
        "consumption": false,  
        "lifecycleStatus": false,  
        "alias": false,  
        "iotDataReady": false,  
        "networkRejection": true  
      },  
      "customerId": "customer-CustomerTesting",  
      "name": "default_group"  
    },  
  ],  
}
```

```

        "id": "prueba",
        "description": "supervision group for testing",
        "cloudMonitoring": false,
        "pushApiMonitoring": false,
        "infoToSync": {
            "presence": false,
            "consumption": false,
            "lifecycleStatus": false,
            "alias": false,
            "iotDataReady": false,
            "networkRejection": true
        },
        "customerId": "customer-CustomerTesting",
        "name": "prueba"
    }
}

```

### 5.34.3 GET detail

Retrieve supervision group resource.

Resource URI:

`https://{env:port}/services/REST/GlobalM2M/SupervisionGroup/v1/r12/supervisionGroup/{supervisionGroupName}`

#### 5.34.3.1 Input parameters

- Available query parameters: None
- Body: Void entity-body

#### 5.34.3.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): Supervision group detailed information.

Parameter	Type	Description
name	string	Supervision group name. Identifier of the supervision group.
description	string	Supervision group description
cloudMonitoring	boolean	Cloud monitoring is enabled in the supervision group, when this parameter is set to true. Only for customers that have cloud accounts.
pushApiMonitoring	boolean	PushApi monitoring is enabled in the supervision group, when this parameter is set to true. Only for customers that have pushApi accounts.
infoToSync	<a href="#">InfoToSyncType</a>	Flags related to the data to be synchronized.

subscriberCount	int	Amount of sims belonging to the supervision group. Read-only field.
iotDataReadyProcessingAck	boolean	Yes

### 5.34.3.3 Request example

```
GET
/services/REST/GlobalM2M/SupervisionGroup/v1/r12/supervisionGroup/{supervisionGroupName}

HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

### 5.34.3.4 Response example

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2012 02:52:00 GMT

{
  "supervisionGroup": {
    "id": "default_group",
    "description": "default group",
    "cloudMonitoring": false,
    "pushApiMonitoring": false,
    "infoToSync": {
      "presence": false,
      "consumption": false,
      "lifecycleStatus": false,
      "alias": false,
      "basicServices": true,
      "iotDataReady": false,
      "networkRejection": true
    },
    "iotDataReadyProcessingAck": false,
    "subscriberCount": 393,
    "customerId": "customer-CustomerVIVO14bb34e0765PBfX9vqcn",
    "name": "default_group"
  }
}
```

### 5.34.4 PUT

Modify supervision group.

Resource URI:

<https://{env:port}/services/REST/GlobalM2M/SupervisionGroup/v1/r12/supervisionGroup/{supervisionGroupName}>

#### 5.34.4.1 Input parameters

- Available query parameters: None.
- Body: Body (JSON format).

Parameter	Type	Optional	Description
description	string	Yes	Maximum length of 150 characters
cloudMonitoring	boolean	Yes	Enable cloud monitoring. Only for customer that have clouds accounts.
pushApiMonitoring	boolean	Yes	Enable pushApi monitoring. Only for customers that have push Api accounts.
infoToSync	<a href="#">InfoToSyncType</a>	Yes	Flags related to the data to be synchronized.
iotDataReadyProcessingAck	boolean	Yes	Send additional ACK when message has been processed by KITE. This flag only can be set to true if the Customer has the service iotDataReady activated.

#### 5.34.4.2 Output parameters

- HTTP Response Code: 204 No Content
- Body (JSON format): Empty entity-body.

#### 5.34.4.3 Request example

```
PUT
/services/REST/GlobalM2M/SupervisionGroup/v1/r12/supervisionGroup/{supervisionGroupName}
HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive

{
  "description": "description",
  "cloudMonitoring": true,
  "pushApiMonitoring": true,
  "infoToSync": {
    "presence": true,
    "consumption": true,
    "lifecycleStatus": false,
    "alias": true,
    "iotDataReady": true,
    "basicServices": true,
    "networkRejection": true
  }
}
```

#### 5.34.4.4 Response example

```
HTTP/1.1 204 No Content
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2012 02:52:00 GMT
```

#### 5.34.4.5 Fault response example

##### 5.34.4.5.1 Cloud account is not configured

```
HTTP/1.1 400 Bad Request
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2012 02:52:00 GMT

{
  "ClientException": {
    "exceptionId": 1021,
    "text": "Invalid parameter value: cloudMonitoring.
\n[JSON]\n{\"cloudMonitoring\":{\"supervisionGroupHaveSubscriptions\": \"This supervision group has subscriptions and the cloud monitoring cannot be activated\"}}\n[\\JSON]\n",
    "exceptionCategory": "SVC"
  }
}
```

##### 5.34.4.5.2 IoT Data Ready service is not activated

```
HTTP/1.1 400 Bad Request

Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2012 02:52:00 GMT

{
  "ClientException": {
    "exceptionCategory": "SVC",
    "exceptionId": 1021,
    "text": "Invalid parameter value: iotDataReady.
\n[JSON]\n{\"iotDataReady\":{\"iotDataReady \": \"The customer does not have the Iot Data Ready service enabled\"}}\n[\\JSON]\n"
  }
}
```

#### 5.34.5 DELETE

Delete supervision group name.

Resource URI:

<https://{env:port}/services/REST/GlobalM2M/SupervisionGroup/v1/r12/supervisionGroup/{supervisionGroupName}>



#### 5.34.5.1 Input parameters

- Available query parameters: None
- Body: Void entity-body

#### 5.34.5.2 Output parameters

- HTTP Response Code: 204 No Content
- Body (JSON format): Void entity-body

#### 5.34.5.3 Request example

```
DELETE
/services/REST/GlobalM2M/SupervisionGroup/v1/r12/supervisionGroup/{supervisionGroupName}

HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

#### 5.34.5.4 Response example

```
HTTP/1.1 204 No Content
Date: Thu, 04 Jun 2009 02:51:59 GMT
```

#### 5.34.5.5 Fault response example

```
HTTP/1.1 404 Not Found
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2012 02:52:00 GMT
{
  "ClientException": {
    "exceptionId": 1006,
    "text": "Resource default_group1 does not exist",
    "exceptionCategory": "SVC"
  }
}
```

### 5.35 Resource device data

This resource is used to collect events from subscriptions belonging to supervision groups with the notification flag `iotDataReady` enabled. Only for customers with the service IoT Data Ready enabled.

Resource URI:

`https://{env:port}/services/REST/GlobalM2M/Data/v1/r12/devicedata`

#### 5.35.1 GET list

Retrieve device data list.

### 5.35.1.1 Input parameters

- Available query parameters:

Parameter	Type	Optional	Description
maxBatchSize	int	Yes	Maximum number of entries to be returned in the response. Accepted values range is 1 to 1000.
startIndex	int	Yes	Offset to be applied to the response. E.g.: startIndex=50 means that entries since 51 should be returned (first 50 entries should not be returned). Accepted values range is from 0.
icc	int	Choice 1	ICC of the Subscription
imsi	int	Choice 1	IMSI of the Subscription
msisdn	int	Choice 1	MSISDN of the Subscription
imei	int	Choice 1	IMEI of the Subscription
date	date	Yes	Date of the event in form YYYYMMDD referenced in UTC.

- Body: Void entity-body

### 5.35.1.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): Array of events.

### 5.35.1.3 Request example

```
GET /services/REST/GlobalM2M/Data/v1/r12/devicedata

HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

### 5.35.1.4 Response example

Parameter	Type	Optional	Description
icc	int	No	ICC source/destination of the event
imsi	int	No	IMSI source/destination of the event
msisdn	int	No	MSISDN source/destination of the event
imei	int	Yes	IMEI source/destination of the event
timestamp	date	No	Event timestamp in form yyyy-MM-dd 'T'HH:mm:ss.000'Z'.
payload	JSON object or string	No	Message content

id	string	No	Message ID
payloadType	string	No	Message type: text or base64
type	string	No	Message direction: downstream (messages to device) or upstream (messages from device)
status	string	No	Message status: waiting, delivered, timeout, retry or sent
destinationPort	string	Yes	The destination port receiving message in downstream mode
fastDelivery	boolean	Yes	Whether the message can be delivered immediately to the device
sourcePort	string	Yes	The source port used in upstream mode

```

HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 17 May 2022 02:52:00 GMT

[
  {
    "icc": "8932339776077328360",
    "imsi": "214074538978579",
    "msisdn": "34842681192",
    "imei": "866109023566435",
    "timestamp": "2023-02-23T10:17:12.000Z",
    "payload": "12500100050001010300000000890068691540402936
697a1e0240 -61 -
77 27 2140700000N41.643592W000.762633202206200759180290200502.0
8",
    "id": "63f73e488eb07619493a9105",
    "type": "upstream",
    "sourcePort": "9999"
  },
  {
    "icc": "8932339776077328360",
    "imsi": "214074538978579",
    "msisdn": "34842681192",
    "imei": " ",
    "timestamp": "2023-02-14T07:12:06.893Z",
    "payload": "Prueba de Edu6",
    "id": "63eb34461485f40e5520a34c",
    "status": "sent",
    "type": "downstream",
    "destinationPort": "9999",
    "fastDelivery": true,
    "payloadType": "text"
  },
]

```

### 5.35.1.5 Fault response example

#### 5.35.1.5.1 Invalid filter

```
HTTP/1.1 400 Bad Request
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2012 02:52:00 GMT

{
  "ClientException": {
    "exceptionCategory": "SVC",
    "exceptionId": "SVC 1021",
    "text": "Invalid parameter value: More than one id detected.
Use just one of [icc, imsi, msisdn, imei]"
  }
}
```

#### 5.35.1.5.2 Not allowed

```
HTTP/1.1 400 Bad Request
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2012 02:52:00 GMT

{
  "ClientException": {
    "exceptionCategory": "SVC",
    "exceptionId": 1013,
    "text": "Operation is not allowed. Access to perform \"list\"
on a resource of type \"iotDataReady\" has been denied for
user with id \"59a7d67a4fb1116dd0953f\" and role \"admin-
customer\""
  }
}
```

#### 5.35.1.5.3 Invalid maxBatchSize

```
HTTP/1.1 400 Bad Request
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2012 02:52:00 GMT

{
  "ClientException": {
    "exceptionCategory": "SVC",
    "exceptionId": 1021,
    "text": "Invalid parameter value: maxBatchSize.
Supported values are integers minor or equal than 1000 and
bigger than 0"
  }
}
```

```
}
```

### 5.35.2 POST list

Creates new message to send to the selected subscription. You can use any of the subscription identifiers such as: icc, imsi or msisdn

#### 5.35.2.1 Input parameters

- Available query parameters:

Parameter	Type	Optional	Description
deviceId	DeviceId	No	Identifier of the Subscription: any of icc, imsi or msisdn
payloadType	string	No	Message type: text or base64
payload	string	No	Message content
destinationPort	int	No	The destination port receiving message in downstream mode
fastDelivery	boolean	No	Whether the message can be delivered immediately to the device

- Body: Void entity-body

#### 5.35.2.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): Array of events.

#### 5.35.2.3 Request example

```
POST /services/REST/GlobalM2M/Data/v1/r12/devicedata

HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive

{
  "deviceId": {"icc": "8932339776077328360"},
  "payload": "cHJlZWJhLWFuYQ==",
  "payloadType": "base64",
  "fastDelivery": false,
  "destinationPort": "9999"
}
```

#### 5.35.2.4 Response example

Parameter	Type	Optional	Description
id	string	No	Message ID

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 17 May 2022 02:52:00 GMT

{
  "id": "8932339776077328360"
}
```

### 5.35.2.5 Fault response example

#### 5.35.2.5.1 Invalid icc

```
HTTP/1.1 400 Bad Request
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2012 02:52:00 GMT

{
  "ClientException": {
    "exceptionCategory": "SVC",
    "exceptionId": "SVC 1021",
    "text": "Invalid parameter value: deviceId. Sim with icc
893233977607732836 does not exist"
  }
}
```

#### 5.35.2.5.2 Invalid enumeration

```
HTTP/1.1 400 Bad Request
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2012 02:52:00 GMT

{
  "ClientException": {
    "exceptionCategory": "SVC",
    "exceptionId": 1021,
    "text": " Invalid parameter value:
payloadType\n[JSON]\n{\n\"payloadType\":{\n\"notInArray\":\n\"'base6'
was not found in the haystack\"}\n}\n[\\JSON]\n"
  }
}
```

### 5.35.3 GET detail

Retrieve the message detail.

Resource URI:

<https://{env:port}/services/REST/GlobalM2M/Data/v1/r12/devicedata/{messageId}>

### 5.35.3.1 Input parameters

- Available query parameters: None
- Body: Void entity-body

### 5.35.3.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): Message detailed data.

### 5.35.3.3 Request example

```
GET /services/REST/GlobalM2M/Data/v1/r12/devicedata/{id}

HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

### 5.35.3.4 Response example

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 17 May 2022 02:52:00 GMT

{
  "data": {
    "icc": "8932339776077328360",
    "imsi": "214074538978579",
    "msisdn": "34842681192",
    "imei": " ",
    "timestamp": "2023-09-27T11:59:09.105Z",
    "payload": "cHJlZWJhLWFuYQ==",
    "id": "6514190dd249b75193a22c31",
    "status": "waiting",
    "type": "downstream",
    "destinationPort": "80",
    "fastDelivery": false,
    "payloadType": "base64"
  }
}
```

Parameter	Type	Optional	Description
icc	int	No	ICC source/destination of the event
imsi	int	No	IMSI source/destination of the event
msisdn	int	No	MSISDN source/destination of the event

imei	int	Yes	IMEI source/destination of the event
timestamp	date	No	Event timestamp in form yyyy-MM-dd 'T'HH:mm:ss.000'Z'.
payload	JSON object or string	No	Message content
id	string	No	Message ID
payloadType	string	No	Message type: text or base64
type	string	No	Message direction: downstream (messages to device) or upstream (messages from device)
status	string	No	Message status: waiting, delivered, timeout, retry or sent
destinationPort	string	Yes	The destination port sending message to device in downstream mode
fastDelivery	boolean	Yes	Whether the message can be delivered immediately to the device
sourcePort	string	Yes	The source port used in upstream mode

#### 5.35.4 DELETE

Delete the message.

Resource URI:

`https://{env:port}/services/REST/GlobalM2M/Data/v1/r12/devicedata/{messageId}`

##### 5.35.4.1 Input parameters

- Available query parameters: None
- Body: Void entity-body

##### 5.35.4.2 Output parameters

- HTTP Response Code: 204 No Content
- Body (JSON format):

##### 5.35.4.3 Request example

```
DELETE /services/REST/GlobalM2M/Data/v1/r12/devicedata/{id}

HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```



#### 5.35.4.4 Response example

```
HTTP/1.1 204 No Content
Date: Thu, 04 Jun 2009 02:51:59 GMT
```

### 5.36 Resource iotDeviceControl capabilities

This resource is used to read the result of the last consult of the allowed capabilities of the device. Only for subscriptions belonging to customers with the supplementary service of remote sim management enabled.

Resource URI:

<https://{env:port}/services/smartM2M/api2/v1/iotDeviceControl/capabilities>

#### 5.36.1 GET detail

Retrieve capabilities list.

##### 5.36.1.1 Input parameters

- Available query parameters:

Parameter	Type	Optional	Description
icc	int	No	ICC of the Subscription

- Body: Void entity-body

##### 5.36.1.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): capability states.

Parameter	Type	Optional	Description
capabilities.signalQuality	string	No	Enumeration: AVAILABLE, UNAVAILABLE, UNKNOWN
capabilities.imei	string	No	Enumeration: AVAILABLE, UNAVAILABLE, UNKNOWN
capabilities.resetOperation	string	No	Enumeration: AVAILABLE, UNAVAILABLE, UNKNOWN
capabilities.location	string	No	Enumeration: AVAILABLE, UNAVAILABLE, UNKNOWN
capabilities.radioTechnologyAvailable	string	No	Enumeration: AVAILABLE, UNAVAILABLE, UNKNOWN
capabilities.radioTechnologyInUse	string	No	Enumeration: AVAILABLE, UNAVAILABLE, UNKNOWN
capabilities.batteryLevel	string	No	Enumeration: AVAILABLE, UNAVAILABLE, UNKNOWN
lastUpdate	string	No	Timestamp of the last update in form yyyy-MM-dd 'T'HH:mm:ss'Z'
error	ErrorType	Yes	Only present if the last consult ended with error

## ErrorType

Parameter	Description
errorCode	Error code
errorText	Description of the error

### 5.36.1.3 Request example

```
GET /services/smartM2M/api2/v1/iotDeviceControl/capabilities

HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

### 5.36.1.4 Response example

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 17 May 2022 02:52:00 GMT

{
  "signalQuality": "AVAILABLE",
  "imei": "AVAILABLE",
  "resetOperation": "AVAILABLE",
  "location": "AVAILABLE",
  "radioTechnologyInUse": "AVAILABLE",
  "radioTechnologyAvailable": "UNKNOWN",
  "batteryLevel": "UNAVAILABLE",
  "lastUpdate": "2023-02-21T08:15:48Z",
  "error": {
    "errorCode": 41518,
    "errorText": "Command could not be sent to device"
  }
}
```

### 5.36.1.5 Fault response example

#### 5.36.1.5.1 Invalid filter

```
HTTP/1.1 404 Not Found
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2012 02:52:00 GMT

{
  "ClientException": {
    "exceptionCategory": "SVC",
    "exceptionId": "SVC 1006",
    "text": "Resource icc 89136172560696222713 does not exist"
  }
}
```

```
}
}
```

### 5.37 Resource iotDeviceControl collected data

This resource is used to read the result of the last consult of the collected data of the device. Only for subscriptions belonging to customers with the supplementary service of remote sim management enabled.

Resource URI:

`https://{env:port}/services/smartM2M/api2/v1/iotDeviceControl/collected-data`

#### 5.37.1 GET detail

Retrieve the last collected data.

##### 5.37.1.1 Input parameters

- Available query parameters:

Parameter	Type	Optional	Description
icc	int	No	ICC of the Subscription

- Body: Void entity-body

##### 5.37.1.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): collected data.

Parameter	Type	Optional	Description
location.lastUpdate	date	Yes	Date of the last update
location.value.cellId	string	Yes	Id of the cell
location.value.lat	float	Yes	Latitude
location.value.long	float	Yes	Longitude
location.error	ErrorType	Yes	Only present if the last consult ended with error
battery.lastUpdate	string	Yes	Timestamp of the last update in form yyyy-MM-dd 'T'HH:mm:ss'Z'
battery.value	string array	Yes	Array of the last ten battery states. Enumeration: - CHARGED_AT_5_PERCENT - CHARGED_AT_30_PERCENT - CHARGED_AT_50_PERCENT - CHARGED_AT_75_PERCENT - CHARGED_AT_100_PERCENT - CHARGING

			- ALWAYS_ON - UNKNOWN
battery.error	ErrorType	Yes	Only present if the last consult ended with error
radioTechnologyInUse.value	string	Yes	Enumeration: - 2G - 3G - 4G - 5G - UNKNOWN
radioTechnologyInUse.lastUpdate	string	Yes	Timestamp of the last update in form yyyy-MM-dd 'T'HH:mm:ss'Z'
radioTechnologyInUse.error	ErrorType	Yes	Only present if the last consult ended with error
radioTechnologiesAvailable.value	string array	Yes	Array of the available technologies. Enumeration: - 2G - 3G - 4G - 5G - UNKNOWN
radioTechnologiesAvailable.lastUpdate	string	Yes	Timestamp of the last update in form yyyy-MM-dd 'T'HH:mm:ss'Z'
radioTechnologiesAvailable.error	ErrorType	Yes	Only present if the last consult ended with error
signalQuality.lastUpdate	string	Yes	Timestamp of the last update in form yyyy-MM-dd 'T'HH:mm:ss'Z'
signalQuality.value	SignalQualityType array	Yes	Array of the last ten signal qualities.
signalQuality.error	ErrorType	Yes	Only present if the last consult ended with error
imei.lastUpdate	string	Yes	Timestamp of the last update in form yyyy-MM-dd 'T'HH:mm:ss'Z'
imei.value	int	Yes	IMEI
imei.error	ErrorType	Yes	Only present if the last consult ended with error

•

## SignalQualityType

Parameter	Type	Optional	Description
signalQuality.value.unit	string	Yes	Enumeration: - rxlev - rscp - rsrp

signalQuality.value.strength	int	Yes	Cellular signal strength in dBm
signalQuality.value.quality	string	Yes	Enumeration: - excellent - good - fair - poor - no signal

•

## ErrorType

Parameter	Description
errorCode	Error code
errorText	Description of the error

•

### 5.37.1.3 Request example

```
GET /services/smartM2M/api2/v1/iotDeviceControl/collected-data
HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

### 5.37.1.4 Response example

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 17 May 2022 02:52:00 GMT

{
  "location": {
    "lastUpdate": "2023-02-21T13:32:01Z",
    "value": {
      "long": -4018927,
      "cellId": "5306",
      "lat": 40616076
    },
    "error": {
      "errorCode": 41519,
      "errorText": "Command could not be delivered to
device"
    }
  },
  "battery": {
    "lastUpdate": "2023-01-10T11:12:50Z",
    "value": [
      "CHARGED_AT_100_PERCENT",
      "CHARGED_AT_100_PERCENT",

```

```

        "CHARGED_AT_100_PERCENT",
        "CHARGED_AT_100_PERCENT",
        "CHARGED_AT_100_PERCENT",
        "CHARGED_AT_5_PERCENT",
        "CHARGED_AT_100_PERCENT",
        "CHARGED_AT_75_PERCENT",
        "CHARGED_AT_100_PERCENT",
        "CHARGED_AT_100_PERCENT"
    ]
},
"radioTechnologyInUse": {
    "lastUpdate": "2023-02-21T13:22:52Z",
    "value": "3G"
},
"radioTechnologiesAvailable": {
    "lastUpdate": "2023-01-10T11:19:55Z",
    "value": [
        "2G",
        "4G"
    ]
},
"signalQuality": {
    "lastUpdate": "2023-01-25T14:57:47Z",
    "value": [
        {
            "unit": "rxlev",
            "strength": -60,
            "quality": "excellent"
        },
        {
            "unit": "rxlev",
            "strength": -60,
            "quality": "excellent"
        },
        {
            "unit": "rxlev",
            "strength": -60,
            "quality": "excellent"
        },
        {
            "unit": "rxlev",
            "strength": -60,
            "quality": "excellent"
        },
        {
            "unit": "rxlev",
            "strength": -75,
            "quality": "good"
        },
        {
            "unit": "rxlev",
            "strength": -87,
            "quality": "fair"
        },
        {
            "unit": "rxlev",

```

```

        "strength": -99,
        "quality": "fair"
    },
    {
        "unit": "rxlev",
        "strength": -97,
        "quality": "fair"
    },
    {
        "unit": "rsrp",
        "strength": -97,
        "quality": "poor"
    },
    {
        "unit": "rsrp",
        "strength": -110,
        "quality": "no signal"
    }
],
"error": {
    "errorCode": 41526,
    "errorText": "Timeout waiting response from SIM"
},
"imei": {
    "lastUpdate": "2023-02-21T13:30:45Z",
    "value": "860548042521747",
    "error": {
        "errorCode": 41519,
        "errorText": "Command could not be delivered to
device"
    }
}
}

```

### 5.37.1.5 Fault response example

#### 5.37.1.5.1 Invalid filter

```

HTTP/1.1 404 Not Found
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2012 02:52:00 GMT

{
  "ClientException": {
    "exceptionCategory": "SVC",
    "exceptionId": "SVC 1006",
    "text": "Resource icc 89136172560696222713 does not exist"
  }
}

```

## 5.38 Resource iotDeviceControl reset history

This resource is used to read the result of the last consult of the reset history of the device. Only for subscriptions belonging to customers with the supplementary service of remote sim management enabled.

Resource URI:

<https://{env:port}/services/smartM2M/api2/v1/iotDeviceControl/reset-history>

### 5.38.1 GET detail

Retrieve the last reset history.

#### 5.38.1.1 Input parameters

- Available query parameters:

Parameter	Type	Optional	Description
icc	int	No	ICC of the Subscription

- Body: Void entity-body

#### 5.38.1.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): array of reset history.

Parameter	Type	Optional	Description
resetHistory	Object array	Yes	Array of the last ten reset history
resetHistory.startDate	string	Yes	Timestamp of the start of the reset in form yyyy-MM-dd 'T'HH:mm:ss'Z'
resetHistory.endDate	string	Yes	Timestamp of the end of the reset in form yyyy-MM-dd 'T'HH:mm:ss'Z'
resetHistory.sent		Yes	Status of the operation send to SIM Enumeration: - OK - ERROR - UNKNOWN
resetHistory.receivedBySim		Yes	Status of the operation reception in the SIM Enumeration: - OK - ERROR
resetHistory.resetConfirmed		Yes	Status of the reset confirmation in the SIM Enumeration: - OK - ERROR - UNKNOWN



### 5.38.1.3 Request example

```
GET /services/smartM2M/api2/v1/iotDeviceControl/reset-history

HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

### 5.38.1.4 Response example

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 17 May 2022 02:52:00 GMT

{
  "resetHistory": [
    {
      "startDate": "2023-02-21T13:37:12Z",
      "endDate": "2023-02-21T13:37:45Z",
      "sent": "OK",
      "receivedBySim": "OK",
      "resetConfirmed": "OK"
    },
    {
      "startDate": "2023-01-05T11:37:30Z",
      "endDate": "2023-01-05T11:38:05Z",
      "sent": "OK",
      "receivedBySim": "OK",
      "resetConfirmed": "OK"
    },
    {
      "startDate": "2022-12-19T14:13:57Z",
      "endDate": "2022-12-19T14:14:39Z",
      "sent": "OK",
      "receivedBySim": "OK",
      "resetConfirmed": "OK"
    },
    {
      "startDate": "2022-11-30T11:45:57Z",
      "endDate": "2022-11-30T11:46:29Z",
      "sent": "OK",
      "receivedBySim": "OK",
      "resetConfirmed": "ERROR",
      "error": {
        "errorCode": 41528,
        "errorText": "Communications error during reset confirmation"
      }
    },
    {
      "startDate": "2022-11-30T11:02:10Z",
      "endDate": "2022-11-30T11:02:10Z",
      "sent": "ERROR",
      "error": {
        "errorCode": 41518,
        "errorText": "Command could not be sent to device"
      }
    },
    {
      "startDate": "2022-11-30T11:01:39Z",
      "endDate": "2022-11-30T11:01:39Z",
      "sent": "ERROR",
      "error": {
```

```

        "errorCode": 41518,
        "errorText": "Command could not be sent to device"
    },
    {
        "startDate": "2022-11-30T10:54:51Z",
        "endDate": "2022-11-30T10:55:08Z",
        "sent": "OK",
        "receivedBySim": "OK",
        "resetConfirmed": "ERROR",
        "error": {
            "errorCode": 41527,
            "errorText": "Timeout waiting response from SIM"
        }
    },
    {
        "startDate": "2022-11-30T10:51:36Z",
        "endDate": "2022-11-30T10:51:43Z",
        "sent": "OK",
        "receivedBySim": "ERROR",
        "error": {
            "errorCode": 41519,
            "errorText": "Command could not be delivered to device"
        }
    },
    {
        "startDate": "2022-11-30T10:50:08Z",
        "endDate": "2022-11-30T10:50:08Z",
        "sent": "ERROR",
        "error": {
            "errorCode": 41518,
            "errorText": "Command could not be sent to device"
        }
    },
    {
        "startDate": "2022-11-30T10:49:16Z",
        "endDate": "2022-11-30T10:49:22Z",
        "sent": "OK",
        "receivedBySim": "ERROR",
        "error": {
            "errorCode": 41519,
            "errorText": "Command could not be delivered to device"
        }
    }
]
}

```

### 5.39 Resource **iotDeviceControl** operations

This resource is used to invoke the device and make an operation over the device. Only for subscriptions belonging to customers with the supplementary service of remote sim management enabled.

Resource URI:

<https://{env:port}/services/smartM2M/api2/v1/iotDeviceControl/operations>

#### 5.39.1 POST

Create a new operation on the device.

### 5.39.1.1 Input parameters

- Available query parameters:

Parameter	Type	Optional	Description
icc	int	No	ICC of the Subscription

- Body (JSON format): operation

Parameter	Type	Optional	Description
operation	string	No	Enumeration <ul style="list-style-type: none"> <li>- CAPABILITIES</li> <li>- RESET</li> <li>- SIGNAL_QUALITY</li> <li>- BATTERY_LEVEL</li> <li>- RADIO_TECH_IN_USE</li> <li>- RADIO_TECH_AVAILABLE</li> <li>- LOCATION</li> <li>- IMEI</li> </ul>

### 5.39.1.2 Output parameters

- HTTP Response Code: 201 OK
- Body (JSON format): result ID.

### 5.39.1.3 Request example

```
POST /services/smartM2M/api2/v1/iotDeviceControl/operations
HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive

{
  "operation": "IMEI"
}
```

### 5.39.1.4 Response example

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 17 May 2022 02:52:00 GMT

{
  "id": "64dcb95a49302947ed776234"
}
```

Parameter	Type	Optional	Description
id	int	No	Identifier of the operation

## 5.40 Resource iotDeviceControl result operations

This resource is used to consult the result related to the operation identifier. Only for subscriptions belonging to customers with the supplementary service of remote sim management enabled.

Resource URI:

`https://{env:port}/services/smartM2M/api2/v1/iotDeviceControl/operations/{id}`

### 5.40.1 GET

Create a new operation on the device.

#### 5.40.1.1 Input parameters

- Available query parameters:

Parameter	Type	Optional	Description
icc	int	No	ICC of the Subscription

- Body: Void entity-body

#### 5.40.1.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): result.

Parameter	Type	Optional	Description
id	int	No	Identifier of the operation
state	string	No	Enumeration: - RUNNING - FINISHED
finishedAt	string	Yes	Timestamp of the last update in form yyyy-MM-dd 'T'HH:mm:ss'Z'
signal_quality.unit	string	Yes	Enumeration: - rxlev - rscp - rsrp
signal_quality.strength	int	Yes	Cellular signal strength in dBm
signal_quality.quality	string	Yes	Enumeration: - excellent - good - fair - poor - no signal
battery	string array	Yes	Enumeration: - CHARGED_AT_5_PERCENT - CHARGED_AT_30_PERCENT - CHARGED_AT_50_PERCENT - CHARGED_AT_75_PERCENT

			<ul style="list-style-type: none"> <li>- CHARGED_AT_100_PERCENT</li> <li>- CHARGING</li> <li>- ALWAYS_ON</li> <li>- UNKNOWN</li> </ul>
radio_tech_in_use	string	Yes	Enumeration: <ul style="list-style-type: none"> <li>- 2G</li> <li>- 3G</li> <li>- 4G</li> <li>- 5G</li> <li>- UNKNOWN</li> </ul>
radio_tech_available	string array	Yes	Enumeration: <ul style="list-style-type: none"> <li>- 2G</li> <li>- 3G</li> <li>- 4G</li> <li>- 5G</li> <li>- UNKNOWN</li> </ul>
imei	int	Yes	IMEI
capabilities.signalQuality	string	No	Enumeration: AVAILABLE, UNAVAILABLE, UNKNOWN
capabilities.imei	string	No	Enumeration: AVAILABLE, UNAVAILABLE, UNKNOWN
capabilities.resetOperation	string	No	Enumeration: AVAILABLE, UNAVAILABLE, UNKNOWN
capabilities.location	string	No	Enumeration: AVAILABLE, UNAVAILABLE, UNKNOWN
capabilities.radioTechnologyAvailable	string	No	Enumeration: AVAILABLE, UNAVAILABLE, UNKNOWN
capabilities.radioTechnologyInUse	string	No	Enumeration: AVAILABLE, UNAVAILABLE, UNKNOWN
capabilities.batteryLevel	string	No	Enumeration: AVAILABLE, UNAVAILABLE, UNKNOWN
resetHistory.sent	string	Yes	Status of the operation send to SIM Enumeration: <ul style="list-style-type: none"> <li>- OK</li> <li>- ERROR</li> <li>- UNKNOWN</li> </ul>
resetHistory.receivedBySim	string	Yes	Status of the operation reception in the SIM Enumeration: <ul style="list-style-type: none"> <li>- OK</li> <li>- ERROR</li> </ul>
resetHistory.resetConfirmed	string	Yes	Status of the reset confirmation in the SIM Enumeration: <ul style="list-style-type: none"> <li>- OK</li> <li>- ERROR</li> <li>- UNKNOWN</li> </ul>

error	ErrorType	Yes	Only present if the ended with error
-------	-----------	-----	--------------------------------------

## ErrorType

Parameter	Description
errorCode	Error code
errorText	Description of the error

### 5.40.1.3 Request example

```
GET
/services/smartM2M/api2/v1/iotDeviceControl/operations/64e5ca485
a86cd034a839a5d

HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

### 5.40.1.4 Response example

#### Signal quality example

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 17 May 2022 02:52:00 GMT

{
  "id": "64e5ca485a86cd034a839a5d",
  "state": "FINISHED",
  "finishedAt": "2023-08-23T08:59:18Z",
  "signal_quality": {
    "unit": "rxlev",
    "strength": -60,
    "quality": "excellent"
  }
}
```

#### Battery example

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 17 May 2022 02:52:00 GMT

{
  "id": "64e5caad5a86cd034a839a5f",
  "state": "FINISHED",
  "finishedAt": "2023-08-23T09:00:57Z",
  "battery": "CHARGED_AT_100_PERCENT"
```

```
}
```

### Radio technology in use example

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 17 May 2022 02:52:00 GMT

{
  "id": "64e5cb125a86cd034a839a61",
  "state": "FINISHED",
  "finishedAt": "2023-08-23T09:02:37Z",
  "radio_technology_in_use": "3G"
}
```

### Radio technology available example

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 17 May 2022 02:52:00 GMT

{
  "id": "64e5cb905a86cd034a839a63",
  "state": "FINISHED",
  "finishedAt": "2023-08-23T09:04:42Z",
  "radio_technology_available": [
    "2G",
    "4G"
  ]
}
```

### Location example

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 17 May 2022 02:52:00 GMT

{
  "id": "64e5cbc95a86cd034a839a65",
  "state": "FINISHED",
  "finishedAt": "2023-08-23T09:05:43Z",
  "location": {
    "long": -4.018927,
    "cellId": "8099",
    "lat": 40.616077
  }
}
```

### Imei example

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 17 May 2022 02:52:00 GMT

{
  "id": "64e5cbc95a86cd034a839a65",
  "state": "FINISHED",
  "finishedAt": "2023-08-23T09:05:43Z",
  "imei": "860548042521747"
}
```

### Reset example

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 17 May 2022 02:52:00 GMT

{
  "id": "64e5f5d2ca41276aff154029",
  "state": "FINISHED",
  "finishedAt": "2023-08-23T12:05:12Z",
  "reset": {
    "sent": "OK",
    "receivedBySim": "OK",
    "resetConfirmed": "OK"
  }
}
```

### Capabilities example

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 17 May 2022 02:52:00 GMT

{
  "id": "64e5f62cca41276aff15402b",
  "state": "FINISHED",
  "finishedAt": "2023-08-23T12:06:33Z",
  "capabilities": {
    "signalQuality": "AVAILABLE",
    "imei": "AVAILABLE",
    "resetOperation": "AVAILABLE",
    "location": "AVAILABLE",
    "radioTechnologyInUse": "AVAILABLE",
    "radioTechnologyAvailable": "AVAILABLE",
    "batteryLevel": "AVAILABLE"
  }
}
```



## 5.41 Resource lot Pat

IoT Port Address Translation configuration. Your service provider must activate this functionality to be used.

### 5.41.1 Customer

This resource is used to consult the status of the lot Pat service.

Resource URI:

`https://{env:port}/services/smartM2M/api2/v1/iotPat`

#### 5.41.1.1 GET

Get lot Pat service status of the customer.

##### 5.41.1.1.1 *Input parameters*

- Available query parameters: None
- Body: Void entity-body

##### 5.41.1.1.2 *Output parameters*

- HTTP Response Code: 200 OK
- Body (JSON format): result.

Parameter	Type	Optional	Description
itemId	int	No	Identifier of the operation
operation	string	No	Enumeration: - CREATE - DELETE
status	string	Yes	Enumeration: - NOT_PROVISIONED - PENDING - DEPLOYING - DEPLOYED - ERROR
publicIp	string	Yes	Public Ip
privateIp	int	Yes	Private Ip

##### 5.41.1.1.3 *Request example*

```
GET /services/smartM2M/api2/v1/iotPat

HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

#### 5.41.1.1.4 Response example

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 13 Feb 2023 04:52:00 GMT

{
  "itemId":1044,
  "operation":"CREATE",
  "status":"DEPLOYED",
  "publicIp":"81.45.56.63",
  "privateIp":"10.172.1.0/24"
}
```

### 5.41.2 Whitelist

This resource is used to manage the white list configuration from which to access devices.

Resource URI:

<https://{env:port}/services/smartM2M/api2/v1/iotPat/whitelist>

#### 5.41.2.1 GET

Get customer white list configuration.

##### 5.41.2.1.1 Input parameters

- Available query parameters: None
- Body: Void entity-body

##### 5.41.2.1.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): result.

Parameter	Type	Optional	Description
itemId	int	No	Identifier of the operation
operation	string	No	Enumeration: - CREATE - DELETE
status	string	No	Enumeration: - NOT_PROVISIONED - PENDING - DEPLOYING - DEPLOYED - ERROR
originIp	String	No	Origin ip
description	String	Yes	Provision notes

#### 5.41.2.1.3 Request example

```
GET /services/smartM2M/api2/v1/iotPat/whitelist

HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

#### 5.41.2.1.4 Response example

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 13 Feb 2023 04:52:00 GMT

[
  {
    "itemId":1080,
    "operation":"CREATE",
    "originIp":"81.3.3.3",
    "status":"DEPLOYED",
    "description":"creacion 1"
  },
  {
    "itemId":1079,
    "operation":"CREATE",
    "originIp":"5.5.5.5",
    "status":"DEPLOYED",
    "description":"creacion 5"
  },
  {
    "itemId":1078,
    "operation":"CREATE",
    "originIp":"4.4.4.4",
    "status":"DEPLOYED",
    "description":"creacion 4"
  }
]
```

### 5.41.2.2 PUT

Insert a new item into customer white list

#### 5.41.2.2.1 Input parameters

- Available query parameters: None
- Body: Body (JSON format).

Parameter	Type	Optional	Description
-----------	------	----------	-------------

originIp	String	No	Origin ip
description	String	Yes	Provision notes

#### 5.41.2.2.2 Output parameters

- HTTP Response Code: 204 No Content

#### 5.41.2.2.3 Request example

```
PUT /services/smartM2M/api2/v1/iotPat/whitelist

HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive

{
  "originIp": "123.1.3.116",
  "description": "Descripcion"
}
```

#### 5.41.2.2.4 Response example

```
HTTP/1.1 204 No Content
Date: Thu, 04 Jun 2009 02:51:59 GMT
```

### 5.41.2.3 DELETE

Delete item from customer white list

#### 5.41.2.3.1 Input parameters

- Available query parameters: None
- Body: Body (JSON format).

Parameter	Type	Optional	Description
itemId	int	No	Identifier of the operation

#### 5.41.2.3.2 Output parameters

- HTTP Response Code: 204 No Content

#### 5.41.2.3.3 Request example

```
DELETE /services/smartM2M/api2/v1/iotPat/whitelist

HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

```
{
  "itemId": "1080"
}
```

#### 5.41.2.3.4 Response example

```
HTTP/1.1 204 No Content
Date: Thu, 04 Jun 2009 02:51:59 GMT
```

### 5.41.3 Subscription

This resource is used to manage the port translation configuration of the subscription reachable from Internet.

Resource URI:

`https://{env:port}/services/smartM2M/api2/v1/iotPat/subscription/{id}`

Where id may be the ICC, IMSI, MSISDN or subscriptionId in the following format:

- For ICC: `icc:{ICC value}`
- For IMSI: `imsi:{IMSI value}`
- For MSISDN: `tel:{MSISDN value}`
- For subscriptionID: `{subscriptionId value}`

#### 5.41.3.1 GET

Get port translation configuration of the subscription.

##### 5.41.3.1.1 Input parameters

- Available query parameters: None
- Body: Void entity-body

##### 5.41.3.1.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): result.

Parameter	Type	Optional	Description
itemId	int	No	Identifier of the operation
operation	string	No	Enumeration: - CREATE - DELETE
status	string	No	Enumeration: - NOT_PROVISIONED - PENDING - DEPLOYING

			- DEPLOYED - ERROR
publicEntryPoint	string	No	Public Ip
privateTargetPoint	string	No	Private Ip

#### 5.41.3.1.3 Request example

```
GET
/services/smartM2M/api2/v1/iotPat/subscription/{subscriptionId}

HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

#### 5.41.3.1.4 Response example

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 13 Feb 2023 04:52:00 GMT

[
  {
    "itemId": 1276,
    "operation": "CREATE",
    "status": "DEPLOYED",
    "publicEntryPoint": "81.45.56.64:40003",
    "privateTargetPoint": "15.78.99.1:40003"
  }
]
```

#### 5.41.3.2 PUT

Add port translation configuration of the subscription.

##### 5.41.3.2.1 Input parameters

- Available query parameters: None
- Body: Body (JSON format).

Parameter	Type	Optional	Description
port	int	No	Port

##### 5.41.3.2.2 Output parameters

- HTTP Response Code: 204 No Content

#### 5.41.3.2.3 Request example

```
PUT
/services/smartM2M/api2/v1/iotPat/subscription/{subscriptionId}

HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive

{
  port: 40003
}
```

#### 5.41.3.2.4 Response example

```
HTTP/1.1 204 No Content
Date: Thu, 04 Jun 2009 02:51:59 GMT
```

### 5.41.3.3 DELETE

Delete port translation configuration of the subscription.

#### 5.41.3.3.1 Input parameters

- Available query parameters: None
- Body: Body (JSON format)

Parameter	Type	Optional	Description
itemId	int	No	Item identifier

#### 5.41.3.3.2 Output parameters

- HTTP Response Code: 204 No Content

#### 5.41.3.3.3 Request example

```
DELETE
/services/smartM2M/api2/v1/iotPat/subscription/{subscriptionId}

HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive

{
  itemId: 1276
}
```

#### 5.41.3.3.4 Response example

```
HTTP/1.1 204 No Content
Date: Thu, 04 Jun 2009 02:51:59 GMT
```

### 5.42 Resource assetControl

This resource is used to manage the assets of the customer.

Resource URI:

<https://{env:port}/services/smartM2M/api2/v1/assetControl/assets>

#### 5.42.1 GET list

Retrieve asset list.

##### 5.42.1.1 Input parameters

- Available query parameters: None
- Body: Void entity-body

##### 5.42.1.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): result.

Parameter	Type	Optional	Description
address	string	Yes	Address of the asset. The maximum length is 250.
city	string	Yes	City of the asset. The maximum length is 50.
country	string	Yes	Country of the asset. Match regular expression: <code>^[A-Z]{2}\$</code>
customField1	string	Yes	The maximum length is 150.
customField2	string	Yes	The maximum length is 150.
customField3	String	Yes	The maximum length is 150.
customField4	String	Yes	The maximum length is 150.
descriptionShort	String	Yes	The maximum length is 150.
externalId	String	Yes	External ID of the asset. The maximum length is 100.
id	int	No	ID of the asset.
manualLocation	String	Yes	Groups the attributes described in the two subsequent rows.
longitude	String	Yes	From -180 to +180° both included. Supports a precision of 6 decimal places.



latitude	String	Yes	From -90 to +90 both included. Supports a precision of 6 decimal places.
manufacturer	String	Yes	Manufacturer of the asset. The maximum length is 150.
model	String	Yes	Model of the asset. The maximum length is 150.
name	String	Yes	Name of the asset. The maximum length is 100.
postalCode	String	Yes	Postal code of the asset. The maximum length is 20.
province	string	Yes	Province of the asset. The maximum length is 50.
serialNumber	string	Yes	Serial number of the asset. The maximum length is 150.
status	string	Yes	Enumeration: - NO_DEVICES - NO_MONIT - PARTIAL_MONIT - FULL_MONIT
alarmsCount	int	Yes	Number of device alarms with status ACTIVE

#### 5.42.1.3 Request example

```
GET /services/smartM2M/api2/v1/assetControl/assets

HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

#### 5.42.1.4 Response example

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnnn
Date: Tue, 5 Mar 2024 11:52:00 GMT

[
  {
    "address": "83281 Hayes Court",
    "city": "Ordzhonikidze",
    "country": "KZ",
    "customField1": "Custom API 1",
    "customField2": "Custom API 2",
    "customField3": "Custom API 3",
    "customField4": "Custom API 4",
    "descriptionShort": "Description short",
    "externalId": "A47abd0f8",
    "id": 2,
    "manualLocation": {
      "latitude": "40.358925",
      "longitude": "-3.674013"
```

```

    },
    "manufacturer": "Snaptags",
    "model": "Ram Van B150",
    "name": "Regrant",
    "postalCode": "28702",
    "province": "AU-QLD",
    "serialNumber": "d2c23b56-27aa-4643-aaa4-87def92f110f",
    "status": "NO_MONIT",
    "alarmsCount": 0
  },
  {
    "address": "Dirección Calle del Capitan Blanco Argibay",
    "city": "MADRID",
    "country": "ES",
    "descriptionShort": "Description short",
    "externalId": "E2E_09_10",
    "id": 3,
    "manualLocation": {
      "latitude": "42.6217",
      "longitude": "-0.767138"
    },
    "name": "Nombre E2E_09_10",
    "postalCode": "28029",
    "province": "MADRID",
    "status": "NO_MONIT",
    "alarmsCount": 0
  }
]

```

### 5.42.2 GET detail

Retrieve asset resource.

Resource URI:

<https://{env:port}/services/smartM2M/api2/v1/assetControl/assets/{id}>

Parameter	Type	Optional	Description
id	string	No	- Internal ID of asset or - External ID of asset: "externalId:1234"

#### 5.42.2.1 Input parameters

- Available query parameters: None
- Body: Void entity-body

#### 5.42.2.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): result.

Parameter	Type	Optional	Description
address	string	Yes	Address of the asset. The maximum length is 250.
city	string	Yes	City of the asset. The maximum length is 50.
country	string	Yes	Country of the asset. Match regular expression: ^[A-Z]{2}\$
customField1	string	Yes	The maximum length is 150.
customField2	string	Yes	The maximum length is 150.
customField3	String	Yes	The maximum length is 150.
customField4	String	Yes	The maximum length is 150.
descriptionShort	String	Yes	The maximum length is 150.
externalId	String	Yes	External ID of the asset. The maximum length is 100.
id	int	No	ID of the asset.
manualLocation	String	Yes	Groups the attributes described in the two subsequent rows.
longitude	String	Yes	From -180 to +180° both included. Supports a precision of 6 decimal places.
latitude	String	Yes	From -90 to +90 both included. Supports a precision of 6 decimal places.
manufacturer	String	Yes	Manufacturer of the asset. The maximum length is 150.
model	String	Yes	Model of the asset. The maximum length is 150.
name	String	Yes	Name of the asset. The maximum length is 100.
postalCode	String	Yes	Postal code of the asset. The maximum length is 20.
province	string	Yes	Province of the asset. The maximum length is 50.
serialNumber	string	Yes	Serial number of the asset. The maximum length is 150.
status	string	Yes	Enumeration: - NO_DEVICES - NO_MONIT - PARTIAL_MONIT - FULL_MONIT
alarmsCount	int	Yes	Number of device alarms with status ACTIVE

### 5.42.2.3 Request example

```
GET
/services/smartM2M/api2/v1/assetControl/assets/externalId:1234

HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
```

#### 5.42.2.4 Response example

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnnn
Date: Tue, 5 Mar 2024 11:52:00 GMT

{
  "address": "83281 Hayes Court",
  "city": "Ordzhonikidze",
  "country": "KZ",
  "customField1": "Custom API 1",
  "customField2": "Custom API 2",
  "customField3": "Custom API 3",
  "customField4": "Custom API 4",
  "descriptionShort": "Description short",
  "externalId": "A47abd0f8",
  "id": 2,
  "manualLocation": {
    "latitude": "40.358925",
    "longitude": "-3.674013"
  },
  "manufacturer": "Snaptags",
  "model": "Ram Van B150",
  "name": "Regrant",
  "postalCode": "28702",
  "province": "AU-QLD",
  "serialNumber": "d2c23b56-27aa-4643-aaa4-87def92f110f",
  "status": "NO_MONIT",
  "alarmsCount": 0
}
```

#### 5.42.3 POST

Create asset.

##### 5.42.3.1 Input parameters

- Available query parameters: None.
- Body: Body (JSON format).

Parameter	Type	Optional	Description
address	string	Yes	Address of the asset. The maximum length is 250.
city	string	Yes	City of the asset. The maximum length is 50.
country	string	Yes	Country of the asset. Match regular expression: <code>^[A-Z]{2}\$</code>
customField1	string	Yes	The maximum length is 150.
customField2	string	Yes	The maximum length is 150.
customField3	String	Yes	The maximum length is 150.

customField4	String	Yes	The maximum length is 150.
descriptionLong	String	Yes	The maximum length is 250.
descriptionShort	String	Yes	The maximum length is 150.
externalId	String	No	External ID of the asset. The maximum length is 100.
manualLocation	String	Yes	Groups the attributes described in the two subsequent rows.
longitude	String	Yes	From -180 to +180° both included. Supports a precision of 6 decimal places.
latitude	String	Yes	From -90 to +90 both included. Supports a precision of 6 decimal places.
name	String	Yes	Name of the asset. The maximum length is 100.
postalCode	String	Yes	Postal code of the asset. The maximum length is 20.
province	string	Yes	Province of the asset. The maximum length is 50.
type	string	Yes	Future use.

#### 5.42.3.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): result.

Parameter	Type	Optional	Description
address	string	Yes	Address of the asset. The maximum length is 250.
city	string	Yes	City of the asset. The maximum length is 50.
country	string	Yes	Country of the asset. Match regular expression: <code>^[A-Z]{2}\$</code>
customField1	string	Yes	The maximum length is 150.
customField2	string	Yes	The maximum length is 150.
customField3	String	Yes	The maximum length is 150.
customField4	String	Yes	The maximum length is 150.
descriptionShort	String	Yes	The maximum length is 150.
externalId	String	Yes	External ID of the asset. The maximum length is 100.
id	int	No	ID of the asset.
manualLocation	String	Yes	Groups the attributes described in the two subsequent rows.
longitude	String	Yes	From -180 to +180° both included. Supports a precision of 6 decimal places.
latitude	String	Yes	From -90 to +90 both included. Supports a precision of 6 decimal places.

manufacturer	String	Yes	Manufacturer of the asset. The maximum length is 150.
model	String	Yes	Model of the asset. The maximum length is 150.
name	String	Yes	Name of the asset. The maximum length is 100.
postalCode	String	Yes	Postal code of the asset. The maximum length is 20.
province	string	Yes	Province of the asset. The maximum length is 50.
serialNumber	string	Yes	Serial number of the asset. The maximum length is 150.
status	string	Yes	Enumeration: - NO_DEVICES - NO_MONIT - PARTIAL_MONIT - FULL_MONIT
alarmsCount	int	Yes	Number of device alarms with status ACTIVE

#### 5.42.3.3 Request example

```
POST
/services/smartM2M/api2/v1/assetControl/assets/externalId:1234

HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive

{
  "address": "3886 Briar Crest Court",
  "city": "Stockholm",
  "country": "SE",
  "descriptionShort": "Description short",
  "externalId": "d1bbd6bc-e4ea-4b80-a6e6-733dc22f6851",
  "manualLocation": {
    "latitude": "-24.425234",
    "longitude": "72.434258"
  },
  "name": "tisaaksohn0",
  "postalCode": "115 77",
  "province": "Stockholm"
}
```

#### 5.42.3.4 Response example

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnnn
Date: Tue, 5 Mar 2024 11:52:00 GMT

{
  "address": "3886 Briar Crest Court",
  "city": "Stockholm",
  "country": "SE",
```

```

    "descriptionShort": "Description short",
    "externalId": "d1bbd6bc-e4ea-4b80-a6e6-733dc22f6851",
    "id": 4,
    "manualLocation": {
      "latitude": "-24.425234",
      "longitude": "72.434258"
    },
    "name": "tisaaksohn0",
    "postalCode": "115 77",
    "province": "Stockholm",
    "status": "FULL_MONIT",
    "alarmsCount": 0
  }

```

#### 5.42.4 PATCH

Modify asset.

Resource URI:

<https://{env:port}/services/smartM2M/api2/v1/assetControl/assets/{id}>

Parameter	Type	Optional	Description
id	string	No	- Internal ID of asset or - External ID of asset: "externalId:1234"

##### 5.42.4.1 Input parameters

- Available query parameters: None
- Body: Body (JSON format).

Parameter	Type	Optional	Description
address	string	Yes	Address of the asset. The maximum length is 250.
city	string	Yes	City of the asset. The maximum length is 50.
country	string	Yes	Country of the asset. Match regular expression: <code>^[A-Z]{2}\$</code>
customField1	string	Yes	The maximum length is 150.
customField2	string	Yes	The maximum length is 150.
customField3	String	Yes	The maximum length is 150.
customField4	String	Yes	The maximum length is 150.
descriptionLong	String	Yes	The maximum length is 250.
descriptionShort	String	Yes	The maximum length is 150.
externalId	String	No	External ID of the asset. The maximum length is 100.

manualLocation	String	Yes	Groups the attributes described in the two subsequent rows.
longitude	String	Yes	From -180 to +180° both included. Supports a precision of 6 decimal places.
latitude	String	Yes	From -90 to +90 both included. Supports a precision of 6 decimal places.
name	String	Yes	Name of the asset. The maximum length is 100.
postalCode	String	Yes	Postal code of the asset. The maximum length is 20.
province	string	Yes	Province of the asset. The maximum length is 50.
type	string	Yes	Future use.

#### 5.42.4.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): result.

Parameter	Type	Optional	Description
address	string	Yes	Address of the asset. The maximum length is 250.
city	string	Yes	City of the asset. The maximum length is 50.
country	string	Yes	Country of the asset. Match regular expression: <code>^[A-Z]{2}\$</code>
customField1	string	Yes	The maximum length is 150.
customField2	string	Yes	The maximum length is 150.
customField3	String	Yes	The maximum length is 150.
customField4	String	Yes	The maximum length is 150.
descriptionShort	String	Yes	The maximum length is 150.
externalId	String	Yes	External ID of the asset. The maximum length is 100.
id	int	No	ID of the asset.
manualLocation	String	Yes	Groups the attributes described in the two subsequent rows.
longitude	String	Yes	From -180 to +180° both included. Supports a precision of 6 decimal places.
latitude	String	Yes	From -90 to +90 both included. Supports a precision of 6 decimal places.
manufacturer	String	Yes	Manufacturer of the asset. The maximum length is 150.
model	String	Yes	Model of the asset. The maximum length is 150.
name	String	Yes	Name of the asset. The maximum length is 100.
postalCode	String	Yes	Postal code of the asset. The maximum length is 20.



province	string	Yes	Province of the asset. The maximum length is 50.
serialNumber	string	Yes	Serial number of the asset. The maximum length is 150.
status	string	Yes	Enumeration: - NO_DEVICES - NO_MONIT - PARTIAL_MONIT - FULL_MONIT
alarmsCount	int	Yes	Number of device alarms with status ACTIVE

#### 5.42.4.3 Request example

```

PATCH
/services/smartM2M/api2/v1/assetControl/assets/externalId:1234

HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive

{
  "address": "3886 Briar Crest Court",
  "city": "Stockholm",
  "country": "SE",
  "descriptionShort": "Description short edited",
  "externalId": "d1bbd6bc-e4ea-4b80-a6e6-733dc22f6851",
  "manualLocation": {
    "latitude": "-24.425234",
    "longitude": "72.434258"
  },
  "name": "tisaaksohn0",
  "postalCode": "115 77",
  "province": "Stockholm"
}

```

#### 5.42.4.4 Response example

```

HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnnn
Date: Tue, 5 Mar 2024 11:52:00 GMT

{
  "address": "3886 Briar Crest Court",
  "city": "Stockholm",
  "country": "SE",
  "descriptionShort": "Description short edited",
  "externalId": "d1bbd6bc-e4ea-4b80-a6e6-733dc22f6851",
  "id": 4,
  "manualLocation": {
    "latitude": "-24.425234",
    "longitude": "72.434258"
  },
}

```

```

    "name": "tisaaksohn0",
    "postalCode": "115 77",
    "province": "Stockholm",
    "status": "FULL_MONIT",
    "alarmsCount": 0
  }

```

- 

### 5.43 Resource device SMS

This resource is used to manage SMS sent/received through IoTDataReady. Only for customers with all IoT Data Ready, IoTDataReadySMS and Application outgoing SMS services enabled.

Resource URI:

<https://{env:port}/services/REST/GlobalM2M/Data/v1/r12/devicesms>

#### 5.43.1 POST

Sends SMS to several subscriptions.

##### 5.43.1.1 Input parameters

- Available query parameters: None
- Body: Body (JSON format)

Parameter	Type	Optional	Description
deviceId	array	No	Identifier of the Subscription that will receive this SMS: any of icc, imsi or msisdn. Only for subscriptions of the Customer.
payload	string	No	The text of the message. Allowed 164 characters.
originMsisdn	uct:E164Type	Yes	Origin MSISDN. It must match one of the Customer's SMS-AO numbers. If not provided, the default SMS-AO number will be used.

##### 5.43.1.2 Output parameters

- HTTP Response Code: 201 Created
- Body (JSON format): *WatcherId* for retrieving the status operation by means of generating the SMS-AO report.

##### 5.43.1.3 Request example

Example using ICC identifier:

```

POST /services/REST/GlobalM2M/Data/v1/r12/devicesms
HTTP/1.1

```

```
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
{
  "deviceId": [
    {"icc": "8932339776077328360"}
  ],
  "payload": "text",
  "originMsisdn": "34669000002"
}
```

Example using MSISDN and IMSI identifiers:

```
POST /services/REST/GlobalM2M/Data/v1/r12/devicesms
HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: nnnn
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
{
  "deviceId": [
    {"msisdn": "34673501902"},
    {"msisdn": "34453266921"},
    {"imsi": "214071418484295"}
  ],
  "payload": "text",
  "originMsisdn": "34669000002"
}
```

#### 5.43.1.4 Response example

```
HTTP/1.1 201 Created
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2012 02:52:00 GMT
Location:
https:// host:port/services /services/REST/
GlobalM2M/Data/v1/r12/devicesms/{watcherId}

{
  "watcherId": "535e0eb0f4d15d870d000003"
}
```

#### 5.43.2 GET sms result

Gets the delivery operation status.

Resource URI:

https://{env:port}/services/REST/GlobalM2M/Data/v1/r12/devicesms/{watcherId}/smsresult

#### 5.43.2.1 Input parameters

- Available query parameters: None
- Body: Void entity-body

#### 5.43.2.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): Status operation

#### 5.43.2.3 Request example

```
GET
/services/REST/GlobalM2M/GlobalM2M/Data/v1/r12/devicesms/{watcherId}/smsresult
HTTP/1.1
Accept-Encoding: gzip,deflate
Accept: application/json
Host: host.com
Connection: Keep-Alive
```

#### 5.43.2.4 Response example

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2012 02:52:00 GMT

{
  "result": {
    "status": "active"
  }
}
```

### 5.43.3 GET list

Retrieve the list of SMS received. Only for Customers with the flag to store the received SMS enabled.

#### 5.43.3.1 Input parameters

- Available query parameters:

Parameter	Type	Optional	Description
maxBatchSize	int	Yes	Maximum number of entries to be returned in the response. Accepted values range is 1 to 1000.
startIndex	int	Yes	Offset to be applied to the response. E.g.: startIndex=50 means that entries since 51 should be returned (first 50 entries should

			not be returned). Accepted values range is from 0.
icc	int	Choice 1	ICC of the Subscription
imsi	int	Choice 1	IMSI of the Subscription
msisdn	int	Choice 1	MSISDN of the Subscription
imei	int	Choice 1	IMEI of the Subscription
date	date	Yes	Date of the event in form YYYYMMDD referenced in UTC.

- Body: Void entity-body

#### 5.43.3.2 Output parameters

- HTTP Response Code: 200 OK
- Body (JSON format): Array of events.

#### 5.43.3.3 Request example

```
GET /services/REST/GlobalM2M/Data/v1/r12/devicesms
```

```
HTTP/1.1
```

```
Accept-Encoding: gzip, deflate
```

```
Accept: application/json
```

```
Host: host.com
```

```
Connection: Keep-Alive
```

#### 5.43.3.4 Response example

Parameter	Type	Optional	Description
icc	int	No	ICC source/destination of the SMS
imsi	int	No	IMSI source/destination of the SMS
msisdn	int	No	MSISDN source/destination of the SMS
imei	int	Yes	IMEI source/destination of the SMS
timestamp	date	No	Event timestamp in form yyyy-MM-dd 'T'HH:mm:ss.000'Z'.
payload	string	No	SMS content
id	string	No	SMS ID
payloadType	string	No	SMS type: text or base64
type	string	No	SMS direction: downstream (SMS to device) or upstream (SMS from device)
status	string	Yes	SMS status: delivered, expired, deleted, undeliverable, accepted, unknown, rejected, sent

sender	string	Yes	In case of downstream type, it could be the default or any of additional origin numbers of SMS-AO. Otherwise it is not sent.
recipient	string	Yes	In case of upstream type, it could be the default or any of additional origin numbers of SMS-AO. Otherwise, it is not sent.
fragmentSequence	int	Yes	Sequence number of the fragment. Only sent in fragmented SMS.
fragmentSize	int	Yes	Number of fragments. Only sent in fragmented SMS.
fragmentReference	int	Yes	Unique reference of the fragmented message. Only sent in fragmented SMS.

```

HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 17 May 2022 02:52:00 GMT

[
  {
    "icc": "89252349922272682549",
    "imsi": "214074308510669",
    "msisdn": "34152838356",
    "timestamp": "2024-11-15T12:38:26.194Z",
    "payload": "message",
    "id": "673740c24bc5f802664f66f0",
    "status": "undeliverable",
    "type": "downstream",
    "sender": "619882364"
  },
  {
    "icc": "8934076100129973227",
    "imsi": "214074300005371",
    "msisdn": "34683980639",
    "imei": " ",
    "timestamp": "2024-11-12T10:03:03.294Z",
    "payload": "Mensaje de prueba.Esto es un MO para validar el flujo MO-AT de la funcionalidad IoTdtaReady SMS",
    "id": "673327d71f57f4161ea41eb6",
    "type": "upstream",
    "recipient": "717020477",
    "payloadType": "text"
  }
]

```

### 5.43.3.5 Fault response example

#### 5.43.3.5.1 Invalid filter

```
HTTP/1.1 400 Bad Request
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2012 02:52:00 GMT

{
  "ClientException": {
    "exceptionCategory": "SVC",
    "exceptionId": "SVC 1021",
    "text": "Invalid parameter value: More than one id detected.
Use just one of [icc, imsi, msisdn, imei]"
  }
}
```

#### 5.43.3.5.2 Not allowed

```
HTTP/1.1 400 Bad Request
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2012 02:52:00 GMT

{
  "ClientException": {
    "exceptionCategory": "SVC",
    "exceptionId": 1013,
    "text": "Operation is not allowed. Access to perform \"list\"
on a resource of type \"iotDataReady\" has been denied for
user with id \"59a7d67a4fb1116dd0953f\" and role \"admin-
customer\""
  }
}
```

#### 5.43.3.5.3 Invalid batchSize

```
HTTP/1.1 400 Bad Request
Content-Type: application/json
Content-Length: nnnn
Date: Thu, 01 Jun 2012 02:52:00 GMT

{
  "ClientException": {
    "exceptionCategory": "SVC",
    "exceptionId": 1021,
    "text": "Invalid parameter value: batchSize.
Supported values are integers minor or equal than 1000 and
bigger than 0"
  }
}
```

## 6 Data Type Definition

This chapter covers the documentation for this REST binding which is not exposed through the SOAP binding and so it is not covered in the document "UNICA\_API\_GlobalM2M\_SOAP\_Binding".

### 6.1 Commercial plan data {CommercialPlanData}

Name	Value	Description
data	{CommercialPlanDetail}	Commercial Plan.

### 6.2 Commercial plan detail {CommercialPlanDetail}

Name	Value	Description
id	{String}	Commercial Plan ID.
name	{String}	Commercial plan name.
description	{String}	Commercial plan description.
customers	{Array of Customer}	This field is filled when the commercial plan has been distributed to the customer. See the chapter: 6.29 Customer {Customer}.
published	{"NOT_PUBLISHED", "PUBLISHED_PENDING", "PUBLISHED"}	Publication status.
serviceProviderId	{String}	Service provider Id.
serviceProviderName	{String}	Service provider name.
currency	{Number}	Commercial plan currency id following the ISO 4217.
listsLocked	{Boolean}	Is the customer authorized for editing the restricted and authorized numbers? (true - the list is editable by customer, false - the list is not editable by customer).
blackList	{Array of {String}}	Rules and lines to block calls and SMS (i.e. ["346*"] or [] when all allowed).
whiteList	{Array of {String}}	Exceptions to black list rules (i.e. ["34660123456"]) or [] when not configured).
roamingList	{Array of {String}}	Incoming calls and SMS only allowed from this numbers/rules (i.e. ["34660123456", "34618*"] or [] when all allowed).
maxSubscriptions	{Number}	Maximum number of subscriptions.
lifeCycle	{LifeCycle}	Life Cycle configuration. See the chapter: 6.9 Life cycle configuration {LifeCycleConfiguration}
restrictions	{Restrictions}	Restriction configuration. See the chapter: 6.3 Restrictions {Restrictions}
tariffPlanServices	{ TariffPlanServices}	Tariff Plan Services configuration. See the chapter: 6.19 Tariff plan services {TariffPlanServices}



tariffPlanLifeCycle	{TariffPlanLifeCycle}	Tariff Plan Life Cycle configuration. See the chapter: 6.26 Tariff plan life cycle {TariffPlanLifeCycle}.
lteEnabled	{Boolean}	If the commercial plan is compatible with LTE subscriptions is set to True, if not, the value will be False. LTE subscriptions can make use of LTE operators in roaming.
discounts	{Discounts}	Discounts configuration. See the chapter: 6.30 Discounts {Discounts}
voucherOnlyDiscounts	{VoucherOnlyDiscounts}	Voucher only discounts configuration. See the chapter: 6.31 VoucherOnlyDiscounts {VoucherOnlyDiscounts}
roamingBlackList	{Array of {String}}	Exceptions to roaming white list rules (i.e. ["34660123456"]) or [] when not configured).

### 6.3 Restrictions {Restrictions}

Name	Value	Description
id	{String}	Restrictions ID.
published	{"NOT_PUBLISHED", "PUBLISHED_PENDING", "PUBLISHED"}	Publication status.
operator	{Array}	Allowed operators id list (i.e. ["6", "3"]). The operator id can be obtained from the RAID enumeration. See the chapter 5.18.3.3.2 Get Operators.
steering	{Steering}	Steering information. See the chapter: 6.4 Steering {Steering}.
voice	{ServiceRestriction}	Restriction information for the voice. See the chapter: 6.6 Service restriction {ServiceRestriction}.
sms	{ServiceRestriction}	Restriction information for the sms. See the chapter: 6.6 Service restriction {ServiceRestriction}.
data	{RestrictionOptions}	Restriction information for the data. See the chapter: 6.7 Restriction options {RestrictionOptions}.

When a restriction is already published and has not yet been provisioned is necessary to know:

- The current value
- The new values to be provisioned.

Therefore, in the case of a modified restriction and not yet provisioned, a restrictionsModified object is received, where the restriction information is shown. In the restrictionModified object we will receive the data which later will be provisioned on the platform (modified data).

Name	Value	Description
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restrictionModified	{RestrictionsOptions}	Basic services configuration to be provisioned on the platform. The change will have effect at 00:00.
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## 6.4 Steering {Steering}

Name	Value	Description
created	{Timestamp}	Creation time.
modified	{Timestamp}	Modification time.
resId	{Number}	Resource ID.
servicePackId	{String}	Service pack ID.
steeringList	{Array of {String}}	Steering List. This element is related to the operator list configured as restrictions of the commercial plan. See the chapter: 6.3 Restrictions {Restrictions}.
steeringType	{SteeringTypes}	Steering of roaming option. See the chapter: 6.5 Steering types enumerated {SteeringTypes}.
useCustomOrder	{Boolean}	Change default preference order? (True – allowed, false - not allowed).

## 6.5 Steering types enumerated {SteeringTypes}

Name	Description
both	Use both Network and OTA steering.
net	Use Network Steering only.
ota	Use SIM card OTA update of preferred MNOs list only.
none	Do not use Roaming Steering.

## 6.6 Service restriction {ServiceRestriction}

Name	Value	Description
mo	{RestrictionOptions}	Restriction for the outgoing. See the chapter: 6.7 Restriction options {RestrictionOptions}.
mt	{RestrictionOptions}	Restriction for the incoming. See the chapter: 6.7 Restriction options {RestrictionOptions}.

## 6.7 Restriction options {RestrictionOptions}

Name	Value	Description
home	{Boolean}	Is home restricted? (true – restricted, false – not restricted).
international	{Boolean}	Is international restricted? (true – restricted, false – not restricted). Only mandatory for “mo” restrictions.
roaming	{Boolean}	Is roaming restricted? (true – restricted, false – not restricted).

**MO (Outgoing) roaming voice calls and SMS** must be synchronized if their home values are the same, otherwise you will get an error. If their home values are different, the roaming can not be linked.

MT (Incoming) roaming voice calls and SMS must be restricted if the MT home calls/SMS is restricted, otherwise you will get an error.

MO (outgoing) roaming voice calls/SMS must be restricted if the MO home calls/SMS is restricted, otherwise you will get an error.

The data roaming must be restricted if the data home is restricted, otherwise you will get an error.

## 6.8 Life cycle {LifeCycle}

Name	Value	Descripción
id	{String}	Life cycle ID.
name	{String}	Life cycle name.
published	{"NOT_PUBLISHED", "PUBLISHED_PENDING", "PUBLISHED"}	Publication status.
status	{Array of {LifeCycleConfiguration}}	See the chapter: 6.9 <a href="#">Life Cycle Configuration {LifeCycleConfiguration}</a> .

## 6.9 Life cycle configuration {LifeCycleConfiguration}

Name	Value	Description
status	{LifeCycleStatus}	See chapter: 6.10 <a href="#">Life cycle status enumerated {LifeCycleStatus}</a> .
transitions	{Array of {LifeCycleTransition}}	Life cycle transitions. See the chapter: 6.11 <a href="#">Life cycle transition {LifeCycleTransition}</a> .
vouchers	{TestLifeCycleVoucherData}	Voucher configuration. See the chapter: 6.15 <a href="#">Test life cycle voucher data {TestLifeCycleVoucherData}</a> . Only for TEST status.
timer	{Number}	Time in seconds when on time out transition cause. Only for TEST status.

## 6.10 Life cycle status enumerated {LifeCycleStatus}

Name	Description
INACTIVE_NEW	Inactive new
TEST	Test
ACTIVATION_PENDANT	Activation Pending
ACTIVE	Active

DEACTIVATED	Deactivated
SUSPENDED	Suspended
RETIRED	Retired
ACTIVATION_READY	Activation ready

## 6.11 Life cycle transition {LifeCycleTransition}

Name	Value	Description
destinationStatus	{LifeCycleStatus}	Destination status. See the chapter: 6.10 <a href="#">Life cycle status enumerated {LifeCycleStatus}</a>
manual	{Boolean}	The transition can be manual? (True – manual, false – not manual).
automatic	{Boolean}	The transition can be automatic? (True – automatic, false – not automatic).
automaticInfo	{TransitionAutomaticInfo}	Automatic information for the transition. (Only if automatic is true). See the chapter: 6.12 Transition automatic info {TransitionAutomaticInfo}.

## 6.12 Transition automatic info {TransitionAutomaticInfo}

Name	Value	Description
timerCause	{Boolean}	Transition will be caused by a timer expiration.
firstUseCause	{Boolean}	Transition will be caused by the first use.
voucherCause	{Boolean}	Transition will be caused by a voucher expiration.
voucherCauseInfo	{VoucherCauseInfo}	Voucher selection (Only if voucherCause is true). See the chapter: 6.13 Voucher cause info {VoucherCauseInfo}. <a href="#">Voucher cause info</a>

## 6.13 Voucher cause info {VoucherCauseInfo}

Name	Value	Description
type	{ALL or ANY }	Condition.
voucher	{VoucherTypes}	Array of <a href="#">VoucherTypes</a> . See chapter: 6.14 Voucher types {VoucherTypes}.

## 6.14 Voucher types {VoucherTypes}

Name
DATA_HOME
VOICE_HOME
SMS_HOME

DATA_ROAMING
SMS_ROAMING
VOICE_ROAMING

## 6.15 Test life cycle voucher data {TestLifeCycleVoucherData}

Name	Value	Description
<b>data</b>	{DataVoucherLimits}	See the chapter: 6.16 Data voucher limits {DataVoucherLimits}.
<b>voice</b>	{VoiceVoucherLimits}	See the chapter: 6.17 Voice voucher limits {VoiceVoucherLimits}.
<b>sms</b>	{SmsVoucherLimits}	See the chapter: 6.18 SMS voucher limits {SmsVoucherLimits}.

## 6.16 Data voucher limits {DataVoucherLimits}

Name	Value	Description
<b>home</b>	{Number}	Home data limits in bytes.
<b>roaming</b>	{Number}	Roaming data limits in bytes.

## 6.17 Voice voucher limits {VoiceVoucherLimits}

Name	Value	Description
<b>home</b>	{Number}	Home voice limits in seconds.
<b>roaming</b>	{Number}	Roaming voice limits in seconds.

## 6.18 SMS voucher limits {SmsVoucherLimits}

Name	Value	Description
<b>home</b>	{Number}	Home SMS limits.
<b>roaming</b>	{Number}	Roaming SMS limits.

## 6.19 Tariff plan services {TariffPlanServices}

Name	Value	Description
<b>id</b>	{String}	Tariff plan services ID.
<b>name</b>	{String}	Tariff plan services name.
<b>published</b>	{"NOT_PUBLISHED", "PUBLISHED_PENDING", "PUBLISHED"}	Publication status.
<b>type</b>	{String}	Fix value "tariffPlanService".
<b>modified</b>	{Boolean}	This object has been changed? (True – changed, false – not changed).

<b>zonePlan</b>	{ZonePlan}	Operator zones configuration. See the chapter: 6.20 Zone plan {ZonePlan}.
<b>zonePlanModified</b>	{ZonePlan}	Operator zones configuration to be provisioned on the platform. See the chapter: 6.20 Zone plan {ZonePlan}.
<b>zonePlanId</b>	{String}	Zone plan ID.
<b>defaultOrigVoice</b>	{TariffPlan}	Default tariff plan configuration for outgoing calls. See the chapter: 6.22_Tariff plan {TariffPlan}.
<b>origVoice</b>	{Array of {TariffPlan}}	Outgoing calls tariffs plans. See the chapter: 6.22_Tariff plan {TariffPlan}.
<b>defaultTermVoice</b>	{TariffPlan}	Default tariff plan configuration for incoming calls. See the chapter: 6.22_Tariff plan {TariffPlan}.
<b>termVoice</b>	{Array of {TariffPlan}}	Incoming calls tariffs plans. See the chapter: 6.22_Tariff plan {TariffPlan}.
<b>defaultSms</b>	{TariffPlan}	Default tariff plan configuration for SMS. See the chapter: 6.22_Tariff plan {TariffPlan}.
<b>sms</b>	{Array of {TariffPlan}}	SMS tariffs plans. See the chapter: See the chapter: 6.22_Tariff plan {TariffPlan}.
<b>defaultData</b>	{TariffPlan}	Default tariff plan configuration for data. See the chapter: 6.22_Tariff plan {TariffPlan}.
<b>data</b>	{Array of {TariffPlan}}	Data tariffs plans. See the chapter: See the chapter: 6.22_Tariff plan {TariffPlan}.

In the "zonePlanModified" object we will receive the data which later will be provisioned on the platform (modified data). The change will have effect at 00:00.

## 6.20 Zone plan {ZonePlan}

Name	Value	Description
<b>name</b>	{String}	Zone plan name
<b>id</b>	{String}	Zone plan ID.
<b>zoneGroups</b>	{Array of {ZoneGroup}}	See the chapter: 6.21 Zone group {ZoneGroup}.
<b>published</b>	{"NOT_PUBLISHED", "PUBLISHED_PENDING", "PUBLISHED"}	Publication status.

## 6.21 Zone group {ZoneGroup}

Name	Value	Description
<b>name</b>	{String}	Zone group name.
<b>zones</b>	{Array of {String}}	Array of operator zones. The operator zone can be obtained from the serviceProviderZone enumeration. See the chapter 5.18.3.3.1 Get Service Provider Zones.

<b>id</b>	{Number}	Zone group ID.
<b>isDeleted</b>	{Boolean}	If it is true the zone group cannot be used because it is eliminated but its id cannot be reused.

## 6.22 Tariff plan {TariffPlan}

Name	Value	Description
<b>zoneGroupId:</b>	{Number}	Origin zone group Id (-1 for default origin).
<b>destinationId</b>	{Number}	Destination numbers Id (-1 for default destination). Note: Default tariffs (defaultOrigVoice, defaultTermVoice, defaultSms and defaultData) doesn't have this field.
<b>type</b>	{"PAY_PER_USE", "VOUCHERS"}	Tariff type.
<b>tariffPayPerUse</b>	{TariffPayPerUse}	Tariff pay per use plan configuration. See chapter: 6.23 Tariff pay per use {TariffPayPerUse}.
<b>tariffVouchers</b>	{TariffVouchers}	Tariff vouchers plan configuration. See chapter: 6.24 Tariff vouchers {TariffVouchers}.
<b>voucherImmediateActivation</b>	{Boolean}	It can take the value <i>true</i> if the tariff type is set to VOUCHERS.  Enables the voucher immediate activation.

## 6.23 Tariff pay per use {TariffPayPerUse}

Name	Value	Description
<b>chargeUnused</b>	{Boolean}	Charge vouchers only when used? (true – charge, false – not charge).
<b>pool</b>	{Boolean}	Individual or pool (false - Individual, true - Pool).
<b>dynamic</b>	{Boolean}	Pool type (false - Static, true - Dynamic). When pool type is dynamic the overall size of the voucher will vary depending on the total number of subscriptions containing the pool. (Only when pool is true)

### Calls with Simple Tariff

Name	Value	Description
<b>t2S</b>	{Number}	Call setup cost (cent x 1000).
<b>n2Free</b>	{Number}	Call free seconds (seconds).
<b>txN</b>	{Number}	Rounding units (seconds).
<b>t2Q</b>	{Number}	Tariff overage (cent x 1000).

### Calls with Complex Tariff

Name	Value	Description
<b>t2S</b>	{Number}	Call setup cost (cent x 1000).
<b>txN</b>	{Number}	Rounding units (seconds).

<b>t2Q</b>	{Number}	Tariff overage (cent x 1000).
<b>q1</b>	{Number}	Voucher cost (cent x 1000).
<b>n1</b>	{Number}	Voucher size (seconds).

### SMS with Simple Tariff

Name	Value	Description
<b>txN</b>	{Number}	Rounding units (For SMS tariff is always 1)
<b>t2Q</b>	{Number}	Tariff overage (cent x 1000).

### SMS with Complex Tariff

Name	Value	Description
<b>txN</b>	{Number}	Rounding units (For SMS tariff is always 1)
<b>t2Q</b>	{Number}	Tariff overage (cent x 1000).
<b>q1</b>	{Number}	Voucher cost (cent x 1000).
<b>n1</b>	{Number}	Voucher size (SMS).

### Data with Simple Tariff

Name	Value	Description
<b>txN</b>	{Number}	Rounding units (Bytes).
<b>t6Q</b>	{Number}	Tariff (cent x 1000).

### Data with Complex Tariff

Name	Value	Description
<b>n1</b>	{Number}	Stretch 1 size in bytes for data complex tariff.
<b>q1</b>	{Number}	Stretch 1 cost for data complex tariff (cent x 1000).
<b>n2</b>	{Number}	Stretch 2 size in bytes for data complex tariff.
<b>t2Q</b>	{Number}	Stretch 2 cost for data complex tariff (cent x 1000).
<b>n3</b>	{Number}	Stretch 3 size in bytes for data complex tariff.
<b>n4</b>	{Number}	Stretch 4 size in bytes for data complex tariff.
<b>t4Q</b>	{Number}	Stretch 4 cost for data complex tariff (cent x 1000).
<b>n5</b>	{Number}	Stretch 5 size in bytes for data complex tariff.
<b>t6Q</b>	{Number}	Stretch 6 cost for data complex tariff (cent x 1000).

The cost value for 1 euro would be 100000. The size value for 1MB would be 1048576.



## Special considerations when the related Commercial Plan is already published

When the related commercial plan is already published, the changes performed over the tariff cost elements are provisioned into the Charging System at night, not only into the database.

It means that the changes are not immediately provisioned into the Charging System, and meanwhile, if you consult the whole commercial plan, you will get the current values (not provisioned yet) plus the modified ones (pending to be provisioned) with the suffix 'Modified'.

- Elements with the suffix 'Modified' refers the values to be provisioned into the platform. The provision will be executed at night.
- Elements without suffix refers the current provisioned values.

### Elements with the values to be provisioned

Name	Value	Description
<b>t2SModified</b>	{Number}	Call setup cost when it comes to a modification of a previously published tariff plan (only for voice tariffs) (cent x 1000).
<b>q1Modified</b>	{Number}	Voucher cost (calls, sms) or stretch 1 cost for data complex tariff when it comes to a modification of a previously published tariff plan (cent x 1000).
<b>t2QModified</b>	{Number}	Tariff overage (calls, sms) or stretch 2 cost for data complex tariff when it comes to a modification of a previously published tariff plan (cent x 1000).
<b>t4QModified</b>	{Number}	Stretch 4 cost for data complex tariff when it comes to a modification of a previously published tariff plan (cent x 1000).
<b>t6QModified</b>	{Number}	Stretch 6 cost for data complex tariff when it comes to a modification of a previously published tariff plan (cent x 1000).

## 6.24 Tariff vouchers {TariffVouchers}

Name	Value	Type
<b>id</b>	{Number}	Internal voucher identifier.
<b>name</b>	{String}	Voucher name in UTF-8. The maximum length is 50.
<b>type</b>	{"RECURRENT", "ONE_TIME"}	Voucher type.
<b>size</b>	{Number}	Amount of bytes configured for the voucher. Min: 1 byte, Max: 999.999.999.999 bytes.
<b>duration</b>	{TimeDuration}	Voucher duration. See chapter 6.25 Time duration {TimeDuration}.
<b>fee</b>	{Number}	Fee (cent x 1000) to be applied when buying the voucher. Max length 12 digits. When the voucher is published the change will have effect at 00:00.

<b>threshold</b>	{Number}	Data threshold percentage (with two decimals 10000 == 100%) in order to throw an alarm.
<b>subscriptionCount</b>	{Number}	Number of subscriptions currently using the tariff voucher.
<b>priority</b>	{Number}	Sequential position of the priority starting at 1.
<b>published</b>	{"NOT_PUBLISHED", "PUBLISHED"}	Voucher publication status. This status can not match the commercial plan status for vouchers that have been created after publishing the commercial plan. The voucher will be published at 00.00h and meanwhile is not published.
<b>available</b>	{Boolean}	It is <i>true</i> if the voucher is available for purchase, otherwise is <i>false</i> .
<b>irreplaceableRecurrentVoucher</b>	{Boolean}	It is <i>true</i> if the voucher is recurrent and irreplaceable, otherwise is <i>false</i> .

### Special considerations when the related Commercial Plan is already published

When the related commercial plan is already published, the changes performed over the voucher fee and priority are provisioned into the Charging System at night, not only into the Data Base.

It means that the changes are not immediately provisioned into the Charging System, and meanwhile, if you consult the whole commercial plan, you will get the current values (not provisioned yet) plus the modified ones (pending to be provisioned) with the suffix 'Modified'.

- Elements with the suffix 'Modified' refers the values to be provisioned into the platform. The provision will be executed at night.
- Elements without suffix refers the current provisioned values.

### Elements with the values to be provisioned

Name	Value	Type
<b>feeModified</b>	{Number}	Fee to be applied when buying the voucher. Max length 12 digits. To be provisioned. The change will have effect at 00:00.
<b>priorityModified</b>	{Number}	Sequential position of the priority starting at 1. To be provisioned. The change will have effect at 00:00.

### 6.25 Time duration {TimeDuration}

Name	Value	Description
<b>duration</b>	{Number}	Period of time that when reached the voucher will be expired. Min: 1, Max: 999

unit	{"DAYS", "MONTHS"}	Duration unit.
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## 6.26 Tariff plan life cycle {TariffPlanLifeCycle}

Name	Value	Description
id	{String}	Tariff plan life cycle ID.
name	{String}	Tariff plan life cycle name.
published	{"NOT_PUBLISHED", "PUBLISHED_PENDING", "PUBLISHED"}	Publication status.
modified	{Boolean}	Is it a modification? (True – modified, false – not modified).
status	{Array of {StateFee}}	State fees. See the chapter: 6.27 State fee {StateFee}.
transitions	{Array of {TransitionFee}}	Transition fees. See the chapter: 6.28 Transition fee {TransitionFee}.

## 6.27 State fee {StateFee}

Name	Value	Description
status	{"ACTIVATION_READY"   "ACTIVATION_PENDANT"   "ACTIVE"   "DEACTIVATED"}	State
cost	{Number}	Monthly fee (cent x 1000).

### Special considerations when the related Commercial Plan is already published

When the related commercial plan is already published, the changes performed over the tariff cost elements are provisioned into the Charging System at night, not only into the Data Base.

It means that the changes are not immediately provisioned into the Charging System, and meanwhile, if you consult the whole commercial plan, you will get the current values (not provisioned yet) plus the modified ones (pending to be provisioned) with the suffix 'Modified'.

- Elements with the suffix 'Modified' refers the values to be provisioned into the platform. The provision will be executed at night.
- Elements without suffix refers the current provisioned values.

Name	Value	Description
costModified	{Number}	Monthly fee (cent x 1000) when it comes to a modification of a previously published tariff plan.

## 6.28 Transition fee {TransitionFee}

Name	Type	Value
Id	{NUMBER}	Identifier of transitions fee (read only).
statusStart	{"INACTIVE_NEW"   "DEACTIVATED"   "SUSPENDED"}	Origin state.
statusFinal	{"TEST"   "ACTIVATION_READY"   "ACTIVATION_PENDANT"   "ACTIVE"   "RETIRED"   "DEACTIVATED"}	Destination state.
cost	{Number}	Fee (cent x 1000).

### Special considerations when the related Commercial Plan is already published

When the related commercial plan is already published, the changes performed over the tariff cost elements are provisioned into the Charging System at night, not only into the Data Base.

It means that the changes are not immediately provisioned into the Charging System, and meanwhile, if you consult the whole commercial plan, you will get the current values (not provisioned yet) plus the modified ones (pending to be provisioned) with the suffix "Modified".

- Elements with the suffix 'Modified' refers the values to be provisioned into the platform. The provision will be executed at night.
- Elements without suffix refers the current provisioned values.

Name	Value	Description
costModified	{Number}	Fee (cent x 1000) when it comes to a modification of a previously published tariff plan.

## 6.29 Customer {Customer}

Name	Value	Description
restricted	{Boolean}	Is restricted? (true – retracted, false – not restricted). It indicates if the commercial plan has been assigned to the customer in a regular o restricted way.
customerId	{String}	Customer identifier.
customerName	{String}	Customer name.

## 6.30 Discounts {Discounts}

Name	Value	Description
customerId	{String}	Customer identifier.

<b>customerName</b>	{String}	Customer name.
<b>data</b>	{Number}	Percentage. (10000 – 100.00%). Second decimal shall be zero.
<b>sms</b>	{Number}	Percentage. (10000 – 100.00%). Second decimal shall be zero.
<b>voice</b>	{Number}	Percentage. (10000 – 100.00%). Second decimal shall be zero.
<b>modified</b>	{Boolean}	This plan has been modified (true – modified)

### 6.31 VoucherOnlyDiscounts {VoucherOnlyDiscounts}

Name	Value	Description
<b>customerId</b>	{String}	Customer identifier.
<b>customerName</b>	{String}	Customer name.
<b>data</b>	{Number}	Percentage. (10000 – 100.00%)
<b>sms</b>	{Number}	Percentage. (10000 – 100.00%)
<b>voice</b>	{Number}	Percentage. (10000 – 100.00%)
<b>modified</b>	{Boolean}	This plan has been modified (true – modified).

### 6.32 Consumption threshold configuration

Parameters related to the consumption thresholds that will be applied to the SIMs that enter the commercial group from now on (only available from REST API version).

New consumption threshold parameters are optional and are disabled for backwards compatibility.

Parameter	Type	Optional	Description
limitDailyVoice	tns: <a href="#">ConsumptionLimitType</a>	Yes	Consumption daily voice limit in seconds.
limitDailySms	tns: <a href="#">ConsumptionLimitType</a>	Yes	Consumption daily sms limit in sms sent.
limitDailyData	tns: <a href="#">ConsumptionLimitType</a>	Yes	Consumption daily data limit in bytes.
limitMonthlyVoice	tns: <a href="#">ConsumptionLimitType</a>	Yes	Consumption monthly voice limit in seconds.
limitMonthlySms	tns: <a href="#">ConsumptionLimitType</a>	Yes	Consumption monthly sms limit in sms sent.
limitMonthlyData	tns: <a href="#">ConsumptionLimitType</a>	Yes	Consumption monthly data limit in bytes.
consumptionLimitsEnabled	boolean	Yes	Indicates if the consumption limits are enabled or not (true or false).

### 6.33 Consumption threshold {ConsumptionLimitType}

Parameter	Type	Optional	Description
enabled	boolean	No	Indicates if the consumption limit is enabled or not (true or false).
value	decimal	Yes	Consumption limit value: <ul style="list-style-type: none"> <li>• in bytes for data</li> <li>• in seconds for voice</li> <li>• in sms</li> </ul>
trafficCut	boolean	Yes	When set to true, traffic is cutoff in case the consumption limit is exceeded.