



**vodafone**

Vodafone Global M2M

# Global M2M Service R3.0 Customer APIs Guide

March 2012  
Version 4.2

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# 1 Introduction

## 1.1 Purpose

This User Guide explains the purpose and usage of the External APIs provided by the Vodafone Global M2M Service.

It defines the message formats, data structures and message protocols of the interface. Applications that wish to use the services provided must conform to the structures, functions and protocols defined in this specification.

## 1.2 Scope

This User Guide provides information on the External APIs for Release 3.0 of the Global M2M Platform.

## 1.3 Intended Audience

This User Guide is intended to be used by developers working for Customers seeking to integrate M2M Services with their systems.

## 1.4 Prerequisite

It is assumed that readers of this guide are familiar with Web Services.

## 1.5 Structure of this Guide

This guide has the following major Chapters:

Chapter	Content
1. Global M2M Platform Overview	An overview of the Global M2M Platform solution
2. Service Oriented Architecture	An overview of the Global M2M Service Platform Service Oriented Architecture context as a prelude to discussing use of the External APIs.
3. Access & Security	Defines the User Authentication, Service Access Rules and Data Access Rules that affect the use of External APIs (Business Services).
4. Global M2M Service Platform Data Model	Presents the Data Entities and Attributes that are available to developers via the Business Services.
5. Global M2M APIs Overview	Provides an overview of APIs protocol (i.e. establishment, usage, termination) and security (i.e. client authentication)
6. Inbound M2M Service Customer Business Services	This section serves details the available inbound M2M Business Services. For each API the purpose is given as well as the detail of the outbound and inbound messages.
7. Outbound M2M Service Customer Business Services	This section serves details the available outbound M2M Business Services. For each API the purpose is given as well as the detail of the outbound and inbound messages.

Chapter	Content
8. Data Type	This section contains all the data types used or returned by all APIs.
9. Each Data Type	This section contains the detailed description of each Data Type in a table.

## 1.6 Changes

The following changes have been introduced in this document for Release R3.0:

- New versions of the following APIs:
  - getFilteredDeviceListv4
  - getDeviceLocationHistoryDetails

The following changes have been introduced in this document for Release 2.1:

- New versions of the following APIs, to support voice functionality:
  - getCustomerServiceProfileDetailsv3
  - setCustomerServiceProfileDetailsv4
  - cloneCustomerServiceProfileDetailsv4
  - getFilteredDeviceListv3
  - getVpnGroupList
- New voice attributes to be returned by the existing getDeviceDetails
- New response code for getReport to indicate that a partial report is returned.

The following changes have been introduced in this document for Release 1.3:

- Changes to enforce XML element ordering according to the schema definition, and stricter validation of header elements.
- New result codes to provide more information in the event of XML validation failure.
- New submitWUTriggerv2 supporting additional attributes.
- New result codes for setDeviceDetails.

The following changes were introduced in this document for Release 1.2:

- The introduction of a new return code, 0103, which indicates that although the API succeeded, there was no data matching the specified criteria
- The introduction of new APIs:
  - setCustomerServiceProfileDetailsv3 – allow usage, country, and linked profile to be set to blank
  - cloneCustomerServiceProfilev3 – allowing usage, country, and linked profile to be set to blank
  - get FilteredDeviceListv2 - usage, country, and linked profile to be set to blank
- Changes to the ordering of XML elements in the document to match the ordering of elements in the schema; the next version of Vodafone Global M2M Platform will enforce XML element ordering according to the schema definition.



## 2 Global M2M Service Platform Overview

The Global M2M Service Platform is a dedicated, centralized service delivery and management platform for M2M services designed with the main purpose to supply and service large-scale, wireless, multi-country deployments to enterprises and their solution providers. Customers can procure from the Vodafone contracting entity a single, Global SIM for deployment into their devices and can manage all their assets, independent of location, through optimized management tool, fit-to-purpose pricing and improved SIM logistics.

A self-contained staging environment is also available to Customers with the main purpose to allow proof of concept testing of the end-to-end M2M solution, small scale trial, and sandbox testing of the Service Management Web-care Tool as well as External APIs. The staging environment will continue to be available to Customers during their life cycle, so that when new customer software/devices need to be tested, this environment will always be available for regression and acceptance

Figure 1 provides an overview of the M2M Platform components. For the purpose of this document, focus is on the M2M Service Portal, and more in the specific on the Web Service APIs. For more details on the other components, refer to Global M2M Service Description - V1.3.

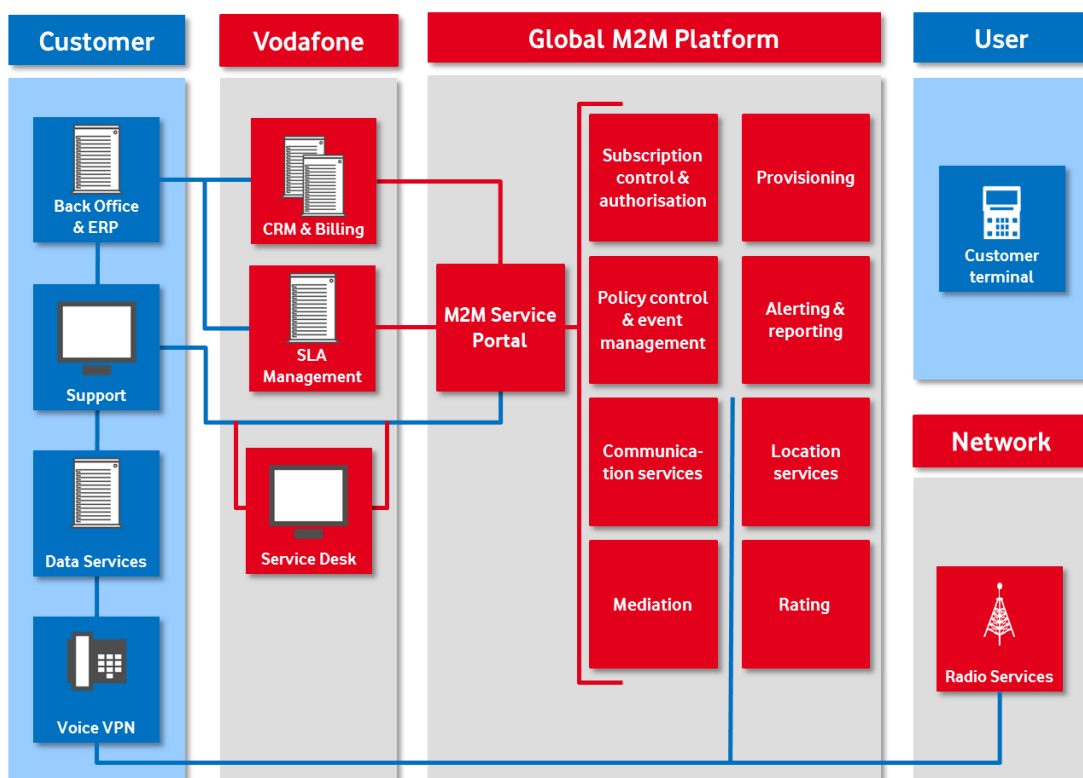


Figure 1: Global M2M Platform

## 2.1 M2M Service Portal

The Global M2M Service Portal implements middleware to grant Customers full control over their M2M services as well as provide them with means to manage all elements of the connectivity whether manually or driven by an enterprise application.

Customers are able to self-serve which subscription is active, when, where and how it accesses the M2M application. This control can be applied to one, many or all customer subscriptions.

Besides using a secure Service Management Web-care Interface, Customers can manage their remote assets through enterprise-grade APIs for integration directly into enterprise applications.

### 2.1.1 Service Management Web-care User Interface

This consists of a graphical Web-user Interface (GUI) through which Customer are able to manage their own Subscriptions and report on various aspects of the M2M service. Refer to the Customer User Guide for more details on the Web-user Interface.

### 2.1.2 Web Service APIs

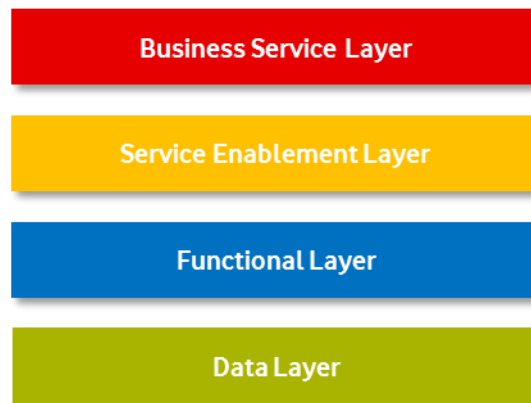
A Service-oriented architecture (SOA) supports the M2M Global Service Management Web-interface (GUI) as well as provides external Web-Service APIs in order to support customers own business operations. Web Services are discussed more in details in the following sections.

## 3 Global M2M Service Platform Service Oriented Architecture

The Global M2M Service Platform that underpins the Global M2M Service is built on a Service Oriented Architecture (SOA), which enables external partners to access services provided through Web Services. These Web Services provide Vodafone's partners and customers with a secure and reliable machine interface to selected functions of the underlying subsystems. It supports multiple concurrent sessions and secures all data in transit.

### 3.1 Overview

Figure 2 illustrates the four layers contained within the Global M2M Service Platform SOA Infrastructure.



**Figure 2: Global M2M Service Platform SOA Infrastructure Layers**

#### 3.1.1 Business Service Layer

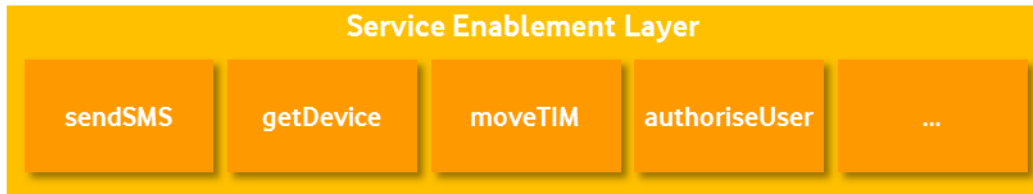
The Business Service Layer makes high-level services available to Business Service Consumers (external systems) via Web Services.

These Business Services provide rich are built using the basic building block services made available by the underlying Service Enablement Layer. Typically, the services provided by the Business Service Layer will be constructed using a number of calls to Service Enablement Layer services.

### 3.1.2 Service Enablement Layer

The Service Enablement Layer makes low-level services available to the Business Service Layer via Web Services. The services are a combination of:

- Abstractions of the interfaces to the Global M2M Service Platform core components within the Functional Layer.
- Direct access to data entities within the Data Layer.



**Figure 3: Global M2M Service Platform Service Enablement Layer**

### 3.1.3 Functional Layer

The Functional Layer contains the core Global M2M Service Platform subsystems that provide the M2M Service functionality; i.e. messaging, authentication, provisioning, rating, reporting & alerting etc...

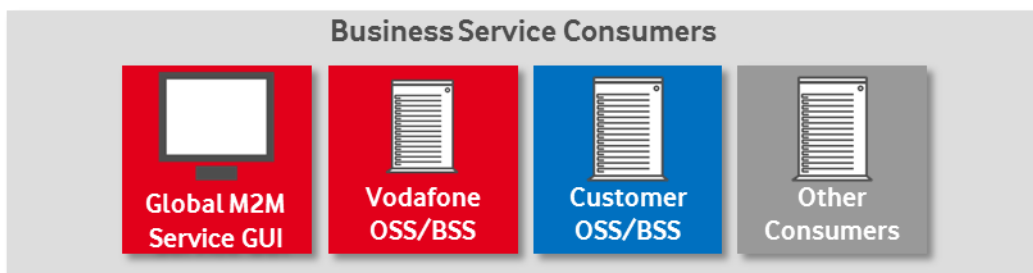
Each core subsystem has its own communication interface, implemented in technologies such as HTTP and TCP Sockets.

### 3.1.4 Data Layer

The Data Layer contains the data held by the Global M2M Service Platform.

## 3.2 Business Service Consumers

Within the context of the Vodafone Global M2M Service, Business Service Consumers include the various Global M2M Graphical User Interfaces (GUIs), Vodafone BSS/OSS, Customer BSS/OSS, etc.



**Figure 4: Example Global M2M Service Platform Business Service Consumers**

### 3.3 Service Layers

The **Business Service** and **Service Enablement** Layers of the Global M2M Service Platform SOA are responsible for exposing M2M Service functionality and data to external systems. The Service Layers expose their services using Web Services (SOAP v1.1 over HTTP or HTTPS).

Many of the services exposed by the **Service Enablement Layer** can be considered as atomic level functionality within the context of the Global M2M Service architecture; e.g. 'logon', 'read a record', 'update a record' or 'send an SMS'. These services, as illustrated in Figure 5, are provided by a combination of direct access to entities in the **Data Layer** and abstractions of underlying interfaces from the core Global M2M Service Platform components in the **Functional Layer**.

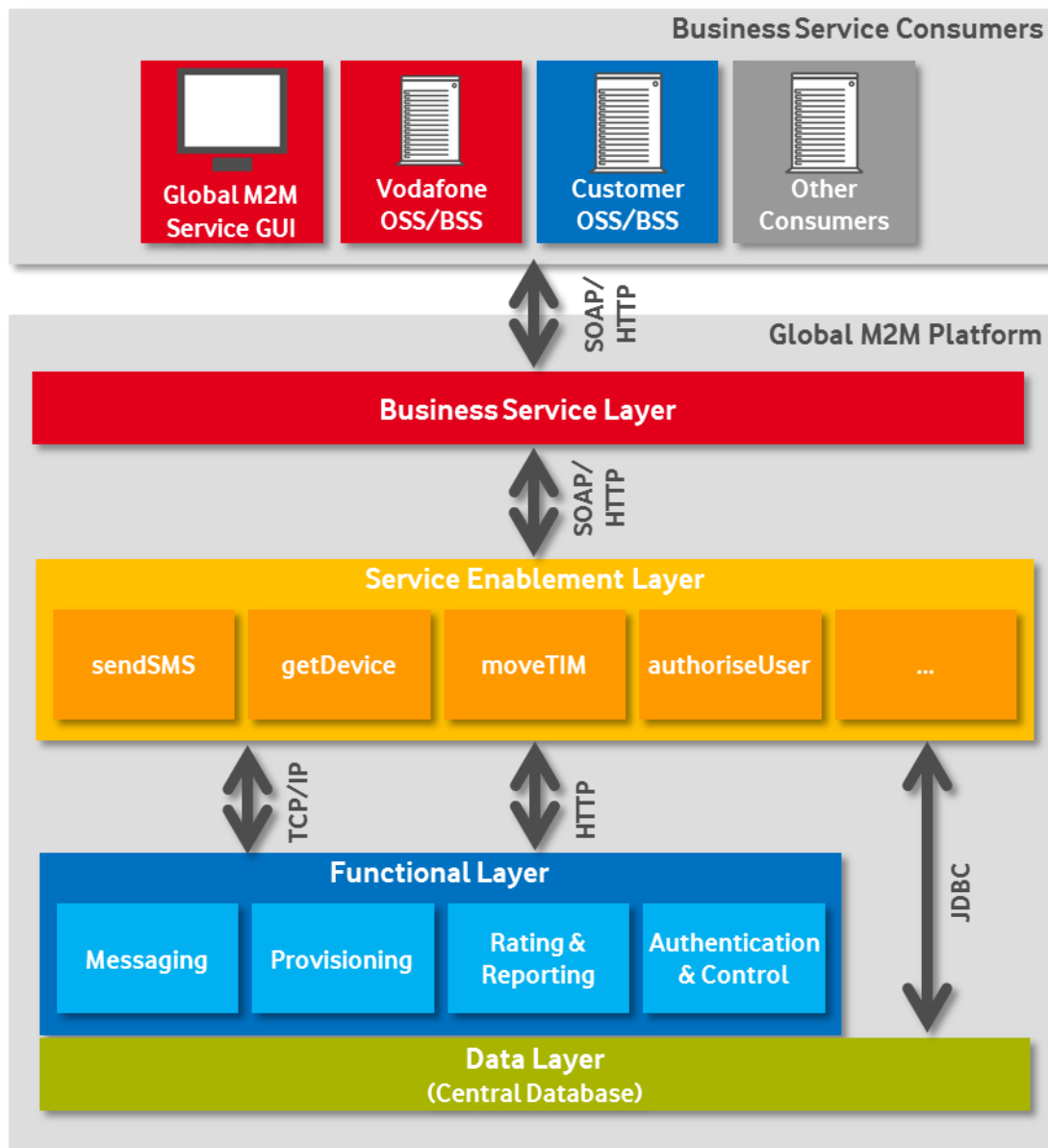


Figure 5: Global M2M Service Platform SOA Layer Interaction

The **Business Service Layer** exposes 'compound' services, i.e. services comprised of one or more calls to underlying services in the **Service Enablement Layer**. Therefore, the services provided by the Business Service Layer are constructed using the Service Enablement Layer services as building blocks; i.e. they have no inherent M2M Service functionality themselves, they merely present sub-sets, super-sets and aggregates of the functionality/data provided by the Service Enablement Layer.

The interaction between the SOA layers is best illustrated in Figure 6, which shows a potential sequence of events in a call to a hypothetical Business Service Layer service 'sendSMSMessage'.

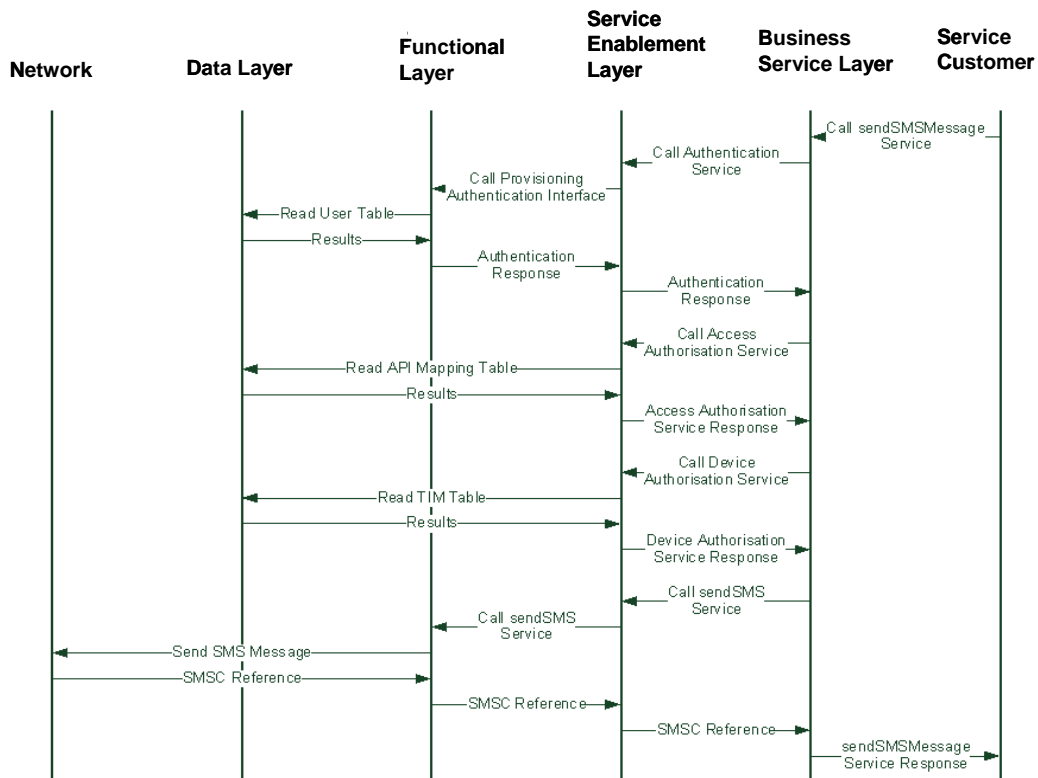


Figure 6: SOA Layer Interaction Example (Incoming Message)

As can be seen in Figure 6, when the Business Service 'sendSMSMessage' is called by a Service Consumer (e.g. a Customer OSS), the Business Service Layer makes a series of calls to the services provided by the Service Enablement Layer in order to complete the request.

Firstly the Business Service Layer calls an 'Authentication service' which is an abstraction of the Authentication Interface provided by Provisioning in the Functional Layer. Once authentication is complete, two calls to 'Authorisation services' are made, to determine whether the consumer is allowed to access this service and whether the consumer is allowed to access the particular SIM respectively; both calls are direct database lookups from the Service Enablement Layer. On completion of authorisation a 'sendSMS' service is called, which is an abstraction of the Messaging Gateway's SMS Interface, resulting in an SMS being submitted to the network. The 'sendSMSMessage' Business Service then returns the result to the consumer.

### 3.4 Outgoing Services

It is necessary in some instances to have the ability to proactively initiate communication with Service Consumers; for example, to send out notifications. When this is required, the entity which would ordinarily be described as a Service Consumer, such as a Vodafone Global M2M Service Customer, must provide a Web Service which the Global M2M Service Platform consumes in order to communicate the information

In such situations, the communication mechanism, i.e. the client to the external Web Service, is provided by a single function that combines the Business Service and Service Enablement Layers.

To illustrate this interaction, **Figure 7: SOA Layer Interaction Example (Outgoing Message)** Figure 7 shows a potential sequence of events in a hypothetical scenario where a notification is sent to a M2M Service customer informing them that one of their devices has connected to the network.

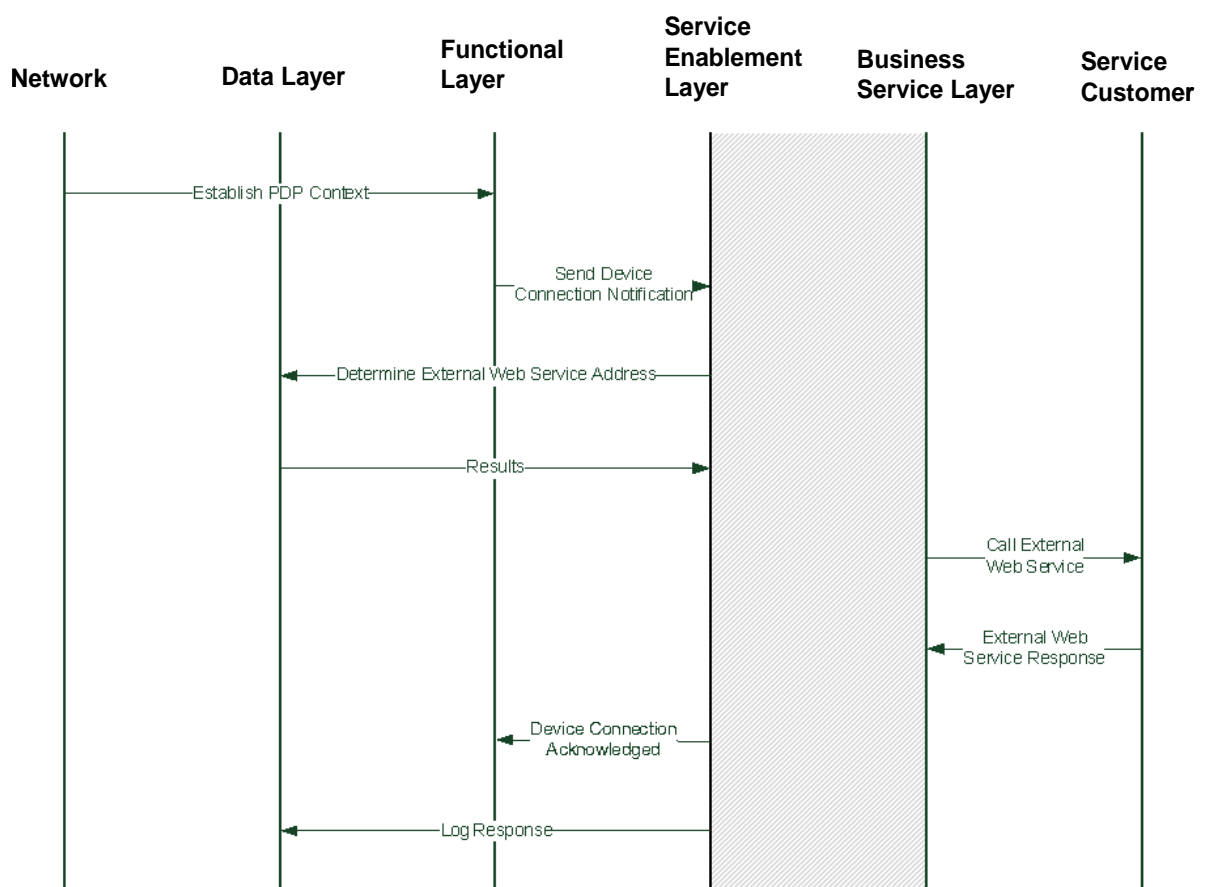


Figure 7: SOA Layer Interaction Example (Outgoing Message)

## 4 Access & Security

Service Consumers may only access services provided by the Business Service Layer. Lower level services in the Service Enablement Layer are not accessible by external systems. This layer of security is provided by the network, through the use of Firewalls to restrict port access by external systems.

Access to the services and data provided by the M2M Service is controlled by three further layers of security implemented by the Global M2M Service Platform itself:

- User Authentication
- Service Access Rules
- Data Access Rules

These three layers work in combination to ensure that only authorised users can access the Global M2M Platform services, that those users can only access appropriate services and that those services only present appropriate data to the user.

### 4.1 User Authentication

The primary security layer for access to the Global M2M Platform services is provided by User Authentication. The authentication mechanism is provided by the Provisioning core component in the Functional Layer. By default this authentication mechanism is based around the concept of sessions<sup>1</sup>. The Global M2M Platform services operate two different security models, Message Based Authentication and Session Based Authentication to cater for the varying needs of different Service Consumers.

Message Based Authentication is primarily aimed at Global M2M Service Consumers whose services are best served by 'session-less' approach. Session Based Authentication is aimed at Global M2M Service Consumers whose access will be via a User Interface (UI), where a single login providing access for a certain amount of time is preferable.

#### 4.1.1 Message Based Authentication

Message Based Authentication requires every message (i.e. a request to a Global M2M Platform service) to contain at least a user name and password in the SOAP message header.

Using Message Based Authentication results in a logon request being made for each message, however; caching may be used in the Service Enablement Layer to prevent excessive load on the database.

#### 4.1.2 Session Based Authentication

Session Based Authentication requires an initial logon message containing at least a user name and password (in the SOAP message header), and returns a 'session token'. Subsequent requests for the same user need not contain a password; they can use the user name and session token. The session token can continue to be used until it expires, at which point requests will be rejected.

---

<sup>1</sup> When a user logs in a session is created, represented by a 'session token', in the database. Each session has a fixed session validity period. When the validity period has passed the session expires and the token is removed. During the time that the session is valid, a user can provide a user name and a token rather than a user name and password. Once the session has expired, the user name and password must again be supplied to start a new session and generate a new token.



## 4.2 Service Access Rules

Access to services in the Business Service Layer is governed by access rules based on 'Service Groups' which are defined in the Data Layer. Customers are granted access to sets of Service Groups. The users belonging to a Customer inherit those Service Groups or can be limited to a subset of those Service Groups. Service Access Rules will be addressed during the Customer On-boarding.

## 4.3 Data Access Rules

Data access is controlled by the Service Enablement Layer. It decides, based on the user's role, how much data, if any, is returned, ensuring that users only access data appropriate to their needs.

Customers will be granted a **Customer role** which allows a user to have access to a subset of a limited set of the Global M2M Service data, for example they would be able to view records for SIMs that they own; however they would not be allowed to edit all fields within that record.

For each role the following Access Rules may be configured:

Access Rule	Definition
Read-Only	API users configured as Read-Only will effectively be prevented from accessing Business Services that modify data.
Read-Write	API users can both Read & Write data.
Read-Write-Delete	API users can Read, Write & Delete data.
Administrator	As for Read-Write-Delete, but API users can also Create other Users.



## 6 API

The Global M2M Platform provides customers the facility to perform specific activities on their own subscribers via web services. The following sub-sections describe the functions.

### 6.1 API Protocol

#### 6.1.1 Overview

The link between the Global M2M Platform Web Services and external systems is SOAP over HTTPS/1.1.

#### 6.1.2 Establishment

It is the responsibility of the client to establish an HTTPS connection.

#### 6.1.3 Usage

HTTPS is used as the transport protocol for the SOAP messages.

Within a single HTTPS connection, request and response messages operate in a synchronous mode, i.e. SOAP requests are made by Web Service client applications which are then processed by Web Service applications and an appropriate SOAP response is returned. The client making the request must wait until a response has been received before sending another request.

It is possible to have parallel HTTPS connections to a Web Service enabling multiple requests to be processed concurrently.

#### 6.1.4 Termination

Either side may close the connection. The server end takes no action to re-establish a connection other than listening for a new connection request.

#### 6.1.5 Throughput Control

The following mechanisms are used to control the number of API calls per second from a particular origin:

- The ingress load balancers are configured to allow a maximum number of concurrent connections.
- The front end web servers are configured to allow a certain number of requests to be made in any one connection.

Together, these parameters will be tuned to provide optimal performance for the origin and the Global M2M system.

#### 6.1.6 WSDL

The Global M2M Platform does not provide a WSDL repository.

For those systems that require a WSDL repository, the recommended solution is to implement a local WSDL repository that is configured with the WSDL provided in this document, with the appropriate end point addresses configured in the stored WSDL.

The URI of services forming the outgoing API must be provided by Vodafone to the customer in readiness for integration testing and production.

Note that soapAction must be empty.

## 6.2 Security

### 6.2.1 Overview

The link between the Global M2M web services server and external systems is secured using HTTPS (i.e. HTTP over SSL). The implementation includes both server and client certificates.

### 6.2.2 Client Authentication

External systems connecting to the Global M2M Web Services are authenticated using SSL client certificates. Application level userID/password combination is used as another layer of authenticating the customer.

A particular userID has access to either a single customer or a number of customers. If the userID has access to only a single customer, then the customer is inferred. If the userID has access to multiple customers, then the customerID must be specified.

### 6.2.3 Message Flows

The following diagram shows the flow of messages between the external application and Global M2M API Subsystem for an inbound application call:

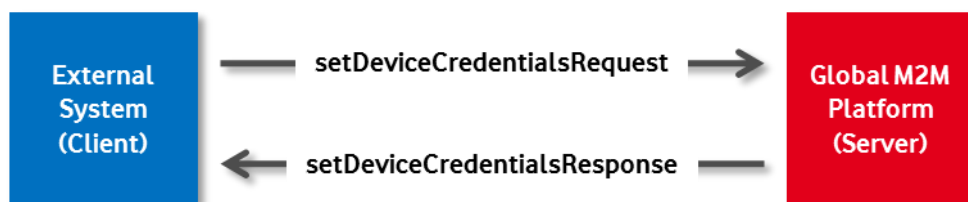


Figure 9: Inbound Application Call

The following diagram shows the flow of messages between the external application and Global M2M API Subsystem for an outbound application call:

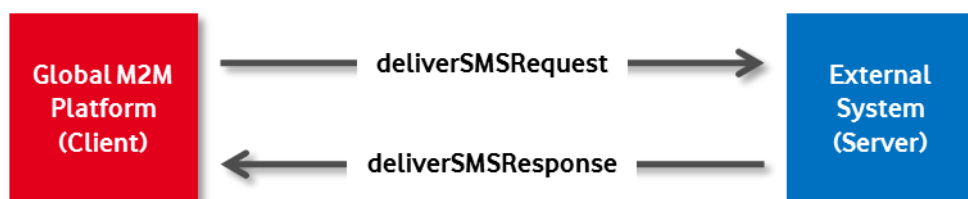


Figure 10: Outbound Application Call

### 6.2.4 Set APIs

When calling a "set" API to modify an existing entity, if a target field is to be blanked, then the element must be included in the XML message; if an element is missing from the XML message, it is left unchanged in the database; if an element is included in the XML message and has data, then the value in the database is overwritten with the new value.

## 6.3 Common

### 6.3.1 Prerequisites

#### 6.3.1.1 Retrieve

1. The user has been provisioned with a set of user credentials, authorised for the API.
2. The user has connectivity between their system and GDSP.

#### 6.3.1.2 Updates

1. The user has been provisioned with a set of user credentials, authorised for the setDeviceDetails API.
2. The user must have the necessary Read-Write data access privilege to make changes to data.
3. The user has connectivity between their system and GDSP

### 6.3.2 Retry/Fail Mechanism

If the call to this API failed, the response code received would indicate the type of failure.

These fall into 3 categories internal errors, permanent errors or communication failure.

1. If the error was due to an internal error then call it again after 1 minute. If the error persists retry after 10 minutes and again after 30 minutes.
2. If the error is a permanent error then a retry cannot be undertaken. Please check parameters used in the call.
3. If there is a communication failure, this indicates infrastructure issues in which case use the retry intervals outlined for internal errors.

### 6.3.3 Limitation

#### 6.3.3.1 Current

No Limitations

#### 6.3.3.2 Deprecated

As per latest web service

## 6.4 Code Example

When developing and using the External API the following approach should be taken whether for a GetXXX or SetXXX service:

- [Set Up port](#)
- [Set Header Inputs](#)
- [Set Body Parameters for getters and setters](#)
- [Get Resulting Response](#)
- [Get Major and Minor Codes from Response](#)
- [Get Parameters from Response](#)

**NOTE:** In order to describe each point GetDeviceDetails API will be used as an example

### 6.4.1 Set Up Port

In order to set up the web service connection initially the port needs to be set up:

```
GetDeviceDetailsService service = new GetDeviceDetailsService();  
port = service.getGetDeviceDetailsPort();
```

```
((BindingProvider) port).getRequestContext().put(BindingProvider.ENDPOINT_ADDRESS_PROPERTY,
                                                ENDPOINT +
                                                Constants.GET_DEVICE_DETAILS_SERVICE);
```

Where :

1. ENDPOINT = "http://SERVER:PORT/GDSPWebServices/"
2. SERVER = Server IP Address
3. Port = Server Port
4. GET\_DEVICE\_DETAILS\_SERVICE = "GetDeviceDetailsService";

### 6.4.2 Set Header Inputs

The credentials are described in each API request type that use the [GdspHeader](#) return type

```
GdspHeader gdspHeader = new GdspHeader();
GdspCredentials credentials = new GdspCredentials();
credentials.setUserId(UserID);
credentials.setCustomerId(Long.valueOf(CustId));
credentials.setPassword>Password());
gdspHeader.setGdspCredentials(credentials);
```

### 6.4.3 Set Body Parameters

These are described in the request type in each API.

```
GetDeviceDetails_Type parameters = new GetDeviceDetails_Type();
parameters.setDeviceId(deviceId);
```

### 6.4.4 Get Resulting Response

```
GetDeviceDetailsResponse result = port.getDeviceDetails(parameters, gdspHeader);
```

### 6.4.5 Get Major and Minor Codes from Response

For each API, this is detailed in the return types.

```
if (result != null) {
    respItem = result.getReturn();

    if (respItem != null) {
        ReturnCode rtnCode = respItem.getReturnCode();
    }
}
```

```

        if (rtnCode != null) {
            String majorCode = rtnCode.getMajorReturnCode();
            String minorCode = rtnCode.getMinorReturnCode();
        }
    } else {
        logger.debug(METHOD + "Fail: The returned GetDeviceDetailsResponseItem is null.");
    }
} else {
    logger.debug(METHOD + "Fail: The returned GetDeviceDetailsResponse is null.");
}
}

```

#### 6.4.6 Get Parameters from Response

For each API, this is detailed in the return types.

```

//Put each parameter in Map
private Map<String, String> returnedValuesMap = new TreeMap<String, String>();

if (result != null) {
    resItem = result.getReturn();
    if (resItem != null) {
        ReturnCode rtnCode = resItem.getReturnCode();
        if (rtnCode != null) {
            String majorCode = rtnCode.getMajorReturnCode();
            String minorCode = rtnCode.getMinorReturnCode();
            String baseCountry = resItem.getBaseCountry();
            String customAttribute1 = resItem.getCustomAttribute1();
            String customAttribute2 = resItem.getCustomAttribute2();
            String customAttribute3 = resItem.getCustomAttribute3();
            String customAttribute4 = resItem.getCustomAttribute4();
            String customAttribute5 = resItem.getCustomAttribute5();
            String customerServiceProfile = resItem.getCustomerServiceProfile();
            String deviceId = resItem.getDeviceId();
            TDeviceInformationList deviceInformationList = resItem.getDeviceInformationList();
            String imei = resItem.getImei();
            String state = resItem.getState();

            getReturnedValuesMap().put("MajorCode", majorCode);
            getReturnedValuesMap().put("MinorCode", minorCode);
            getReturnedValuesMap().put("baseCountry", baseCountry);

```

```

        getReturnedValuesMap0.put("customAttribute1", customAttribute1);
        getReturnedValuesMap0.put("customAttribute2", customAttribute2);
        getReturnedValuesMap0.put("customAttribute3", customAttribute3);
        getReturnedValuesMap0.put("customAttribute4", customAttribute4);
        getReturnedValuesMap0.put("customAttribute5", customAttribute5);
        getReturnedValuesMap0.put("customerServiceProfile", customerServiceProfile);
        getReturnedValuesMap0.put("deviceId", deviceId);
        getReturnedValuesMap0.put("imei ", imei);
        getReturnedValuesMap0.put("state ", state);

        List<TDeviceInformationItem> items = deviceInformationList.getDeviceInformationItem();
        for (int n = 0; n < items.size(); n++) {
            TDeviceInformationItem a = items.get(n);
            getReturnedValuesMap0.put(a.getItemName(), a.getItemValue());
        }
    }
} else {
    logger.debug(METHOD + "Fail: The returned GetDeviceDetailsResponseItem is null.");
}
} else {
    logger.debug(METHOD + "Fail: The returned GetDeviceDetailsResponse is null.");
}
}

```

## 6.5 Date / Time Format

dateTime fields must be specified in UTC, and ISO8601 compliant format as follows:

YYYY-MM-DDTHH24:MI:SS+00:00

For instance, for 15th December 2013 at 5:15PM UTC:

2013-12-15T17:15:00+00:00

## 6.6 Return Codes

The following tables provide lists of major and minor return codes that apply for all APIs. API specific return codes are listed against each API.

The major return codes as follows:

Major return Code	Description	API Specific
000	Request completed with normal happy path return. Alternate return paths are specified with the minor return code.	notifyDeviceInfo deliverSMS notifySMSDelivery



005	Invalid security context passed	notifyDeviceInfo deliverSMS notifySMSDelivery
100	Request has failed validation	notifyDeviceInfo deliverSMS notifySMSDelivery
999	Internal processing error. Please contact support help desk.	notifyDeviceInfo deliverSMS notifySMSDelivery

The minor return codes as follows:

Minor return Code	Description	API Specific
Success returns:	Occur with major return code = 000 Reserve minor return codes 0000 to 0999 for success returns, the remainder for error returns.	setDeviceDetailsv2 getDeviceStateList setDeviceDetails notifyDeviceInfo deliverSMS notifySMSDelivery

Minor return Code	Description	API Specific
Error returns:	Occur with major return code <> 000	setContactDetails getContactDetails getCustomerServiceProfileDetailsv3 setCustomerServiceProfileDetailsv4 cloneCustomerServiceProfilev4 getDeviceRegistrationDetails setDeviceCredentials updateDeviceCredentials submitWUTriggerv2 submitSMSv2 getDeviceStateList getUserDetails setUserDetails createUser setDeviceDetails submitSMS submitWUTrigger getCustomerServiceProfile Details setCustomerServiceProfile Details cloneCustomerServiceProfile setCustomerServiceProfile Detailsv2 cloneCustomerServiceProfilev2 setCustomerServiceProfile Detailsv3 cloneCustomerServiceProfilev3 getFilteredDeviceList getFilteredDeviceListv2 notifyDeviceInfo deliverSMS notifySMSDelivery

Minor return Code	Description	API Specific
0000	Normal happy path return	setDeviceDetailsv2 getDeviceStateList setDeviceDetails notifyDeviceInfo deliverSMS notifySMSDelivery
0102	The latest registration information is returned, but the network element is busy or unavailable, and cannot retrieve current information.	getDeviceRegistrationDetails
0103	Could not locate the specified customer service profile	getCustomerServiceProfileDetailsv3 getCustomerServiceProfile Details
3001	Any requested state or customer service profile change has succeeded, but there was a problem updating one of the other data elements.	setDeviceDetailsv2 setDeviceDetails
5000	Invalid customerCode	setCustomerDetailsv2 getTransactionList
5001	Invalid customerName Description	setCustomerDetailsv2
5027	Invalid Customer Id	Generic
5028	Invalid user (could not locate the specified user)	setUserDetails
5029	Invalid user name (when matchEntityIdentifier is not a valid user name, and matchEntityName is USER)	getTransactionList getUserDetails setUserDetails createUser
5037	Invalid access rights	setUserDetails createUser
5038	Invalid full name	setUserDetails createUser
5039	Invalid email address	setContactDetails setUserDetails createUser setCutoomerDetails
5050	Invalid contactPurpose	setContactDetails getContactDetails
5051	Invalid phone	setUserDetails createUser

Minor return Code	Description	API Specific
5058	Invalid address line	setUserDetails createUser
5059	Invalid custom attribute label	setCustomerDetailsv2 setDeviceDetailsv2 getFilteredDeviceListv3 setDeviceDetails getFilteredDeviceList getFilteredDeviceListv2
5061	Invalid tariff name	setCustomerServiceProfileDetailsv4 cloneCustomerServiceProfilev4 setCustomerServiceProfile Details cloneCustomerServiceProfile setCustomerServiceProfile Detailsv2 cloneCustomerServiceProfilev2 setCustomerServiceProfile Detailsv3 cloneCustomerServiceProfilev3
5063	Invalid provisioning profile name	setCustomerServiceProfileDetailsv4, cloneCustomerServiceProfilev4 setCustomerServiceProfile Details cloneCustomerServiceProfile setCustomerServiceProfile Detailsv2 cloneCustomerServiceProfilev2 setCustomerServiceProfile Detailsv3 cloneCustomerServiceProfilev3
5071	Invalid matchEntityName	getTransactionList
5084	Invalid device id	setDeviceDetailsv2 getTransactionList setDeviceDetails getDeviceLocationHistoryDetails
5085	Invalid ICCID	getFilteredDeviceListv3 getFilteredDeviceList getFilteredDeviceListv2

Minor return Code	Description	API Specific
5087	Invalid Customer Service Profile	setDeviceDetailsv2 setDeviceDetails
5088	Invalid RAG	getFilteredDeviceListv3 getFilteredDeviceList getFilteredDeviceListv2
5089	Invalid device state	setCustomerServiceProfileDetailsv4 cloneCustomerServiceProfilev4 setDeviceDetailsv2 getFilteredDeviceListv3 setDeviceDetails setCustomerServiceProfile Details cloneCustomerServiceProfile setCustomerServiceProfile Detailsv2 cloneCustomerServiceProfilev2 setCustomerServiceProfile Detailsv3 cloneCustomerServiceProfilev3 getFilteredDeviceList getFilteredDeviceListv2
5090	Invalid alert type	getFilteredDeviceListv3 getFilteredDeviceList getFilteredDeviceListv2
5091	Invalid customer order number	getFilteredDeviceListv3 getFilteredDeviceList getFilteredDeviceListv2
5099	Invalid IMEI	setDeviceDetailsv2 setDeviceDetails
5102	Invalid custom attribute	setDeviceDetailsv2 setDeviceDetails
5105	Both State and Customer Service Profile have been specified. Only one may be changed at any one time.	setDeviceDetailsv2 setDeviceDetails
5113	The SIM has not been provisioned	setDeviceDetailsv2 setDeviceDetails

Minor return Code	Description	API Specific
5116	The SIM cannot be moved to that CSP because the CSP has a base country specified, and the SIM has a different base country	setDeviceDetailsv2 setDeviceDetails
5132	Invalid sort field/sort field order direction combination	getFilteredDeviceListv3 getFilteredDeviceListv2
5133	Invalid sort field direction	getFilteredDeviceListv3 getFilteredDeviceListv2
5135	Invalid IPv4 address	setDeviceDetailsv2
5140	The GUI has been used to set multiple contacts for the given purpose. This API does not support the selection of a particular contact to update, and the request is rejected in that case.	setContactDetails
5141	The SIM is already in that state.	setDeviceDetailsv2 setDeviceDetails
5200	Invalid customer service profile name, or could not locate the specified customer service profile	cloneCustomerServiceProfilev4 getTransactionList cloneCustomerServiceProfile cloneCustomerServiceProfilev2 cloneCustomerServiceProfilev3
5201	Invalid customer service profile description	setCustomerServiceProfileDetailsv4 cloneCustomerServiceProfilev4 setCustomerServiceProfile Details cloneCustomerServiceProfile setCustomerServiceProfile Detailsv2 cloneCustomerServiceProfilev2 setCustomerServiceProfile Detailsv3 cloneCustomerServiceProfilev3

Minor return Code	Description	API Specific
5202	Invalid customer service profile name (could not locate the specified customer service profile)	getCustomerServiceProfileDetailsv3 setDeviceDetailsv2 getFilteredDeviceListv3 setDeviceDetails getCustomerServiceProfile Details setCustomerServiceProfile Details setCustomerServiceProfile Detailsv2 setCustomerServiceProfile Detailsv3 getFilteredDeviceList getFilteredDeviceListv2
5203	Invalid test mode volume limit	setCustomerServiceProfileDetailsv4 cloneCustomerServiceProfilev4 setCustomerServiceProfile Details cloneCustomerServiceProfile setCustomerServiceProfile Detailsv2 cloneCustomerServiceProfilev2 setCustomerServiceProfile Detailsv3 cloneCustomerServiceProfilev3
5204	Invalid test mode duration limit	setCustomerServiceProfileDetailsv4 cloneCustomerServiceProfilev4 setCustomerServiceProfile Details cloneCustomerServiceProfile setCustomerServiceProfile Detailsv2 cloneCustomerServiceProfilev2 setCustomerServiceProfile Detailsv3 cloneCustomerServiceProfilev3

Minor return Code	Description	API Specific
5206	Invalid unassigned indicator	setCustomerServiceProfileDetailsv4 setCustomerServiceProfileDetailsv2 setCustomerServiceProfileDetailsv3
5207	Invalid provisioning profile	setCustomerServiceProfileDetailsv4 cloneCustomerServiceProfilev4 setCustomerServiceProfileDetails cloneCustomerServiceProfile setCustomerServiceProfileDetailsv2 cloneCustomerServiceProfilev2 setCustomerServiceProfileDetailsv3 cloneCustomerServiceProfilev3
5208	Invalid base country	setCustomerServiceProfileDetailsv4 cloneCustomerServiceProfilev4 setDeviceDetailsv2 setDeviceDetails setCustomerServiceProfileDetails cloneCustomerServiceProfile setCustomerServiceProfileDetailsv2 cloneCustomerServiceProfilev2 setCustomerServiceProfileDetailsv3 cloneCustomerServiceProfilev3



Minor return Code	Description	API Specific
5209	Invalid tariff	setCustomerServiceProfileDetailsv4 cloneCustomerServiceProfilev4 setCustomerServiceProfile Details cloneCustomerServiceProfile setCustomerServiceProfile Detailsv2 cloneCustomerServiceProfilev2 setCustomerServiceProfile Detailsv3 cloneCustomerServiceProfilev3
5210	Invalid linked customer service profile	setCustomerServiceProfileDetailsv4 cloneCustomerServiceProfilev4 setCustomerServiceProfile Details cloneCustomerServiceProfile setCustomerServiceProfile Detailsv2 cloneCustomerServiceProfilev2 setCustomerServiceProfile Detailsv3 cloneCustomerServiceProfilev3
5211	Invalid rogue usage action	setCustomerServiceProfileDetailsv4 setDeviceDetailsv2 setCustomerServiceProfile Details setCustomerServiceProfile Detailsv2 setCustomerServiceProfile Detailsv3
5212	Invalid high usage action	setCustomerServiceProfileDetailsv4 setCustomerServiceProfile Details setCustomerServiceProfile Detailsv2 setCustomerServiceProfile Detailsv3

Minor return Code	Description	API Specific
5213	Invalid rogue usage monitoring period	setCustomerServiceProfileDetailsv4 cloneCustomerServiceProfilev4 setCustomerServiceProfile Details cloneCustomerServiceProfile setCustomerServiceProfile Detailsv2 cloneCustomerServiceProfilev2 setCustomerServiceProfile Detailsv3 cloneCustomerServiceProfilev3
5214	Invalid high usage monitoring period	setCustomerServiceProfileDetailsv4 cloneCustomerServiceProfilev4 setCustomerServiceProfile Details cloneCustomerServiceProfile setCustomerServiceProfile Detailsv2 cloneCustomerServiceProfilev2 setCustomerServiceProfile Detailsv3 cloneCustomerServiceProfilev3
5215	Invalid rogue usage threshold	setCustomerServiceProfileDetailsv4 cloneCustomerServiceProfilev4 setCustomerServiceProfile Details cloneCustomerServiceProfile setCustomerServiceProfile Detailsv2 cloneCustomerServiceProfilev2 setCustomerServiceProfile Detailsv3 cloneCustomerServiceProfilev3

Minor return Code	Description	API Specific
5216	Invalid high usage threshold	setCustomerServiceProfileDetailsv4 cloneCustomerServiceProfilev4 setCustomerServiceProfile Details cloneCustomerServiceProfile setCustomerServiceProfile Detailsv2 cloneCustomerServiceProfilev2 setCustomerServiceProfile Detailsv3 cloneCustomerServiceProfilev3
5217	Invalid post test mode state	setCustomerServiceProfileDetailsv4 cloneCustomerServiceProfilev4 setCustomerServiceProfile Details cloneCustomerServiceProfile setCustomerServiceProfile Detailsv2 cloneCustomerServiceProfilev2 setCustomerServiceProfile Detailsv3 cloneCustomerServiceProfilev3
5218	Invalid connect state – either a bad connect state has been specified, or a connect state other than X has been specified for a customer service profile with the unassigned indicator set to Y	setCustomerServiceProfileDetailsv4 cloneCustomerServiceProfilev4 setCustomerServiceProfile Details cloneCustomerServiceProfile setCustomerServiceProfile Detailsv2 cloneCustomerServiceProfilev2 setCustomerServiceProfile Detailsv3 cloneCustomerServiceProfilev3
5220	Invalid testModeSmsWakeupLimit	cloneCustomerServiceProfilev4 cloneCustomerServiceProfilev2 cloneCustomerServiceProfilev3
5221	Invalid testModeSmsMtLimit	cloneCustomerServiceProfilev4 cloneCustomerServiceProfilev2 cloneCustomerServiceProfilev3

Minor return Code	Description	API Specific
5222	Invalid testModeSmsMoLimit	cloneCustomerServiceProfilev4 cloneCustomerServiceProfilev2 cloneCustomerServiceProfilev3
5223	Invalid IMEI Match Rule	setCustomerServiceProfileDetailsv4 setCustomerServiceProfileDetailsv3
5224	Invalid IMEI Capture Rule	setCustomerServiceProfileDetailsv4 setCustomerServiceProfileDetailsv3
5225	Invalid IMEI Device Action	setCustomerServiceProfileDetailsv4 setCustomerServiceProfileDetailsv3
5227	Invalid TAC	setCustomerServiceProfileDetailsv4 cloneCustomerServiceProfilev4 cloneCustomerServiceProfilev2 setCustomerServiceProfileDetailsv3 cloneCustomerServiceProfilev3
5230	Invalid alert action	setCustomerServiceProfileDetailsv4 cloneCustomerServiceProfilev4 setCustomerServiceProfileDetailsv3 cloneCustomerServiceProfilev3
5231	Invalid alert monitoring period	setCustomerServiceProfileDetailsv4 cloneCustomerServiceProfilev4 setCustomerServiceProfileDetailsv3 cloneCustomerServiceProfilev3

Minor return Code	Description	API Specific
5232	Invalid input for an element accepting only Y or N Invalid yes/no indicator – unassignedIndicator, defaultSmsReplace	setCustomerDetailsv2, setCustomerServiceProfileDetailsv4 cloneCustomerServiceProfilev4 submitSMSv2 submitSMS setCustomerServiceProfile Details cloneCustomerServiceProfile setCustomerServiceProfile Detailsv2 cloneCustomerServiceProfilev2 setCustomerServiceProfile Detailsv3 cloneCustomerServiceProfilev3
5403	IMEI Capture Rule, Device Action and Alerting Action must all be set when IMEI Match Rule = Match Full IMEI	setCustomerServiceProfileDetailsv4 setCustomerServiceProfile Detailsv3
5404	IMEI Capture Rule, Device Action, Alerting Action and TAC must all be set when IMEI Match Rule = Match TAC	setCustomerServiceProfileDetailsv4 setCustomerServiceProfile Detailsv3
5406	Cannot make this update while SIMs belong to this customer service profile	setCustomerServiceProfileDetailsv4 setCustomerServiceProfile Detailsv2 setCustomerServiceProfile Detailsv3
5407	Illegal combination of threshold parameters. If a threshold is to be set, then all three threshold parameters must be set.	setCustomerServiceProfileDetailsv4 cloneCustomerServiceProfilev4 setCustomerServiceProfile Details cloneCustomerServiceProfile setCustomerServiceProfile Detailsv2 cloneCustomerServiceProfilev2 setCustomerServiceProfile Detailsv3 cloneCustomerServiceProfilev3

Minor return Code	Description	API Specific
5511	Invalid country code	setCustomerServiceProfileDetailsv4 cloneCustomerServiceProfilev4 setDeviceDetails setCustomerServiceProfile Details cloneCustomerServiceProfile setCustomerServiceProfile Detailsv2 cloneCustomerServiceProfilev2 setCustomerServiceProfile Detailsv3 cloneCustomerServiceProfilev3
5653	An attempt has been made to allocate a static IP address for a device, and that device belongs to a CSP that is associated with multiple APNs. This operation is not permitted.	setDeviceDetailsv2 setDeviceDetails
6002	Custom attribute disabled for customer	setCustomerDetailsv2 setDeviceDetailsv2 setDeviceDetails
7000	Null fields in Header	notifyDeviceInfo setDeviceDetailsv2 getDeviceStateList setDeviceDetails notifyDeviceInfo deliverSMS notifySMSDelivery
7001	Null fields in Body	notifyDeviceInfo setDeviceDetailsv2 getDeviceStateList setDeviceDetails notifyDeviceInfo deliverSMS notifySMSDelivery

Minor return Code	Description	API Specific
7002	Invalid password	setDeviceDetailsv2 getDeviceStateList setUserDetails createUser setDeviceDetails notifyDeviceInfo deliverSMS notifySMSDelivery
7003	deviceId does not exist or is not accessible by this user	setDeviceDetailsv2 setDeviceCredentials updateDeviceCredentials submitWUTriggerv2 setDeviceDetails submitWUTrigger
7004	Invalid userId	notifyDeviceInfo notifySMSDelivery
7005	Invalid triggerType	submitWUTriggerv2 submitWUTrigger
7006	Device not in correct state for requested operation	submitWUTriggerv2 submitWUTrigger
7007	Invalid userId	setDeviceDetailsv2 submitWUTriggerv2 getDeviceStateList setDeviceDetails submitWUTrigger notifyDeviceInfo deliverSMS notifySMSDelivery
7008	Invalid device userId	setDeviceCredentials
7009	Invalid device password	setDeviceCredentials updateDeviceCredentials
7010	Invalid sourceId	submitWUTriggerv2 submitSMSv2 submitSMS submitWUTrigger

Minor return Code	Description	API Specific
7011	Invalid device id	getDeviceDetails getDeviceHistory getDeviceRegistrationDetails setDeviceDetailsv2 setDeviceCredentials updateDeviceCredentials SubmitWUTriggerV2 submitSMSv2 getFilteredDeviceListv3 setDeviceDetails submitSMS submitWUTrigger getFilteredDeviceList getFilteredDeviceListv2 notifyDeviceInfo deliverSMS notifySMSDelivery
7012	Invalid retry flag	notifyDeviceInfo deliverSMS notifySMSDelivery
7013	Invalid connectState	notifyDeviceInfo notifySMSDelivery
7014	Invalid ipv4Address	notifyDeviceInfo notifySMSDelivery
7017	Invalid date	getTransactionList getDeviceLocationHistoryDetails
7023	Invalid state	setDeviceDetailsv2 setDeviceDetails
7025	Customer Service Profile could not be located	setDeviceDetailsv2 setDeviceDetails
7033	Invalid messageData	submitSMSv2 submitSMS deliverSMS



Minor return Code	Description	API Specific
7034	Invalid messageType	submitSMSv2 submitSMS deliverSMS
7035	Invalid messageUDH	submitSMSv2 deliverSMS
7039	Invalid SMS Priority	setCustomerServiceProfileDetailsv4 cloneCustomerServiceProfilev4 setCustomerServiceProfileDetailsv2 cloneCustomerServiceProfilev2 setCustomerServiceProfileDetailsv3 cloneCustomerServiceProfilev3
7040	Invalid validityPeriod	cloneCustomerServiceProfilev4 submitSMSv2 cloneCustomerServiceProfilev2 cloneCustomerServiceProfilev3
7041	Invalid replaceIfPresent	cloneCustomerServiceProfilev4 submitSMSv2 cloneCustomerServiceProfilev2
7100	Could not authenticate credentials	setDeviceDetailsv2 getDeviceStateList setDeviceDetails notifyDeviceInfo deliverSMS notifySMSDelivery
7200	Cannot change to this state	setDeviceDetailsv2 setDeviceDetails
7201	The SIM has not been provisioned	setDeviceDetailsv2 setDeviceDetails
7202	A state change is already pending for this SIM	setDeviceDetailsv2 setDeviceDetails
7205	The SIM cannot be moved due to an incompatible target APN or GHLR Template	setDeviceDetailsv2 setDeviceDetails

Minor return Code	Description	API Specific
7206	The SIM is changing state, cannot change at this time	setDeviceDetailsv2 setDeviceDetails
7207	The SIM has a pending Customer Service Profile change, further SIM changes are not possible	setDeviceDetailsv2 setDeviceDetails
7209	The SIM belongs to an Customer Service Profile which has the unassigned indicator	setDeviceDetailsv2 setDeviceDetails
7210	SIM is already linked to the target Customer Service Profile	setDeviceDetailsv2 setDeviceDetails
7213	The SIM is busy with another state change	setDeviceDetailsv2 setDeviceDetails
7216	The device has a pending registration update request. Please try again in a short time.	getDeviceRegistrationDetails
7218	An attempt has been made to move a device that has a static IP address to a CSP that a linked to a different APN. This is not possible, as the static IP address is linked to an APN. Remove the static IP address from the device and retry.	setDeviceDetailsv2 setDeviceDetails
7220	The target Customer Service Profile uses a different IMSI range	setDeviceDetailsv2 setDeviceDetails
7225	User is not authorised use this Customer Service Profile	setDeviceDetailsv2 setDeviceDetails
7226	User is not authorised to use source Customer Service Profile	setDeviceDetailsv2 setDeviceDetails
7227	User is not authorised to use target Customer Service Profile	setDeviceDetailsv2 setDeviceDetails
7235	It is not possible to select a linked profile for a tariff that has a zero volume limit	setDeviceDetailsv2 setDeviceDetails
7253	A customer service profile with the new name already exists	cloneCustomerServiceProfilev4 cloneCustomerServiceProfile cloneCustomerServiceProfilev2 cloneCustomerServiceProfilev3
7255	User already exists	createUser
9000	Report could not be generated. Please contact support	getReposrtList

Minor return Code	Description	API Specific
9001	Report could not be generated. Please contact support	getReposrtList
9002	Invalid report parameter	getReposrtList
9003	Report could not be generated. Please contact support	getReposrtList
9004	Report could not be generated. Please contact support	getReposrtList
9005	Report could not be generated. Please contact support	getReposrtList
9006	A partial report has been returned. A partial report is returned when there are too many rows matching the criteria entered.	getReport
9999	Internal error	getDeviceStateList notifyDeviceInfo deliverSMS notifySMSDelivery
Xxxx	Invalid MSISDN	getFilteredDeviceListv3

## 7 Inbound M2M Service Customer Business Services

This section serves details the inbound M2M Business Services that are provided to you to utilise. For each API the purpose is given as well as the detail of the outbound and inbound messages.

The Inbound API's are included in extWebService.wsdl

The table below explains the different fields of the APIs details.

Field	Description
Synopsis	One line overview of the API.
API Versioning:	Version of this API
Description	Detailed description of the API.
Purpose	The purpose/ reason of existence of this specific API.
Prerequisite	Preconditions to be in order to be able to call this API
Parameters & Return values	Details of input and output parameters along with description values that can be passed.
Use Cases scenarios	A use case scenario, describes a real-world example of how a customer application interact with the APIs. They describe the steps, events, and/or actions which occur during the interaction.
Related APIs Information	Information on the APIs that could be related to the AP being documented.
Error Messages	Any exceptions or errors that a user may encounter while using the API, this is different than the error codes.
Notes/ Warnings:	Special notes or warnings while using the API. "if any"
Retry Fail Mechanism	error condition, retry routine and number of retries.
Limitations on using the API	number of calls, threading and data type limitations

## 7.1 Customer Operations

### 7.1.1 getCustomerDetailsv2

**Version:** 2

**Description:** Provides a means of returning the details for a Customer from the Customer entity in the External API Data Model.

**Purpose:** This API is provided to allow Customer Systems to retrieve details recorded for them on the Global M2M Services Platform.

**Prerequisite:** [See common pre-requisite section](#)

**Request Parameters:**

Name	Description	Type
getCustomerDetailsv2		<a href="#">getCustomerDetailsv2</a>
gdspHeader	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

**Return Values:**

Name	Description	Type
getCustomerDetailsv2Response	Response object of this API	<a href="#">getCustomerDetailsv2Response</a>

**Use Case Scenario:** Users who need to view customer details will request a set of modifiable Customer data values, using the getCustomerDetailsv2 API, held by the M2M Service platform.

**Related APIs Information:**

getCustomerDetailsv2

**Error Messages:**

Error Codes:

Major EC: no specific major code.

Minor EC: no specific minor code.

**Retry/ Fail Mechanism**

[See Common Retry/Fail section](#)

**Limitation on Using the API:**

[See Common Limitations section](#)

### 7.1.2 setCustomerDetailsv2

**Version:** 2

**Description:** Provides a means of modifying those fields in the Customer entity that may be edited. Note: Only those fields included in the API invocation are updated.

**Purpose:** This API is provided to allow Customer Systems to retrieve details recorded for them on the Global M2M Services Platform.

**Prerequisite:** [See common pre-requisite section](#)

**Request Parameters:**

Name	Description	Type
setCustomerDetailsv2	This element contains the Customer info details	<a href="#">setCustomerDetailsv2</a>
gdspHeader	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

**Return Values:**

Name	Description	Type
setCustomerDetailsv2Response	Response object of this API	<a href="#">setCustomerDetailsv2Response</a>

**Use Case Scenario:** Users who need to edit customer details would update the Customer data values, using setCustomerDetailsv2, held by the M2M Service platform. The requested changes would be validated and the Central Database would be updated accordingly. However, the numbers of fields that are editable are limited by the user's access rights. Only users with Administrator access rights are able to edit cancel and save both the user and the company details.

**Related APIs Information:**

setCustomerDetailsv2

**Error Messages:**

Error Codes:

Major EC: no specific major code.

Minor EC: [5000](#), [5001](#), [5059](#), [5232](#), [6002](#)

**Retry/ Fail Mechanism:**

[See Common Retry/Fail section](#)

**Limitation on Using the API:**

[See Common Limitations section](#)

**7.1.3 getCustomerSimOrderList**

**Version:** 1

**Description:** This function provides a facility to request the M2M system to provide a list of device orders for the customer.

**Purpose:**

**Prerequisite:** [See common pre-requisite section](#)

**Request Parameters:**

Name	Description	Type
getCustomerSimOrderList	This element contains pageSize and pageNumber	<a href="#">getCustomerSimOrderList</a>
gdspHeader	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

**Return Values:**

Name	Description	Type
<a href="#">getCustomerSimOrderListResponse</a>	Response object of this API	<a href="#">getCustomerSimOrderListResponse</a>

**Use Case Scenario:** Users who wish to obtain a list of the SIMs ordered in a specific batch or on a certain date. The user's system invokes getCustomerSimOrderList and populates a drop down list then calls getFilteredDeviceList using the selected SIM order.

**Related APIs Information:**

getCustomerSimOrderList

**Error Messages:**

Error Codes:

Major EC: no specific major code.

Minor EC: no specific minor code.

**Retry/ Fail Mechanism:**

[See Common Retry/Fail section](#)

**Limitation on Using the API:**

[See Common Limitations section](#)

## 7.2 Contact Operations

### 7.2.1 getContactDetails

**Version:** 1

**Description:** Provides a means of returning the e-mail address (es) for a particular Contact Purpose from the Contact entity in the External API Data Model.

**Purpose:** This API is provided to allow Customer Systems to present lists of e-mail Contacts to their users.

**Prerequisite:** [See common pre-requisite section](#)

**Request Parameters:**

Name	Description	Type
<a href="#">getContactDetails</a>	This element contains contactPurpose.	<a href="#">getContactDetails</a>
<a href="#">gdspHeader</a>	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

**Return Values:**

Name	Description	Type
<a href="#">getContactDetailsResponse</a>	Response object of this API	<a href="#">getContactDetailsResponse</a>

**Use Case Scenario:** Users who need to view Contact e-mail addresses (if defined) would request a set of modifiable Contact data values held by the M2M Service platform using the getContactDetails API.

**Related APIs Information:**

getContactDetails

**Error Messages:**

Error Codes:

Major EC: no specific major code.

Minor EC: [Error returns, 5050](#)**Retry/ Fail Mechanism**[See Common Retry/Fail section](#)**Limitation on Using the API:**[See Common Limitations section](#)**7.2.2 setContactDetails****Version:** 1**Description:** Provides a means of modifying the Contact Purpose and e-mail address of a Contact in the Contact entity.**Purpose:** This API is provided to allow Customer Systems to update the Contact e-mail address for a Contact Purpose.**Prerequisite:** [See common pre-requisite section](#)**Request Parameters:**

Name	Description	Type
setContactDetails	This element contains contactPurpose and emailAddress.	<a href="#">setContactDetails</a>
gdspHeader	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

**Return Values:**

Name	Description	Type
setContactDetailsResponse	Response object of this API	<a href="#">setContactDetailsResponse</a>

**Use Case Scenario:** Authorised Users who need to view Contact e-mail addresses (if defined) would request a set of modifiable Contact data values held by the M2M Service platform using the setContactDetails API Service Profile Operations.**Related APIs Information:**

setContactDetails

**Error Messages:**

Error Codes:

Major EC: no specific major code.

Minor EC: [Error returns, 5039, 5050, 5140](#)**Retry/ Fail Mechanism**[See Common Retry/Fail section](#)



**Limitation on Using the API:**

[See Common Limitations section](#)

## 7.3 Service Profile Operations

### 7.3.1 getCustomerServiceProfileList

**Version:** 1

**Description:** This function provides a facility to request the M2M system to provide a list of customer service profiles for the requesting customer.

**Purpose:** Provides a means of returning a list of Customer Service Profiles for a Customer.

**Prerequisite:** [See common pre-requisite section](#)

**Request Parameters:**

Name	Description	Type
getCustomerServiceProfileList	This element contains contactPurpose and emailAddress.	<a href="#">getCustomerServiceProfileList</a>
gdspHeader	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

**Return Values:**

Name	Description	Type
getCustomerServiceProfileListResponse	Response object of this API	<a href="#">getCustomerServiceProfileListResponseBody</a>

**Use Case Scenario:** Users who need to view a list of valid Service Profiles available would use the getCustomerServiceProfileList API to request a set of modifiable Service Profile data values held by the M2M Service platform.

**Related APIs Information:**

getCustomerServiceProfileList

**Error Messages:**

Error Codes:

Major EC: no specific major code.

Minor EC: No specific minor codes.

**Retry/ Fail Mechanism**

[See Common Retry/Fail section](#)

**Limitation on Using the API:**

[See Common Limitations section](#)

### 7.3.2 getCustomerServiceProfileDetailsv3

**Version:** 3

**Description:** This function provides a facility to request the M2M system to return the full details of a customer service profile.

**Purpose:** Provides a means of returning the return of the full details for a specific Customer Service Profile.

**Prerequisite:** [See common prerequisite section](#)

**Request Parameters:**

Name	Description	Type
<code>getCustomerServiceProfileDetailsv3</code>	This element contains customerServiceProfileName	<a href="#">getCustomerServiceProfileDetailsv3</a>
<code>gdspHeader</code>	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

**Return Values:**

Name	Description	Type
<code>getCustomerServiceProfileDetailsv3Response</code>	Response object of this API	<a href="#">getCustomerServiceProfileDetailsv3Response</a>

**Use Case Scenario:** Users who has identified a customer service profile from the list available (by calling getCustomerServiceProfileList API) would need to call getCustomerServiceProfileDetailsv3 to get a set of modifiable Service Profile data values of how this service profile is configured.

**Related APIs Information:**

getCustomerServiceProfileDetailsv3

**Error Messages:**

Error Codes:

Major EC: no specific major code.

Minor EC: [Error returns; 0103, 5202](#)

**Retry/ Fail Mechanism**

[See Common Retry/Fail section](#)

**Limitation on Using the API:**

[See Common Limitations section](#)

### 7.3.3 setCustomerServiceProfileDetailsv4

**Version:** 4

**Description:** Provides a means of returning the e-mail address (es) for a particular Contact Purpose from the Contact entity in the External API Data Mode function provides a facility to request the M2M system to update one of its own customer service profile.

**Purpose:** Provides a means of returning the return of the full details for a specific Customer Service Profile.

**Prerequisite:** [See common prerequisite section](#)

**Request Parameters:**

Name	Description	Type
<code>setCustomerServiceProfileDetailsv4</code>		<a href="#">setCustomerServiceProfileDetailsv4</a>

Name	Description	Type
gdspHeader	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

**Return Values:**

Name	Description	Type
setCustomerServiceProfileDetailsv4Response	Response object of this API	<a href="#">setCustomerServiceProfileDetailsv4Response</a>

**Use Case Scenario:** Users who need to edit the Customer Service Profile values held by the M2M Service platform would use setCustomerServiceProfileDetailsv4. The requested changes would be validated and the Central Database would be updated accordingly. A user can change certain aspects of the Service Profile definition and the changes made to the Service Profile will apply to all SIMs associated with it.

**Related APIs Information:**

setCustomerServiceProfileDetailsv4

**Error Messages:**

Error Codes:

Major EC: no specific major code.

Minor EC: [Error returns: 5061, 5063, 5089, 5201, 5202, 5203, 5204, 5206, 5207, 5208, 5209, 5210, 5211, 5212, 5213, 5214, 5215, 5216, 5217, 5218, 5223, 5224, 5225, 5227, 5230, 5231, 5232, 5403, 5404, 5406, 5407, 5511, 7039](#)

**Retry/ Fail Mechanism**

[See Common Retry/Fail section](#)

**Limitation on Using the API:**

[See Common Limitations section](#)

**7.3.4 cloneCustomerServiceProfilev4**

**Version:** 4

**Description:** This function provides a facility to request the M2M system to copy from a source customer service profile, creating a new customer service profile. Any data elements that are not specified will receive the value from the source customer service profile, except for customerServiceProfileName and customerServiceProfileDescription, which must both be specified

**Purpose:** Provides a means of creating a new Customer Service Profile by copying the details of an existing source Customer Service Profile.

The new Customer Service Profile must defined be by providing new values for customerServiceProfileName and customerServiceProfileDescription, which must both be specified.

Any data elements that are not specified will receive the corresponding value from the source Customer Service Profile

**Prerequisite:** [See common pre-requisite section](#)

**Request Parameters:**

Name	Description	Type
cloneCustomerServiceProfilev4		<a href="#">cloneCustomerServiceProfilev4</a>
gdspHeader	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

**Return Values:**

Name	Description	Type
cloneCustomerServiceProfilev4Response	Response object of this API	<a href="#">cloneCustomerServiceProfilev4Response</a>

**Use Case Scenario:** Users who wish to create a new Customer Service Profile would use the cloneCustomerServiceProfilev4 API to clone an existing Customer Service Profile and then make any changes to the new profile configuration.

**Related APIs Information:**

CloneCustomerServiceProfilev4

**Error Messages:**

Error Codes:

Major EC: no specific major code.

Minor EC: [Error returns:](#), [5061](#), [5063](#), [5089](#), [5200](#), [5201](#), [5202](#), [5203](#), [5204](#), [5207](#), [5208](#), [5209](#), [5210](#), [5211](#), [5213](#), [5214](#), [5215](#), [5216](#), [5217](#), [5218](#), [5220](#), [5221](#), [5222](#), [5227](#), [5230](#), [5231](#), [5232](#), [5407](#), [5511](#), [7039](#), [7040](#), [7041](#), [7253](#).

**Retry/ Fail Mechanism**

[See Common Retry/Fail section](#)

**Limitation on Using the API:**

For best performance, please do not create more than fifty Customer Service Profiles

## 7.4 Device Operations

### 7.4.1 getDeviceDetails

**Version:** 1

**Description:** This API is provided to allow Customer Systems to retrieve detailed information for a specific Device, identified by its deviceId, which can be IMSI or ICCID. The information returned will be a fixed set of named fields of the customerInfov2 data type followed by a list of name/type/value triplets of information relating to the device.

**Purpose:** : This function provides a facility to request the M2M system to provide detailed information about a device.

**Prerequisite:** [See common pre-requisite section](#)

**Request Parameters:**

Name	Description	Type
getDeviceDetails	This element contains the device Id	<a href="#">getDeviceDetails</a>
gdspHeader	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

**Return Values:**

Name	Description	Type
getDeviceDetailsResponse	Response object of this API	<a href="#">getDeviceDetailsResponse</a>

**Use Case Scenario:** Users who need to take specific action on one of the devices based on the state of the device, will call the getDeviceDetails API, extract the state of the device from the response message and based on the state, the customer application will call submitSMSv2 to send some data to the device.

**Related APIs Information:**

getDeviceDetails

**Error Messages:**

Error Codes:

Major EC: no specific major code.

Minor EC: [7011](#).

**Retry/ Fail Mechanism:**

[See Common Retry/Fail section](#)

**Limitation on Using the API:**

[See Common Limitations section](#)

### 7.4.2 getDeviceHistory

**Version:** 1

**Description:** Provides a means of returning a list of attribute changes made to a specific Device.

**Purpose:** This API is provided to allow Customer Systems to retrieve a list of all the changes applied to a Device,

identified by its deviceId, which can be IMSI or ICCID, over a period of time. The information returned will be a series of rows containing:

- Time-stamp of the change
- Operation performed
- Name of the Customer Service Profile at the time of the change.
- State of the Device
- Base Country defined for the Device
- IMEI of the Device.

**Prerequisite:** [See common pre-requisite section](#)

**Request Parameters:**

Name	Description	Type
<code>getDeviceHistory</code>		<a href="#">getDeviceDetails</a>
<code>gdspHeader</code>	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

**Return Values:**

Name	Description	Type
<code>getDeviceHistoryResponse</code>	Response object of this API	<a href="#">getDeviceDetailsResponse</a>

**Use Case Scenario:** Users who want to view the history of state changes for a SIM data held by the M2M Service platform using the `getDeviceHistory` API.

**Related APIs Information:**

`getDeviceHistory`

**Error Messages:**

Error Codes:

Major EC: no specific major code.

Minor EC: [7011](#).

**Retry/ Fail Mechanism:**

[See Common Retry/Fail section](#)

**Limitation on Using the API:**

[See Common Limitations section](#)

### 7.4.3 `getDeviceRegistrationDetails`

**Version:** 1

**Description:** Provides a means of returning detailed mobile network registration information for a specific Device.

**Purpose:** This API is provided to allow Customer Systems to retrieve detailed information for a specific Device, identified by its deviceId, which can be IMSI or ICCID. The information returned will include the time-stamp of when the details were obtained from the network, followed by a list of device registration information items that

is network implementation specific.

**Prerequisite:** [See common pre-requisite section](#)

**Request Parameters:**

Name	Description	Type
<code>getDeviceRegistrationDetails</code>	This element contains deviceId	<a href="#">getDeviceRegistrationDetails</a>
<code>gdspHeader</code>	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

**Return Values:**

Name	Description	Type
<code>getDeviceRegistrationDetailsResponse</code>	Response object of this API	<a href="#">getDeviceRegistrationDetailsResponse</a>

**Use Case Scenario:** Users who want to retrieve data that is derived from the HLR record for the SIM will use the `getDeviceRegistrationDetails` API, this in turn can help in diagnosing any issues.

**Related APIs Information:**

`getDeviceRegistration`

**Error Messages:**

Error Codes:

Major EC: no specific major code.

Minor EC: [Error returns: 0102, 7011, 7216](#)

**Retry/ Fail Mechanism**

[See Common Retry/Fail section](#)

**Limitation on Using the API:**

This web service works by queuing a request to the network element that contains the device registration details. Once the request has been queued, the service waits for up to ten seconds for a response, and the request is not processed in that time, then the web service returns with an appropriate response code.

For optimal performance, do not issue more than one of these API calls at any one time - wait for the first call to complete before issuing another.

The list of device registration information items is network implementation specific, and IS SUBJECT TO CHANGE WITHOUT NOTICE.

The current information is as follows:



Section Name	Parameter	Comment
LOCATION VIEW	LOCSTAT	Location status for the subscriber – one of <ul style="list-style-type: none"> <li>• ABANDONED</li> <li>• AC_CONFLICT</li> <li>• ADMIN_CHANGED</li> <li>• ADMIN_DISABLED</li> <li>• BLACK_LISTED</li> <li>• DECSS7_SENDF</li> <li>• INVALID</li> <li>• ISD_DSD_FAIL</li> <li>• PURGED</li> <li>• REGISTERED</li> <li>• ROAM_ODB</li> <li>• ROAM_STOPPED</li> <li>• RR_UNSUPFEATURE</li> <li>• TIMEOUT</li> <li>• UNKNOWN_IN_VLR</li> <li>• UNSUP_POS</li> <li>• UNSUP_SVC_RESTR</li> </ul>
	LOCATION_OPERATION	Name of the operation that set the current location status – one of: <ul style="list-style-type: none"> <li>• ADM - admin. process</li> <li>• DSD - delete subscriber data</li> <li>• ISD - insert subscriber data</li> <li>• NMS - note MS present</li> <li>• PMS - purge MS</li> <li>• RSD - restore data</li> <li>• SNP - send parameters</li> <li>• UPL - update location /update location GPRS</li> </ul>
	ACTTIME	Time of the last registration attempt in format dd-mmm-yyyy hh:mm:ss
	FLAVOUR	GSM or GPRS
	PSI_STATUS	Provide Subscriber Information status which is one of: <ul style="list-style-type: none"> <li>• NOT_REGISTERED: Subscriber not registered on VLR/SGSN</li> <li>• NOT_SUPPORTED: VLR does not support EMAP and/or PSI</li> <li>• CHILD_FAIL: Failure to allocate child task, SEND_FAIL: Failure to send encoded PSI</li> <li>• VALID: Successful PSI request</li> <li>• FAILED: Failure due to: no response/invalid signal/abandoned/finish/error from VLR</li> <li>• VLR_BLACK: VLR is black listed, PSI initiation will fail</li> <li>• UNKNOWN_IN_VLR: VLR has no knowledge of subscriber.</li> </ul>
	PSI_LOC_AGE	the age of location information in minutes
	PSI_CELL_OR_SAI_ID	Cell ID or service area ID

Section Name	Parameter	Comment
	PSI_SUB_STATE	Current subscriber state– one of: <ul style="list-style-type: none"> <li>• ASSUMED_IDLE - Subscriber is idle (but may be out of contact).</li> <li>• CAMEL_BUSY - Subscriber is in BUSY state i.e. a call.</li> <li>• NOT_PROVIDED - The state is not supplied.</li> <li>• NOT_REACHABLE – The Subscriber is known to be unreachable.</li> </ul>
	PSI_NR_REASON	The reason why a subscriber was not reachable - one of: <ul style="list-style-type: none"> <li>• MS_PURGED - Purged by VLR/SGSN</li> <li>• IMSI_DETACHED - Subscriber explicitly IMSI detached</li> <li>• RESTRICTED_AREA - Subscriber is roamed into area where service is restricted</li> <li>• NOT_REGISTERED - Subscriber is not registered</li> <li>• INVALID - No Reason for 'Not Reachable' is available</li> </ul>

#### 7.4.4 setDeviceDetailsv2

**Version:** 2

**Description:** Provides a means of modifying a restricted set of fields for a specific Device.

**Purpose:** This API is provided to allow Customer Systems to update details of a Device they own, identified by its deviceId, which can be IMSI or ICCID. The information that may be updated is listed below. Only those fields provided in the API invocation will be updated.

- deviceId
- customerServiceProfile
- state
- imei
- baseCountry
- customAttribute1
- customAttribute2
- customAttribute3
- customAttribute4
- customAttribute5
- staticIpAddress

Note:

- In a single invocation only one of customerServiceProfile or state may be changed.
- baseCountry can only be changed if the customerServiceProfile does not have a base country set.

**Prerequisite:** [See common pre-requisite section](#)

**Request Parameters:**

Name	Description	Type
setDeviceDetailsv2		<a href="#">setDeviceDetailsv2</a>

Name	Description	Type
<a href="#">gdspHeader</a>	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

**Return Values:**

Name	Description	Type
<a href="#">setDeviceDetailsv2Response</a>	Response object of this API	<a href="#">setDeviceDetailsv2Response</a>

**Use Case Scenario:** Users who need to edit SIM details allocated to their account would update the device values held by the M2M Service platform using the setDeviceDetailsv2 API. The requested changes would be validated and the Central Database would be updated accordingly.

**Related APIs Information:**

getDeviceDetailsv2

**Error Messages:**

Error Codes:

Major EC: no specific major code.

Minor EC: [Success returns: 0000](#), [Error returns: 3001, 5059, 5084, 5087, 5089, 5099, 5102, 5105, 5113, 5116, 5135, 5141, 5202, 5208, 5511, 5653, 6002, 7000, 7001, 7002, 7003, 7007, 7011, 7023, 7025, 7100, 7200, 7201, 7202, 7205, 7206, 7207, 7209, 7210, 7213, 7218, 7220, 7225, 7226, 7227](#)

**Retry/ Fail Mechanism**

[See Common Retry/Fail section](#)

**Limitation on Using the API:**

If this is used to update custom attributes, IMEI, static IP address, or base country alone, then no limitations.

If the device state, or the Customer Service Profile, are changed, then for optimal performance, do not issue more than ten of these web service requests concurrently, and wait for the issued web service requests to complete prior to issuing new requests.

**7.4.5 setDeviceCredentials****Version: 1**

**Description:** This function provides a facility to request the GDSP system to create a new device Credentials record for an IMSI belonging to a customer. It accepts a deviceId, a userId and an initial password. The outcome of the request is returned in the response message.

The password in request message is unencrypted. A hash value of the password is calculated using SHA-1 and the result is stored on GDSP database. The unencrypted password is not kept on the database.

**Purpose:** Provides a means of creating a new device credentials record for an IMSI belonging to you.

It accepts a deviceId, a userId and an initial password. The password in the request should be unencrypted. A hash value of the password is calculated using SHA-2 and the result is stored in the Global M2M Service Platform database.

**Prerequisite:** [See common pre-requisite section](#)

**Request Parameters:**

Name	Description	Type
setDeviceCredentials		<a href="#">setDeviceDetailsv2</a>
gdspHeader	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

**Return Values:**

Name	Description	Type
setDeviceCredentialsResponse	Response object of this API	<a href="#">setDeviceCredentialsResponse</a>

**Use Case Scenario:** User customer systems who want to create a new set of credentials for their Device identified by its deviceId, which can be IMSI or ICCID held by the M2M Service platform. The requested changes will be validated and the Central Database would be updated accordingly using the setDeviceCredentials API.

**Related APIs Information:**

setDeviceCredentials

**Error Messages:**

Error Codes:

Major EC: no specific major code.

Minor EC: [Error returns](#), [7003](#), [7008](#), [7009](#), [7011](#)

**Retry/ Fail Mechanism**

[See Common Retry/Fail section](#)

**Limitation on Using the API:**

[See Common Limitations section](#)

**7.4.6 updateDeviceCredentials**

**Version:** 1

**Description:** Allows the updating of the password of a device Credentials record for an IMSI belonging to the Customer.

It accepts a deviceId and a new password. The password in the request should be unencrypted. A hash value of the password is calculated using SHA-1 and the result is stored on the Global M2M Service Platform database.

**Purpose:** This API is provided to allow Customer Systems to modify the credentials for a Device they own, identified by its deviceId, which can be IMSI or ICCID.

**Prerequisite:** [See common pre-requisite section](#)

**Request Parameters:**

Name	Description	Type
updateDeviceCredentials		<a href="#">updateDeviceCredentials</a>
gdspHeader	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

**Return Values:**

Name	Description	Type
updateDeviceCredentialsResponse	Response object of this API	<a href="#">updateDeviceCredentialsResponse</a>

**Use Case Scenario:** User customer systems who want to improve an existing set of credentials for a Device they own, identified by its deviceId, which can be IMSI or ICCID held by the M2M Service platform using the updateDeviceCredentials API. The requested changes would be validated and the Central Database would be updated accordingly.

**Related APIs Information:**

updateDeviceCredentials

**Error Messages:**

Error Codes:

Major EC: no specific major code.

Minor EC: [Error returns: 7003, 7009, 7011](#)

**Retry/ Fail Mechanism**

[See Common Retry/Fail section](#)

**Limitation on Using the API:**

[See Common Limitations section](#)

### 7.4.7 submitWUTriggerv2

**Version:** 2

**Description:** This function provides a facility to request the M2M system to execute an SMS Message or Circuit-Switch Call 'wake-up' trigger to a specific device.

It accepts a deviceId, wake-up type, sourceId, priority, validityPeriod, replaceIfPresent as input parameters. An SMS-MT or CSD-call, depending on the wake-up type, is made to the SIM with the specified IMSI and the results are returned in the response message.

When executing an SMS-MT wake-up, a successful response from this API indicates that the SMS was submitted successfully, not that it was delivered.

**Purpose:** This API is provided to allow a Customer System to send a wake-up trigger to a Device identified by its deviceId, which can be IMSI or ICCID. Currently, the only wake-up trigger mechanism supported is SMS.

**Prerequisite:** [See common pre-requisite section](#)

**Request Parameters:**

Name	Description	Type
submitWUTriggerv2		<a href="#">submitWUTriggerv2</a>
gdspHeader	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

**Return Values:**

Name	Description	Type
submitWUTriggerv2Response	Response object of this API	<a href="#">submitWUTriggerv2Response</a>

**Use Case Scenario:** An application in a metering company uses the submitWUTriggerv2 API to make the device initiate a pdp (packet data protocol) session with the customer server to start send readings from the meter devices. On successful completion, an SMS is sent updating the transaction records and the Call Data Records present for the SMS-MT and for the delivery notification. Otherwise, a failure response is returned and no SMS is transmitted.

**Related APIs Information:**

submitWUTriggerv2

**Error Messages:**

Error Codes:

Major EC: no specific major code.

Minor EC: [Error returns](#); [7003](#), [7005](#), [7006](#), [7007](#), [7010](#), [7011](#)

**Retry/ Fail Mechanism:**

[See Common Retry/Fail section](#)

**Limitation on Using the API:**

- When executing an SMS-MT wake-up, a successful response from this API indicates that the SMS was submitted successfully, not that it was delivered.
- The M2M Device must support receipt of a wake-up trigger.

## 7.4.8 submitSMSv2

**Version:** 2

**Description:** Allows submission of a request for a short message to be delivered to a target device.

**Purpose:** This API is provided to allow a Customer System to send a text message to a Device identified by its deviceld, which can be IMSI or ICCID. For each message accepted, a delivery receipt will be requested from the SMSC. The delivery receipt information will be stored in the Global M2M Service Platform database, and, subject to configuration, may result in a subsequent notifySMSDelivery web service invocation.

**Prerequisite:** [See common pre-requisite section](#)

**Request Parameters:**

Name	Description	Type
submitSMSv2		<a href="#">submitSMSv2</a>
gdspHeader	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

**Return Values:**

Name	Description	Type
submitSMSv2Response	Response object of this API	<a href="#">submitSMSv2Response</a>

**Use Case Scenario:** Users who want to initiate a text message to be sent to a device using the submitSMSv2 API. On successful transmission a delivery receipt will be requested from the SMSC. The delivery receipt information will be stored in the Global M2M Service Platform database, and, subject to configuration, may result in a subsequent notifySMSDelivery web service invocation.

**Related APIs Information:**

submitSMSv2

**Error Messages:**

Error Codes:

Major EC: no specific major code.

Minor EC: [Error returns](#), [5232](#), [7010](#), [7011](#), [7033](#), [7034](#), [7035](#), [7039](#), [7040](#), [7041](#)**Retry/ Fail Mechanism:**[See Common Retry/Fail section](#)**Limitation on Using the API:**

A successful response from this web service indicates that the SMS was submitted successfully, not that it was delivered.

**7.4.9 getFilteredDeviceListv4****Version:** 4**Description:** Allows a list of devices to be requested, according to filter parameters set in the request message.

Examples filter parameters include:

- imsi
- customerServiceProfileName;
- deviceState;
- customerOrderNumber;
- etc.

**Purpose:** This API is provided to allow Customer Systems to retrieve a list of Devices filtered by one or more of the Device's parameters; e.g. customerServiceProfileName, deviceState, etc.

**Prerequisite:** [See common pre-requisite section](#)**Request Parameters:**

Name	Description	Type
<a href="#">getFilteredDeviceListv4</a>		<a href="#">getFilteredDeviceListv4</a>
<a href="#">gdspHeader</a>	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

**Return Values:**

Name	Description	Type
<a href="#">getFilteredDeviceListv4Response</a>	Response object of this API	<a href="#">getFilteredDeviceListResponse</a>

**Use Case Scenario:** Users who need to view a list of Devices filtered by one or more of the Device's parameters would request a set of values, using the getFilteredDeviceListv3 API, held by the M2M Service platform.

**Related APIs Information:**

getFilteredDeviceListv3

**Error Messages:**

Error Codes:

Major EC: no specific major code.

Minor EC: [Error returns](#); [5059](#), [5085](#), [5088](#), [5089](#), [5090](#), [5091](#), [5132](#), [5133](#), [5202](#), [7011](#).

### Retry/ Fail Mechanism

[See Common Retry/Fail section](#)

### Limitation on Using the API:

For optimal performance, use a page size of fifty. Larger page sizes will work, but the web service will not respond as quickly.

## 7.4.10 `getDeviceLocationHistoryDetails`

**Version:** 1

**Description:** Provides a means of returning a list of device location changes during the period provided.

**Purpose:** This API is provided to allow Customer Systems to retrieve a list of all the location history details of a Device, identified by its deviceId, which can be IMSI or ICCID, over a period of time. The information returned will be a series of rows containing:

- area of the device
- country where the device is located
- direction of movement of the device.
- distance from a location of the device
- latitude of the location
- longitude of the location
- msisdn of the device
- radius in meters within which the device is located
- speed of the movement of the device
- status of the device
- street where the device is located
- timestamp at which the device location was retrieved

**Prerequisite:** [See common pre-requisite section](#)

### Request Parameters:

Name	Description	Type
<code>getDeviceLocationHistoryDetails</code>		<a href="#">getDeviceLocationHistoryDetails</a>
<code>gdspHeader</code>	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

### Return Values:



Name	Description	Type
<a href="#">getDeviceLocationHistoryDetailsResponse</a>	Response object of this API	<a href="#">getDeviceLocationHistoryDetailsResponse</a>

**Use Case Scenario:** Users who want to view the Location history of state changes for a SIM data held by the M2M Service platform using the getDeviceLocationHistoryDetails API.

**Related APIs Information:**

[getDeviceLocationHistoryDetails](#)

**Error Messages:**

Error Codes:

Major EC: no specific major code.

Minor EC: [5084](#), [7017](#)

**Retry/ Fail Mechanism:**

[See Common Retry/Fail section](#)

**Limitation on Using the API:**

[See Common Limitations section](#)

## 7.5 Utility Operations

In order to support the other functions, some utility functions are necessary. These are described in this section.

### 7.5.1 getTariffList

**Version:** 1

**Description:** Allows you to request a list of tariffs available to you.

Note: When submitting changes to a Customer Service Profile, a valid tariff from this list must be provided.

**Purpose:** This function provides a facility to request the M2M system to provide a list of tariffs available to the customer. When submitting changes to a service profile, a valid tariff from this list must be provided.

**Prerequisite:** [See common pre-requisite section](#)

**Request Parameters:**

Name	Description	Type
getTarrifList	It has no children	<a href="#">getTariffList</a>
gdspHeader	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

**Return Values:**

Name	Description	Type
getTarrifListResponse	Response object of this API	<a href="#">getTariffListResponse</a>

**Use Case Scenario:** When changes are made to a Customer Service Profile, Users need to get a list of tariffs that are derived from the HLR record for the SIM using the getTariffList API.

**Related APIs Information:**

getTariffList

**Error Messages:**

Error Codes:

Major EC: no specific major code.

Minor EC: no specific minor code.

**Retry/ Fail Mechanism**

[See Common Retry/Fail section](#)

**Limitation on Using the API:**

[See Common Limitations section](#)

### 7.5.2 getBaseCountryList

**Version:** 1

**Description:** Allows you to request a list of base countries for your service. That is, those countries where you are allowed to have M2M Services.

Note: When submitting changes to the base country attribute of a Customer Service Profile or a Device, a valid country from this list must be provided.

**Purpose:** This function provides a facility to request the M2M system to provide a list of base countries for a customer. When submitting changes to the base country attribute of a service profile or a device, a valid country from this list must be provided.

**Prerequisite:** [See common pre-requisite section](#)

**Request Parameters:**

Name	Description	Type
<a href="#">getBaseCountryList</a>	It has no children	<a href="#">getBaseCountryList</a>
<a href="#">gdspHeader</a>	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

**Return Values:**

Name	Description	Type
<a href="#">getBaseCountryListResponse</a>	Response object of this API	<a href="#">getBaseCountryListResponse</a>

**Use Case Scenario:** When changes are made to a Customer Service Profile or a SIM, the user's system invokes the [getBaseCountryList](#) API to populate a drop down list of base countries that are derived from the HLR record for the SIM.

**Related APIs Information:**

[getBaseCountryList](#)

**Error Messages:**

Error Codes:

Major EC: no specific major code.

Minor EC: no specific minor code.

**Retry/ Fail Mechanism**

[See Common Retry/Fail section](#)

**Limitation on Using the API:**

[See Common Limitations section](#)

### 7.5.3 [getProvisioningProfileList](#)

**Version:** 1

**Description:** Allows you to request a list of provisioning profiles available to you.

**Note:** When submitting changes to a Customer Service Profile, a valid provisioning profile from this list must be provided.

**Purpose:** This function provides a facility to request the M2M system to provide a list of provisioning profiles for a customer. When submitting changes to a service profile, a valid provisioning profile from this list must be provided.

**Prerequisite:** [See common pre-requisite section](#)

**Request Parameters:**

Name	Description	Type
<a href="#">getProvisioningProfileList</a>	It has no children	<a href="#">getProvisioningProfileList</a>
<a href="#">gdspHeader</a>	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

**Return Values:**

Name	Description	Type
<a href="#">getProvisioningProfileListResponse</a>	Response object of this API	<a href="#">getProvisioningProfileListResponse</a>

**Use Case Scenario:** When changes are made to a Customer Service Profile or a SIM, the user's system invokes the [getProvisioningProfileList](#) API to populate a drop down list of provisioning profiles that are available.

**Related APIs Information:**

[getProvisioningProfileList](#)

**Error Messages:**

Error Codes:

Major EC: no specific major code.

Minor EC: no specific minor code.

**Retry/ Fail Mechanism**

[See Common Retry/Fail section](#)

**Limitation on Using the API:**

[See Common Limitations section](#)

**7.5.4 [getDeviceStateList](#)**

**Version:** 1

**Description:** Allows you retrieve a list of states for a Device.

Note: When submitting changes to a Customer Service Profile, or a Device, a valid state from this list must be provided.

**Purpose:** This function provides a facility to request the M2M system to provide a list of states. When submitting changes to a service profile, or a device, a valid state from this list must be provided. Additional business rules apply to changes to the state of a device.

**Prerequisite:** [See common pre-requisite section](#)

**Request Parameters:**

Name	Description	Type
<a href="#">getDeviceStateList</a>	It has no children	<a href="#">getDeviceStateList</a>
<a href="#">gdspHeader</a>	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

**Return Values:**

Name	Description	Type
<a href="#">getDeviceStateListResponse</a>	Response object of this API	<a href="#">getDeviceStateListResponse</a>

**Use Case Scenario:** When changes are made to a Customer Service Profile or a SIM, The user's system may invoke getDeviceStateList API to populate a drop down list of states that are derived from the HLR record for the SIM.

**Related APIs Information:**

getDeviceStateList

**Error Messages:**

Error Codes:

Major EC: no specific major code.

Minor EC: [Success returns: 0000](#), [Error returns: 7000, 7001, 7002, 7007, 7100, 9999](#)

**Retry/ Fail Mechanism**

[See Common Retry/Fail section](#)

**Limitation on Using the API:**

[See Common Limitations section](#)

### 7.5.5 [getVpnGroupList](#)

**Version:** 1

**Description:** Allows you retrieve a list of Group VPN's for a Device.

Note: When submitting changes to a Customer Service Profile, or a Device, a valid Group VPN from this list must be provided.

**Purpose:** This function provides a facility to request the M2M system to provide a list of VPN Groups available to the customer. When submitting changes to a service profile, a valid VPN Group from this list must be provided.

**Prerequisite:** [See common pre-requisite section](#)

**Request Parameters:**

Name	Description	Type
<a href="#">getVpnGroupList</a>		<a href="#">getVpnGroupList</a>
<a href="#">gdspHeader</a>	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

**Return Values:**

Name	Description	Type
<a href="#">getVpnGroupListResponse</a>	Response object of this API	<a href="#">getVpnGroupListResponse</a>

**Use Case Scenario:** When changes are made to a Customer Service Profile or a SIM, the user's system may invoke the getVpnGroupList API to populate a drop down list of VPN Groups for a SIM.

**Related APIs Information:**

getVpnGroupList

**Error Messages:**

Error Codes:

Major EC: no specific major code.

Minor EC: no specific minor code.

**Retry/ Fail Mechanism**

[See Common Retry/Fail section](#)

**Limitation on Using the API:**

[See Common Limitations section](#)

## 7.6 Transaction Operations

### 7.6.1 getTransactionList

**Version:** 1

**Description:** Provides a facility to return a list of transactions that have occurred in a given date period, for a particular Customer.

**Purpose:** Allows you to request a list of transactions that have occurred in a given date period, for a particular Customer.

**Prerequisite:** [See common pre-requisite section](#)

**Request Parameters:**

Name	Description	Type
<a href="#">getTransactionList</a>		<a href="#">getTransactionList</a>
<a href="#">gdspHeader</a>	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

**Return Values:**

Name	Description	Type
<a href="#">getTransactionListResponse</a>	Response object of this API	<a href="#">getTransactionListResponse</a>

**Use Case Scenario:** Users who need to view list of transactions would request it using the getTransactionList API for a specific period held by the M2M Service platform.

**Related APIs Information:**

getTransactionList

**Error Messages:**

Error Codes:

Major EC: no specific major code.

Minor EC: [Error returns:](#), [5000](#), [5029](#), [5071](#), [5084](#), [5200](#), [7017](#)

**Retry/ Fail Mechanism**

[See Common Retry/Fail section](#)

**Limitation on Using the API:**

To maximise performance, restrict the page size to a maximum of fifty.

## 7.7 Reporting Operations

### 7.7.1 getReportList

**Version:** 1

**Description:** Allows you to request a list of all reports that are available to the requester.

**Purpose:** This function provides a facility to request the M2M system to provide a list of all reports in the system that are available to the requesting customer.

**Prerequisite:** [See common pre-requisite section](#)

**Request Parameters:**

Name	Description	Type
getReportList	It has no Children	<a href="#">getReportList</a>
gdspHeader	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

**Return Values:**

Name	Description	Type
getReportListResponse	Response object of this API	<a href="#">getReportListResponse</a>

**Use Case Scenario:** Users who need to retrieve a list of Reports to which they have access, for presentation to their users, would use the getReportList API. The list of reports returned contains the name and the description of the report.

**Related APIs Information:**

getReportList

**Error Messages:**

Error Codes:

Major EC: no specific major code.

Minor EC: [Error returns:](#), [9000](#), [9001](#), [9002](#), [9003](#), [9004](#), [9005](#)

**Retry/ Fail Mechanism**

[See Common Retry/Fail section](#)

**Limitation on Using the API:**

[See Common Limitations section](#)

### 7.7.2 getReportDetails

**Version:** 1

**Description:** Allows you to request the details of a specific report; e.g. the necessary input parameters, in order that a request may subsequently be made to generate the report.

**Purpose:** This function provides a facility to request the M2M system to provide details of specific report, in order that a request may subsequently be made to generate the report

**Prerequisite:** [See common pre-requisite section](#)

**Request Parameters:**



Name	Description	Type
<a href="#">getReportDetails</a>	This element contains reportName	<a href="#">getReportDetails</a>
<a href="#">gdspHeader</a>	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

**Return Values:**

Name	Description	Type
<a href="#">getReportDetailsResponse</a>	Response object of this API	<a href="#">getReportDetailsResponse</a>

**Use Case Scenario:** Users who need to retrieve details for a Report to which they have access, would use the getReportDetails API. Typically, this API will be used after a User has selected a Report from the list returned by the getReportList API.

**Related APIs Information:**

getReportDetails

**Error Messages:**

Error Codes:

Major EC: no specific major code.

Minor EC: [Error returns: 9000, 9001, 9002, 9003, 9004, 9005](#)

**Retry/ Fail Mechanism**

[See Common Retry/Fail section](#)

**Limitation on Using the API:**

[See Common Limitations section](#)

### 7.7.3 getReport

**Synopsis**

**Version:** 1

**Description:** Allows a report to be executed using specific input parameters.

**Purpose:** This function provides a facility to request the M2M system to provide a list of all reports in the system that are available to the requesting customer.

**Prerequisite:** [See common pre-requisite section](#)

**Request Parameters:**

Name	Description	Type
<a href="#">getReport</a>	This element contains no children	<a href="#">getReport</a>
<a href="#">gdspHeader</a>	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

**Return Values:**

Name	Description	Type
<a href="#">getReportResponse</a>	Response object of this API	<a href="#">getReportResponse</a>

**Use Case Scenario:** Users who need to retrieve a specific Report to which they have access to, would use the getReport API. Typically, this API will be used after a User has defined the necessary Report parameters using the list returned returned in the getReportDetails API.

**Related APIs Information:**

getReport

**Error Messages:**

Error Codes:

Major EC: no specific major code.

Minor EC: [Success returns, 9006](#), [Error returns:, 9000, 9001, 9002, 9003, 9004, 9005](#).

**Retry/ Fail Mechanism**

[See Common Retry/Fail section](#)

**Limitation on Using the API:**

For maximum performance, do not issue more than ten concurrent getReport web service requests.

## 7.8 User Functions

### 7.8.1 getUserList

**Version:** 1

**Description:** Allows you to retrieve a list of users available to a Customer.

**Purpose:** This function provides a facility to request the M2M system to return the list of users available to the customer.

**Prerequisite:** [See common pre-requisite section](#)

**Request Parameters:**

Name	Description	Type
getUserList	This element contains pageSize and pageNumber	<a href="#">getUserList</a>
gdspHeader	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

**Return Values:**

Name	Description	Type
getUserListResponse	Response object of this API	<a href="#">getUserListResponse</a>

**Use Case Scenario:** Customers who need to retrieve a list of users to which they have access would use the getUserList API.

**Related APIs Information:**

getUserList

**Error Messages:**

Error Codes:

Major EC: no specific major code.

Minor EC: no specific minor code.

**Retry/ Fail Mechanism**

[See Common Retry/Fail section](#)

**Limitation on Using the API:**

[See Common Limitations section](#)

### 7.8.2 getUserDetails

**Version:** 1

**Description:** Allows you to return full details for a specified Global M2M Service user.

**Purpose:** This function provides a facility to request the M2M system to return full details for a specified user.

**Prerequisite:** [See common pre-requisite section](#)

**Request Parameters:**

Name	Description	Type
getUserDetails	This element contains userName	<a href="#">getUserDetails</a>

Name	Description	Type
<b>gdspHeader</b>	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

**Return Values:**

Name	Description	Type
<b>getUserDetailsResponse</b>	Response object of this API	<a href="#">getUserDetailsResponse</a>

**Use Case Scenario:** Users who need to retrieve a list of Global M2M Service user to which they have access would use the getUserDetails API.

**Related APIs Information:**

getUserDetails

**Error Messages:**

Error Codes:

Major EC: no specific major code.

Minor EC: [Errors returns](#), [5029](#)

**Retry/ Fail Mechanism**

[See Common Retry/Fail section](#)

**Limitation on Using the API:**

[See Common Limitations section](#)

**7.8.3 setUserDetails**

**Version:** 1

**Description:** Allows you to change details for a specific Global M2M Service user.

**Purpose:** This function provides a facility to request the M2M system to change details for a specific user.

**Prerequisite:** [See common pre-requisite section](#)

**Request Parameters:**

Name	Description	Type
<b>setUserDetails</b>		<a href="#">setUserDetails</a>
<b>gdspHeader</b>	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

**Return Values:**

Name	Description	Type
<b>setUserDetailsResponse</b>	Response object of this API	<a href="#">setUserDetailsResponse</a>

**Use Case Scenario:** Users who need to update details for a specified Global M2M Service user to which they have access would use the setUserDetails API.

**Related APIs Information:**

setUserDetails

**Error Messages:**

Error Codes:

Major EC: no specific major code.

Minor EC: [Errors returns;](#) [5028](#), [5029](#), [5037](#), [5038](#), [5039](#), [5051](#), [5058](#), [7002](#)**Retry/ Fail Mechanism**[See Common Retry/Fail section](#)**Limitation on Using the API:**[See Common Limitations section](#)**7.8.4 createUser****Version:** 1**Description:** Allows you to create a Global M2M Service user.**Purpose:** This function provides a facility to request the M2M system to create a user.**Prerequisite:** [See common pre-requisite section](#)**Request Parameters:**

Name	Description	Type
<a href="#">createUser</a>		<a href="#">createUser</a>
<a href="#">gdspHeader</a>	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

**Return Values:**

Name	Description	Type
<a href="#">createUserResponse</a>	Response object of this API	<a href="#">createUserResponse</a>

**Use Case Scenario:** Users who need to create a new Global M2M Service user would use the createUser API.**Related APIs Information:**

createUser

**Error Messages:**

Error Codes:

Major EC: no specific major code.

Minor EC: [Errors returns;](#) [5029](#), [5037](#), [5038](#), [5039](#), [5051](#), [5058](#), [7002](#), [7255](#)**Retry/ Fail Mechanism**[See Common Retry/Fail section](#)**Limitation on Using the API:**[See Common Limitations section](#)

## 7.9 Deprecated Operations

This section details all deprecated APIs.

Vodafone strongly recommends the use of current APIs.

### 7.9.1 `getCustomerDetails`

**Version:** 1

**Description:** Provides a means of returning the details for a Customer from the Customer entity in the External API Data Model.

**Purpose:** This API is provided to allow Customer Systems to retrieve details recorded for them on the Global M2M Services Platform.

**Prerequisite:** [See common pre-requisite section](#)

**Request Parameters:**

Name	Description	Type
<code>getCustomerDetails</code>		<a href="#">getCustomerDetails</a>
<code>gdspHeader</code>	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

**Return Values:**

Name	Description	Type
<code>getCustomerDetailsResponse</code>	Response object of this API	<a href="#">getCustomerDetailsResponse</a>

**Use Case Scenario:** Users who need to view customer details will request a set of modifiable Customer data values, using the `getCustomerDetails` API, held by the M2M Service platform.

**Related APIs Information:**

`getCustomerDetails`

**Error Messages:**

Error Codes:

Major EC: no specific major code.

Minor EC: no specific minor code.

**Retry/ Fail Mechanism**

[See Common Retry/Fail section](#)

**Limitation on Using the API:**

[See Common Limitations section](#)

### 7.9.2 `setCustomerDetails`

**Version:** 1

**Description:** Provides a means of modifying those fields in the Customer entity that may be edited. Note: Only those fields included in the API invocation are updated.

**Purpose:** This API is provided to allow Customer Systems to update the details recorded for them on the Global M2M Services Platform.

**Prerequisite:** [See common pre-requisite section](#)

**Request Parameters:**

Name	Description	Type
setCustomerDetails		<a href="#">setCustomerDetails</a>
gdspHeader	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

**Return Values:**

Name	Description	Type
setCustomerDetailsResponse	Response object of this API	<a href="#">setCustomerDetailsResponse</a>

**Use Case Scenario:** Users who need to edit customer details would update the Customer data values held by the M2M Service platform. The requested changes would be validated and the Central Database would be updated accordingly. However, the numbers of fields that are editable are limited by the user's access rights. Only users with Administrator access rights are able to edit cancel and save both the user and the company details.

**Related APIs Information:**

setCustomerDetails

**Error Messages:**

Error Codes:

Major EC: no specific major code.

Minor EC: [5000](#), [5001](#), [5039](#), [5059](#), [5232](#), [6002](#)

**Retry/ Fail Mechanism**

[See Common Retry/Fail section](#)

**Limitation on Using the API:**

[See Common Limitations section](#)

**7.9.3 setDeviceDetails**

**Version:** 1

**Description:** This function provides a facility to request the GDSP system to create a new device Credentials record for an IMSI belonging to a customer. It accepts a deviceId, a userId and an initial password. The outcome of the request is returned in the response message.

The password in request message is unencrypted. A hash value of the password is calculated using SHA-1 and the result is stored on GDSP database. The unencrypted password is not kept on the database.

**Purpose:** Provides a means of creating a new device credentials record for an IMSI belonging to you.

It accepts a deviceId, a userId and an initial password. The password in the request should be unencrypted. A hash value of the password is calculated using SHA-2 and the result is stored in the Global M2M Service Platform database.

**Prerequisite:** [See common pre-requisite section](#)

**Request Parameters:**

Name	Description	Type
setDeviceDetails		<a href="#">setDeviceDetails</a>
gdspHeader	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

**Return Values:**

Name	Description	Type
setDeviceDetailsResponse	Response object of this API	<a href="#">setDeviceDetailsResponse</a>

**Use Case Scenario:** Users who need to edit SIM details allocated to their account would update the device values held by the M2M Service platform using the setDeviceDetails API. The requested changes would be validated and the Central Database would be updated accordingly.

**Related APIs Information:**

setDeviceDetails

**Error Messages:**

Error Codes:

Major EC: no specific major code.

Minor EC: [Success returns: 0000](#), [Error returns: 3001, 5059, 5084, 5087, 5089, 5099, 5102, 5105, 5113, 5116, 5141, 5202, 5208, 5511, 5653, 6002, 7000, 7001, 7002, 7003, 7007, 7011, 7023, 7025, 7100, 7200, 7201, 7202, 7205, 7206, 7207, 7209, 7210, 7213, 7218, 7220, 7225, 7226, 7227](#)

**Retry/ Fail Mechanism**

[See Common Retry/Fail section](#)

**Limitation on Using the API:**

[See Common Limitations section](#)

**7.9.4 submitSMS****Synopsis:**

**Version:** 1

**Description:** Allows submission of a request for a short message to be delivered to a target device.

**Purpose:** This function provides a facility to request the M2M system to submit a short message to be delivered to the target device.

A delivery receipt will be requested from the SMSC. The delivery receipt information will be stored in the GDSP database, and, subject to configuration, may result in a notifySMSDelivery web service invocation.

**Prerequisite:** [See common pre-requisite section](#)

**Request Parameters:**

Name	Description	Type
submitSMS		<a href="#">submitSMS</a>
gdspHeader	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>



**Return Values:**

Name	Description	Type
submitSMSResponse	Response object of this API	<a href="#">submitSMSResponse</a>

**Use Case Scenario:** Users who want to initiate a text message to be sent to a device using the submitSMS API. On successful transmission a delivery receipt will be requested from the SMSC. The delivery receipt information will be stored in the Global M2M Service Platform database, and, subject to configuration, may result in a subsequent notifySMSDelivery web service invocation.

**Related APIs Information:**

submitSMS

**Error Messages:**

Error Codes:

Major EC: no specific major code.

Minor EC: [Error returns](#); [5232](#), [7010](#), [7011](#), [7033](#), [7034](#)

**Retry/ Fail Mechanism**

[See Common Retry/Fail section](#)

**Limitation on Using the API:**

[See Common Limitations section](#)

**7.9.5 submitWUTrigger**

**Version:** 1

**Description:** This function provides a facility to request the M2M system to execute an SMS Message or Circuit-Switch Call 'wake-up' trigger to a specific device.

It accepts a deviceId, wake-up type and a sourceId as input parameters. An SMS-MT or CSD-call, depending on the wake-up type, is made to the SIM with the specified IMSI and the results are returned in the response message. When executing an SMS-MT wake-up, a successful response from this API indicates that the SMS was submitted successfully, not that it was delivered.

**Note:** CSD wake-up not implemented in this release.

**Purpose:** This API is provided to allow a Customer System to send a wake-up trigger to a Device identified by its IMSI. Currently, the only wake-up trigger mechanism supported is SMS.

**Prerequisite:** [See common pre-requisite section](#)

**Request Parameters:**

Name	Description	Type
submitWUTrigger		<a href="#">submitWUTrigger</a>
gdspHeader	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

**Return Values:**

Name	Description	Type
submitWUTriggerResponse	Response object of this API	<a href="#">submitWUTriggerResponse</a>

**Use Case Scenario:** An application in a metering company uses the submitWUTrigger API to make the device initiate a packet data protocol (pdp) session with the customer server to start send readings from the meter devices. On successful completion, an SMS is sent updating the transaction records and the Call Data Records present for the SMS-MT and for the delivery notification. Otherwise, a failure response is returned and no SMS is transmitted.

#### Related APIs Information:

submitWUTrigger

#### Error Messages:

Error Codes:

Major EC: no specific major code.

Minor EC: [Error returns: 7003,7005, 7006, 7007, 7010, 7011](#)

#### Retry/ Fail Mechanism

[See Common Retry/Fail section](#)

#### Limitation on Using the API:

[See Common Limitations section](#)

### 7.9.6 getCustomerServiceProfileDetails

**Version:** 1

**Description:** Provides a facility to send an SMS Message or Circuit Switch Call 'wake up' trigger for a specific device.

**Purpose:** This API is provided to allow a Customer System to send a wake-up trigger to a Device identified by its IMSI. Currently, the only wake-up trigger mechanism supported is SMS.

**Prerequisite:** [See common pre-requisite section](#)

#### Request Parameters:

Name	Description	Type
getCustomerServiceProfileDetails		<a href="#">getCustomerServiceProfileDetails</a>
gdspHeader	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

#### Return Values:

Name	Description	Type
getCustomerServiceProfileDetailsResponse	Response object of this API	<a href="#">getCustomerServiceProfileDetailsResponse</a>

#### Code Framework

**Use Case Scenario:** Users who need to view the details of a customer with a valid Service Profiles would use the `getCustomerServiceProfileDetails` API to request a set of modifiable Service Profile data values held by the M2M Service platform.

**Related APIs Information:**

`getCustomerServiceProfileDetails`

**Error Messages:**

Error Codes:

Major EC: no specific major code.

Minor EC: [Error returns: 0103, 5202](#)

**Retry/ Fail Mechanism**

[See Common Retry/Fail section](#)

**Limitation on Using the API:**

[See Common Limitations section](#)

### 7.9.7 `setCustomerServiceProfileDetails`

**Version:** 1

**Description:** Provides a means of modifying those fields in the Customer entity that may be edited. Note: Only those fields included in the API invocation are updated.

**Purpose:** This API is provided to allow Customer Systems to update the details recorded for them on the Global M2M Services Platform.

**Prerequisite:** [See common pre-requisite section](#)

**Request Parameters:**

Name	Description	Type
<code>setCustomerServiceProfileDetails</code>		<a href="#">setCustomerServiceProfileDetails</a>
<code>gdspHeader</code>	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

**Return Values:**

Name	Description	Type
<code>setCustomerServiceProfileDetailsResponse</code>	Response object of this API	<a href="#">setCustomerServiceProfileDetailsResponse</a>

**Use Case Scenario:** Users who need to edit customer details would update the Customer Profile values held by the M2M Service platform using `setCustomerServiceProfileDetails`. The requested changes would be validated and the Central Database would be updated accordingly. A user can change certain aspects of the Service Profile definition and the changes made to the Service Profile will apply to all SIMs associated with it.

**Related APIs Information:**

`setCustomerServiceProfileDetails`

**Error Messages:**

Error Codes:

Major EC: no specific major code.

Minor EC: [Error returns: 5061, 5063, 5089, 5201, 5202, 5203, 5204, 5207, 5208, 5209, 5210, 5211, 5212, 5213, 5214, 5215, 5216, 5217, 5218, 5232, 5407, 5511](#)**Retry/ Fail Mechanism:**[See Common Retry/Fail section](#)**Limitation on Using the API:**[See Common Limitations section](#)**7.9.8 cloneCustomerServiceProfile****Version:** 1**Description:** Provides a means of creating a new Customer Service Profile by copying the details of an existing source Customer Service Profile.

The new Customer Service Profile must defined be by providing new values for customerServiceProfileName and customerServiceProfileDescription, which must both be specified.

Any data elements that are not specified will receive the corresponding value from the source Customer Service Profile

**Purpose:** This function provides a facility to request the M2M system to copy from a source customer service profile, creating a new customer service profile. Any data elements that are not specified will receive the value from the source customer service profile, except for customerServiceProfileName and customerServiceProfileDescription, which must both be specified.**Prerequisite:** [See common pre-requisite section](#)**Request Parameters:**

Name	Description	Type
cloneCustomerServiceProfile		<a href="#">cloneCustomerServiceProfile</a>
gdspHeader	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

**Return Values:**

Name	Description	Type
cloneCustomerServiceProfileResponse	Response object of this API	<a href="#">cloneCustomerServiceProfileResponse</a>

**Use Case Scenario:** Users who wish to create a new Customer Service Profile would use the cloneCustomerServiceProfile API to clone an existing Customer Service Profile and then make any changes to the new profile configuration.**Related APIs Information:**

cloneCustomerServiceProfile

**Error Messages:**

Error Codes:

Major EC: no specific major code.

Minor EC: [Error returns: 5061, 5063, 5089, 5200, 5201, 5203, 5204, 5207, 5208, 5209, 5210, 5213, 5214, 5215, 5216, 5217, 5218, 5232, 5407, 5511, 7253](#)**Retry/ Fail Mechanism**[See Common Retry/Fail section](#)**Limitation on Using the API:**[See Common Limitations section](#)**7.9.9 setCustomerServiceProfileDetailsv2****Version:** 2**Description:** Provides a facility to send an SMS Message or Circuit Switch Call 'wake up' trigger for a specific device.**Purpose:** This API is provided to allow a Customer System to send a wake-up trigger to a Device identified by its IMSI. Currently, the only wake-up trigger mechanism supported is SMS.**Prerequisite:** [See common pre-requisite section](#)**Request Parameters:**

Name	Description	Type
setCustomerServiceProfileDetailsv2		<a href="#">setCustomerServiceProfileDetail sv2</a>
gdspHeader	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

**Return Values:**

Name	Description	Type
setCustomerServiceProfileDetailsv2Response	Response object of this API	<a href="#">setCustomerServiceProfileDetail sv2Response</a>

**Use Case Scenario:** Users who need to edit customer details would update the Customer Profile values held by the M2M Service platform using setCustomerServiceProfileDetails. The requested changes would be validated and the Central Database would be updated accordingly. A user can change certain aspects of the Service Profile definition and the changes made to the Service Profile will apply to all SIMs associated with it.**Related APIs Information:**

setCustomerServiceProfileDetailsv2

**Error Messages:**

Error Codes:

Major EC: no specific major code.

Minor EC: [Error returns: 5061, 5063, 5089, 5201, 5202, 5203, 5204, 5206, 5207, 5208, 5209, 5210, 5211, 5212, 5213, 5214, 5215, 5216, 5217, 5218, 5232, 5406, 5407, 5511, 7039](#)

**Retry/ Fail Mechanism**

[See Common Retry/Fail section](#)

**Limitation on Using the API:**

[See Common Limitations section](#)

**7.9.10 cloneCustomerServiceProfilev2****Version:** 2

**Description:** Provides a means of creating a new Customer Service Profile by copying the details of an existing source Customer Service Profile.

The new Customer Service Profile must defined be by providing new values for customerServiceProfileName and customerServiceProfileDescription, which must both be specified.

Any data elements that are not specified will receive the corresponding value from the source Customer Service Profile

**Purpose:** : This function provides a facility to request the M2M system to copy from a source customer service profile, creating a new customer service profile. Any data elements that are not specified will receive the value from the source customer service profile, except for customerServiceProfileName and customerServiceProfileDescription, which must both be specified.

**Prerequisite:** [See common pre-requisite section](#)

**Request Parameters:**

Name	Description	Type
cloneCustomerServiceProfilev2		<a href="#">cloneCustomerServiceProfilev2</a>
gdspHeader	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

**Return Values:**

Name	Description	Type
cloneCustomerServiceProfilev2Response	Response object of this API	<a href="#">cloneCustomerServiceProfilev2Response</a>

**Use Case Scenario:** Users who wish to create a new Customer Service Profile would use cloneCustomerServiceProfile to clone an existing Customer Service Profile and then make any changes to the new profile configuration.

**Related APIs Information:**

cloneCustomerServiceProfilev2

**Error Messages:**

Error Codes:

Major EC: no specific major code.

Minor EC: [Error returns](#), [5061](#), [5063](#), [5089](#), [5200](#), [5201](#), [5203](#), [5204](#), [5207](#), [5208](#), [5209](#), [5210](#), [5213](#), [5214](#), [5215](#), [5216](#), [5217](#), [5218](#), [5220](#), [5221](#), [5222](#), [5227](#), [5232](#), [5407](#), [5511](#), [7039](#), [7040](#), [7041](#), [7253](#)

**Retry/ Fail Mechanism**[See Common Retry/Fail section](#)**Limitation on Using the API:**[See Common Limitations section](#)**7.9.11 getCustomerServiceProfileDetailsv2****Version:** 2**Description:** Provides a facility to send an SMS Message or Circuit Switch Call 'wake up' trigger for a specific device.**Purpose:** This API is provided to allow a Customer System to send a wake-up trigger to a Device identified by its IMSI. Currently, the only wake-up trigger mechanism supported is SMS.**Prerequisite:** [See common pre-requisite section](#)**Request Parameters:**

Name	Description	Type
getCustomerServiceProfileDetailsv2		<a href="#">getCustomerServiceProfileDetail sv2</a>
gdspHeader	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

**Return Values:**

Name	Description	Type
getCustomerServiceProfileDetailsv2Response	Response object of this API	<a href="#">getCustomerServiceProfileDetail sv2Response</a>

**Use Case Scenario:** Users who need to view the details of a customer with a valid Service Profiles would use the getCustomerServiceProfileDetailsv2 API to request a set of modifiable Service Profile data values held by the M2M Service platform.**Related APIs Information:**

getCustomerServiceProfileDetailsv2

**Error Messages:**

Error Codes:

Major EC: no specific major code.

Minor EC: [Error returns: 0103, 5202](#)**Retry/ Fail Mechanism**[See Common Retry/Fail section](#)**Limitation on Using the API:**[See Common Limitations section](#)

### 7.9.12 setCustomerServiceProfileDetailsv3

**Version:** 3

**Description:** Provides a means of modifying those fields in the Customer entity that may be edited. Note: Only those fields included in the API invocation are updated.

**Purpose:** This API is provided to allow Customer Systems to update the details recorded for them on the Global M2M Services Platform.

**Prerequisite:** [See common pre-requisite section](#)

**Request Parameters:**

Name	Description	Type
setCustomerServiceProfileDetailsv3		<a href="#">setCustomerServiceProfileDetail sv3</a>
gdspHeader	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

**Return Values:**

Name	Description	Type
setCustomerServiceProfileDetailsv3Response	Response object of this API	<a href="#">setCustomerServiceProfileDetail sv3Response</a>

**Use Case Scenario:** Users who need to edit the Customer Service Profile values held by the M2M Service platform would use setCustomerServiceProfileDetailsv3. The requested changes would be validated and the Central Database would be updated accordingly. A user can change certain aspects of the Service Profile definition and the changes made to the Service Profile will apply to all SIMs associated with it.

**Related APIs Information:**

setCustomerServiceProfileDetailsv3

**Error Messages:**

Error Codes:

Major EC: no specific major code.

Minor EC: [Error returns: 5061, 5063, 5089, 5201, 5202, 5203, 5204, 5206, 5207, 5208, 5209, 5210, 5211, 5212, 5213, 5214, 5215, 5216, 5217, 5218, 5232, 5224, 5225, 5227, 5230, 5231, 5232, 5403, 5404, 5406, 5407, 5407, 5511, 7039](#)

**Retry/ Fail Mechanism**

[See Common Retry/Fail section](#)

**Limitation on Using the API:**

[See Common Limitations section](#)

### 7.9.13 cloneCustomerServiceProfilev3

**Version:** 3

**Description:** Provides a means of creating a new Customer Service Profile by copying the details of an existing source Customer Service Profile.



The new Customer Service Profile must be defined by providing new values for customerServiceProfileName and customerServiceProfileDescription, which must both be specified.

Any data elements that are not specified will receive the corresponding value from the source Customer Service Profile

**Purpose:** This function provides a facility to request the M2M system to copy from a source customer service profile, creating a new customer service profile. Any data elements that are not specified will receive the value from the source customer service profile, except for customerServiceProfileName and customerServiceProfileDescription, which must both be specified

**Prerequisite:** [See common pre-requisite section](#)

**Request Parameters:**

Name	Description	Type
cloneCustomerServiceProfilev3		<a href="#">cloneCustomerServiceProfilev3</a>
gdspHeader	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

**Return Values:**

Name	Description	Type
cloneCustomerServiceProfilev3Response	Response object of this API	<a href="#">cloneCustomerServiceProfilev3Response</a>

**Use Case Scenario:** Users who wish to create a new Customer Service Profile would use the cloneCustomerServiceProfilev3 API to clone an existing Customer Service Profile and then make any changes to the new profile configuration.

**Related APIs Information:**

cloneCustomerServiceProfilev3

**Error Messages:**

Error Codes:

Major EC: no specific major code.

Minor EC: [Error returns: 5061, 5063, 5089, 5200, 5201, 5203, 5204, 5207, 5208, 5209, 5210, 5213, 5214, 5215, 5216, 5217, 5218, 5220, 5221, 5222, 5227, 5230, 5231, 5232, 5407, 5511, 7039, 7040, 7041, 7253](#)

**Retry/ Fail Mechanism**

[See Common Retry/Fail section](#)

**Limitation on Using the API:**

[See Common Limitations section](#)

### 7.9.14 getFilteredDeviceList

**Version:** 1

**Description:** Allows a list of devices to be requested, according to filter parameters set in the request message.

Examples filter parameters include:

- imsi
- customerServiceProfileName;
- deviceState;
- customerOrderNumber;
- etc.

**Purpose:** This API is provided to allow Customer Systems to retrieve a list of Devices filtered by one or more of the Device's parameters; e.g. customerServiceProfileName, deviceState, etc.

**Prerequisite:** [See common pre-requisite section](#)

**Request Parameters:**

Name	Description	Type
getFilteredDeviceList		<a href="#">getFilteredDeviceList</a>
gdspHeader	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

**Return Values:**

Name	Description	Type
getFilteredDeviceListResponse	Response object of this API	<a href="#">getFilteredDeviceListResponse</a>

**Use Case Scenario:** Users who need to view a list of Devices filtered by one or more of the Device's parameters would request a set of values, using the getFilteredDeviceList API, held by the M2M Service platform.

**Related APIs Information:**

getFiltereddeviceList

**Error Messages:**

Error Codes:

Major EC: no specific major code.

Minor EC: [Error returns;](#) [5059](#), [5085](#), [5088](#), [5089](#), [5090](#), [5091](#), [5202](#), [7011](#)

**Retry/ Fail Mechanism**

[See Common Retry/Fail section](#)

**Limitation on Using the API:**

[See Common Limitations section](#)

### 7.9.15 getFilteredDeviceListv2

**Version:** 2

**Description:** Allows a list of devices to be requested, according to filter parameters set in the request message.

Examples filter parameters include:

- imsi
- customerServiceProfileName;

- deviceState;
- customerOrderNumber;
- etc.

**Purpose:** This API is provided to allow Customer Systems to retrieve a list of Devices filtered by one or more of the Device's parameters; e.g. customerServiceProfileName, deviceState, etc.

**Prerequisite:** [See common pre-requisite section](#)

**Request Parameters:**

Name	Description	Type
<a href="#">getFilteredDeviceListv2</a>		<a href="#">getFilteredDeviceListv2</a>
<a href="#">gdspHeader</a>	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

**Return Values:**

Name	Description	Type
<a href="#">getFilteredDeviceListv2Response</a>	Response object of this API	<a href="#">getFilteredDeviceListResponse</a>

**Use Case Scenario:** Users who need to view a list of Devices filtered by one or more of the Device's parameters would request a set of values, using the getFilteredDeviceListv2 API, held by the M2M Service platform.

**Related APIs Information:**

[getFiltereddeviceListv2](#)

**Error Messages:**

Error Codes:

Major EC: no specific major code.

Minor EC: [Error returns](#); [5059](#), [5085](#), [5088](#), [5089](#), [5090](#), [5091](#), [5132](#), [5133](#), [5202](#), [7011](#)

**Retry/ Fail Mechanism**

[See Common Retry/Fail section](#)

**Limitation on Using the API:**

[See Common Limitations section](#)

### 7.9.16 [getFilteredDeviceListv3](#)

**Version:** 3

**Description:** Allows a list of devices to be requested, according to filter parameters set in the request message.

Examples filter parameters include:

- imsi
- customerServiceProfileName;
- deviceState;
- customerOrderNumber;
- etc.

**Purpose:** This API is provided to allow Customer Systems to retrieve a list of Devices filtered by one or more of the Device's parameters; e.g. customerServiceProfileName, deviceState, etc.

**Prerequisite:** [See common pre-requisite section](#)

**Request Parameters:**

Name	Description	Type
<code>getFilteredDeviceListv3</code>		<a href="#">getFilteredDeviceListv3</a>
<code>gdspHeader</code>	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

**Return Values:**

Name	Description	Type
<code>getFilteredDeviceListv3Response</code>	Response object of this API	<a href="#">getFilteredDeviceListResponse</a>

**Use Case Scenario:** Users who need to view a list of Devices filtered by one or more of the Device's parameters would request a set of values, using the `getFilteredDeviceListv3` API, held by the M2M Service platform.

**Related APIs Information:**

`getFilteredDeviceListv3`

**Error Messages:**

Error Codes:

Major EC: no specific major code.

Minor EC: [Error returns](#); [5059](#), [5085](#), [5088](#), [5089](#), [5090](#), [5091](#), [5132](#), [5133](#), [5202](#), [7011](#).

**Retry/ Fail Mechanism**

[See Common Retry/Fail section](#)

**Limitation on Using the API:**

For optimal performance, use a page size of fifty. Larger page sizes will work, but the web service will not respond as quickly.

## 8 Outbound M2M Service Customer Business Services

This section serves details the outbound M2M Business Services that are provided to you to utilise. For each API the purpose is given as well as the detail of the outbound and inbound messages.

The following files included the Outbound API's:

- DeviceInfo Service.wsdl
- SMSDeliveryNotificationService.wsdl
- SMSService.wsdl

### 8.1 notifyDeviceInfo

**Version:** 1

**Description:** This function provides a facility for the GDSP system to 'push' device information to external systems in the event of a device activating a PDP-Context. For initial implementation, this function is used only to send connectivity information (Connect State and IP Address) of a device to the external system.

**Purpose:** This function provides a facility for the M2M system to 'push' device information to external systems in the event of a device activating a PDP-Context. For initial implementation, this function is used only to send connectivity information (Connect State and IP Address) of a device to the external system.

**Prerequisite:** [See common pre-requisite section](#)

**Request Parameters:**

Name	Description	Type
notifyDeviceInfo		<a href="#">notifyDeviceInfo</a>
gdspHeader	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

**Return Values:**

Name	Description	Type
notifyDeviceInfoResponse	Response object of this API	<a href="#">notifyDeviceInfo Response</a>

**Use Case Scenario:** Once a Radius Authentication request has returned a delivery of the device, information will be delivered to the Customer Web Server via the notifyDeviceInfo API.

**Related APIs Information:**

notifyDeviceInfo

**Error Messages:**

Error Codes:

Currently there is no defined action on receipt of any particular return code other than to record the response in an audit log. Specific actions and further return codes should not be expected or defined without prior agreement and update of this document.

Retries of requests will only be attempted when the service was not available on previous requests.

Major EC: [000, 005, 100, 999](#)

Minor EC: [Success returns: 0000, Error returns: 7000,7001, 7002, 7004, 7007, 7011, 7012, 7013, 7014, 7100, 9999](#)

#### Retry/ Fail Mechanism

[See Common Retry/Fail section](#)

#### Limitation on Using the API:

[See Common Limitations section](#)

## 8.2 deliverSMS

**Version:** 1

**Description:** This function provides a facility for the M2M system to 'push' device information to external systems in the event of a device activating a PDP-Context. For initial implementation, this function is used only to send connectivity information (Connect State and IP Address) of a device to the external system.

**Purpose:** Allows the Global M2M Service platform to 'push' a mobile originated SMS to an external system.

**Prerequisite:** [See common pre-requisite section](#)

#### Request Parameters:

Name	Description	Type
deliverSMS		<a href="#">deliverSMS</a>
gdspHeader	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

#### Return Values:

Name	Description	Type
deliverSMSResponse	Response object of this API	<a href="#">deliverSMSResponse</a>

**Use Case Scenario:** A device sends a message via the SMSC to the GDSP. The message is then forwarded using the deliverySMS API.

#### Related APIs Information:

deliverSMS

#### Error Messages:

Error Codes:

Currently there is no defined action on receipt of any particular return code other than to record the response in an audit log. Specific actions and further return codes should not be expected or defined without prior agreement and update of this document.

Retries of requests will only be attempted when the service was not available on previous requests.

Major EC: [000, 005, 100, 999](#)

Minor EC: [Success returns: 0000, Error returns: 7000,7001, 7002, 7007, 7011, 7012, 7033, 7034, 7035, 7100, 9999](#)

#### Retry/ Fail Mechanism:

[See Common Retry/Fail section](#)

**Limitation on Using the API:**

[See Common Limitations section](#)

## 8.3 notifySMSDelivery

**Version:** 1

**Description:** This function provides a facility to request the GDSP system to submit a short message to be delivered to the target device.

A delivery receipt will be requested from the SMSC. The delivery receipt information will be stored in the GDSP database, and, subject to configuration, may result in a notifySMSDelivery web service invocation.

**Purpose:** This function provides a facility for the M2M system to 'push' device information to external systems in the event of a device activating a PDP-Context. For initial implementation, this function is used only to send connectivity information (Connect State and IP Address) of a device to the external system.

**Prerequisite:** [See common pre-requisite section](#)

**Request Parameters:**

Name	Description	Type
notifySMSDelivery		<a href="#">notifySMSDelivery</a>
gdspHeader	Header of the Global M2M Platform API call	<a href="#">gdspHeader</a>

**Return Values:**

Name	Description	Type
notifySMSDeliveryResponse	Response object of this API	<a href="#">notifySMSDeliveryResponse</a>

**Use Case Scenario:** The Message Gateway transmits a message to the Web Services Client, which formulates and makes an outgoing web service call to the Customer Web Server using the notifySMSDelivery API . The Message Gateway generates a CDR.

**Related APIs Information:**

notifySMSdelivery

**Error Messages:**

Error Codes:

Currently there is no defined action on receipt of any particular return code other than to record the response in an audit log. Specific actions and further return codes should not be expected or defined without prior agreement and update of this document.

Retries of requests will only be attempted when the service was not available on previous requests.

Major EC: [000](#), [005](#), [100](#), [999](#)

Minor EC: [Success returns: 0000](#), [Error returns: 7000,7001, 7002, 7004, 7007, 7011, 7012, 7013, 7014, 7100, 9999](#)

**Retry/ Fail Mechanism**

[See Common Retry/Fail section](#)

**Limitation on Using the API:**

[See Common Limitations section](#)



# 9 Data Types

The following list contains all the data types used or returned by all APIs.

## 9.1 Inbound API Functions

### 9.1.1 Generic

- [gdspHeader](#)
- [gdspCredentials](#)
- [returnCode](#)

### 9.1.2 Customer Operations

- [getCustomerDetailsv2](#)
- [getCustomerDetailsv2Response](#)
- [getCustomerDetailsv2ResponseItem](#)
- [customerinfov2](#)
- [setCustomerDetailsv2](#)
- [setCustomerDetailsv2Response](#)
- [setCustomerDetailsv2ResponseItem](#)
- [getCustomerSimOrderList](#)
- [getCustomerSimOrderListResponse](#)
- [customerSimOrderListResponse](#)
- [customerSimOrderListItem](#)
- [tCustomerOrder](#)

### 9.1.3 Contact Operations

- [getContactDetails](#)
- [tContactPurposeOptions](#)
- [getContactDetailsResponse](#)
- [getContactDetailsResponseItem](#)
- [contactInfo](#)
- [tEmailAddress](#)
- [SetContactDetails](#)
- [setContactDetailsResponse](#)
- [setContactDetailsResponseItem](#)

### 9.1.4 Service Profile Operations

- [getCustomerServiceProfileList](#)
- [getCustomerServiceProfileListResponse](#)
- [getCustomerServiceProfileListResponseBody](#)
- [tCustomerServiceProfileItem](#)
- [tCustomerServiceProfile](#)
- [getCustomerServiceProfileDetailsv3](#)

- [getCustomerServiceProfileDetailsv3Response](#)
- [setCustomerServiceProfileDetailsv4](#)
- [setCustomerServiceProfileDetailsv4Response](#)
- [setCustomerServiceProfileDetailsv4ResponseBody](#)
- [tCustomerServiceProfileName](#)
- [tCustomerServiceProfileDescription](#)
- [tDeviceState](#)
- [tYesNoOptions](#)
- [tAlertActionOptionsv2](#)
- [tAlertMonitoringPeriodOptions](#)
- [tCustomerServiceProfileNameNillable](#)
- [tTariffName](#)
- [tCountryCode](#)
- [tProvisioningProfileName](#)
- [tIimeiMatchRuleOptions](#)
- [tIimeiCaptureRuleOptions](#)
- [tIimeiDeviceActionOptions](#)
- [tAlertActionOptions](#)
- [tTac](#)
- [tSmsPriorityOptions](#)
- [cloneCustomerServiceProfilev4](#)
- [cloneCustomerServiceProfilev4Response](#)
- [cloneCustomerServiceProfilev4ResponseDetails](#)

### 9.1.5 Device Operation

- [getDeviceDetails](#)
- [getDeviceDetailsResponse](#)
- [getDeviceDetailsResponseItem](#)
- [tDeviceInformationList](#)
- [tDeviceInformationItem](#)
- [getDeviceHistory](#)
- [getDeviceHistoryResponse](#)
- [tDeviceHistory](#)
- [tDeviceHistoryItem](#)
- [getDeviceRegistrationDetails](#)
- [getDeviceRegistrationDetailsResponse](#)
- [getDeviceRegistrationDetailsResponseItem](#)
- [registrationStatusInformation](#)
- [registrationStatusInformationSection](#)
- [registrationStatusInformationSectionParam](#)
- [setDeviceDetailsv2](#)
- [setDeviceDetailsv2Response](#)
- [setDeviceDetailsv2ResponseItem](#)

- [tImei](#)
- [tCustomAattribute](#)
- [tIpV4Address](#)
- [setDeviceCredentials](#)
- [setDeviceCredentialsResponse](#)
- [deviceCredentialsResponse](#)
- [tDeviceUserId](#)
- [tDevicePassword](#)
- [updateDeviceCredentials](#)
- [updateDeviceCredentialsResponse](#)
- [submitWUTriggerv2](#)
- [submitWUTriggerv2Response](#)
- [wuTriggerv2Response](#)
- [tTriggerType](#)
- [submitSMSv2](#)
- [submitSMSv2Response](#)
- [smsv2Response](#)
- [tSMSMessageTypeOptions](#)
- [getFilteredDeviceListv4](#)
- [getFilteredDeviceListResponse](#)
- [tImsiList](#)
- [tMsisdnList](#)
- [tlccidList](#)
- [tCustomerServiceProfileList](#)
- [tRaqStateList](#)
- [tDeviceStateList](#)
- [tAlertTypeList](#)
- [tCustomerOrderNumberList](#)
- [tCustomAttributeList](#)
- [tDeviceList](#)
- [getDeviceLocationHistoryDetails](#)
- [getDeviceLocationHistoryDetailsResponse](#)
- [tDeviceLocationHistory](#)
- [tDeviceLocationHistoryItem](#)
- [tMsisdn](#)
- [tlccid](#)
- [tCustomerServiceProfileList](#)
- [tRaqOptions](#)
- [tAlertTypeOptions](#)
- [tCustomerOrderNumber](#)

#### 9.1.6 Utility Operations

- [getTariffList](#)

- [getTariffListResponse](#)
- [tariffResponse](#)
- [tTariffItem](#)
- [tTariff](#)
- [getBaseCountryList](#)
- [getBaseCountryListResponse](#)
- [baseCountryResponse](#)
- [tBaseCountry](#)
- [tBaseCountryItem](#)
- [getProvisioningProfileList](#)
- [getProvisioningProfileListResponse](#)
- [provisioningProfileResponse](#)
- [tProvisioningProfileItem](#)
- [tProvisioningProfile](#)
- [getDeviceStateList](#)
- [getDeviceStateListResponse](#)
- [deviceStateResponse](#)
- [tState](#)
- [tStateItem](#)
- [getVpnGroupList](#)
- [getVpnGroupListResponse](#)
- [getVpnGroupListResponseItem](#)
- [vpnGroupItem](#)
- [tVpnGroup](#)
- [barringScenario](#)

#### 9.1.7 Transaction Operations

- [getTransactionList](#)
- [getTransactionListResponse](#)
- [tEntityNameOptions](#)
- [transactionResponse](#)
- [tTransactionItem](#)
- [tTransaction](#)

#### 9.1.8 Reporting Operations

- [getReportList](#)
- [getReportListResponse](#)
- [reportListResponse](#)
- [tReportList](#)
- [tReportItem](#)
- [getReportDetails](#)
- [getReportDetailsResponse](#)
- [getReportDetailsResponseItem](#)
- [tReportDetails](#)

- [tFormatDetails](#)
- [tParameterGroup](#)
- [tParameterDetails](#)
- [getReport](#)
- [tReportName](#)
- [tGetReportParameterList](#)
- [tGetReportParameterItem](#)
- [getReportResponse](#)
- [getReportResponseItem](#)

#### 9.1.9 User Functions

- [getUserList](#)
- [getUserListResponse](#)
- [getUserListResponseItem](#)
- [tUserList](#)
- [tUser](#)
- [getUserDetails](#)
- [getUserDetailsResponse](#)
- [getUserDetailsResponseItem](#)
- [userInfo](#)
- [setUserDetails](#)
- [tUserName](#)
- [tFullName](#)
- [tEmailAddress](#)
- [tAddressLine](#)
- [tTelephoneNumber](#)
- [tAccessRightsOptions](#)
- [tPassword](#)
- [setUserDetails Response](#)
- [UserDetailsResponse](#)
- [createUser](#)
- [createUserResponse](#)
- [createUserResponseItem](#)

#### 9.1.10 Deprecated Operations

- [getCustomerDetails](#)
- [getCustomerDetailsResponse](#)
- [getCustomerDetailsResponseItem](#)
- [customerInfo](#)
- [setCustomerDetails](#)
- [tCustomerName](#)
- [setCustomerDetailsResponse](#)
- [setCustomerDetailsResponseItem](#)
- [setDeviceDetails](#)

- [setDeviceDetailsResponse](#)
- [setDeviceDetailsResponseItem](#)
- [submitSMS](#)
- [submitSmsResponse](#)
- [smsResponse](#)
- [submitWUTrigger](#)
- [submitWUTriggerResponse](#)
- [wuTriggerResponse](#)
- [getCustomerServiceProfileDetails](#)
- [getCustomerServiceProfileDetailsResponse](#)
- [getCustomerServiceProfileResponseDetails](#)
- [cloneCustomerServiceProfile](#)
- [cloneCustomerServiceProfileResponse](#)
- [cloneCustomerServiceProfileResponseDetails](#)
- [setCustomerServiceProfileDetailsv2](#)
- [setCustomerServiceProfileDetailsv2Response](#)
- [setCustomerServiceProfileDetailsv2ResponseBody](#)
- [cloneCustomerServiceProfilev2](#)
- [cloneCustomerServiceProfilev2Response](#)
- [cloneCustomerServiceProfilev2ResponseDetails](#)
- [getCustomerServiceProfileDetailsv2](#)
- [getCustomerServiceProfileDetailsv2Response](#)
- [getCustomerServiceProfilev2ResponseDetails](#)
- [setCustomerServiceProfileDetailsv3](#)
- [setCustomerServiceProfileDetailsv3Response](#)
- [setCustomerServiceProfileDetailsv3ResponseBody](#)
- [cloneCustomerServiceProfilev3](#)
- [cloneCustomerServiceProfilev3Response](#)
- [cloneCustomerServiceProfilev3ResponseDetails](#)
- [getFilteredDeviceList](#)
- [getFilteredDeviceListv2](#)
- [getFilteredDeviceListv3](#)

## 9.2 Outbound API Functions

- [gdspHeader](#)
- [gdspCredentials](#)
- [gdspFlags](#)
- [returnCode](#)
- [notifyDeviceInfo](#)
- [notifyDeviceInfoResponse](#)
- [deviceInfoResponse](#)
- [connectivity](#)
- [deliverSMS](#)

- [deliverSMSResponse](#)
- [smsResponse](#)
- [notifySMSDelivery](#)
- [notifySMSDeliveryResponse](#)

## 10 Detailed Description of Data Types

### gdspHeader

The gdspHeader data type.

#### **Ancestors**

None

#### **Relevant Operations**

Generic

#### **Contents**

The following table describes the elements of gdspHeader.

Name	Description	Details
gdspCredentials	The credentials of GDSP user Type: <a href="#">gdspCredentials</a>	

### gdspCredentials

The gdspCredentials data type

#### **Ancestors**

gdspHeader

#### **Relevant Operations**

Generic

#### **Contents**

The following table describes the elements of gdspCredentials.

Name	Mandatory	Type	Size	Description
customerId	No	long	-	If the userId does not relate to a single customer, then this data element is required.
Password	Yes	String	8 up to 32	Password (unencrypted)
userId	Yes	String	Up to 32	ID identifying the Customer

### getCustomerDetailsv2

The getCustomerDetailsv2 data type

#### **Ancestors**

None

#### **Relevant Operations**

getCustomerDetailsv2

#### **Contents**

None



## getCustomerDetailsv2Response

The getCustomerDetailsv2Response data type

### Ancestors

None

### Relevant Operations

getCustomerDetailsv2

### Contents

The following table describes the elements of getCustomerDetailsv2Response.

Name	Description	Details
Return	ResponseItem of the response object. Type: <a href="#">getCustomerDetailsv2ResponseItem</a>	

## getCustomerDetailsv2ResponseItem

The getCustomerDetailsv2ResponseItem data type

### Ancestors

GetCustomerDetailsv2Response

### Relevant Operations

getCustomerDetailsv2

### Contents

The following table describes the elements of getCustomerDetailsv2ResponseItem.

Name	Description	Details
returnCode	Return object of the API Type: <a href="#">returnCode</a>	
customerInfo	Type: <a href="#">customerInfov2</a>	

## returnCode

The returnCode data type

### Ancestors

Generic

### Relevant Operations

Generic

### Contents

The following table describes the elements of returnCode.

Name	Mandatory	Type	Size	Description
majorReturnCode	Yes	String	3	Indicates the return code category.  Together with minorReturnCode, they indicate the outcome (success/failure) of request message processing.

minorReturnCode	Yes	String	4	Detail code for specific error. Together with majorReturnCode, they indicate the outcome (success/failure) of request message processing.
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## customerInfov2

The customerInfov2 data type

### Ancestors

getCustomerDetailsv2ResponseItem

### Relevant Operations

getCustomerDetailsv2

### Contents

The following table describes the elements of customerInfov2.

Name	Mandatory	Type	Size	Description
customerCode	Yes	String	32	Short code for a customer.
customerName	No	String	80	Descriptive name for a customer.
customAttributeLabel1	No	String	64	The label for SIM custom attribute 1.
customAttributeLabel2	No	String	64	The label for SIM custom attribute 2.
customAttributeLabel3	No	String	64	The label for SIM custom attribute 3.
customAttributeLabel4	No	String	64	The label for SIM custom attribute 4.
customAttributeLabel5	No	String	64	The label for SIM custom attribute 5.
customAttributeFilterEnabled1	No	String	1	Y or N. Determines whether custom attribute 1 appears as a filterable item.
customAttributeFilterEnabled2	No	String	1	Y or N. Determines whether custom attribute 2 appears as a filterable item.
customAttributeFilterEnabled3	No	String	1	Y or N. Determines whether custom attribute 3 appears as a filterable item.
customAttributeFilterEnabled4	No	String	1	Y or N. Determines whether custom attribute 4 appears as a filterable item.
customAttributeFilterEnabled5	No	String	1	Y or N. Determines whether custom attribute 5 appears as a filterable item.

## setCustomerDetailsv2

The setCustomerDetailsv2 data type.

### Ancestors

None

**Relevant Operations**

setCustomerDetailsv2

**Contents**

The following table describes the elements of setCustomerDetailsv2.

Name	Mandatory	Type	Size	Description
customerCode	Yes	String		The code of the customer to be changed
customerName	No	String	80	The descriptive name of the customer. Note: If customerName is included in the API invocation it cannot be blank.
customAttributeFilterEnabled1	No	String	1	Y or N. Determines whether custom attribute 1 appears as a filterable item.
customAttributeFilterEnabled2	No	String	1	Y or N. Determines whether custom attribute 2 appears as a filterable item.
customAttributeFilterEnabled3	No	String	1	Y or N. Determines whether custom attribute 3 appears as a filterable item.
customAttributeFilterEnabled4	No	String	1	Y or N. Determines whether custom attribute 4 appears as a filterable item.
customAttributeFilterEnabled5	No	String	1	Y or N. Determines whether custom attribute 5 appears as a filterable item.
customAttributeLabel1	No	String	64	The label for SIM custom attribute 1.
customAttributeLabel2	No	String	64	The label for SIM custom attribute 2.
customAttributeLabel3	No	String	64	The label for SIM custom attribute 3.
customAttributeLabel4	No	String	64	The label for SIM custom attribute 4.
customAttributeLabel5	No	String	64	The label for SIM custom attribute 5.

**setCustomerDetailsv2Response**

The setCustomerDetailsv2Response data type

**Ancestors**

None

**Relevant Operations**

setCustomerDetailsv2

**Contents**

The following table describes the elements of setCustomerDetailsv2Response.

Name	Description	Details
<code>return</code>	ResponseItem of the response object. Type: <a href="#">setCustomerDetailsv2ResponseItem</a>	

## setCustomerDetailsv2ResponseItem

The setCustomerDetailsv2ResponseItem data type

### Ancestors

setCustomerDetailsv2Response

### Relevant Operations

setCustomerDetailsv2

### Contents

The following table describes the elements of setCustomerDetailsv2ResponseItem.

Name	Description	Details
<code>returnCode</code>	The return object of the API Type: <a href="#">returnCode</a>	

## getCustomerSimOrderList

The getCustomerSimOrderList data type

### Ancestors

None

### Relevant Operations

getCustomerSimOrderList

### Contents

The following table describes the elements of getCustomerSimOrderList.

Name	Mandatory	Type	Size	Description
<code>pageSize</code>	No	Int		Number of records to return in a single response message. If this parameter is specified, so must be pageNumber
<code>pageNumber</code>	No	int		Which block of results to be returned. If this parameter is specified, so must be pageSize.

## getCustomerSimOrderListResponse

The getCustomerSimOrderListResponse data type

### Ancestors

None

### Relevant Operations

getCustomerSimOrderList

### Contents

The following table describes the elements of getCustomerSimOrderListResponse.

Name	Description	Details
return	ResponseItem of the response object. Type: <a href="#">customerSimOrderListResponse</a>	

## customerSimOrderListResponse

The customerSimOrderListResponse data type.

### Ancestors

None

### Relevant Operations

getCustomerSimOrderList

### Contents

The following table describes the elements of customerSimOrderListResponse.

Name	Description	Details
matchedResults	The total number of matching records. Note that there will be a maximum of the pageSize requested number elements in the list. Type: long	
customerSimOrderList	Present only when there is at least one entity to return. If present, contains one or more entities. Type: <a href="#">customerSimOrderListItem</a>	

## customerSimOrderListItem

The customerSimOrderListItem data type.

### Ancestors

customerSimOrderListItem

### Relevant Operations

getCustomerSimOrderList

### Contents

The following table describes the elements of CustomerSimOrderListItem

Name	Description	Details
customerSimOrder	It groups the customerSimOrder details Type: <a href="#">tCustomerOrder</a>	

## tCustomerOrder

The tCustomerOrder data type.

### Ancestors

customerSimOrderListItem

### Relevant Operations

getCustomerSimOrderList

**Contents**

The following table describes the elements of tCustomerOrder.

Name	Mandatory	Type	Size	Description
customerOrderNumber	Yes	String	32	The customer order reference for the order
imsiEnd	Yes	String	15 digit	The end of the IMSI range
imsiStart	Yes	String	15 digit	The start of the IMSI range
orderDate	Yes	dateTime		The date the order was entered into the system

**getContactDetails**

The getContactDetails data type.

**Ancestors**

None

**Relevant Operations**

getContactDetails

**Contents**

The following table describes the elements of getContactDetails.

Name	Mandatory	Type	Size	Description
contactPurpose	Yes	<a href="#">tContactPurposeOptions</a>	80	Purpose of contact to be retrieved

**tContactPurposeOptions**

The tContactPurposeOptions data type.

**Ancestors**

getContactDetails

**Relevant Operations**

getContactDetails

**Contents**

The following table describes the values of tContactPurposeOptions.

Name	Description	Details
ROGUE_USAGE_EMAIL	Contact to be used to email rogue usage alerts. Type: String	
HIGH_USAGE_EMAIL	Contact to be used to email high usage alerts. Type: String	
IMEI_CHANGE_EMAIL	Contact to be used to email IMEI changes Type: String	

**getContactDetailsResponse**

The getContactDetailsResponse data type.

**Ancestors**

None

### **Relevant Operations**

getContactDetails

### **Contents**

The following table describes the elements of getContactDetailsResponse.

Name	Description	Details
return	ResponseItem of the response object. Type: <a href="#">getContactDetailsResponseItem</a>	

## getContactDetailsResponseItem

The getContactDetailsResponseItem data type.

### **Ancestors**

getContactDetailsResponse

### **Relevant Operations**

getContactDetails

### **Contents**

The following table describes the elements of getContactDetailsResponseItem.

Name	Description	Details
returnCode	The return object of the API Type: <a href="#">returnCode</a>	
contactInfo	Type: <a href="#">contactInfo</a>	

## contactInfo

The contactInfo data type

### **Ancestors**

getContactDetailsResponseItem

### **Relevant Operations**

getContactDetails

### **Contents**

The following table describes the elements of contactInfo.

Name	Mandatory	Type	Size	Description
emailAddress	No	<a href="#">tEmailAddress</a>	Up to 256	The email address of the contact

## tEmailAddress

The tEmailAddress datatype

### **Ancestors**

contactInfo, setUserDetails

### **Relevant Operations**

getContactDetails, setUserDetails

### **Contents**

None

**Type**

String

**Size**

0 up to 256

## setContactDetails

The setContactDetails data type

**Ancestors**

None

**Relevant Operations**

setContactDetails

**Contents**

The following table describes the elements of setContactDetails.

Name	Mandatory	Type	Size	Description
contactPurpose	Yes	<a href="#">tContactPurposeOptions</a>	80	Purpose of contact to be retrieved
emailAddress	No	<a href="#">tEmailAddress</a>	upto 256	The email address of the contact

## setContactDetailsResponse

The setContactDetailsResponse data type

**Ancestors**

None

**Relevant Operations**

setContactDetails

**Contents**

The following table describes the elements of setContactDetailsResponse

Name	Description	Details
return	ResponseItem of the response object. Type: <a href="#">setContactDetailsResponseItem</a>	

## setContactDetailsResponseItem

The setContactDetailsResponseItem data type.

**Ancestors**

setContactDetailsResponse

**Relevant Operations**

setContactDetails

**Contents**

The following table describes the elements of setContactDetailsResponseItem.

Name	Description	Details
returnCode	return object of the API Type: <a href="#">returnCode</a>	



## getCustomerServiceProfileList

The getCustomerServiceProfileList data type.

### Ancestors

None

### Relevant Operations

getCustomerServiceProfileList

### Contents

None

## getCustomerServiceProfileListResponse

The getCustomerServiceProfileListResponse data type.

### Ancestors

None

### Relevant Operations

getCustomerServiceProfileList

### Contents

The following table describes the elements of getCustomerServiceProfileListResponse.

Name	Description	Details
return	ResponseItem of the response object. Type: <a href="#">getCustomerServiceProfileListResponseBody</a>	

## getCustomerServiceProfileListResponseBody

The getCustomerServiceProfileListResponseBody data type.

### Ancestors

getCustomerServiceProfileListResponse

### Relevant Operations

getCustomerServiceProfileList

### Contents

The following table describes the elements of getCustomerServiceProfileListResponseBody.

Name	Description	Details
returnCode	The return object of the API Type: <a href="#">returnCode</a>	
customerServiceProfileList	Present only when there is at least one user to return. If present, contains one or more user. Type: <a href="#">tCustomerServiceProfileItem</a>	

## tCustomerServiceProfileItem

The tCustomerServiceProfileItem data type.

### Ancestors

getCustomerServiceProfileListResponseBody

**Relevant Operations**

getCustomerServiceProfileList

**Contents**

The following table describes the elements of tCustomerServiceProfileItem.

Name	Description	Details
customerServiceProfile	Type: <a href="#">tCustomerServiceProfile</a>	

**tCustomerServiceProfile**

The tCustomerServiceProfile data type

**Ancestors**

tCustomerServiceProfileItem

**Relevant Operations**

getCustomerServiceProfileList

**Contents**

The following table describes the elements of tCustomerServiceProfile.

Name	Mandatory	Type	Size	Description
customerServiceProfileName	No	String	32	The name of the customer service profile
customerServiceProfileDescription	No	String	80	Descriptive text for the customer service profile

**getCustomerServiceProfileDetailsv3**

The getCustomerServiceProfileDetailsv3 data type

**Ancestors**

None

**Relevant Operations**

getCustomerServiceProfileDetailsv3

**Contents**

The following table describes the elements of getCustomersServiceProfileDetailsv3.

Name	Mandatory	Type	Size	Description
customerServiceProfileName	Yes	<a href="#">tCustomerServiceProfileName</a>	32	Identifier that uniquely identify the customer service profile.

**tCustomerServiceProfileName**

The tCustomerServiceProfileName data type.

**Ancestors**

getCustomerServiceProfileDetailsv3

**Relevant Operations**

getCustomerServiceProfileDetailsv3

**Contents**

None

**Type**

String

## getCustomerServiceProfileDetailsv3Response

The getCustomerServiceProfileDetailsv3Response data type.

**Ancestors**

None

**Relevant Operations**

getCustomerServiceProfileDetailsv3

**Contents**

The following table describes the elements of getCustomerServiceProfileDetailsv3Response.

Name	Description	Details
<code>return</code>	ResponseItem of the response object. Type: <a href="#">getCustomerServiceProfilev3ResponseDetails</a>	

## getCustomerServiceProfilev3ResponseDetails

The getCustomerServiceProfilev3ResponseDetails data type.

**Ancestors**

getCustomerServiceProfileDetailsv3Response

**Relevant Operations**

getCustomerServiceProfileDetailsv3

**Contents**

The following table describes the elements of getCustomerServiceProfilev3ResponseDetails.

Name	Mandatory	Type	Size	Description
<code>returnCode</code>	Yes	<a href="#">returnCode</a>		The return object of the API
<code>customerServiceProfileName</code>	Yes	String	32	The same value as in request message.
<code>customerServiceProfileDescription</code>	Yes	String	80	Descriptive text for a customer service profile.
<code>testModeVolume</code>	Yes	long	0 to 263-1	The number of bytes allowed for a device in test mode.
<code>testModeExpiryLimit</code>	Yes	long	0 to 263-1	The number of days that a device will remain in test mode.
<code>testModeSmsWakeupLimit</code>	Yes	Number	0 to 263-1	The number of wakeup texts allowed for a device in test mode.
<code>testModeSmsMtLimit</code>	Yes	Number	0 to 263-1	The number of mobile terminated texts allowed for a device in test mode.
<code>testModeSmsMoLimit</code>	Yes	Number	0 to 263-1	The number of mobile originated texts allowed for a device in test mode.

Name	Mandatory	Type	Size	Description
testModeCsLimitDuration	Yes	Number	0 to 263-1	The number of seconds of circuit switched calls allowed for a device in test mode.
postTestModeState	Yes	String	10	The state to which a device will move upon leaving test mode.
connectState	Yes	String	10	The initial state for devices added to this profile.
unassignedIndicator	Yes	String	1	Y/N indicating whether this profile is to be used for unassigned devices.
highUsagePacketThreshold	Yes	long	0 to 999,999,999,999	The threshold number of bytes, above which a high usage alert will be generated for a device.
highUsagePacketAction	Yes	String	Up to 15	The action to be taken by the system when a device's packet data usage has reached the high usage threshold. Values: WARNING - Internal message logged IMMEDIATE_EMAIL - Email issues DAILY_REPORT - Included in report
highUsagePacketMonitoringPeriod	Yes	String	7	The period over which a device's packet data is considered for high usage. This will be: D - Daily M - Monthly W - Weekly
rogueUsagePacketThreshold	Yes	long	0 to 999,999,999,999	The threshold number of bytes, above which a rogue usage alert will be generated for a device.
rogueUsagePacketAction	Yes	String	Up to 15	The action to be taken by the system when a device's packet data usage has reached the rogue usage threshold. Values: WARNING - Internal message logged IMMEDIATE_EMAIL - Email issues DAILY_REPORT - Included in report
rogueUsagePacketMonitoringPeriod	Yes	String	7	The period over which a device's packet data is considered for rogue usage. This will be: D - Daily M - Monthly W - Weekly

Name	Mandatory	Type	Size	Description
highUsageCSThreshold	Yes	Long	0 to 999,999,999,999	The threshold number of seconds, above which a high usage alert will be generated for a device.
highUsageCSAction	Yes	String	Up to 15	The action to be taken by the system when a device's circuit switched usage has reached the high usage threshold. Values: WARNING - Internal message logged IMMEDIATE_EMAIL - Email issues DAILY_REPORT - Included in report
highUsageCSMonitoringPeriod	Yes	String	7	The period over which a device's circuit switched is considered for high usage. This will be: D - Daily M - Monthly W - Weekly
rogueUsageCSThreshold	Yes	long	0 to 999,999,999,999	The threshold number of seconds, above which a rogue usage alert will be generated for a device.
rogueUsageCSAction	Yes	String	Up to 15	The action to be taken by the system when a device's circuit switched usage has reached the rogue usage threshold. Values: WARNING - Internal message logged IMMEDIATE_EMAIL - Email issues DAILY_REPORT - Included in report
rogueUsageCSMonitoringPeriod	Yes	String	7	The period over which a device's circuit switched is considered for rogue usage. This will be: D - Daily M - Monthly W - Weekly
highUsageSMSMOThreshold	Yes	Long	0 to 999,999,999,999	The threshold number of mobile originated text messages, above which a high usage alert will be generated for a device.

Name	Mandatory	Type	Size	Description
highUsageSMSMOAction	Yes	String	Up to 15	The action to be taken by the system when a device's mobile originated text message usage has reached the high usage threshold. Values: WARNING - Internal message logged IMMEDIATE_EMAIL - Email issues DAILY_REPORT - Included in report
highUsageSMSMOMonitoringPeriod	Yes	String	7	The period over which a device's mobile originated text messages is considered for high usage. This will be: D - Daily M - Monthly W - Weekly
rogueUsageSMSMOThreshold	Yes	Long	0 to 999,999,999,999	The threshold number of mobile originated text messages, above which a rogue usage alert will be generated for a device.
rogueUsageSMSMOAction	Yes	String	Up to 15	The action to be taken by the system when a device's mobile originated text message usage has reached the rogue usage threshold. Values: WARNING - Internal message logged IMMEDIATE_EMAIL - Email issues DAILY_REPORT - Included in report
rogueUsageSMSMOMonitoringPeriod	Yes	String	7	The period over which a device's mobile originated text messages is considered for rogue usage. This will be: D - Daily M - Monthly W - Weekly
linkedProfile	Yes	String	32	Name of the customer service profile that is linked to this profile. A linked profile is required when certain tariffs are used, specifying criteria that, when met, changes the service profile for a device to the linked service profile.

Name	Mandatory	Type	Size	Description
Tariff	Yes	String	40	Name of the tariff associated with this profile.
baseCountry	Yes	String	2	2 character country code. This is the base country for devices in this profile.
provisioningProfile	Yes	String	64	Identifies the provisioning profile relevant to this customer service profile.
profileInUseFlag	Yes	String	1	Y indicates that this profile is in use. If a profile is in use, then tariff, provisioning profile, or base country may not be changed.
imeiMatchRule	Yes	String	1	N – No IMEI checking T – Match TAC F – Match IMEI
imeiCaptureRule	Yes	String	1	F – Auto detect on first ever IMSI use L – Auto detect on first use in Active.Live state E – Manually configured
imeiDeviceAction	Yes	String	1	N – No action T – Tear down device session L – Tear down device session and suspend SIM
imeiAlertingAction	Yes	String	1	1 – No action 2 – Immediate Email 3 – Include in daily report
Tac	Yes	String	6 or 8	If imeiMatchRule is configured as T (match TAC) then this element represents the TAC against which the IMEI is matched.
defaultSmsPriority	Yes	Int	1	The priority at which to submit text messages if a priority is not specified in the submission. Corresponds to [Reference 1 §5.2.14] 0 = Level 0 (lowest) priority 1 = Level 1 priority 2 = Level 2 priority 3 = Level 3 (highest) priority

Name	Mandatory	Type	Size	Description
<code>defaultSmsValidityPeriod</code>	Yes	String	16	Corresponds to [Reference 1 §5.2.18] "YYMMDDhhmsstnp" where 'YY' last two digits of the year (00-99) 'MM' month (01-12) 'DD' day (01-31) 'hh' hour (00-23) 'mm' minute (00-59) 'ss' second (00-59) 't' tenths of second (0-9) 'nn' Time difference in quarter hours between localtime (as expressed in the first 13 octets) and UTC (Universal Time Constant) time (00-48). 'p' - "+" Local time is in quarter hours advanced in relation to UTC time. "-" Local time is in quarter hours retarded in relation to UTC time. "R" Local time is relative to the current SMSC time.
<code>defaultSmsReplace</code>	Yes	String	1	Corresponds to [Reference 1 §5.2.18] N – do not replace Y – replace

## setCustomerServiceProfileDetailsv4

The setCustomerServiceProfileDetailsv4 data type.

### Ancestors

None

### Relevant Operations

setCustomerServiceProfileDetailsv4

### Contents

The following table describes the elements of setCustomerServiceProfileDetailsv4.

Name	Mandatory	Type	Size	Description
<code>customerServiceProfileName</code>	Yes	<a href="#">tCustomerServiceProfileName</a>	32	The key identifying the customer service profile to be updated.
<code>customerServiceProfileDescription</code>	No	<a href="#">tCustomerServiceProfileDescription</a>	80	Descriptive text for a customer service profile.



Name	Mandatory	Type	Size	Description
postTestModeState	No	<a href="#">tDeviceState</a>	1	The state to which a device will move upon leaving test mode.
connectState	No	<a href="#">tDeviceState</a>	1	The initial state for devices added to this profile.
unassignedIndicator	No	<a href="#">tYesNoOptions</a>	1	Y/N indicating whether this profile is to be used for unassigned devices.
highUsagePacketThreshold	Yes	String	0 to 999,999,999,999	The threshold number of bytes, above which a high usage alert will be generated for a device.
highUsagePacketAction	Yes	<a href="#">tAlertActionOptionsv2</a>	Up to 15	The action to be taken by the system when a device's packet data usage has reached the high usage threshold. Values: WARNING - Internal message logged IMMEDIATE_EMAIL - Email issues DAILY_REPORT - Included in report
highUsagePacketMonitoringPeriod	Yes	<a href="#">tAlertMonitoringPeriodOptions</a>	7	The period over which a device's packet data is considered for high usage. This will be: D - Daily M - Monthly W - Weekly
rogueUsagePacketThreshold	Yes	String	0 to 999,999,999,999	The threshold number of bytes, above which a rogue usage alert will be generated for a device.
rogueUsagePacketAction	Yes	<a href="#">tAlertActionOptionsv2</a>	Up to 15	The action to be taken by the system when a device's packet data usage has reached the rogue usage threshold. Values: WARNING - Internal message logged IMMEDIATE_EMAIL - Email issues DAILY_REPORT - Included in report
rogueUsagePacketMonitoringPeriod	Yes	<a href="#">tAlertMonitoringPeriodOptions</a>	7	The period over which a device's packet data is considered for rogue usage. This will be: D - Daily M - Monthly W - Weekly
highUsageCSThreshold	Yes	String	0 to 999,999,999,999	The threshold number of seconds, above which a high usage alert will be generated for a device.

Name	Mandatory	Type	Size	Description
highUsageCSAction	Yes	<a href="#">AlertAction</a> <a href="#">Optionsv2</a>	Up to 15	The action to be taken by the system when a device's circuit switched usage has reached the high usage threshold. Values: WARNING - Internal message logged IMMEDIATE_EMAIL - Email issues DAILY_REPORT - Included in report
highUsageCSMonitoringPeriod	Yes	String	7	The period over which a device's circuit switched usage is considered for high usage. This will be: D - Daily M - Monthly W - Weekly
rogueUsageCSThreshold	Yes	String	0 to 999,999,9 99,999	The threshold number of seconds, above which a rogue usage alert will be generated for a device.
rogueUsageCSAction	Yes	<a href="#">AlertAction</a> <a href="#">Optionsv2</a>	Up to 15	The action to be taken by the system when a device's circuit switched usage has reached the rogue usage threshold. Values: WARNING - Internal message logged IMMEDIATE_EMAIL - Email issues DAILY_REPORT - Included in report
rogueUsageCSMonitoringPeriod	Yes	String	7	The period over which a device's circuit switched usage is considered for rogue usage. This will be: D - Daily M - Monthly W - Weekly
highUsageSMSMOThreshold	Yes	String	0 to 999,999,9 99,999	The threshold number of mobile originated text messages, above which a high usage alert will be generated for a device.

Name	Mandatory	Type	Size	Description
highUsageSMSMOAction	Yes	<a href="#">AlertAction</a> <a href="#">Optionsv2</a>	Up to 15	The action to be taken by the system when a device's mobile originated text message usage has reached the high usage threshold. Values: WARNING - Internal message logged IMMEDIATE_EMAIL - Email issues DAILY_REPORT - Included in report
highUsageSMSMOMonitoringPeriod	Yes	String	7	The period over which a device's mobile originated text messages is considered for high usage. This will be: D - Daily M - Monthly W - Weekly
rogueUsageSMSMOThreshold	Yes	String	0 to 999,999,9 99,999	The threshold number of mobile originated text messages, above which a rogue usage alert will be generated for a device.
rogueUsageSMSMOAction	Yes	<a href="#">AlertAction</a> <a href="#">Optionsv2</a>	Up to 15	The action to be taken by the system when a device's mobile originated text message usage has reached the rogue usage threshold. Values: WARNING - Internal message logged IMMEDIATE_EMAIL - Email issues DAILY_REPORT - Included in report
rogueUsageSMSMOMonitoringPeriod	Yes	String	7	The period over which a device's mobile originated text messages is considered for rogue usage. This will be: D - Daily M - Monthly W - Weekly

Name	Mandatory	Type	Size	Description
linkedProfile	No	<a href="#">tCustomerServiceProfileNameNillable</a>	blank, or up to 32	Name of the customer service profile that is linked to this profile. A linked profile is required when certain tariffs are used, specifying criteria that, when met, changes the service profile for a device to the linked service profile. Set to blank to remove the linked profile
Tariff	No	<a href="#">tTariffName</a>	40	Name of the tariff associated with this profile. This can only be changed if the profile is not already in use.
baseCountry	No	<a href="#">tCountryCode</a>	blank, or 2	2 character country code. This is the base country for devices in this profile. This can only be changed if the profile is not already in use. Set to blank to remove the base country
provisioningProfile	No	<a href="#">tProvisioningProfileName</a>	64	Identifies the provisioning profile relevant to this customer service profile. This can only be changed if the profile is not already in use.
imeiMatchRule	No	<a href="#">tImeiMatchRuleOptions</a>	1	N – No IMEI checking T – Match TAC F – Match IMEI
imeiCaptureRule	No	<a href="#">tImeiCaptureRuleOptions</a>	1	F – Auto detect on first ever IMSI use L – Auto detect on first use in Active.Live state E – Manually configured
imeiDeviceAction	No	<a href="#">tImeiDeviceActionOptions</a>	1	N – No action T – Tear down device session L – Tear down device session and suspend SIM
imeiAlertingAction	No	<a href="#">tAlertActionOptions</a>	1	1 – No action 2 – Immediate Email 3 – Include in daily report

Name	Mandatory	Type	Size	Description
Tac	No	<a href="#">tTac</a>	blank, or 6 or 8	If imeiMatchRule is configured as T (match TAC) then this element represents the TAC against which the IMEI is matched.
defaultSmsPriority	No	<a href="#">tSmsPriority</a> <a href="#">Options</a>	1	The priority at which to submit text messages if a priority is not specified in the submission. Corresponds to [Reference 1 §5.2.14] 0 = Level 0 (lowest) priority 1 = Level 1 priority 2 = Level 2 priority 3 = Level 3 (highest) priority
defaultSmsValidityPeriod	No	String	16	Corresponds to [Reference 1 §5.2.16] "YMMDDhhmmsstnp" where 'YY' last two digits of the year (00-99) 'MM' month (01-12) 'DD' day (01-31) 'hh' hour (00-23) 'mm' minute (00-59) 'ss' second (00-59) 't' tenths of second (0-9) 'nn' Time difference in quarter hours between localtime (as expressed in the first 13 octets) and UTC (Universal Time Constant) time (00-48). 'p' - "+" Local time is in quarter hours advanced in relation to UTC time. '-' Local time is in quarter hours retarded in relation to UTC time. 'R' Local time is relative to the current SMSC time.
defaultSmsReplace	No	<a href="#">tYesNoOptio</a> <a href="#">ns</a>	1	Corresponds to [Reference 1 §5.2.18] N – do not replace Y - replace
nginGroupld	No	Long		

## setCustomerServiceProfileDetailsv4Response

The setCustomerServiceProfileDetailsv4Response data type.

### Ancestors

None

**Relevant Operations**

setCustomerServiceProfileDetailsv4

**Contents**

The following table describes the elements of setCustomerServiceProfileDetailsv4Response.

Name	Description	Details
return	ResponseItem of the response object. Type: <a href="#">setCustomerServiceProfileDetailsResponseBody</a>	

**setCustomerServiceProfileDetailsv4ResponseBody**

The setCustomerServiceProfileDetailsv4ResponseBody data type

**Ancestors**

None

**Relevant Operations**

setCustomerServiceProfileDetailsv4Response

**Contents**

The following table describes the elements of setCustomerServiceProfileDetailsv4ResponseBody.

Name	Description	Details
returnCode	ResponseItem of the response object. Type: <a href="#">returnCode</a>	

**tCustomerServiceProfileName**

The tCustomerServiceProfileName data type.

**Ancestors**

setCustomerServiceProfileDetailsv4

**Relevant Operations**

setCustomerServiceProfileDetailsv4

**Contents**

None

**Type**

String

**tCustomerServiceProfileDescription**

The tCustomerServiceProfileDescription data type.

**Ancestors**

setCustomerServiceProfileDetailsv4

**Relevant Operations**

setCustomerServiceProfileDetailsv4

**Contents**

None

**Type**

String

## tDeviceState

The tDeviceState data type.

### Ancestors

setCustomerServiceProfileDetailsv4

### Relevant Operations

setCustomerServiceProfileDetailsv4, getFilteredDeviceListv3

### Contents

None

### Type

String

## tYesNoOptions

The tYesNo data type.

### Ancestors

setCustomerServiceProfileDetailsv4

### Relevant Operations

setCustomerServiceProfileDetailsv4

### Contents

The following table describes the Values of tYesNoOptions.

Name	Mandatory	Type	Size	Description
Y	No	String	1	"Yes" Option
N	No	String	1	"No" Option

## cloneCustomerServiceProfilev4

The cloneCustomerServiceProfilev4 data type.

### Ancestors

None

### Relevant Operations

cloneCustomerServiceProfilev4

### Contents

The following table describes the elements of cloneCustomerServiceProfilev4.

Name	Mandatory	Type	Size	Description
sourceCustomerServiceProfileName	Yes	<a href="#">tCustomerServiceProfileName</a>	32	Source customer service profile.
customerServiceProfileName	Yes	<a href="#">tCustomerServiceProfileName</a>	32	The name for the new customer service profile.
customerServiceProfileDescription	Yes	<a href="#">tCustomerServiceProfileDescription</a>	80	Descriptive text for a customer service profile.
postTestModeState	No	<a href="#">tDeviceState</a>	1	The state to which a device will move upon leaving test mode.

Name	Mandatory	Type	Size	Description
connectState	No	<a href="#">tDeviceState</a>	1	The initial state for devices added to this profile.
unassignedIndicator	No	<a href="#">tYesNoOptions</a>	1	Y/N indicating whether this profile is to be used for unassigned devices.
highUsagePacketThreshold	Yes	Long	0 to 999,999,999	The threshold number of bytes, above which a high usage alert will be generated for a device.
highUsagePacketAction	Yes	<a href="#">tAlertActionOptions</a>	Up to 15	The action to be taken by the system when a device's packet data usage has reached the high usage threshold. Values: WARNING - Internal message logged IMMEDIATE_EMAIL - Email issues DAILY_REPORT - Included in report
highUsagePacketMonitoringPeriod	Yes	<a href="#">tAlertMonitoringPeriodOptions</a>	7	The period over which a device's packet data is considered for high usage. This will be: D - Daily M - Monthly W - Weekly
rogueUsagePacketThreshold	Yes	Long	0 to 999,999,999	The threshold number of bytes, above which a rogue usage alert will be generated for a device.



Name	Mandatory	Type	Size	Description
<a href="#">rogueUsagePacketAction</a>	Yes	<a href="#">tAlertActionOptions</a>	Up to 15	The action to be taken by the system when a device's packet data usage has reached the rogue usage threshold. Values: WARNING - Internal message logged IMMEDIATE_EMAIL - Email issues DAILY_REPORT - Included in report
<a href="#">rogueUsagePacketMonitoringPeriod</a>	Yes	<a href="#">tAlertMonitoringPeriodOptions</a>	7	The period over which a device's packet data is considered for rogue usage. This will be: D - Daily M - Monthly W - Weekly
<a href="#">highUsageCSThreshold</a>	Yes	Long	0 to 999,999,999	The threshold number of seconds, above which a high usage alert will be generated for a device.
<a href="#">highUsageCSAction</a>	Yes	<a href="#">tAlertActionOptions</a>	Up to 15	The action to be taken by the system when a device's circuit switched usage has reached the high usage threshold. Values: WARNING - Internal message logged IMMEDIATE_EMAIL - Email issues DAILY_REPORT - Included in report
<a href="#">highUsageCSMonitoringPeriod</a>	Yes	<a href="#">tAlertMonitoringPeriodOptions</a>	7	The period over which a device's circuit switched usage is considered for high usage. This will be: D - Daily M - Monthly W - Weekly

Name	Mandatory	Type	Size	Description
<a href="#">rogueUsageCSThreshold</a>	Yes	Long	0 to 999,999,999	The threshold number of seconds, above which a rogue usage alert will be generated for a device.
<a href="#">rogueUsageCSAction</a>	Yes	<a href="#">AlertActionOptions</a>	Up to 15	The action to be taken by the system when a device's circuit switched usage has reached the rogue usage threshold. Values: WARNING - Internal message logged IMMEDIATE_EMAIL - Email issues DAILY_REPORT - Included in report
<a href="#">rogueUsageCSMonitoringPeriod</a>	Yes	<a href="#">AlertMonitoringPeriodOptions</a>	7	The period over which a device's circuit switched usage is considered for rogue usage. This will be: D - Daily M - Monthly W - Weekly
<a href="#">highUsageSMSMOThreshold</a>	Yes	Long	0 to 999,999,999	The threshold number of mobile originated text messages, above which a high usage alert will be generated for a device.
<a href="#">highUsageSMSMOAction</a>	Yes	<a href="#">AlertActionOptions</a>	Up to 15	The action to be taken by the system when a device's mobile originated text message usage has reached the high usage threshold. Values: WARNING - Internal message logged IMMEDIATE_EMAIL - Email issues DAILY_REPORT - Included in report

Name	Mandatory	Type	Size	Description
highUsageSMSMOMonitoringPeriod	Yes	<a href="#">tAlertMonitoringPeriodOptions</a>	7	The period over which a device's mobile originated text messages is considered for high usage. This will be: D - Daily M - Monthly W – Weekly
rogueUsageSMSMOThreshold	Yes	Long	0 to 999,999,999	The threshold number of mobile originated text messages, above which a rogue usage alert will be generated for a device.
rogueUsageSMSMOAction	Yes	<a href="#">tAlertActionOptions</a>	Up to 15	The action to be taken by the system when a device's mobile originated text message usage has reached the rogue usage threshold. Values: WARNING - Internal message logged IMMEDIATE_EMAIL - Email issues DAILY_REPORT - Included in report
rogueUsageSMSMOMonitoringPeriod	Yes	<a href="#">tAlertMonitoringPeriodOptions</a>	7	The period over which a device's mobile originated text messages is considered for rogue usage. This will be: D - Daily M - Monthly W – Weekly
vpnGroup	No	String	40	Identifies the VPN Group, if any, relevant
linkedProfile	No	<a href="#">tCustomerServiceProfileNameNillable</a>	32	Name of the customer service profile that is linked to this profile. A linked profile is required when certain tariffs are used, specifying criteria that, when met, changes the service profile for a device to the linked service profile.

Name	Mandatory	Type	Size	Description
Tariff	No	<a href="#">tTariffName</a>	40	Name of the tariff associated with this profile.
baseCountry	No	<a href="#">tCountryCode</a>	2	2 character country code. This is the base country for devices in this profile.
provisioningProfile	No	<a href="#">tProvisioningProfileName</a>	64	Identifies the provisioning profile relevant to this customer service profile.
imeiMatchRule	No	<a href="#">tImeiMatchRuleOptions</a>	1	N – No IMEI checking T – Match TAC F – Match IMEI
imeiCaptureRule	No	<a href="#">tImeiCaptureRuleOptions</a>	1	F – Auto detect on first ever IMSI use L – Auto detect on first use in Active.Live state E – Manually configured
imeiDeviceAction	No	<a href="#">tImeiDeviceActionOptions</a>	1	N – No action T – Tear down device session L – Tear down device session and suspend SIM
imeiAlertingAction	No	<a href="#">tAlertActionOptions</a>	1	1 – No action 2 – Immediate Email 3 – Include in daily report
Tac	No	<a href="#">tTac</a>	blank, or 6 or 8	If imeiMatchRule is configured as T (match TAC) then this element represents the TAC against which the IMEI is matched.
defaultSmsPriority	No	<a href="#">tSmsPriorityOptions</a>	1	The priority at which to submit text messages if a priority is not specified in the submission. Corresponds to [Reference 1 §5.2.14] 0 = Level 0 (lowest) priority 1 = Level 1 priority 2 = Level 2 priority 3 = Level 3 (highest) priority

Name	Mandatory	Type	Size	Description
<a href="#">defaultSmsValidityPeriod</a>	No	String	16	Corresponds to [Reference 1 §5.2.16] <b>"YMMDDhhmsstnp"</b> where 'YY' last two digits of the year (00-99) 'MM' month (01-12) 'DD' day (01-31) 'hh' hour (00-23) 'mm' minute (00-59) 'ss' second (00-59) 't' tenths of second (0-9) 'nn' Time difference in quarter hours between localtime (as expressed in the first 13 octets) and UTC (Universal Time Constant) time (00-48). 'p' - "+" Local time is in quarter hours advanced in relation to UTC time. "-" Local time is in quarter hours retarded in relation to UTC time. "R" Local time is relative to the current SMSC time.
<a href="#">defaultSmsReplace</a>	No	<a href="#">tYesNoOptions</a>	1	Corresponds to [Reference 1 §5.2.18] N – do not replace Y – replace

## cloneCustomerServiceProfilev4Response

The cloneCustomerServiceProfilev4Response data type.

### Ancestors

None

### Relevant Operations

cloneCustomerServiceProfilev4

### Contents

The following table describes the elements of cloneCustomerServiceProfilev4Response.

Name	Description	Details
<a href="#">return</a>	ResponseDetails of the response object. Type: <a href="#">cloneCustomerServiceProfilev4ResponseDetails</a>	

## cloneCustomerServiceProfilev4ResponseDetails

The cloneCustomerServiceProfilev4ResponseDetails data type.

### Ancestors

cloneCustomerServiceProfilev4Response

### Relevant Operations

cloneCustomerServiceProfilev4

### Contents

The following table describes the elements of cloneCustomerServiceProfilev4ResponseDetails.

Name	Description	Details
returnCode	The return object of the API Type: <a href="#">returnCode</a>	

## tAlertActionOptionsv2

The tAlertActionOptionsv2 data type.

### Ancestors

setCustomerServiceProfileDetailsv4

### Relevant Operations

setCustomerServiceProfileDetailsv4

### Contents

The following table describes the values of tAlertActionOptionsv2.

Name	Mandatory	Type	Size	Description
NULL		String	0	No threshold processing
WARNING		String	7	No action - warning logged
IMMEDIATE_EMAIL		String	15	Immediate Email
DAILY_REPORT		String	12	Include in daily report

## tAlertMonitoringPeriodOptions

The tAlertMonitoringPeriodOptions data type.

### Ancestors

setCustomerServiceProfileDetailsv4

### Relevant Operations

setCustomerServiceProfileDetailsv4

### Contents

The following table describes the values of tAlertMonitoringPeriodOptions.

Name	Mandatory	Type	Size	Description
NULL		String	0	No threshold processing
D		String	1	Daily
M		String	1	Monthly
W		String	1	weekly

## tCustomerServiceProfileNameNillable

The tCustomerServiceProfileNillable data type.

### **Ancestors**

setCustomerServiceProfileDetailsv4

### **Relevant Operations**

setCustomerServiceProfileDetailsv4

### **Contents**

None

### **Type**

String

### **Size**

0 up to 32

## tTariffName

The tTariffName data type.

### **Ancestors**

setCustomerServiceProfileDetailsv4

### **Relevant Operations**

setCustomerServiceProfileDetailsv4

### **Contents**

None

### **Type**

String

### **Size**

1 up to 40

## tCountryCode

The tCountryCode data type.

### **Ancestors**

setCustomerServiceProfileDetailsv4

### **Relevant Operations**

setCustomerServiceProfileDetailsv4

### **Contents**

None

### **Type**

String

### **Size**

2

## tProvisioningProfileName

The tProvisioningProfileName data type.

### **Ancestors**

setCustomerServiceProfileDetailsv4

**Relevant Operations**

setCustomerServiceProfileDetailsv4

**Contents**

None

**Type**

String

**Size**

0 up to 64

**tlmeiMatchRuleOptions**

The tlmeiMatchRuleOptions data type.

**Ancestors**

setCustomerServiceProfileDetailsv4

**Relevant Operations**

setCustomerServiceProfileDetailsv4

**Contents**

The following table describes the values of tlmeiMatchRuleOptions

Name	Mandatory	Type	Size	Description
N		String	1	No IMEI Checking
T		String	1	Match TAC
F		String	1	Match IMEI

**tlmeiCaptureRuleOptions**

The tlmeiCaptureRuleOptions data type.

**Ancestors**

setCustomerServiceProfileDetailsv4

**Relevant Operations**

setCustomerServiceProfileDetailsv4

**Contents**

The following table describes the values of tlmeiCaptureRuleOptions.

Name	Mandatory	Type	Size	Description
F		String	1	Auto detect on first ever IMSI use
L		String	1	Match TAC
E		String	1	Match IMEI

**tlmeiDeviceActionOptions**

The tlmeiDeviceActionOptions data type.

**Ancestors**

setCustomerServiceProfileDetailsv4

**Relevant Operations**

setCustomerServiceProfileDetailsv4



**Contents**

The following table describes the values of tImeiDeviceActionOptions.

Name	Mandatory	Type	Size	Description
N		String	1	No action
T		String	1	Tear down device session
L		String	1	Tear down device session and suspend SIM

**tAlertActionOptions**

The tAlertActionOptions data type.

**Ancestors**

setCustomerServiceProfileDetailsv4

**Relevant Operations**

setCustomerServiceProfileDetailsv4

**Contents**

The following table describes the values of tAlertActionOptions.

Name	Mandatory	Type	Size	Description
1		Int	1	No action
2		Int	1	Immediate Email
3		Int	1	Include in daily report

**tTac**

The tTac data type.

**Ancestors**

setCustomerServiceProfileDetailsv4

**Relevant Operations**

setCustomerServiceProfileDetailsv4

**Contents**

None

**Type**

String

**Size**

0 to 8

**tSmsPriorityOptions**

The tSmsPriorityOptions data type.

**Ancestors**

setCustomerServiceProfileDetailsv4

**Relevant Operations**

setCustomerServiceProfileDetailsv4

**Contents**

The following table describes the values of tSMSPriorityOptions.

Name	Mandatory	Type	Size	Description
0		Int	1	Lowest Priority
1		Int	1	
2		Int	1	
3		Int	1	Highest Priority

## getDeviceDetails

The getDeviceDetails data type.

### Ancestors

None

### Relevant Operations

getDeviceDetails

### Contents

The following table describes the elements of getDeviceDetails.

Name	Mandatory	Type	Size	Description
deviceid	Yes	<a href="#">tDeviceid</a>	15	The device identifier. This is an IMSI or ICICID

## getDeviceDetailsResponse

The getDeviceDetailsResponse data type.

### Ancestors

None

### Relevant Operations

getDeviceDetails

### Contents

The following table describes the elements of getDeviceDetailsResponse.

Name	Description	Details
return	ResponseItem of the response object Type: <a href="#">getDeviceDetailsResponseItem</a>	

## getDeviceDetailsResponseItem

The getDeviceDetailsResponseItem data type.

### Ancestors

getDeviceDetailsResponse

### Relevant Operations

getDeviceDetails

### Contents

The following table describes the elements of getDeviceDetailsResponseItem.

Name	Description	Details
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<b>returnCode</b>	The return object of the API Type: <a href="#">returnCode</a>	
<b>baseCountry</b>	Base country of the SIM Type: String	
<b>customerAttribute1</b>	Customer Attribute1 Type: String	
<b>customerAttribute2</b>	Customer Attribute2 Type: String	
<b>customerAttribute3</b>	Customer Attribute3 Type: String	
<b>customerAttribute4</b>	Customer Attribute4 Type: String	
<b>customerAttribute5</b>	Customer Attribute5 Type: String	
<b>customerServiceProfile</b>	Customer Service Profile Name Type: String	
<b>deviceId</b>	Identifier of the device. Value=IMSI Type: <a href="#">tDeviceId</a>	
<b>deviceInformationList</b>	List of device information Type: <a href="#">tDeviceInformationList</a>	
<b>imei</b>	IMEI of this device Type: String	
<b>state</b>	State of the device Type: String	Current SIM State for the device, one of: 'N' = Not provisioned 'X' = Inactive 'A' = Active Live 'T' = Active Test ...etc

## tDeviceId

The tDeviceId data type.

### **Ancestors**

getDeviceDetails

### **Relevant Operations**

getDeviceDetails\_getFilteredDeviceListv3

### **Contents**

None

**Type**

String

**Size**

15

## tDeviceInformationList

The tDeviceInformationList data type.

**Ancestors**

getDeviceDetails

**Relevant Operations**

getDeviceDetails

**Contents**

The following table describes the elements of tDeviceInformationList.

Name	Description	Details
deviceInformationItem	Type: <a href="#">tDeviceInformationItem</a>	

## tDeviceInformationItem

The tDeviceInformationItem data type.

**Ancestors**

tDeviceInformationList

**Relevant Operations**

getDeviceDetails

**Contents**

The following table describes the elements of tDeviceInformationItem.

Name	Mandatory	Type	Size	Description
itemName	Yes	String		The name of the item of information
itemType	Yes	String		The type of the item of information: String Number dateTime
itemValue	No	String		The value of the item of information.

## getDeviceHistory

The getDeviceHistory data type.

**Ancestors**

None

**Relevant Operations**

getDeviceHistory

**Contents**

The following table describes the values of getDeviceHistory.

Name	Mandatory	Type	Size	Description
deviceId	Yes	<a href="#">tDeviceId</a>	15	The device identifier. This is an IMSI or ICICID
startDate	No	dateTime		Date from which information is requested (YYYY-MM-DDTHH24:MI:SS)
endDate	No	dateTime		Date to which information is requested (YYYY-MM-DDTHH24:MI:SS)
pageSize	No	long		Number of records to return in a single response message. If this parameter is specified, so must be pageNumber
pageNumber	No	long		Which block of results to be returned. If this parameter is specified, so must be pageSize.

## getDeviceHistoryResponse

The getDeviceHistoryResponse data type.

### Ancestors

None

### Relevant Operations

getDeviceHistory

### Contents

The following table describes the elements of getDeviceHistoryResponse.

Name	Description	Details
returnCode	The return object of the API. Type: <a href="#">returnCode</a>	
matchedResults	The total number of matching records. Note that there will be a maximum of the pageSize requested number elements in the list. Type: long	
deviceHistoryList	Contains a list of name/type/value triplets of information relating to the device. Type: <a href="#">tDeviceHistory</a>	

## tDeviceHistory

The tDeviceHistory data type.

### Ancestors

getDeviceHistoryResponse

### Relevant Operations

getDeviceHistory

### Contents

The following table describes the elements of tDeviceHistory.

Name	Mandatory	Type	Size	Description
deviceHistoryItem	Yes	<a href="#">tDeviceHistoryItem</a>		The results are ordered by timestamp, in descending order – i.e. the most recent changes will be reported first.

## tDeviceHistoryItem

The tDeviceHistoryItem data type.

### Ancestors

tDeviceHistory

### Relevant Operations

getDeviceHistory

### Contents

The following table describes the elements of tDeviceHistoryItem.

Name	Mandatory	Type	Size	Description
timestamp	Yes	dateTime		The timestamp of the change
operation	Yes	String	20	The change type
customerServiceProfileName	Yes	String	32	The Customer Service Profile Name at this time
state	Yes	String	30	The state in which this device is
baseCountry	Yes	String	2	The home country for this device
imei	Yes	String	16	The IMEI for this device

## getDeviceRegistrationDetails

The getDeviceRegistrationDetails data type.

### Ancestors

None

### Relevant Operations

getDeviceRegistrationDetails

### Contents

The following table describes the values of getDeviceRegistrationDetails.

Name	Mandatory	Type	Size	Description
deviceId	Yes	<a href="#">tDeviceId</a>	15	The device identifier. This is an IMSI or ICICID

## getDeviceRegistrationDetailsResponse

The getDeviceRegistrationDetailsResponse data type.

### Ancestors

None

### Relevant Operations

getDeviceRegistrationDetails

### Contents

The following table describes the elements of getDeviceRegistrationDetailsResponse.

Name	Description	Details
return	The return object of the API Type: <a href="#">getDeviceRegistrationDetailsResponseItem</a>	

## getDeviceRegistrationDetailsResponseItem

The getDeviceRegistrationDetailsResponseItem data type

### Ancestors

getDeviceRegistrationDetailsResponse

### Relevant Operations

getDeviceRegistrationDetails

### Contents

The following table describes the elements of getDeviceRegistrationDetailsResponseItem.

Name	Mandatory	Type	Size	Description
returnCode	Yes	<a href="#">returnCode</a>		The return code of the API
registrationDetailsUpdated Timestamp	Yes	<a href="#">dateTime</a>		Indicates when the results were obtained from the network element. If the network element that holds the registration information is not available, or is busy, then the latest information held on the system may be returned. This timestamp indicates the age of that information.
registrationStatusInformation	Yes	<a href="#">registrationStatusInformation</a>		Contains a list of name/type/value triplets of information relating to the device.

## registrationStatusInformation

The registrationStatusInformation data type.

### Ancestors

getDeviceRegistrationDetailsResponseItem

### Relevant Operations

getDeviceRegistrationDetails

### Contents

The following table describes the elements of registrationStatusInformation.

Name	Mandatory	Type	Size	Description
section	Yes	<a href="#">registrationStatusInformationSection</a>		

## registrationStatusInformationSection

The registrationStatusInformationSection data type.

### Ancestors

registrationStatusInformation

### Relevant Operations

getDeviceRegistrationDetails

### Contents

The following table describes the elements of registrationStatusInformationSection.

Name	Mandatory	Type	Size	Description
sectionName	Yes	String		The name of this section of information
sectionParam	Yes	<a href="#">registrationStatusInformationSectionParam</a>		

## registrationStatusInformationSectionParam

The registrationStatusInformationSectionParam data type.

### Ancestors

registrationStatusInformationSection

### Relevant Operations

getDeviceRegistrationDetails

### Contents

The following table describes the elements of registrationStatusInformationSectionParam.

Name	Mandatory	Type	Size	Description
sectionParamName	Yes	String		The name of the item of information
sectionParamValue	Yes	String		The value of the item of information.

## setDeviceDetailsv2

The setDeviceDetailsv2 data type.

### Ancestors

None

### Relevant Operations

setDeviceDetailsv2

### Contents

The following table describes the values of setDeviceDetailsv2.



Name	Mandatory	Type	Size	Description
deviceId	Yes	<a href="#">tDeviceId</a>	15	Identifier that uniquely identify the device. Value = IMSI or ICICID
customerServiceProfile	No	<a href="#">tCustomerServiceProfileName</a>	32	The new customerServiceProfile to set. Note that only one of state or customerService Profile may be changed at any one time, as changing the customerServiceProfile necessarily changes the state of the device.
state	No	<a href="#">tDeviceState</a>	30	The new state to set. Note that only one of state or customerService Profile may be changed at any one time, as changing the customerServiceProfile necessarily changes the state of the device.
imei	No	<a href="#">timei</a>	16	The IMEI to set in the database. This value will be stored in the database, and if the IMEI reported by the device is different to the IMEI stored in the database, then a warning is logged internally, and the IMEI changed by GDSP to the IMEI reported by the device.
baseCountry	No	<a href="#">tCountryCode</a>	2	The two character country code to set. This can only be changed if the profile to which this device is currently assigned does not have any baseCountry specified.
customAttribute1	No	<a href="#">tCustomAttribute</a>	64	New data to be stored in custom attribute field 1
customAttribute2	No	<a href="#">tCustomAttribute</a>	64	New data to be stored in custom attribute field 2
customAttribute3	No	<a href="#">tCustomAttribute</a>	64	New data to be stored in custom attribute field 3
customAttribute4	No	<a href="#">tCustomAttribute</a>	64	New data to be stored in custom attribute field 4
customAttribute5	No	<a href="#">tCustomAttribute</a>	64	New data to be stored in custom attribute field 5

Name	Mandatory	Type	Size	Description
<code>staticIpAddress</code>	No	<a href="#">Ipv4Address</a>	15	IPv4 address in octet dot notation (nnn.nnn.nnn.nnn) to be allocated to this device for packet data sessions.

## setDeviceDetailsv2Response

The setDeviceDetailsv2Response data type.

### Ancestors

None

### Relevant Operations

setDeviceDetailsv2

### Contents

The following table describes the elements of setDeviceDetailsv2Response.

Name	Description	Details
<code>Return</code>	The responseItem of the response object. Type: <a href="#">setDeviceDetailsv2ResponseItem</a>	

## setDeviceDetailsv2ResponseItem

The setDeviceDetailsv2ResponseItem data type.

### Ancestors

setDeviceDetailsv2Response

### Relevant Operations

setDeviceDetailsv2

### Contents

The following table describes the elements of setDeviceDetailsv2ResponseItem.

Name	Description	Details
<code>returnCode</code>	The return object of the API Type: <a href="#">returnCode</a>	

## tlmei

The tlmei data type.

### Ancestors

setDeviceDetailsv2

### Relevant Operations

setDeviceDetailsv2

### Contents

None

### Type

String

### Size

14 up to 16

## tCustomAttribute

The tCustomAttribute data type.

### Ancestors

setDeviceDetailsv2

### Relevant Operations

setDeviceDetailsv2, getFilteredDeviceListv3

### Contents

None

### Type

String

### Size

0 up to 64

## tIpV4Address

The tIpV4Address data type.

### Ancestors

setDeviceDetailsv2

### Relevant Operations

setDeviceDetailsv2

### Contents

None

### Type

String

### Size

0 up to 15

## setDeviceCredentials

The setDeviceCredentials data type.

### Ancestors

None

### Relevant Operations

setDeviceCredentials

### Contents

The following table describes the values of setDeviceCredentials.

Name	Mandatory	Type	Size	Description
deviceId	Yes	<a href="#">tDeviceId</a>	15	Identifier that uniquely identify the device. Value = IMSI or ICICID
userId	Yes	<a href="#">tDeviceUserId</a>	Up to 16	Device's userID

Name	Mandatory	Type	Size	Description
Password	Yes	<a href="#">tDevicePassword</a>	Up to 16	Device's initial password (unencrypted)

## setDeviceCredentialsResponse

The setDeviceCredentialsResponse data type.

### Ancestors

None

### Relevant Operations

setDeviceCredetnials

### Contents

The following table describes the elements of setDeviceCredentialsResponse.

Name	Description	Details
Return	Type: <a href="#">deviceCredentialsResponse</a>	

## deviceCredentialsResponse

The deviceCredentialsResponse data type.

### Ancestors

setDeviceCredentialsResponse

### Relevant Operations

setDeviceCredetnials, updateDeviceCredentials

### Contents

The following table describes the elements of deviceCredentialsResponse.

Name	Description	Details
returnCode	The return code of the API Type: <a href="#">returnCode</a>	
deviceId	Type: <a href="#">tDeviceId</a>	

## tDeviceUserId

The tDeviceUserId data type.

### Ancestors

setDeviceCredentials

### Relevant Operations

setDeviceCredentials

### Contents

None

### Type

String

### Size

1 up to 16

## tDevicePassword

The tDevicePassword data type.

### Ancestors

setDeviceCredentials

### Relevant Operations

setDeviceCredentials

### Contents

None

### Type

String

### Size

1 up to 16

## updateDeviceCredentials

The updateDeviceCredentials data type.

### Ancestors

None

### Relevant Operations

updateDeviceCredentials

### Contents

The following table describes the values of updateDeviceCredentials.

Name	Mandatory	Type	Size	Description
deviceId	Yes	<a href="#">tDeviceId</a>	15	Identifier that uniquely identify the device. Value = IMSI or ICICID
password	Yes	<a href="#">tDevicePassword</a>	Up to 16	Device's initial password (unencrypted)

## updateDeviceCredentialsResponse

The updateDeviceCredentialsResponse data type.

### Ancestors

None

### Relevant Operations

updateDeviceCredetnials

### Contents

The following table describes the elements of updateDeviceCredentialsResponse.

Name	Description	Details
return	Type: <a href="#">deviceCredentialsResponse</a>	

## submitWUTriggerv2

The submitWUTriggerv2 data type.

### Ancestors

None

**Relevant Operations**

submitWUTriggerv2

**Contents**

The following table describes the values of submitWUTriggerv2.

Name	Mandatory	Type	Size	Description
deviceld	Yes	<a href="#">tDeviceld</a>	15	Identifier that uniquely identify the device. Value = IMSI or ICICID
sourceId	Yes	String	Up to 15	ID of message sender
triggerType	Yes	<a href="#">tTriggerType</a>	3	Type of trigger: "SMS" or "CSD" <a href="#">Note: CSD wake-up not implemented in this release.</a>
Priority	Yes	<a href="#">tSmsPriorityOptions</a>		The priority Of the submit test message. Corresponds to [Reference 1 §5.2.16] 0 = Level 0 (lowest) priority 1 = Level 1 priority 2 = Level 2 priority 3 = Level 3 (highest) priority

Name	Mandatory	Type	Size	Description
validityPeriod	Yes	String	16	Corresponds to [Reference 1 §5.2.16] "YYMMDDhhmmssstnp" where 'YY' last two digits of the year (00-99) 'MM' month (01-12) 'DD' day (01-31) 'hh' hour (00-23) 'mm' minute (00-59) 'ss' second (00-59) 't' tenths of second (0-9) 'nn' Time difference in quarter hours between localtime (as expressed in the first 13 octets) and UTC (Universal Time Constant) time (00-48). 'p' - "+" Local time is in quarter hours advanced in relation to UTC time. "-" Local time is in quarter hours retarded in relation to UTC time. "R" Local time is relative to the current SMSC time.
replaceIfPresent	Yes	<a href="#">YesNoOptions</a>	1	Corresponds to [Reference 1 §5.2.18] N – do not replace Y - replace

## submitWUTriggerv2Response

The submitWUTriggerv2Response data type.

### Ancestors

None

### Relevant Operations

submitWUTriggerv2

### Contents

The following table describes the elements of submitWUTriggerv2Response.

Name	Description	Details
return	Type: <a href="#">wuTriggerv2Response</a>	

## wuTriggerv2Response

The wuTriggerv2Response data type.

### Ancestors

submitWUTriggerv2Response

### Relevant Operations

submitWUTriggerv2

### Contents

The following table describes the elements of wuTriggerv2Response.

Name	Description	Details
returnCode	The return code of the API Type: <a href="#">returnCode</a>	
deviceId	Type: <a href="#">tDeviceId</a>	
triggerType	Type: String	

## tTriggerType

The tTriggerType data type.

### Ancestors

submitWUTriggerv2

### Relevant Operations

submitWUTriggerv2

### Contents

The following table describes the elements of tTriggerType.

Name	Description	Details
SMS	Type:String	
CSD	Type:String	Note: CSD is not supported in this release

## submitSMSv2

The submitSMSv2 data type.

### Ancestors

None

### Relevant Operations

submitSMSv2

### Contents

The following table describes the values of submitSMSv2.

Name	Mandatory	Type	Size	Description
deviceId	Yes	String	15	Identifier that uniquely identify the device. Value = IMSI or ICICID
sourceId	Yes	String	15	ID of message sender



Name	Mandatory	Type	Size	Description
messageData	Yes	base64Binary	See comment	Text message represented in Base64. When decoded, the maximum length for a Text message is 160 characters, for a Unicode and Binary message is 140 characters.
messageType	Yes	<a href="#">tSmsMessageTypeOptions</a>	7	Specifies the type of message to be submitted. Text => default SMS alphabet Unicode Binary
messageUDH	No	<a href="#">tYesNoOptions</a>	1	Y or N. This flag is used to indicate whether the user data header flag is to be set. This may be used to submit concatenated text messages. If this element is not present, the default is that user data header is not present.
Priority	No	<a href="#">tSmsPriorityOptions</a>	1	Corresponds to [Reference 1 §5.2.14] 0 = Level 0 (lowest) priority 1 = Level 1 priority 2 = Level 2 priority 3 = Level 3 (highest) priority

Name	Mandatory	Type	Size	Description
validityPeriod	No	String	16	Corresponds to [Reference 1 §5.2.16] "YMMDDhhmsstnp" where 'YY' last two digits of the year (00-99) 'MM' month (01-12) 'DD' day (01-31) 'hh' hour (00-23) 'mm' minute (00-59) 'ss' second (00-59) 't' tenths of second (0-9) 'nn' Time difference in quarter hours between localtime (as expressed in the first 13 octets) and UTC (Universal Time Constant) time (00-48). 'p' - "+" Local time is in quarter hours advanced in relation to UTC time. "-" Local time is in quarter hours retarded in relation to UTC time. "R" Local time is relative to the current SMSC time.
replacelfPresent	No	<a href="#">YesNoOptions</a>	1	Corresponds to [Reference 1 §5.2.18] N – do not replace Y – replace

## submitSMSv2Response

The submitSMSv2Response data type.

### Ancestors

None

### Relevant Operations

submitSMSv2

### Contents

The following table describes the elements of submitSMSv2Response.

Name	Description	Details
return	Type: <a href="#">smsv2Response</a>	

## smsv2Response

The smsv2Response data type.

### Ancestors

submitSMSv2Response

### Relevant Operations

submitSMSv2

### Contents

The following table describes the elements of smsv2Response.

Name	Description	Details
returnCode	The return code of the API Type: <a href="#">returnCode</a>	
deviceId	Type: String	
messageReference	Type: String	

## tSmsMessageTypeOptions

The tSmsMessageTypeOptions data type.

### Ancestors

submitSMSv2

### Relevant Operations

submitSMSv2

### Contents

The following table describes the elements of tSmsMessageTypeOptions.

Name	Description	Details
Text	Type:String	
Binary	Type:String	
Unicode	Type:String	

## getFilteredDeviceListv4

The getFilteredDeviceListv4data type.

### Ancestors

None

### Relevant Operations

getFilteredDeviceListv4

### Contents

The following table describes the values of getFilteredDeviceListv4.

Name	Mandatory	Type	Size	Description
pageSize	No	long		Number of records to return in a single response message. If this parameter is specified, so must be pageNumber
pageNumber	No	long		Which block of results to be returned. If this parameter is specified, so must be pageSize.
matchImsi	No	<a href="#">tImsiList</a>	Up to 100	If present, the returned list of devices will be filtered to match the specified IMSIs.
matchMsisdn	No	<a href="#">tMsisdnList</a>	Up to 100	If present, the returned list of devices will be filtered to match the specified MSISDNs.
matchIccid	No	<a href="#">tIccidList</a>	Up to 100	If present, the returned list of devices will be filtered to match the specified ICCIDs.
matchCustomerServiceProfiles	No	<a href="#">tCustomerServiceProfileList</a>	Up to 100	If present, the returned list of devices will be filtered to match the specified customer service profiles.
matchRagStatus	No	<a href="#">tRagStateList</a>	Up to 3	If present, the returned list of devices will be filtered to match the specified RAG states.
matchDeviceState	No	<a href="#">tDeviceStateList</a>	Up to 100	If present, the returned list of devices will be filtered to match the specified state.
matchAlert	No	<a href="#">tAlertTypeList</a>	Up to 100	If present, the returned list of devices will be filtered to those that have had an alert of the specified type in the current alert monitoring period.
matchEarliestFirstUsedDate	No	dateTime		Date when the device was first used. Format (YYYY-MM-DDTHH24:MI:SS)
matchCustomerOrderNumber	No	<a href="#">tCustomerOrderNumberList</a>		If present, the returned list of devices will be filtered to those that relate to the specified customer orders.

Name	Mandatory	Type	Size	Description
matchCustomAttribute1	No	<a href="#">tCustomAttributeList</a>	Up to 100	If present, the returned list of devices will be filtered to those whose custom attribute 1 matches the specified values.
matchCustomAttribute2	No	<a href="#">tCustomAttributeList</a>	Up to 100	If present, the returned list of devices will be filtered to those whose custom attribute 2 matches the specified values.
matchCustomAttribute3	No	<a href="#">tCustomAttributeList</a>	Up to 100	If present, the returned list of devices will be filtered to those whose custom attribute 3 matches the specified values.
matchCustomAttribute4	No	<a href="#">tCustomAttributeList</a>	Up to 100	If present, the returned list of devices will be filtered to those whose custom attribute 4 matches the specified values.
matchCustomAttribute5	No	<a href="#">tCustomAttributeList</a>	Up to 100	If present, the returned list of devices will be filtered to those whose custom attribute 5 matches the specified values.
sortField	No	String		Name of the field based on which results are sorted
sortFieldOrderDirection	No	String		Sort order (ASC – For ascending DESC for descending)

## getFilteredDeviceListv3

The getFilteredDeviceListv3 data type.

### Ancestors

None

### Relevant Operations

getFilteredDeviceListv3

### Contents

The following table describes the values of getFilteredDeviceListv3.

Name	Mandatory	Type	Size	Description
pageSize	No	long		Number of records to return in a single response message. If this parameter is specified, so must be pageNumber
pageNumber	No	long		Which block of results to be returned. If this parameter is specified, so must be pageSize.

Name	Mandatory	Type	Size	Description
matchImsi	No	<a href="#">tImsiList</a>	Up to 100	If present, the returned list of devices will be filtered to match the specified IMSIs.
matchMsisdn	No	<a href="#">tMsisdnList</a>	Up to 100	If present, the returned list of devices will be filtered to match the specified MSISDNs.
matchIccid	No	<a href="#">tIccidList</a>	Up to 100	If present, the returned list of devices will be filtered to match the specified ICCIDs.
matchCustomerServiceProfiles	No	<a href="#">tCustomerServiceProfileList</a>	Up to 100	If present, the returned list of devices will be filtered to match the specified customer service profiles.
matchRagStatus	No	<a href="#">tRagStateList</a>	Up to 3	If present, the returned list of devices will be filtered to match the specified RAG states.
matchDeviceState	No	<a href="#">tDeviceStateList</a>	Up to 100	If present, the returned list of devices will be filtered to match the specified state.
matchAlert	No	<a href="#">tAlertTypeList</a>	Up to 100	If present, the returned list of devices will be filtered to those that have had an alert of the specified type in the current alert monitoring period.
matchEarliestFirstUsedDate	No	dateTime		Date when the device was first used. Format (YYYY-MM-DDTHH24:MI:SS)
matchCustomerOrderNumber	No	<a href="#">tCustomerOrderNumberList</a>		If present, the returned list of devices will be filtered to those that relate to the specified customer orders.
matchCustomAttribute1	No	<a href="#">tCustomAttributeList</a>	Up to 100	If present, the returned list of devices will be filtered to those whose custom attribute 1 matches the specified values.
matchCustomAttribute2	No	<a href="#">tCustomAttributeList</a>	Up to 100	If present, the returned list of devices will be filtered to those whose custom attribute 2 matches the specified values.

Name	Mandatory	Type	Size	Description
<a href="#">matchCustomAttribute3</a>	No	<a href="#">tCustomAttributeList</a>	Up to 100	If present, the returned list of devices will be filtered to those whose custom attribute 3 matches the specified values.
<a href="#">matchCustomAttribute4</a>	No	<a href="#">tCustomAttributeList</a>	Up to 100	If present, the returned list of devices will be filtered to those whose custom attribute 4 matches the specified values.
<a href="#">matchCustomAttribute5</a>	No	<a href="#">tCustomAttributeList</a>	Up to 100	If present, the returned list of devices will be filtered to those whose custom attribute 5 matches the specified values.
<a href="#">sortField</a>	No	String		Name of the field based on which results are sorted
<a href="#">sortFieldOrderDirection</a>	No	String		Sort order (ASC – For ascending DESC for descending)

## getFilteredDeviceListResponse

The getFilteredDeviceListResponse data type.

### Ancestors

None

### Relevant Operations

getFilteredDeviceListv3, getFilteredDeviceList, getFilteredDeviceList

### Contents

The following table describes the elements of getFilteredDeviceListResponse.

Name	Description	Details
<a href="#">return</a>	Type: <a href="#">filteredDeviceListResponse</a>	

## filteredDeviceListResponse

The filteredDeviceListResponse data type.

### Ancestors

getFilteredDeviceListResponse

### Relevant Operations

getFilteredDeviceListv3, getFilteredDeviceList, getFilteredDeviceList

### Contents

The following table describes the elements of filteredDeviceListResponse.

Name	Description	Details
------	-------------	---------

<code>returnCode</code>	The return code of the API Type: <a href="#">returnCode</a>	
<code>deviceList</code>	Type: <a href="#">tDeviceList</a>	
<code>matchedResults</code>	Type: long	

## tImssiList

The tImssiList data type.

### Ancestors

getFilteredDeviceListv3

### Relevant Operations

getFilteredDeviceListv3

### Contents

The following table describes the elements of tImssiList.

Name	Description	Details
<code>imsi</code>	Type: <a href="#">tDeviceId</a>	

## tMsisdnList

The tMsisdnList data type.

### Ancestors

getFilteredDeviceListv3

### Relevant Operations

getFilteredDeviceListv3

### Contents

The following table describes the elements of tMsisdnList.

Name	Description	Details
<code>msisdn</code>	Type: <a href="#">tMsisdn</a>	

## tMsisdn

The tMsisdn data type.

### Ancestors

tMsisdnList

### Relevant Operations

getFilteredDeviceListv3

### Contents

None

### Type

String

### Size

15



## tlccidList

The tlccidList data type.

### Ancestors

getFilteredDeviceListv3

### Relevant Operations

getFilteredDeviceListv3

### Contents

The following table describes the elements of tlccidList.

Name	Description	Details
lccid	Type: <a href="#">tlccid</a>	

## tlccid

The tlccid data type.

### Ancestors

tlccidList

### Relevant Operations

getFilteredDeviceListv3

### Contents

None

### Type

String

### Size

18 upto 20

## tCustomerServiceProfileList

The tCustomerServiceProfileList data type.

### Ancestors

getFilteredDeviceListv3

### Relevant Operations

getFilteredDeviceListv3

### Contents

The following table describes the elements of tCustomerServiceProfileList.

Name	Description	Details
customerServiceProfileName	Type: <a href="#">tCustomerServiceProfileName</a>	

## tRagStateList

The tRagStateList data type.

### Ancestors

getFilteredDeviceListv3

### Relevant Operations

getFilteredDeviceListv3

**Contents**

The following table describes the elements of tRagStateList.

Name	Description	Details
ragState	Type: <a href="#">tRagOptions</a>	

**tRagOptions**

The tRagOptionsdata type.

**Ancestors**

tRagStateList

**Relevant Operations**

getFilteredDeviceListv3

**Contents**

The following table describes the elements of tRagOptions.

Name	Description	Details
R	Type: String	
A	Type: String	
G	Type: String	

**tDeviceStateList**

The tDeviceStateList data type.

**Ancestors**

getFilteredDeviceListv3

**Relevant Operations**

getFilteredDeviceListv3

**Contents**

The following table describes the elements of tDeviceStateList.

Name	Description	Details
deviceState	Type: <a href="#">tDeviceState</a>	

**tAlertTypeList**

The tAlertTypeList data type.

**Ancestors**

getFilteredDeviceListv3

**Relevant Operations**

getFilteredDeviceListv3

**Contents**

The following table describes the elements of tAlertTypeList.

Name	Description	Details
alertType	Type: <a href="#">tAlertTypeOptions</a>	

## tAlertTypeOptions

The tAlertTypeOptions data type.

### Ancestors

tAlertTypeList

### Relevant Operations

getFilteredDeviceListv3

### Contents

The following table describes the values of tAlertTypeOptions.

Name	Description	Details
ROGUE_USAGE_ALERT	For rogue usage alerts Type: String	
HIGH_USAGE_ALERT	For high usage alerts Type: String	

## tCustomerOrderNumberList

The tCustomerOrderNumberList data type.

### Ancestors

getFilteredDeviceListv3

### Relevant Operations

getFilteredDeviceListv3

### Contents

The following table describes the elements of tCustomerOrderNumberList

Name	Description	Details
customerOrderNumber	Type: <a href="#">tCustomerOrderNumber</a>	

## tCustomerOrderNumber

The tCustomerOrderNumber data type.

### Ancestors

tCustomerOrderNumberList

### Relevant Operations

getFilteredDeviceListv3

### Contents

None

### Type

String

### Size

1 upto 32

## tCustomAttributeList

The tCustomAttributeList data type.

### Ancestors

getFilteredDeviceListv3

### **Relevant Operations**

getFilteredDeviceListv3

### **Contents**

The following table describes the elements of tCustomAttributeList

Name	Description	Details
customAttribute	Type: <a href="#">tCustomAttribute</a>	

## tDeviceList

The tDeviceList data type.

### **Ancestors**

getFilteredDeviceListv3

### **Relevant Operations**

getFilteredDeviceListv3

### **Contents**

The following table describes the elements of tDeviceList.

Name	Mandatory	Type	Size	Description
imsi type	Yes	String		The device IMSI
msisdn type	Yes	String		Primary MSISDN for this device
secondaryMsisdn type	No	String		Secondary MSISDN (if any) for this device
iccid type	Yes	String		The device ICCID
customerOrderNumber type	Yes	String		The customer order reference (if any) for this device
customerServiceProfile type	Yes	String		The customer service profile to which this device belongs
ragStatus type	Yes	String		The RAG status of this device
state type	Yes	String		The state of this device
rogueUsageAlertPresent type	Yes	String	1	Y or N indicates whether there is a rogue usage alert (of any type) for this device for this monitoring period
highUsageAlertPresent type	Yes	String	1	Y or N indicates whether there is a high usage alert (of any type) for this device for this monitoring period
customAttribute1 type	Yes	String		The Contents of custom attribute field 1 for this device

Name	Mandatory	Type	Size	Description
customAttribute2 type	Yes	String		The Contents of custom attribute field 2 for this device
customAttribute3 type	Yes	String		The Contents of custom attribute field 3 for this device
customAttribute4 type	Yes	String		The Contents of custom attribute field 4 for this device
customAttribute5 type	Yes	String		The Contents of custom attribute field 5 for this device

## getDeviceLocationHistoryDetails

The getDeviceLocationHistoryDetails data type.

### Ancestors

None

### Relevant Operations

getDeviceLocationHistoryDetails

### Contents

The following table describes the values of getDeviceLocationHistoryDetails.

Name	Mandatory	Type	Size	Description
deviceid	Yes	<a href="#">tDeviceid</a>	15	The device identifier. This is an IMSI or ICCID
startTime	yes	dateTime		Date from which information is requested (YYYY-MM-DDTHH24:MI:SS)
StopTime	yes	dateTime		Date to which information is requested (YYYY-MM-DDTHH24:MI:SS)

## getDeviceLocationHistoryDetailsResponse

The getDeviceLocationHistoryDetailsResponse data type.

### Ancestors

None

### Relevant Operations

getDeviceHistory

### Contents

The following table describes the elements of getDeviceHistoryResponse.

Name	Description	Details
returnCode	The return object of the API. Type: <a href="#">returnCode</a>	

<code>matchedResults</code>	The total number of matching records. Note that there will be a maximum of the <code>pageSize</code> requested number elements in the list. Type: long	
<code>deviceLocationHistoryList</code>	Contains a list of name/type/value triplets of information relating to the device. Type: <a href="#">tDeviceLocationHistory</a>	

## tDeviceLocationHistory

The tDeviceLocationHistory data type.

### Ancestors

getDeviceLocationHistoryDetailsResponse

### Relevant Operations

getDeviceLocationHistoryDetails

### Contents

The following table describes the elements of tDeviceHistory.

Name	Mandatory	Type	Size	Description
<code>deviceLocationHistoryItem</code>	Yes	<a href="#">tDeviceLocationHistoryItem</a>		The results are ordered by timestamp, in descending order – i.e. the most recent changes will be reported first.

## tDeviceLocationHistoryItem

The tDeviceLocationHistoryItem data type.

### Ancestors

tDeviceLocationHistory

### Relevant Operations

getDeviceLocationHistoryDetails

### Contents

The following table describes the elements of tDeviceHistoryItem.

Name	Mandatory	Type	Size	Description
address	No	String		The address where the device was located. The value is only returned when the location can be successfully geo-coded
area	Yes	String		The area where the device was located
city	No	String		The city where the device was located.
country	Yes	String		The country where the device was located.
direction	Yes	String		The direction of movement of the device.
distance	Yes	String		Show the distance from a location of a device.
latitude	Yes	String		Latitude of the location

Name	Mandatory	Type	Size	Description
longitude	Yes	String		Longitude of the location
msisdn	Yes	String		Msisdn of the selected IMSI
radius	Yes	String		The radius in meters within which the device was located.
speed	Yes	String		Speed of movement of the device.
status	Yes	String		
street	Yes	String		The street where the device was located.
timestamp	Yes	String		The timestamp at which the device location was retrieved.

## getTariffList

The getTariffList data type.

### Ancestors

None

### Relevant Operations

getTariffList

### Contents

None

## getTariffListResponse

The getTariffListResponse data type.

### Ancestors

None

### Relevant Operations

getTariffList

### Contents

The following table describes the elements of getTariffListResponse.

Name	Description	Details
Return	Type: <a href="#">tariffResponse</a>	

## tariffResponse

The tariffResponse data type.

### Ancestors

getTariffListResponse

### Relevant Operations

getTariffList

### Contents

The following table describes the elements of tariffResponse.

Name	Description	Details
returnCode	The return code of the API Type: <a href="#">returnCode</a>	
tariffList	Present only when there is at least one entity to return. If present, contains one or more entity. Type: <a href="#">tTariffItem</a>	

## tTariffItem

The tTariffItem data type.

### Ancestors

tariffResponse

### Relevant Operations

getTariffList

### Contents

The following table describes the elements of tTariffItem.

Name	Description	Details
Tariff	Type: <a href="#">tTariff</a>	

## tTariff

The tTariff data type.

### Ancestors

tTariffList

### Relevant Operations

getTariffList

### Contents

The following table describes the elements of tTariff

Name	Description	Details
tariffName	The name of the tariff Type:String	

## getBaseCountryList

The getBaseCountryList data type.

### Ancestors

None

### Relevant Operations

getBaseCountryList

### Contents

None



## getBaseCountryListResponse

The getBaseCountryListResponse data type.

### Ancestors

None

### Relevant Operations

getBaseCountryList

### Contents

The following table describes the elements of getBaseCountryListResponse.

Name	Description	Details
Return	Type: <a href="#">baseCountryResponse</a>	

## baseCountryResponse

The baseCountryResponse data type.

### Ancestors

getBaseCountryListResponse

### Relevant Operations

getBaseCountryList

### Contents

The following table describes the elements of baseCountryResponse.

Name	Description	Details
returnCode	The return code of the API Type: <a href="#">returnCode</a>	
baseCountryList	Present only when there is at least one entity to return. If present, contains one or more entity. Type: <a href="#">tBaseCountry</a>	

## tBaseCountry

The tBaseCountry data type.

### Ancestors

tBaseCountryResponse

### Relevant Operations

getBaseCountryList

### Contents

The following table describes the elements of tBaseCountry.

Name	Description	Details
baseCountry	Type: <a href="#">tBaseCountryItem</a>	

## tBaseCountryItem

The tBaseCountryItem data type.

### Ancestors

tBaseCountry

### Relevant Operations

getBaseCountryList

### Contents

The following table describes the elements of tBaseCountryItem.

Name	Mandatory	Type	Size	Description
countryCode	No	String	2	The two character country code
countryName	No	String	80	The name of the country

## getProvisioningProfileList

The getProvisioningProfileList data type.

### Ancestors

None

### Relevant Operations

getProvisioningProfileList

### Contents

None

## getProvisioningProfileListResponse

The getProvisioningProfileListResponse data type.

### Ancestors

None

### Relevant Operations

getProvisioningProfileList

### Contents

The following table describes the elements of getProvisioningProfileListResponse.

Name	Description	Details
Return	Type: <a href="#">provisioningProfileResponse</a>	

## provisioningProfileResponse

The provisioningProfileResponse data type.

### Ancestors

getProvisioningProfileListResponse

### Relevant Operations

getProvisioningProfileList

### Contents

The following table describes the elements of provisioningProfileResponse.

Name	Description	Details
<code>returnCode</code>	The return code of the API Type: <a href="#">returnCode</a>	
<code>provisioningProfileList</code>	Present only when there is at least one entity to return. If present, contains one or more entity. Type: <a href="#">tProvisioningProfileItem</a>	

## tProvisioningProfileItem

The tProvisioningProfileItem data type.

### Ancestors

provisioningProfileResponse

### Relevant Operations

getProvisioningProfileList

### Contents

The following table describes the elements of tProvisioningProfileItem.

Name	Description	Details
<code>provisioningProfile</code>	Type: <a href="#">tProvisioningProfile</a>	

## tProvisioningProfile

The tProvisioningProfile data type.

### Ancestors

tProvisioningProfile

### Relevant Operations

getProvisioningProfileList

### Contents

The following table describes the elements of tProvisioningProfile

Name	Mandatory	Type	Size	Description
<code>provisioningProfileName</code>	No	String	64	The name of the entity

## getDeviceStateList

The getDeviceStateList data type.

### Ancestors

None

### Relevant Operations

getDeviceStateList

### Contents

None

## getDeviceStateListResponse

The getDeviceStateListResponse data type.

### Ancestors

None

### Relevant Operations

getDeviceStateList

### Contents

The following table describes the elements of getDeviceStateListResponse.

Name	Description	Details
Return	Type: <a href="#">deviceStateResponse</a>	

## deviceStateResponse

The deviceStateResponse data type.

### Ancestors

getDeviceStateListResponse

### Relevant Operations

getDeviceStateList

### Contents

The following table describes the elements of deviceStateResponse.

Name	Description	Details
returnCode	The return code of the API Type: <a href="#">returnCode</a>	
deviceStateList	Present only when there is at least one entity to return. If present, contains one or more entity. Type: <a href="#">tState</a>	

## tState

The tState data type

### Ancestors

deviceStateResponse

### Relevant Operations

getDeviceStateList

### Contents

The following table describes the elements of tState

Name	Description	Details
deviceState	Type: <a href="#">tStateItem</a>	

## tStateItem

The tStateItem data type.

### Ancestors

tState

### Relevant Operations

getDeviceStateList

### Contents

The following table describes the elements of tStateItem.

Name	Mandatory	Type	Size	Description
deviceStateName	No	String	30	The name of the state
deviceStateDescription	No	String	255	The state description

## getVpnGroupList

The getVpnGroupList data type.

### Ancestors

None

### Relevant Operations

getVpnGroupList

### Contents

The following table describes the elements of getVpnGroupList.

Name	Mandatory	Type	Size	Description
vpnGroupId		long		
vpnGroupName		String		
selectedCustomerId		long		
pageNumber		int		
pageSize		int		

## getVpnGroupListResponse

The getVpnGroupListResponse data type.

### Ancestors

None

### Relevant Operations

getVpnGroupList

### Contents

The following table describes the elements of getVpnGroupListResponse.

Name	Description	Details
return	Type: <a href="#">getVpnGroupListResponseItem</a>	

## getVpnGroupListResponseItem

The getVpnGroupListResponseItem data type.

### Ancestors

getVpnGroupListResponse

### Relevant Operations

getVpnGroupList

### Contents

The following table describes the elements of deviceStateResponseItem.

Name	Description	Details
returnCode	The return code of the API Type: <a href="#">returnCode</a>	
vpnGroupList	Present only when there is at least one entity to return. If present, contains one or more entity. Type: <a href="#">vpnGroupItem</a>	

## vpnGroupItem

The vpnGroupItem data type

### Ancestors

getVpnGroupListResponseItem

### Relevant Operations

getVPNGroupList

### Contents

The following table describes the elements of vpnGroupItem.

Name	Description	Details
vpnGroup	Type: <a href="#">tVpnGroup</a>	

## tVpnGroup

The tVpnGroup data type.

### Ancestors

vpnGroupItem

### Relevant Operations

getVPNGroupList

### Contents

The following table describes the elements of tVpnGroup.

Name	Mandatory	Type	Size	Description
vpnBarringScenarioList	No	<a href="#">barringScenario</a>		
vpnGroupDescription	No	String	40	The description of the VPN Group
vpnGroupName	No	String	40	The name of the VPN Group

## barringScenario

The barringScenario data type.

### Ancestors

tVpnGroup

### Relevant Operations

getVPNGroupList

### Contents

The following table describes the elements of barringScenario

Name	Mandatory	Type	Size	Description
callRestriction	No	String		
nginBarringName	No	String		

## getTransactionList

The getTransactionList data type.

### Ancestors

None

### Relevant Operations

getTransactionList

### Contents

The following table describes the elements of getTransactionList.

Name	Mandatory	Type	Size	Description
startDate	No	dateTime		Date from which transactions are requested (YYYY-MM-DDTHH24:MI:SS)
endDate	No	dateTime		Date to which transactions are requested (YYYY-MM-DDTHH24:MI:SS)
pageSize	No	long		Number of records to return in a single response message. If this parameter is specified, so must be pageNumber
pageNumber	No	long		Which block of results to be returned. If this parameter is specified, so must be pageSize.
matchEntityName	No	<a href="#">tEntityNameOptions</a>	32	If specified, match an entity name. One of CUSTOMER CUSTOMERSERVICEPROFILE DEVICE USER
matchEntityIdentifier	No	String	80	If matchEntityName is specified, an identifier for the specified entity.

## tEntityNameOptions

The tEntityNameOptions data type.

### Ancestors

getTransactionList

### Relevant Operations

get TransactionList

### Contents

The following table describes the values of tEntityNameOptions.

Name	Description	Details
CUSTOMER	Type:String	
CUSTOMERSERVICEPROFILE	Type:String	
DEVICE	Type:String	
USER	Type:String	

## getTransactionListResponse

The getTransactionListResponse data type.

### Ancestors

None

### Relevant Operations

getTransactionList

### Contents

The following table describes the elements of getTransactionListResponse.

Name	Description	Details
Return	Type: <a href="#">transactionResponse</a>	

## transactionResponse

The transactionResponse data type.

### Ancestors

None

### Relevant Operations

get TransactionList

### Contents

The following table describes the elements of transactionResponse.

Name	Description	Details
returnCode	The return code of the API Type: <a href="#">returnCode</a>	
matchedResults	Type: long	



transactionList	Type: <a href="#">tTransactionItem</a>	
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## tTransactionItem

The tTransactionItem data type.

### Ancestors

transactionResponse

### Relevant Operations

getTransactionList

### Contents

The following table describes the elements of tTransactionItem.

Name	Description	Details
transactionItem	Present only when there is at least one entity to return. If present, contains one or more entities. Type: <a href="#">tTransaction</a>	

## tTransaction

The tTransaction data type.

### Ancestors

tTransactionItem

### Relevant Operations

getTransactionList

### Contents

The following table describes the elements of tTransaction.

Name	Mandatory	Type	Size	Description
Timestamp	Yes	dateTime		The timestamp of the event
Operation	Yes	String	255	The name of the event that occurred
User	Yes	String	32	The name of the user performing the event
Detail	Yes	String	4000	Additional text about the event
entityName	Yes	String	32	The name of the entity affected
entityIdentifier	Yes	String	80	Identifier of the entity affected
Result	Yes	String	10	The result code relating to the event

## getReportList

The getReportList data type.

### Ancestors

None

**Relevant Operations**

getReportList

**Contents**

None

**getReportListResponse**

The getReportListResponse data type.

**Ancestors**

None

**Relevant Operations**

get ReportList

**Contents**

The following table describes the elements of getReportListResponse

Name	Description	Details
Return	Type: <a href="#">reportListResponse</a>	

**reportListResponse**

The reportListResponse data type.

**Ancestors**

getReportListReponse

**Relevant Operations**

getResponseList

**Contents**

The following table describes the elements of reportListResponse.

Name	Description	Details
returnCode	The return code of the API Type: <a href="#">returnCode</a>	
reportList	Type: <a href="#">tReportList</a>	

**tReportList**

The tReportList data type.

**Ancestors**

reportLineResponse

**Relevant Operations**

getReportList

**Contents**

The following table describes the elements of tReportList.

Name	Description	Details
Report	Present only when there is at least one entity to return. If present, contains one or more entities. Type: <a href="#">tReportItem</a>	

## tReportItem

The tReportItem data type.

### Ancestors

tReportList

### Relevant Operations

getReportList

### Contents

The following table describes the elements of tReportItem.

Name	Mandatory	Type	Size	Description
reportName	No	String	250	The name of the report
reportDescription	No	String	100	Description of the report

## getReportDetails

The getReportDetails data type.

### Ancestors

None

### Relevant Operations

getReportDetails

### Contents

The following table describes the elements of getReportDetails

Name	Mandatory	Type	Size	Description
reportName	Yes	<a href="#">tReportName</a>	250	Identifier that uniquely identifies the report

## getReportDetailsResponse

The getReportDetailsResponse data type.

### Ancestors

None

### Relevant Operations

get ReportDetails

### Contents

The following table describes the elements of getReportDetailsResponse.

Name	Description	Details
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Return	Type: <a href="#">getReportDetailsResponseItem</a>	
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## getReportDetailsResponseItem

The getReportDetailsResponseItem data type.

### Ancestors

getReportListResponse

### Relevant Operations

getReportDetails

### Contents

The following table describes the elements of getReportListResponseItem.

Name	Description	Details
<a href="#">returnCode</a>	The return code of the API Type: <a href="#">returnCode</a>	
<a href="#">reportDetails</a>	Type: <a href="#">tReportDetails</a>	

## tReportDetails

The tReportDetails data type.

### Ancestors

getReportListResponseItem

### Relevant Operations

getReportDetails

### Contents

The following table describes the elements of tReportDetails.

Name	Description	Details
<a href="#">formatsSupported</a>	Present only when there is at least one entity to return. If present, contains one or more entities. Type: <a href="#">tFormatDetails</a>	
<a href="#">reportParameters</a>	A list of the parameters required to specify the report Type: <a href="#">tParameterGroup</a>	

## tFormatDetails

The tFormatDetails data type.

### Ancestors

tReportDetails

### Relevant Operations

getReportDetails

### Contents

The following table describes the elements of tFormatDetails.

Name	Mandatory	Type	Size	Description
Format		String		Format supported by this report.

## tParameterGroup

The tParameterGroup data type.

### Ancestors

tReportDetails

### Relevant Operations

getReportDetails

### Contents

The following table describes the elements of tParameterGroup.

Name	Mandatory	Type	Size	Description
Restriction	No	String		Format supported by this report.
parameterGroups		<a href="#">tParameterDetail</a> <a href="#">s</a>		

## tParameterDetails

The tParameterDetails data type.

### Ancestors

tParameterGroup

### Relevant Operations

getReportDetails

### Contents

The following table describes the elements of tParameterDetails.

Name	Mandatory	Type	Size	Description
defaultValue	Yes	String		The value of the parameter
javaType	Yes	String		The type of the parameter: <ul style="list-style-type: none"> <li>dateTime</li> <li>String</li> <li>Number</li> </ul>
Name	Yes	String		The name of the parameter being specified

## getReport

The getReport data type.

### Ancestors

None

### Relevant Operations

getReport

**Contents**

The following table describes the elements of getReport.

Name	Mandatory	Type	Size	Description
reportName	Yes	<a href="#">tReportName</a>	250	Identifier that uniquely identifies the report
reportFormat	Yes	String		Format of the report, as identified in getReportDetails for the specified reportName
reportParameters	Yes	<a href="#">tGetReportParameterList</a>		A list of the parameters required to specify the report

**tReportName**

The tReportName data type.

**Ancestors**

getReport

**Relevant Operations**

getReport

**Contents**

None

**Type**

String

**Size**

1 upto 250

**tGetReportParameterList**

The tGetReportParameterList data type.

**Ancestors**

getReport

**Relevant Operations**

get Report

**Contents**

The following table describes the elements of tGetReportParameterList.

Name	Description	Details
parameter	Type: <a href="#">tGetReportParameterItem</a>	

**tGetReportParameterItem**

The tGetReportParameterItem data type.

**Ancestors**

getReportParameterList

**Relevant Operations**

getResponseList

**Contents**

The following table describes the elements of tGetReportParameterItem.

Name	Description	Details
Name	Type: String	
Value	Type: String	

**getReportResponse**

The getReportResponse data type.

**Ancestors**

None

**Relevant Operations**

getReportList

**Contents**

The following table describes the elements of getReportResponse.

Name	Description	Details
Return	Present only when there is at least one entity to return. If present, contains one or more entities. Type: <a href="#">getReportResponseItem</a>	

**getReportResponseItem**

The tReportItem data type.

**Ancestors**

tReportList

**Relevant Operations**

getReportList

**Contents**

The following table describes the elements of tReportItem.

Name	Mandatory	Type	Size	Description
returnCode	Yes	The return code of the API Type: <a href="#">returnCode</a>	250	The return code of the API
reportName	Yes	String	250	Name of report
reportTitle	Yes	String		
reportBody	Yes	base64Binary		Base64 encoded report
reportMimeType	Yes	String		

## getUserList

The getUserList data type.

### Ancestors

None

### Relevant Operations

getUserList

### Contents

The following table describes the elements of getUserList.

Name	Mandatory	Type	Size	Description
pageSize	No	long		Number of records to return in a single response message. If this parameter is specified, so must be pageNumber
pageNumber	No	long		Which block of results to be returned. If this parameter is specified, so must be pageSize.

## getUserListResponse

The getUserListResponse data type.

### Ancestors

None

### Relevant Operations

getUserList

### Contents

The following table describes the elements of getUserListResponse.

Name	Description	Details
return	Type: <a href="#">getUserListResponseItem</a>	

## getUserListResponseItem

The getUserListResponseItem data type.

### Ancestors

getUserListResponse

### Relevant Operations

getUserList

### Contents

The following table describes the elements of getUserListResponseItem.

Name	Mandatory	Type	Size	Description
returnCode	Yes	The return code of the API Type: <a href="#">returnCode</a>		Number of records to return in a single response message. If this parameter is specified, so must be pageNumber.



Name	Mandatory	Type	Size	Description
<code>matchedResults</code>	Yes	long		The total number of matching results. Note that there will be a maximum of the <code>pageSize</code> requested number elements in the list.
<code>userList</code>	No	<a href="#">tUserList</a>		Present only when there is at least one user to return. If present, contains one or more user.

## tUserList

The tUserList data type.

### Ancestors

`getUserListResponseItem`

### Relevant Operations

`getUserList`

### Contents

The following table describes the elements of tUserList.

Name	Description	Details
<code>User</code>	Type: <a href="#">tUser</a>	

## tUser

The tUser data type.

### Ancestors

`tUserList`

### Relevant Operations

`getUserList`

### Contents

The following table describes the elements of tUser.

Name	Mandatory	Type	Size	Description
<code>Username</code>	No	String	32	The logon name
<code>fullName</code>	No	String	40	The full name of the user

## getUserDetails

The getUserDetails data type.

### Ancestors

None

### Relevant Operations

`getUserDetails`

### Contents

The following table describes the elements of getUserDetails.

Name	Mandatory	Type	Size	Description
Username	Yes	<a href="#">tUserName</a>	Up to 32	Identifies the user to be retrieved

## tUserName

The tUserName data type.

### Ancestors

getUserDetails

### Relevant Operations

getUserDetails

### Contents

None

### Type

String

### Size

1 upto 32

## getUserDetailsResponse

The getUserDetailsResponse data type.

### Ancestors

None

### Relevant Operations

getUserDetails

### Contents

The following table describes the elements of getUserDetailsResponse.

Name	Description	Details
Return	Type: <a href="#">getUserDetailsResponseItem</a>	

## getUserDetailsResponseItem

The getUserDetailsResponseItem data type.

### Ancestors

getUserDetailsResponse

### Relevant Operations

getUserDetails

### Contents

The following table describes the elements of getUserDetailsResponseItem.

Name	Mandatory	Type	Size	Description
returnCode	Yes	The return code of the API Type: <a href="#">returnCode</a>		

Name	Mandatory	Type	Size	Description
<a href="#">userInfo</a>	Yes	<a href="#">userInfo</a>		

## userInfo

The userInfo data type.

### Ancestors

getUserListResponseItem

### Relevant Operations

getUserList

### Contents

The following table describes the elements of userInfo.

Name	Mandatory	Type	Size	Description
<a href="#">Username</a>	Yes	String	Up to 32	The same value as in request message
<a href="#">fullName</a>	Yes	String	Up to 40	The full name of the user
<a href="#">emailAddress</a>	Yes	String	Up to 256	The email address of the user
<a href="#">addressLine1</a>	Yes	String	Up to 80	First address line
<a href="#">addressLine2</a>	Yes	String	Up to 80	Second address line
<a href="#">addressLine3</a>	Yes	String	Up to 80	Third address line
<a href="#">addressLine4</a>	Yes	String	Up to 80	Fourth address line
<a href="#">addressLine5</a>	Yes	String	Up to 80	Fifth address line
<a href="#">telephone1</a>	Yes	String	Up to 20	First telephone number
<a href="#">telephone2</a>	Yes	String	Up to 20	Second telephone number
<a href="#">accessRights</a>	Yes	String	1	The access rights of this user: R – Read only W – Read/Write D – Read/Write/Delete S – Administrative – Read/Write/Delete/Maintain users

## setUserDetails

The setUserDetails data type.

**Ancestors**

None

**Relevant Operations**

setUserDetails

**Contents**

The following table describes the elements of setUserDetails.

Name	Mandatory	Type	Size	Description
Username	Yes	<a href="#">tUserName</a>	Up to 32	The user to modify
fullName	No	<a href="#">tFullName</a>	Up to 40	The full name of the user
emailAddress	No	<a href="#">tEmailAddress</a>	Up to 256	The email address of the user
addressLine1	No	<a href="#">tAddressLine</a>	Up to 80	First address line
addressLine2	No	<a href="#">tAddressLine</a>	Up to 80	Second address line
addressLine3	No	<a href="#">tAddressLine</a>	Up to 80	Third address line
addressLine4	No	<a href="#">tAddressLine</a>	Up to 80	Fourth address line
addressLine5	No	<a href="#">tAddressLine</a>	Up to 80	Fifth address line
telephone1	No	<a href="#">tTelephoneNumber</a>	Up to 20	First telephone number. Only digits, spaces, and brackets allowed, with the following pattern: (nnn) nnnn nnnn
telephone2	No	<a href="#">tTelephoneNumber</a>	Up to 20	Second telephone number. Only digits, spaces, and brackets allowed, with the following pattern: (nnn) nnnn nnnn
accessRights	No	<a href="#">tAccessRightsOptions</a>	1	The access rights of this user: R – Read only W – Read/Write D – Read/Write/Delete S – Administrative – Read/Write/Delete/Maintain users
Password	No	<a href="#">tPassword</a>	8 to 32	The password for the user

**tFullName**

The tFullName data type.

**Ancestors**

setUserDetails

**Relevant Operations**

setUserDetails

**Contents**

None

**Type**

String

**Size**

1 upto 40

**tAddressLine**

The tAddressLine data type.

**Ancestors**

setUserDetails

**Relevant Operations**

setUserDetails

**Contents**

None

**Type**

String

**Size**

0 upto 80

**tTelephoneNumber**

The tTelephoneNumber data type.

**Ancestors**

setUserDetails

**Relevant Operations**

setUserDetails

**Contents**

None

**Type**

String

**Size**

0 upto 20

**tAccessRightsOptions**

The tAccessRightOptions data type.

**Ancestors**

setUserDetails

**Relevant Operations**

setUserDetails

**Contents**

The following table describes the values of tAccessRightOptions.

Name	Mandatory	Type	Size	Description
R		String	1	Read only
W		String	1	Read/Write
D		String	1	Read/Write/Delete

Name	Mandatory	Type	Size	Description
s		String	1	Administrative- Read/Write/Delete/Maintain users

## tPassword

The tPassword data type.

### Ancestors

setUserDetails

### Relevant Operations

setUserDetails

### Contents

None

### Type

String

### Size

8 upto 32

## setUserDetailsResponse

The setUserDetailsResponse data type.

### Ancestors

None

### Relevant Operations

setUserDetailsResponse

### Contents

The following table describes the elements of setUserDetailsResponse.

Name	Description	Details
return	Type: <a href="#">UserDetailsResponse</a>	

## userDetailsResponse

The UserDetailsResponse data type.

### Ancestors

setUserDetailsResponse

### Relevant Operations

setUserDetails

### Contents

The following table describes the elements of UserDetailsResponse.

Name	Mandatory	Type	Size	Description
returnCode	Yes	The return code of the API Type: <a href="#">returnCode</a>		

## createUser

The createUser data type.

### Ancestors

None

### Relevant Operations

createUser

### Contents

The following table describes the elements of createUser

Name	Mandatory	Type	Size	Description
Username	Yes	<a href="#">tUserName</a>	Up to 32	The user to create
fullName	Yes	<a href="#">tFullName</a>	Up to 40	The full name of the user
emailAddress	No	<a href="#">tEmailAddress</a>	Up to 256	The email address of the user
addressLine1	No	<a href="#">tAddressLine</a>	Up to 80	First address line
addressLine2	No	<a href="#">tAddressLine</a>	Up to 80	Second address line
addressLine3	No	<a href="#">tAddressLine</a>	Up to 80	Third address line
addressLine4	No	<a href="#">tAddressLine</a>	Up to 80	Fourth address line
addressLine5	No	<a href="#">tAddressLine</a>	Up to 80	Fifth address line
telephone1	No	<a href="#">tTelephoneNumber</a>	Up to 20	First telephone number. Only digits, spaces, and brackets allowed, with the following pattern: (nnn) nnnn nnnn
telephone2	No	<a href="#">tTelephoneNumber</a>	Up to 20	Second telephone number. Only digits, spaces, and brackets allowed, with the following pattern: (nnn) nnnn nnnn

Name	Mandatory	Type	Size	Description
<code>accessRights</code>	Yes	<a href="#">tAccessRightsOptions</a>	1	The access rights of this user: R – Read only W – Read/Write D – Read/Write/Delete S – Administrative – Read/Write/Delete/Maintain users
<code>Password</code>	Yes	<a href="#">tPassword</a>	8 to 32	The password for the user

## createUserResponse

The createUserResponse data type.

### Ancestors

None

### Relevant Operations

createUser

### Contents

The following table describes the elements of createUserResponse.

Name	Description	Details
<code>return</code>	Type: <a href="#">createUserResponseItem</a>	

## createUserResponseItem

The createUserResponseItem data type.

### Ancestors

createUserResponse

### Relevant Operations

createUser

### Contents

The following table describes the elements of createUserResponseItem.

Name	Mandatory	Type	Size	Description
<code>returnCode</code>	Yes	The return code of the API Type: <a href="#">returnCode</a>		

## getCustomerDetails

The getCustomerDetails data type

### Ancestors

None

### Relevant Operations

getCustomerDetails.

### Contents



None.

## getCustomerDetailsResponse

The getCustomerDetailsResponse data type

### Ancestors

None

### Relevant Operations

getCustomerDetails

### Contents

The following table describes the elements of getCustomerDetailsResponse.

Name	Description	Details
getCustomerDetailsResponse	ResponseItem of the response object Type: <a href="#">getCustomerDetailsResponseItem</a>	

## getCustomerDetailsResponseItem

The getCustomerDetailsResponseItem data type

### Ancestors

getCustomerDetailsResponse

### Relevant Operations

getCustomerDetails

### Contents

The following table describes the elements of getCustomerDetailsResponseItem.

Name	Description	Details
returnCode	The return object of the API Type: <a href="#">returnCode</a>	
customerInfo	<a href="#">customerInfo</a>	

## customerInfo

The customerInfo data type

### Ancestors

getCustomerDetailsResponseItem

### Relevant Operations

getCustomerDetails

### Contents

The following table describes the elements of customerInfo.

Name	Mandatory	Type	Size	Description
customerCode	Yes	String	32	Short code for a customer.

customerName	No	String	80	Descriptive name for a customer.
rogueUsageEmailAddress	No	String	256	The email address to which rogue usage alert emails need to be sent.
highUsageEmailAddress	No	String	256	The email address to which high usage alert emails need to be sent.
customAttributeLabel1	No	String	64	The label for SIM custom attribute 1.
customAttributeLabel2	No	String	64	The label for SIM custom attribute 2.
customAttributeLabel3	No	String	64	The label for SIM custom attribute 3.
customAttributeLabel4	No	String	64	The label for SIM custom attribute 4.
customAttributeLabel5	No	String	64	The label for SIM custom attribute 5.
customAttributeFilterEnabled1	No	String	1	Y or N. Determines whether custom attribute 1 appears as a filterable item.
customAttributeFilterEnabled2	No	String	1	Y or N. Determines whether custom attribute 2 appears as a filterable item.
customAttributeFilterEnabled3	No	String	1	Y or N. Determines whether custom attribute 3 appears as a filterable item.
customAttributeFilterEnabled4	No	String	1	Y or N. Determines whether custom attribute 4 appears as a filterable item.
customAttributeFilterEnabled5	No	String	1	Y or N. Determines whether custom attribute 5 appears as a filterable item.

## setCustomerDetails

The setCustomerDetails data type.

### Ancestors

None

**Relevant Operations**

setCustomerDetails

**Contents**

The following table describes the elements of setCustomerDetails.

Name	Mandatory	Type	Size	Description
CustomerCode	Yes	<a href="#">tCustomerCode</a>		The code of the customer to be changed
customerName	No	<a href="#">tCustomerName</a>	80	The descriptive name of the customer
customAttributeFilterEnabled1	No	<a href="#">tYesNoOptions</a>	1	Y or N. Determines whether custom attribute 1 appears as a filterable item.
customAttributeFilterEnabled2	No	<a href="#">tYesNoOptions</a>	1	Y or N. Determines whether custom attribute 2 appears as a filterable item.
customAttributeFilterEnabled3	No	<a href="#">tYesNoOptions</a>	1	Y or N. Determines whether custom attribute 3 appears as a filterable item.
customAttributeFilterEnabled4	No	<a href="#">tYesNoOptions</a>	1	Y or N. Determines whether custom attribute 4 appears as a filterable item.
customAttributeFilterEnabled5	No	<a href="#">tYesNoOptions</a>	1	Y or N. Determines whether custom attribute 5 appears as a filterable item.
customAttributeLabel1	No	<a href="#">tCustomAttribute</a>	64	The label for SIM custom attribute 1.
customAttributeLabel2	No	<a href="#">tCustomAttribute</a>	64	The label for SIM custom attribute 2.
customAttributeLabel3	No	<a href="#">tCustomAttribute</a>	64	The label for SIM custom attribute 3.
customAttributeLabel4	No	<a href="#">tCustomAttribute</a>	64	The label for SIM custom attribute 4.
customAttributeLabel5	No	<a href="#">tCustomAttribute</a>	64	The label for SIM custom attribute 5.
highUsageEmailAddress	No	<a href="#">tEmailAddress</a>	256	The email address to which high usage alert emails need to be sent.

Name	Mandatory	Type	Size	Description
<code>rogueUsageEmailAddress</code>	No	<a href="#">tEmailAddress</a>	256	The email address to which rogue usage alert emails need to be sent.

## tCustomerName

The tCustomerName data type.

### Ancestors

setCustomerDetails

### Relevant Operations

setCustomerDetails

### Contents

None

### Type

String

### Size

1 upto 80

## setCustomerDetailsResponse

The setCustomerDetailsResponse data type

### Ancestors

None

### Relevant Operations

setCustomerDetails

### Contents

The following table describes the elements of setCustomerDetailsResponse.

Name	Description	Details
<code>Return</code>	ResponseItem of the response object Type: <a href="#">setCustomerDetailsResponseItem</a>	

## setCustomerDetailsResponseItem

The setCustomerDetailsResponseItem data type

### Ancestors

setCustomerDetailsResponse

### Relevant Operations

setCustomerDetails

### Contents

The following table describes the elements of setCustomerDetailsResponseItem.

Name	Description	Details
<code>returnCode</code>	The return object of the API Type: <a href="#">returnCode</a>	

## setDeviceDetails

The setDeviceDetails data type.

### Ancestors

None

### Relevant Operations

setDeviceDetails

### Contents

The following table describes the values of setDeviceDetails.

Name	Mandatory	Type	Size	Description
deviceId	Yes	<a href="#">tDeviceId</a>	15	Identifier that uniquely identify the device. Value = IMSI
customerServiceProfile	No	<a href="#">tCustomerServiceProfileName</a>	32	The new customerServiceProfile to set. Note that only one of state or customerService Profile may be changed at any one time, as changing the customerServiceProfile necessarily changes the state of the device.
State	No	<a href="#">tDeviceState</a>	30	The new state to set. Note that only one of state or customerService Profile may be changed at any one time, as changing the customerServiceProfile necessarily changes the state of the device.
Imei	No	<a href="#">tImei</a>	16	The IMEI to set in the database. This value will be stored in the database, and if the IMEI reported by the device is different to the IMEI stored in the database, then a warning is logged internally, and the IMEI changed by GDSP to the IMEI reported by the device.
baseCountry	No	<a href="#">tCountryCode</a>	2	The two character country code to set. This can only be changed if the profile to which this device is currently assigned does not have any baseCountry specified.
customAttribute1	No	<a href="#">tCustomAttribute</a>	64	New data to be stored in custom attribute field 1

Name	Mandatory	Type	Size	Description
customAttribute2	No	<a href="#">tCustomAttribute</a>	64	New data to be stored in custom attribute field 2
customAttribute3	No	<a href="#">tCustomAttribute</a>	64	New data to be stored in custom attribute field 3
customAttribute4	No	<a href="#">tCustomAttribute</a>	64	New data to be stored in custom attribute field 4
customAttribute5	No	<a href="#">tCustomAttribute</a>	64	New data to be stored in custom attribute field 5

## setDeviceDetailsResponse

The setDeviceDetailsResponse data type.

### Ancestors

None

### Relevant Operations

setDeviceDetails

### Contents

The following table describes the elements of setDeviceDetailsResponse.

Name	Description	Details
return	The responseItem of the response object. Type: <a href="#">setDeviceDetailsResponseItem</a>	

## setDeviceDetailsResponseItem

The setDeviceDetailsResponseItem data type.

### Ancestors

setDeviceDetailsResponse

### Relevant Operations

setDeviceDetails

### Contents

The following table describes the elements of setDeviceDetailsResponseItem.

Name	Description	Details
returnCode	The return object of the API Type: <a href="#">returnCode</a>	

## submitSMS

The submitSMS data type.

### Ancestors

None

**Relevant Operations**

submitSMS

**Contents**

The following table describes the values of submitSMS.

Name	Mandatory	Type	Size	Description
<a href="#">deviceId</a>	Yes	<a href="#">tDeviceId</a>	15	Identifier that uniquely identify the device. Value = IMSI
<a href="#">sourceId</a>	Yes	String	15	ID of message sender
<a href="#">messageData</a>	Yes	base64Binary	See comment	Text message represented in Base64. When decoded, the maximum length for a Text message is 160 characters, for a Unicode and Binary message is 140 characters.
<a href="#">messageType</a>	Yes	<a href="#">tSmsMessageTypeOptions</a>	7	Specifies the type of message to be submitted. Text => default SMS alphabet Unicode Binary
<a href="#">messageUDH</a>	No	<a href="#">tYesNoOptions</a>	1	Y or N. This flag is used to indicate whether the user data header flag is to be set. This may be used to submit concatenated text messages.  If this element is not present, the default is that user data header is not present.

**submitSMSResponse**

The submitSMSResponse data type.

**Ancestors**

None

**Relevant Operations**

submitSMS

**Contents**

The following table describes the elements of submitSMSResponse.

Name	Description	Details
<a href="#">return</a>	Type: <a href="#">smsResponse</a>	

## smsResponse

The smsResponse data type.

### Ancestors

submitSMSResponse

### Relevant Operations

submitSMS

### Contents

The following table describes the elements of smsResponse.

Name	Description	Details
returnCode	The return code of the API Type: <a href="#">returnCode</a>	
deviceld	Type: <a href="#">tDeviceld</a>	
messageReference	Type: String	

## submitWUTrigger

The submitWUTrigger data type.

### Ancestors

None

### Relevant Operations

submitWUTrigger

### Contents

The following table describes the values of submitWUTrigger

Name	Mandatory	Type	Size	Description
deviceld	Yes	<a href="#">tDeviceld</a>	15	Identifier that uniquely identify the device. Value = IMSI
sourceId	Yes	String	Up to 15	ID of message sender
triggerType	Yes	<a href="#">tTriggerType</a>	3	Type of trigger: "SMS" or "CSD" Note: CSD wake-up not implemented in this release.

## submitWUTriggerResponse

The submitWUTriggerResponse data type.

### Ancestors

None

### Relevant Operations

submitWUTrigger

### Contents

The following table describes the elements of submitWUTriggerResponse.



Name	Description	Details
<a href="#">return</a>	Type: <a href="#">wuTriggerResponse</a>	

## wuTriggerResponse

The wuTriggerResponse data type.

### Ancestors

submitWUTriggerResponse

### Relevant Operations

submitWUTrigger

### Contents

The following table describes the elements of wuTriggerReponse.

Name	Description	Details
<a href="#">returnCode</a>	The return code of the API Type: <a href="#">returnCode</a>	
<a href="#">deviceId</a>	Type: <a href="#">tDeviceId</a>	
<a href="#">triggerType</a>	Type: String	

## getCustomerServiceProfileDetails

The getCustomerServiceProfileDetails data type

### Ancestors

None

### Relevant Operations

getCustomerServiceProfileDetails

### Contents

The following table describes the elements of getCustomersServiceProfileDetails.

Name	Mandatory	Type	Size	Description
<a href="#">customerServiceProfileName</a>	Yes	<a href="#">tCustomerServiceProfileName</a>	32	Identifier that uniquely identify the customer service profile.

## getCustomerServiceProfileDetailsResponse

The getCustomerServiceProfileDitailsResponse data type

### Ancestors

None

### Relevant Operations

getCustomerServiceProfileDetails

### Contents

The following table describes the elements of getCustomerServiceProfileDetailsResponse.

Name	Description	Details
return	ResponseItem of the response object . Type: <a href="#">getCustomerServiceProfileResponseDetails</a>	

## getCustomerServiceProfileResponseDetails

The getCustomerServiceProfileResponseDetails data type

### Ancestors

getCustomerServiceProfileDetailsResponse.

### Relevant Operations

getCustomerServiceProfileDetails

### Contents

The following table describes the elements of getCustomerServiceProfileResponseDetails.

Name	Mandatory	Type	Size	Description
returnCode	Yes	<a href="#">returnCode</a>		The return object of the API
customerServiceProfileName	Yes	String	32	The same value as in request message.
customerServiceProfileDescription	Yes	String	80	Descriptive text for a customer service profile.
testModeVolume	Yes	Long	0 to 263-1	The number of bytes allowed for a device in test mode.
testModeExpiryLimit	Yes	Long	0 to 263-1	The number of days that a device will remain in test mode.
postTestModeState	Yes	String	10	The state to which a device will move upon leaving test mode.
connectState	Yes	String	10	The initial state for devices added to this profile.
unassignedIndicator	Yes	String	1	Y/N indicating whether this profile is to be used for unassigned devices.
highUsageThreshold	Yes	Long	0 to 999,999,999,999	The threshold number of bytes, above which a high usage alert will be generated for a device.

Name	Mandatory	Type	Size	Description
highUsageAction	Yes	String	Up to 15	The action to be taken by the system when a device's packet data usage has reached the high usage threshold. Values: WARNING - Internal message logged IMMEDIATE_EMAIL - Email issues DAILY_REPORT - Included in report
highUsageMonitoringPeriod	Yes	String	7	The period over which a device's packet data is considered for high usage. This will be: D - Daily M - Monthly W - Weekly
rogueUsageThreshold	Yes	Long	0 to 999,999,999,999	The threshold number of bytes, above which a rogue usage alert will be generated for a device.
rogueUsageAction	Yes	String	Up to 15	The action to be taken by the system when a device's packet data usage has reached the rogue usage threshold. Values: WARNING - Internal message logged IMMEDIATE_EMAIL - Email issues DAILY_REPORT - Included in report
rogueUsageMonitoringPeriod	Yes	String	7	The period over which a device's packet data is considered for rogue usage. This will be: D - Daily M - Monthly W - Weekly
linkedProfile	Yes	String	32	Name of the customer service profile that is linked to this profile. A linked profile is required when certain tariffs are used, specifying criteria that, when met, changes the service profile for a device to the linked service profile.
Tariff	Yes	String	40	Name of the tariff associated with this profile.

Name	Mandatory	Type	Size	Description
baseCountry	Yes	String	2	2 character country code. This is the base country for devices in this profile.
provisioningProfile	Yes	String	64	Identifies the provisioning profile relevant to this customer service profile.
profileInUseFlag	Yes	String	1	Y indicates that this profile is in use. If a profile is in use, then tariff, provisioning profile, or base country may not be changed.

## setCustomerServiceProfileDetails

The setCustomerServiceProfileDetails data type

### Ancestors

None

### Relevant Operations

setCustomerServiceProfileDetails

### Contents

The following table describes the elements of setCustomerServiceProfileDetails.

Name	Mandatory	Type	Size	Description
customerServiceProfileName	Yes	<a href="#">tCustomerServiceProfileName</a>	32	The key identifying the customer service profile to be updated.
customerServiceProfileDescription	No	<a href="#">tCustomerServiceProfileDescription</a>	80	Descriptive text for a customer service profile.
postTestModeState	No	<a href="#">tDeviceState</a>	1	The state to which a device will move upon leaving test mode.
connectState	No	<a href="#">tDeviceState</a>	1	The initial state for devices added to this profile.
unassignedIndicator	No	<a href="#">tYesNoOptions</a>	1	Y/N indicating whether this profile is to be used for unassigned devices.
highUsageThreshold	Yes	Long	0 to 999,999,999,999	The threshold number of bytes, above which a high usage alert will be generated for a device.

Name	Mandatory	Type	Size	Description
highUsageAction	Yes	<a href="#">tAlertAction</a> <a href="#">Options</a>	Up to 15	The action to be taken by the system when a device's packet data usage has reached the high usage threshold. Values: WARNING - Internal message logged IMMEDIATE_EMAIL - Email issues DAILY_REPORT - Included in report
highUsageMonitoringPeriod	Yes	<a href="#">tAlertMonitoringPeriodOptions</a>	7	The period over which a device's packet data is considered for high usage. This will be: D - Daily M - Monthly W - Weekly
rogueUsageThreshold	Yes	Long	0 to 999,999,999,999	The threshold number of bytes, above which a rogue usage alert will be generated for a device.
rogueUsageAction	Yes	<a href="#">tAlertAction</a> <a href="#">Options</a>	Up to 15	The action to be taken by the system when a device's packet data usage has reached the rogue usage threshold. Values: WARNING - Internal message logged IMMEDIATE_EMAIL - Email issues DAILY_REPORT - Included in report
rogueUsageMonitoringPeriod	Yes	<a href="#">tAlertMonitoringPeriodOptions</a>	7	The period over which a device's packet data is considered for rogue usage. This will be: D - Daily M - Monthly W - Weekly
linkedProfile	No	<a href="#">tCustomerServiceProfileNameNillable</a>	blank, or up to 32	Name of the customer service profile that is linked to this profile. A linked profile is required when certain tariffs are used, specifying criteria that, when met, changes the service profile for a device to the linked service profile. Set to blank to remove the linked profile

Name	Mandatory	Type	Size	Description
Tariff	No	<a href="#">tTariffName</a>	40	Name of the tariff associated with this profile. This can only be changed if the profile is not already in use.
baseCountry	No	<a href="#">tCountryCode</a>	blank, or 2	2 character country code. This is the base country for devices in this profile. This can only be changed if the profile is not already in use. Set to blank to remove the base country
provisioningProfile	No	<a href="#">tProvisioningProfileName</a>	64	Identifies the provisioning profile relevant to this customer service profile. This can only be changed if the profile is not already in use.

## setCustomerServiceProfileDetailsResponse

The setCustomerServiceProfileDetailsResponse data type

### Ancestors

None

### Relevant Operations

setCustomerServiceProfileDetails

### Contents

The following table describes the elements of setCustomerServiceProfileDetailsResponse.

Name	Description	Details
return	ResponseItem of the response object. Type: <a href="#">setCustomerServiceProfileDetailsResponseBody</a>	

## setCustomerServiceProfileDetailsResponseBody

The setCustomerServiceProfileDetailsResponseBody data type

### Ancestors

setCustomerServiceProfileDetailsResponse

### Relevant Operations

setCustomerServiceProfileDetails

### Contents

The following table describes the elements of setCustomerServiceProfileDetailsResponseBody.

Name	Description	Details
returnCode	ResponseItem of the response object. Type: <a href="#">returnCode</a>	

## cloneCustomerServiceProfile

The cloneCustomerServiceProfile data type

### Ancestors

None

### Relevant Operations

cloneCustomerServiceProfile

### Contents

The following table describes the elements of cloneCustomerServiceProfile

Name	Mandatory	Type	Size	Description
sourceCustomerServiceProfileName	Yes	<a href="#">tCustomerServiceProfileName</a>	32	Source customer service profile.
customerServiceProfileName	Yes	<a href="#">tCustomerServiceProfileName</a>	32	The name for the new customer service profile.
customerServiceProfileDescription	Yes	<a href="#">tCustomerServiceProfileDescription</a>	80	Descriptive text for a customer service profile.
postTestModeState	No	<a href="#">tDeviceState</a>	1	The state to which a device will move upon leaving test mode.
connectState	No	<a href="#">tDeviceState</a>	1	The initial state for devices added to this profile.
unassignedIndicator	No	<a href="#">tYesNoOptions</a>	1	Y/N indicating whether this profile is to be used for unassigned devices.
highUsageThreshold	Yes	Long	0 to 999,999,999	The threshold number of bytes, above which a high usage alert will be generated for a device.
highUsageAction	Yes	<a href="#">tAlertActionOptions</a>	2	The action to be taken by the system when a device's packet data usage has reached the high usage threshold. Values: 1 Internal message logged 2 Email issues 3 Included in report

Name	Mandatory	Type	Size	Description
highUsageMonitoringPeriod	Yes	<a href="#">tAlertMonitoringPeriodOptions</a>	7	The period over which a device's packet data is considered for high usage. This will be: D - Daily M - Monthly W - Weekly
rogueUsageThreshold	Yes	Long	0 to 999,999,999	The threshold number of bytes, above which a rogue usage alert will be generated for a device.
rogueUsageAction	Yes	<a href="#">tAlertActionOptions</a>	2	The action to be taken by the system when a device's packet data usage has reached the rogue usage threshold. Values: 1 Internal message logged 2 Email issues 3 Included in report
rogueUsageMonitoringPeriod	Yes	<a href="#">tAlertMonitoringPeriodOptions</a>	7	The period over which a device's packet data is considered for rogue usage. This will be: D - Daily M - Monthly W - Weekly
linkedProfile	No	<a href="#">tCustomerServiceProfileNameNillable</a>	blank, or 32	Name of the customer service profile that is linked to this profile. A linked profile is required when certain tariffs are used, specifying criteria that, when met, changes the service profile for a device to the linked service profile. Set to blank to remove linked profile
Tariff	No	<a href="#">tTariffName</a>	40	Name of the tariff associated with this profile.



Name	Mandatory	Type	Size	Description
<code>baseCountry</code>	No	<a href="#">tCountryCode</a>	blank, or 2	2 character country code. This is the base country for devices in this profile. Set to blank to remove base country
<code>provisioningProfile</code>	No	<a href="#">tProvisioningProfileName</a>	64	Identifies the provisioning profile relevant to this customer service profile.

## cloneCustomerServiceProfileResponse

The cloneCustomerServiceProfileResponseDetails data type

### Ancestors

None

### Relevant Operations

cloneCustomerServiceProfile

### Contents

The following table describes the elements of cloneCustomerServiceProfileResponse.

Name	Description	Details
<code>return</code>	ResponseDetails of the response object. Type: <a href="#">cloneCustomerServiceProfileResponseDetails</a>	

## cloneCustomerServiceProfileResponseDetails

The cloneCustomerServiceProfileResponseDetails data type

### Ancestors

cloneCustomerServiceProfileResponse

### Relevant Operations

cloneCustomerServiceProfile

### Contents

The following table describes the elements of cloneCustomerServiceProfileResponseDetails.

Name	Description	Details
<code>returnCode</code>	The return object of the API Type: <a href="#">returnCode</a>	

## setCustomerServiceProfileDetailsv2

The setCustomerServiceProfileDetailsv2 data type

### Ancestors

None

### Relevant Operations

setCustomerServiceProfileDetailsv2

### Contents

The following table describes the elements of setCustomerServiceProfileDetailsv2.

Name	Mandatory	Type	Size	Description
customerServiceProfileName	Yes	<a href="#">tCustomerServiceProfileName</a>	32	The key identifying the customer service profile to be updated.
customerServiceProfileDescription	No	<a href="#">tCustomerServiceProfileDescription</a>	80	Descriptive text for a customer service profile.
postTestModeState	No	<a href="#">tDeviceState</a>	1	The state to which a device will move upon leaving test mode.
connectState	No	<a href="#">tDeviceState</a>	1	The initial state for devices added to this profile.
unassignedIndicator	No	<a href="#">tYesNoOptions</a>	1	Y/N indicating whether this profile is to be used for unassigned devices.
highUsageThreshold	Yes	Long	0 to 999,999,999,999	The threshold number of bytes, above which a high usage alert will be generated for a device.
highUsageAction	Yes	<a href="#">tAlertActionOptions</a>	2	The action to be taken by the system when a device's packet data usage has reached the high usage threshold. Values: 1 Internal message logged 2 Email issues 3 Included in report
highUsageMonitoringPeriod	Yes	<a href="#">tAlertMonitoringPeriodOptions</a>	7	The period over which a device's packet data is considered for high usage. This will be: D - Daily M - Monthly W - Weekly
rogueUsageThreshold	Yes	Long	0 to 999,999,999,999	The threshold number of bytes, above which a rogue usage alert will be generated for a device.
rogueUsageAction	Yes	<a href="#">tAlertActionOptions</a>	2	The action to be taken by the system when a device's packet data usage has reached the rogue usage threshold. Values: 1 Internal message logged 2 Email issues 3 Included in report

Name	Mandatory	Type	Size	Description
rogueUsageMonitoringPeriod	Yes	<a href="#">tAlertMonitoringPeriodOptions</a>	7	The period over which a device's packet data is considered for rogue usage. This will be: D - Daily M - Monthly W - Weekly
linkedProfile	No	<a href="#">tCustomerServiceProfileNameNillable</a>	blank, or 32	Name of the customer service profile that is linked to this profile. A linked profile is required when certain tariffs are used, specifying criteria that, when met, changes the service profile for a device to the linked service profile. Set to blank to remove linked profile
Tariff	No	<a href="#">tTariffName</a>	40	Name of the tariff associated with this profile. This can only be changed if the profile is not already in use.
baseCountry	No	<a href="#">tCountryCode</a>	blank, or 2	2 character country code. This is the base country for devices in this profile. This can only be changed if the profile is not already in use. Set to blank to remove base country
provisioningProfile	No	<a href="#">tProvisioningProfileName</a>	64	Identifies the provisioning profile relevant to this customer service profile. This can only be changed if the profile is not already in use.
imeiMatchRule	No	<a href="#">tIimeiMatchRuleOptions</a>	1	N – No IMEI checking T – Match TAC F – Match IMEI
imeiCaptureRule	No	<a href="#">tIimeiCaptureRuleOptions</a>	1	F – Auto detect on first ever IMSI use L – Auto detect on first use in Active.Live state E – Manually configured
imeiDeviceAction	No	<a href="#">tIimeiDeviceActionOptions</a>	1	N – No action T – Tear down device session L – Tear down device session and suspend SIM

Name	Mandatory	Type	Size	Description
imeiAlertingAction	No	<a href="#">tAlertActionOptions</a>	1	1 – No action 2 – Immediate Email 3 – Include in daily report
Tac	No	<a href="#">tTac</a>	blank, or 6 or 8	If imeiMatchRule is configured as T (match TAC) then this element represents the TAC against which the IMEI is matched.
defaultSmsPriority	No	<a href="#">tSmsPriorityOptions</a>	1	The priority at which to submit text messages if a priority is not specified in the submission. Corresponds to [Reference 1 §5.2.14] 0 = Level 0 (lowest) priority 1 = Level 1 priority 2 = Level 2 priority 3 = Level 3 (highest) priority
defaultSmsValidityPeriod	No	String	16	Corresponds to [Reference 1 §5.2.16] <b>"YMMDDhhmsstnp"</b> where 'YY' last two digits of the year (00-99) 'MM' month (01-12) 'DD' day (01-31) 'hh' hour (00-23) 'mm' minute (00-59) 'ss' second (00-59) 't' tenths of second (0-9) 'nn' Time difference in quarter hours between localtime (as expressed in the first 13 octets) and UTC (Universal Time Constant) time (00-48). 'p' - "+" Local time is in quarter hours advanced in relation to UTC time. '-' Local time is in quarter hours retarded in relation to UTC time. 'R' Local time is relative to the current SMSC time.
defaultSmsReplace	No	<a href="#">tYesNoOption</a>	1	Corresponds to [Reference 1 §5.2.18] N – do not replace Y – replace

## setCustomerServiceProfileDetailsv2Response

The setCustomerServiceProfileDetailsv2Response data type

### Ancestors

None

### Relevant Operations

setCustomerServiceProfileDetailsv2

### Contents

The following table describes the elements of setCustomerServiceProfileDetailsv2Response.

Name	Description	Details
<code>return</code>	ResponseItem of the response object. Type: <a href="#">setCustomerServiceProfileDetailsv2ResponseBody</a>	

## setCustomerServiceProfileDetailsv2ResponseBody

The setCustomerServiceProfileDetailsv2ResponseBody data type

### Ancestors

setCustomerServiceProfileDetailsv2ResponseBody

### Relevant Operations

setCustomerServiceProfileDetailsv2

### Contents

The following table describes the elements of setCustomerServiceProfileDetailsv2ResponseBody.

Name	Description	Details
<code>returnCode</code>	ResponseItem of the response object. Type: <a href="#">returnCode</a>	

## cloneCustomerServiceProfilev2

The cloneCustomerServiceProfilev2 data type

### Ancestors

None

### Relevant Operations

cloneCustomerServiceProfilev2

### Contents

The following table describes the elements of cloneCustomerServiceProfilev2

Name	Mandatory	Type	Size	Description
<code>sourceCustomerServiceProfileName</code>	Yes	<a href="#">tCustomerServiceProfileName</a>	32	Source customer service profile.
<code>customerServiceProfileName</code>	Yes	<a href="#">tCustomerServiceProfileName</a>	32	The name for the new customer service profile.
<code>customerServiceProfileDescription</code>	Yes	<a href="#">tCustomerServiceProfileDescription</a>	80	Descriptive text for a customer service profile.

Name	Mandatory	Type	Size	Description
postTestModeState	No	<a href="#">tDeviceState</a>	1	The state to which a device will move upon leaving test mode.
connectState	No	<a href="#">tDeviceState</a>	1	The initial state for devices added to this profile.
unassignedIndicator	No	<a href="#">tYesNoOptions</a>	1	Y/N indicating whether this profile is to be used for unassigned devices.
highUsageThreshold	No	Long	0 to 999,999,999	The threshold number of bytes, above which a high usage alert will be generated for a device.
highUsageAction	No	<a href="#">tAlertActionOptions</a>	2	The action to be taken by the system when a device's packet data usage has reached the high usage threshold. Values: 1 Internal message logged 2 Email issues 3 Included in report
highUsageMonitoringPeriod	No	<a href="#">tAlertMonitoringPeriodOptions</a>	7	The period over which a device's packet data is considered for high usage. This will be: D - Daily M - Monthly W - Weekly
rogueUsageThreshold	No	Long	0 to 999,999,999	The threshold number of bytes, above which a rogue usage alert will be generated for a device.
rogueUsageAction	No	<a href="#">tAlertActionOptions</a>	2	The action to be taken by the system when a device's packet data usage has reached the rogue usage threshold. Values: 1 Internal message logged 2 Email issues 3 Included in report

Name	Mandatory	Type	Size	Description
rogueUsageMonitoringPeriod	No	<a href="#">tAlertMonitoringPeriodOptions</a>	7	The period over which a device's packet data is considered for rogue usage. This will be: D - Daily M - Monthly W - Weekly
linkedProfile	No	<a href="#">tCustomerServiceProfileNameNillable</a>	blank, or 32	Name of the customer service profile that is linked to this profile. A linked profile is required when certain tariffs are used, specifying criteria that, when met, changes the service profile for a device to the linked service profile. Set to blank to remove linked profile
Tariff	No	<a href="#">tTariffName</a>	40	Name of the tariff associated with this profile.
baseCountry	No	<a href="#">tCountryCode</a>	blank, or 2	2 character country code. This is the base country for devices in this profile. Set to blank to remove base country
provisioningProfile	No	<a href="#">tProvisioningProfileName</a>	64	Identifies the provisioning profile relevant to this customer service profile.
imeiMatchRule	No	<a href="#">tImeiMatchRuleOptions</a>	1	N – No IMEI checking T – Match TAC F – Match IMEI
imeiCaptureRule	No	<a href="#">tImeiCaptureRuleOptions</a>	1	F – Auto detect on first ever IMSI use L – Auto detect on first use in Active.Live state E – Manually configured
imeiDeviceAction	No	<a href="#">tImeiDeviceActionOptions</a>	1	N – No action T – Tear down device session L – Tear down device session and suspend SIM

Name	Mandatory	Type	Size	Description
<a href="#">imeiAlertingAction</a>	No	<a href="#">tAlertActionOptions</a>	1	1 – No action 2 – Immediate Email 3 – Include in daily report
<a href="#">Tac</a>	No	<a href="#">tTac</a>	blank, or 6 or 8	If imeiMatchRule is configured as T (match TAC) then this element represents the TAC against which the IMEI is matched.
<a href="#">defaultSmsPriority</a>	No	<a href="#">tSmsPriorityOptions</a>	1	The priority at which to submit text messages if a priority is not specified in the submission. Corresponds to [Reference 1 §5.2.14] 0 = Level 0 (lowest) priority 1 = Level 1 priority 2 = Level 2 priority 3 = Level 3 (highest) priority



Name	Mandatory	Type	Size	Description
defaultSmsValidityPeriod	No	String	16	<p>Corresponds to [Reference 1 §5.2.16]</p> <p><b>"YMMDDhhmsstnp"</b></p> <p>where</p> <ul style="list-style-type: none"> <li>'YY' last two digits of the year (00-99)</li> <li>'MM' month (01-12)</li> <li>'DD' day (01-31)</li> <li>'hh' hour (00-23)</li> <li>'mm' minute (00-59)</li> <li>'ss' second (00-59)</li> <li>'t' tenths of second (0-9)</li> <li>'nn' Time difference in quarter hours between localtime (as expressed in the first 13 octets) and UTC (Universal Time Constant) time (00-48).</li> <li>'p' - "+" Local time is in quarter hours advanced in relation to UTC time.</li> <li>"-" Local time is in quarter hours retarded in relation to UTC time.</li> <li>"R" Local time is relative to the current SMSC time.</li> </ul>
defaultSmsReplace	No	<a href="#">tYesNoOptions</a>	1	<p>Corresponds to [Reference 1 §5.2.18]</p> <p>N – do not replace Y – replace</p>

## cloneCustomerServiceProfilev2Response

The cloneCustomerServiceProfilev2Response data type

### Ancestors

None

### Relevant Operations

cloneCustomerServiceProfilev2

**Contents**

The following table describes the elements of cloneCustomerServiceProfilev2Response

Name	Description	Details
return	ResponseDetails of the response object. Type: <a href="#">cloneCustomerServiceProfilev2ResponseDetails</a>	

**cloneCustomerServiceProfilev2ResponseDetails**

The cloneCustomerServiceProfilev2ResponseDetails data type

**Ancestors**

cloneCustomerServiceProfilev2Response

**Relevant Operations**

cloneCustomerServiceProfilev2

**Contents**

The following table describes the elements of cloneCustomerServiceProfilev2ResponseDetails.

Name	Description	Details
returnCode	The return object of the API Type: <a href="#">returnCode</a>	

**getCustomerServiceProfileDetailsv2**

The getCustomerServiceProfileDetailsv2 data type

**Ancestors**

None

**Relevant Operations**

getCustomerServiceProfileDetailsv2

**Contents**

The following table describes the elements of getCustomerServiceProfileDetailsv2.

Name	Mandatory	Type	Size	Description
customerServiceProfileName	Yes	<a href="#">tCustomerServiceProfileName</a>	32	Identifier that uniquely identify the customer service profile.

**getCustomerServiceProfileDetailsv2Response**

The getCustomerServiceProfileDetailsv2Response data type

**Ancestors**

None

**Relevant Operations**

getCustomerServiceProfileDetailsv2

**Contents**

The following table describes the elements of getCustomerServiceProfileDetailsv2Response.

Name	Description	Details
return	ResponseItem of the response object. Type: <a href="#">getCustomerServiceProfilev2ResponseDetails</a>	

## getCustomerServiceProfilev2ResponseDetails

The getCustomerServiceProfilev2ResponseDetails data type

### Ancestors

getCustomerServiceProfileDetailsv2Response

### Relevant Operations

getCustomerServiceProfileDetailsv2

### Contents

The following table describes the elements of getCustomerServiceProfilev2ResponseDetails.

Name	Mandatory	Type	Size	Description
returnCode	Yes	<a href="#">returnCode</a>		The return object of the API
customerServiceProfileName	Yes	String	32	The same value as in request message.
customerServiceProfileDescription	Yes	String	80	Descriptive text for a customer service profile.
testModeVolume	Yes	Long	0 to 263-1	The number of bytes allowed for a device in test mode.
testModeExpiryLimit	Yes	Long	0 to 263-1	The number of days that a device will remain in test mode.
testModeSmsWakeupLimit	Yes	Number	0 to 263-1	The number of wakeup texts allowed for a device in test mode.
testModeSmsMtLimit	Yes	Number	0 to 263-1	The number of mobile terminated texts allowed for a device in test mode.
testModeSmsMoLimit	Yes	Number	0 to 263-1	The number of mobile originated texts allowed for a device in test mode.
testModeCsLimitDuration	Yes	Number	0 to 263-1	The number of seconds of circuit switched calls allowed for a device in test mode.
postTestModeState	Yes	String	10	The state to which a device will move upon leaving test mode.
connectState	Yes	String	10	The initial state for devices added to this profile.
unassignedIndicator	Yes	String	1	Y/N indicating whether this profile is to be used for unassigned devices.
highUsageThreshold	Yes	Long	0 to 999,999,999,999	The threshold number of bytes, above which a high usage alert will be generated for a device.

Name	Mandatory	Type	Size	Description
highUsageAction	Yes	String	Up to 15	The action to be taken by the system when a device's packet data usage has reached the high usage threshold. Values: WARNING - Internal message logged IMMEDIATE_EMAIL - Email issues DAILY_REPORT - Included in report
highUsageMonitoringPeriod	Yes	String	7	The period over which a device's packet data is considered for high usage. This will be: D - Daily M - Monthly W - Weekly
rogueUsageThreshold	Yes	Long	0 to 999,999,999,999	The threshold number of bytes, above which a rogue usage alert will be generated for a device.
rogueUsageAction	Yes	String	Up to 15	The action to be taken by the system when a device's packet data usage has reached the rogue usage threshold. Values: WARNING - Internal message logged IMMEDIATE_EMAIL - Email issues DAILY_REPORT - Included in report
rogueUsageMonitoringPeriod	Yes	String	7	The period over which a device's packet data is considered for rogue usage. This will be: D - Daily M - Monthly W - Weekly
linkedProfile	Yes	String	32	Name of the customer service profile that is linked to this profile. A linked profile is required when certain tariffs are used, specifying criteria that, when met, changes the service profile for a device to the linked service profile.
Tariff	Yes	String	40	Name of the tariff associated with this profile.
baseCountry	Yes	String	2	2 character country code. This is the base country for devices in this profile.
provisioningProfile	Yes	String	64	Identifies the provisioning profile relevant to this customer service profile.

Name	Mandatory	Type	Size	Description
profileInUse	Yes	String	1	Y indicates that this profile is in use. If a profile is in use, then tariff, provisioning profile, or base country may not be changed.
imeiMatchRule	Yes	String	1	N – No IMEI checking T – Match TAC F – Match IMEI
imeiCaptureRule	Yes	String	1	F – Auto detect on first ever IMSI use L – Auto detect on first use in Active.Live state E – Manually configured
imeiDeviceAction	Yes	String	1	N – No action T – Tear down device session L – Tear down device session and suspend SIM
imeiAlertingAction	Yes	String	1	1 – No action 2 – Immediate Email 3 – Include in daily report
Tac	Yes	String	6 or 8	If imeiMatchRule is configured as T (match TAC) then this element represents the TAC against which the IMEI is matched.
testModeSmsWakeupLimit	Yes	Number (int)	0 to 2 <sup>63</sup> -1	The number of wakeup texts allowed for a device in test mode.
testModeSmsMtLimit	Yes	Number (int)	0 to 2 <sup>63</sup> -1	The number of mobile terminated texts allowed for a device in test mode.
testModeSmsMoLimit	Yes	Number (int)	0 to 2 <sup>63</sup> -1	The number of mobile originated texts allowed for a device in test mode.
defaultSmsPriority	Yes	Number (int)	1	The priority at which to submit text messages if a priority is not specified in the submission. Corresponds to [Reference 1 §5.2.14] 0 = Level 0 (lowest) priority 1 = Level 1 priority 2 = Level 2 priority 3 = Level 3 (highest) priority

Name	Mandatory	Type	Size	Description
defaultSmsValidityPeriod	Yes	String	16	Corresponds to [Reference 1 §5.2.16] “YYMMDDhhmmssnnp” where ‘YY’ last two digits of the year (00-99) ‘MM’ month (01-12) ‘DD’ day (01-31) ‘hh’ hour (00-23) ‘mm’ minute (00-59) ‘ss’ second (00-59) ‘t’ tenths of second (0-9) ‘nn’ Time difference in quarter hours between localtime (as expressed in the first 13 octets) and UTC (Universal Time Constant) time (00-48). ‘p’ - “+” Local time is in quarter hours advanced in relation to UTC time. “-” Local time is in quarter hours retarded in relation to UTC time. “R” Local time is relative to the current SMSC time.
defaultSmsReplace	Yes	String	1	Corresponds to [Reference 1 §5.2.18] N – do not replace Y – replace

## setCustomerServiceProfileDetailsv3

The setCustomerServiceProfileDetailsv3 data type

### Ancestors

None

### Relevant Operations

setCustomerServiceProfileDetailsv3

### Contents

The following table describes the elements of setCustomerServiceProfileDetailsv3.

Name	Mandatory	Type	Size	Description
customerServiceProfileName	Yes	<a href="#">tCustomerServiceProfileName</a>	32	The key identifying the customer service profile to be updated.

Name	Mandatory	Type	Size	Description
customerServiceProfileDescription	No	<a href="#">tCustomerServiceProfileDescription</a>	80	Descriptive text for a customer service profile.
postTestModeState	No	<a href="#">tDeviceState</a>	1	The state to which a device will move upon leaving test mode.
connectState	No	<a href="#">tDeviceState</a>	1	The initial state for devices added to this profile.
unassignedIndicator	No	<a href="#">tYesNoOptions</a>	1	Y/N indicating whether this profile is to be used for unassigned devices.
highUsageThreshold	Yes	String	blank, or 0 to 999,999,999,999	The threshold number of bytes, above which a high usage alert will be generated for a device. Set to blank to turn off processing for this threshold.
highUsageAction	Yes	<a href="#">tAlertActionOptionsv2</a>	blank, or 15	The action to be taken by the system when a device's packet data usage has reached the high usage threshold. Values: WARNING - Internal message logged IMMEDIATE_EMAIL - Email issues DAILY_REPORT - Included in report Set to blank to turn off processing for this threshold.
highUsageMonitoringPeriod	Yes	<a href="#">tAlertMonitoringPeriodOptions</a>	1	The period over which a device's packet data is considered for high usage. This will be: D - Daily M - Monthly W - Weekly Set to blank to turn off processing for this threshold.
rogueUsageThreshold	Yes	String	blank, or 0 to 999,999,999,999	The threshold number of bytes, above which a rogue usage alert will be generated for a device. Set to blank to turn off processing for this threshold.

Name	Mandatory	Type	Size	Description
<a href="#">rogueUsageAction</a>	Yes	<a href="#">tAlertActionOptionsv2</a>	blank, or 15	The action to be taken by the system when a device's packet data usage has reached the rogue usage threshold. Values: WARNING - Internal message logged IMMEDIATE_EMAIL - Email issues DAILY_REPORT - Included in report
<a href="#">rogueUsageMonitoringPeriod</a>	Yes	<a href="#">tAlertMonitoringPeriodOptions</a>	1	The period over which a device's packet data is considered for rogue usage. This will be: D - Daily M - Monthly W - Weekly
<a href="#">linkedProfile</a>	No	<a href="#">tCustomerServiceProfileNameNillable</a>	blank, or up to 32	Name of the customer service profile that is linked to this profile. A linked profile is required when certain tariffs are used, specifying criteria that, when met, changes the service profile for a device to the linked service profile. Set to blank to remove the linked profile
<a href="#">tariff</a>	No	<a href="#">tTariffName</a>	40	Name of the tariff associated with this profile. This can only be changed if the profile is not already in use.
<a href="#">baseCountry</a>	No	<a href="#">tCountryCode</a>	blank, or 2	2 character country code. This is the base country for devices in this profile. This can only be changed if the profile is not already in use. Set to blank to remove the base country
<a href="#">provisioningProfile</a>	No	<a href="#">tProvisioningProfileName</a>	64	Identifies the provisioning profile relevant to this customer service profile. This can only be changed if the profile is not already in use.
<a href="#">imeiMatchRule</a>	No	<a href="#">tImeiMatchRuleOptions</a>	1	N – No IMEI checking T – Match TAC F – Match IMEI



Name	Mandatory	Type	Size	Description
<a href="#">imeiCaptureRule</a>	No	<a href="#">tImeiCaptureRuleOptions</a>	1	F – Auto detect on first ever IMSI use L – Auto detect on first use in Active.Live state E – Manually configured
<a href="#">imeiDeviceAction</a>	No	<a href="#">tImeiDeviceActionOptions</a>	1	N – No action T – Tear down device session L – Tear down device session and suspend SIM
<a href="#">imeiAlertingAction</a>	No	<a href="#">tAlertActionOptions</a>	1	1 – No action 2 – Immediate Email 3 – Include in daily report
<a href="#">Tac</a>	No	<a href="#">tTac</a>	blank, or 6 or 8	If imeiMatchRule is configured as T (match TAC) then this element represents the TAC against which the IMEI is matched.
<a href="#">defaultSmsPriority</a>	No	<a href="#">tSmsPriorityOptions</a>	1	The priority at which to submit text messages if a priority is not specified in the submission. Corresponds to [Reference 1 §5.2.14] 0 = Level 0 (lowest) priority 1 = Level 1 priority 2 = Level 2 priority 3 = Level 3 (highest) priority

Name	Mandatory	Type	Size	Description
<code>defaultSmsValidityPeriod</code>	No	String	16	Corresponds to [Reference 1 §5.2.16] "YYMMDDhhmmsstnnp" where 'YY' last two digits of the year (00-99) 'MM' month (01-12) 'DD' day (01-31) 'hh' hour (00-23) 'mm' minute (00-59) 'ss' second (00-59) 't' tenths of second (0-9) 'nn' Time difference in quarter hours between localtime (as expressed in the first 13 octets) and UTC (Universal Time Constant) time (00-48). 'p' - "+" Local time is in quarter hours advanced in relation to UTC time. "-" Local time is in quarter hours retarded in relation to UTC time. "R" Local time is relative to the current SMSC time.
<code>defaultSmsReplace</code>	No	<a href="#">tYesNoOptio</a> <a href="#">ns</a>	1	Corresponds to [Reference 1 §5.2.18] N – do not replace Y – replace

## setCustomerServiceProfileDetailsv3Response

The setCustomerServiceProfileDetailsv3Response data type

### Ancestors

None

### Relevant Operations

setCustomerServiceProfileDetailsv3

### Contents

The following table describes the elements of setCustomerServiceProfileDetailsv3Response.

Name	Description	Details
<code>return</code>	ResponseItem of the response object. Type: <a href="#">setCustomerServiceProfileDetailsv3ResponseBody</a>	

## setCustomerServiceProfileDetailsv3ResponseBody

The setCustomerServiceProfileDetailsv3ResponseBody data type

### Ancestors

setCustomerServiceProfileDetailsv3Response

### Relevant Operations

setCustomerServiceProfileDetailsv3

### Contents

The following table describes the elements of setCustomerServiceProfileDetailsv3ResponseBody.

Name	Description	Details
returnCode	ResponseItem of the response object. Type: <a href="#">returnCode</a>	

## cloneCustomerServiceProfilev3

The cloneCustomerServiceProfilev3 data type

### Ancestors

None

### Relevant Operations

cloneCustomerServiceProfilev3

### Contents

The following table describes the elements of cloneCustomerServiceProfilev3.

Name	Mandatory	Type	Size	Description
sourceCustomerServiceProfileName	Yes	<a href="#">tCustomerServiceProfileName</a>	32	Source customer service profile.
customerServiceProfileName	Yes	<a href="#">tCustomerServiceProfileName</a>	32	The name for the new customer service profile.
customerServiceProfileDescription	Yes	<a href="#">tCustomerServiceProfileDescription</a>	80	Descriptive text for a customer service profile.
postTestModeState	No	<a href="#">tDeviceState</a>	1	The state to which a device will move upon leaving test mode.
connectState	No	<a href="#">tDeviceState</a>	1	The initial state for devices added to this profile.
unassignedIndicator	No	<a href="#">tYesNoOptions</a>	1	Y/N indicating whether this profile is to be used for unassigned devices.
highUsageThreshold	No	long	blank, or 0 to 999,999,999	The threshold number of bytes, above which a high usage alert will be generated for a device. Set to blank to turn off processing for this threshold.

Name	Mandatory	Type	Size	Description
highUsageAction	No	<a href="#">tAlertActionOptions</a>	blank , or up to 15	The action to be taken by the system when a device's packet data usage has reached the high usage threshold. Values: WARNING - Internal message logged IMMEDIATE_EMAIL - Email issues DAILY_REPORT - Included in report  Set to blank to turn off processing for this threshold.
highUsageMonitoringPeriod	No	<a href="#">tAlertMonitoringPeriodOptions</a>	blank , or 1	The period over which a device's packet data is considered for high usage. This will be "D" or "M" for Daily or Monthly  Set to blank to turn off processing for this threshold.
rogueUsageThreshold	No	long	blank , or 0 to 999,9 99,99 9,999	The threshold number of bytes, above which a rogue usage alert will be generated for a device.  Set to blank to turn off processing for this threshold.
rogueUsageAction	No	<a href="#">tAlertActionOptions</a>	blank , or up to 15	The action to be taken by the system when a device's packet data usage has reached the rogue usage threshold. Values: WARNING - Internal message logged IMMEDIATE_EMAIL - Email issues DAILY_REPORT - Included in report  Set to blank to turn off processing for this threshold.
rogueUsageMonitoringPeriod	No	<a href="#">tAlertMonitoringPeriodOptions</a>	blank , or 1	The period over which a device's packet data is considered for rogue usage. This will be "D" or "M" for Daily or Monthly  Set to blank to turn off processing for this threshold.

Name	Mandatory	Type	Size	Description
linkedProfile	No	<a href="#">tCustomerServiceProfileNameNilable</a>	32	Name of the customer service profile that is linked to this profile. A linked profile is required when certain tariffs are used, specifying criteria that, when met, changes the service profile for a device to the linked service profile.
Tariff	No	<a href="#">tTariffName</a>	40	Name of the tariff associated with this profile.
baseCountry	No	<a href="#">tCountryCode</a>	2	2 character country code. This is the base country for devices in this profile.
provisioningProfile	No	<a href="#">tProvisioningProfileName</a>	64	Identifies the provisioning profile relevant to this customer service profile.
imeiMatchRule	No	<a href="#">tImeiMatchRuleOptions</a>	1	N – No IMEI checking T – Match TAC F – Match IMEI
imeiCaptureRule	No	<a href="#">tImeiCaptureRuleOptions</a>	1	F – Auto detect on first ever IMSI use L – Auto detect on first use in Active.Live state E – Manually configured
imeiDeviceAction	No	<a href="#">tImeiDeviceActionOptions</a>	1	N – No action T – Tear down device session L – Tear down device session and suspend SIM
imeiAlertingAction	No	<a href="#">tAlertActionOptions</a>	1	1 – No action 2 – Immediate Email 3 – Include in daily report
Tac	No	<a href="#">tTac</a>	blank, or 6 or 8	If imeiMatchRule is configured as T (match TAC) then this element represents the TAC against which the IMEI is matched.
defaultSmsPriority	No	<a href="#">tSmsPriorityOptions</a>	1	The priority at which to submit text messages if a priority is not specified in the submission. Corresponds to [Reference 1 §5.2.14] 0 = Level 0 (lowest) priority 1 = Level 1 priority 2 = Level 2 priority 3 = Level 3 (highest) priority

Name	Mandatory	Type	Size	Description
<a href="#">defaultSmsValidityPeriod</a>	No	String	16	Corresponds to [Reference 1 §5.2.16] "YYMMDDhhmmssstnp" where 'YY' last two digits of the year (00-99) 'MM' month (01-12) 'DD' day (01-31) 'hh' hour (00-23) 'mm' minute (00-59) 'ss' second (00-59) 't' tenths of second (0-9) 'nn' Time difference in quarter hours between localtime (as expressed in the first 13 octets) and UTC (Universal Time Constant) time (00-48). 'p' - "+" Local time is in quarter hours advanced in relation to UTC time. "-" Local time is in quarter hours retarded in relation to UTC time. "R" Local time is relative to the current SMSC time.
<a href="#">defaultSmsReplace</a>	No	<a href="#">tYesNoOptions</a>	1	Corresponds to [Reference 1 §5.2.18] N – do not replace Y - replace

## cloneCustomerServiceProfilev3Response

The cloneCustomerServiceProfilev3Response data type

### Ancestors

None

### Relevant Operations

cloneCustomerServiceProfilev3

### Contents

The following table describes the elements of cloneCustomerServiceProfilev3Response.

Name	Description	Details
<a href="#">return</a>	ResponseDetails of the response object Type: <a href="#">cloneCustomerServiceProfilev3ResponseDetails</a>	

## cloneCustomerServiceProfilev3ResponseDetails

The cloneCustomerServiceProfilev3ResponseDetails data type

### Ancestors

cloneCustomerServiceProfilev3Response

### Relevant Operations

cloneCustomerServiceProfilev3

### Contents

The following table describes the elements of cloneCustomerServiceProfilev3ResponseDetails.

Name	Description	Details
returnCode	The return object of the API Type: <a href="#">returnCode</a>	

## getFilteredDeviceList

The getFilteredDeviceList data type.

### Ancestors

None

### Relevant Operations

getFilteredDeviceList

### Contents

The following table describes the values of getFilteredDeviceList.

Name	Mandatory	Type	Size	Description
pageSize	No	Long		Number of records to return in a single response message. If this parameter is specified, so must be pageNumber
pageNumber	No	Long		Which block of results to be returned. If this parameter is specified, so must be pageSize.
matchImsi	No	<a href="#">tImsiList</a>	Up to 100	If present, the returned list of devices will be filtered to match the specified IMSIs.
matchIccid	No	<a href="#">tIccidList</a>	Up to 100	If present, the returned list of devices will be filtered to match the specified ICCIDs.
matchCustomerServiceProfiles	No	<a href="#">tCustomerServiceProfileList</a>	Up to 100	If present, the returned list of devices will be filtered to match the specified customer service profiles.
matchRagStatus	No	<a href="#">tRagStateList</a>		If present, the returned list of devices will be filtered to match the specified RAG states.

Name	Mandatory	Type	Size	Description
<a href="#">matchDeviceState</a>	No	<a href="#">tDeviceStateList</a>		If present, the returned list of devices will be filtered to match the specified state.
<a href="#">matchAlert</a>	No	<a href="#">tAlertTypeList</a>		If present, the returned list of devices will be filtered to those that have had an alert of the specified type in the current alert monitoring period.
<a href="#">matchCustomerOrderNumber</a>	No	<a href="#">tCustomerOrderNumberList</a>		If present, the returned list of devices will be filtered to those that relate to the specified customer orders.
<a href="#">matchCustomAttribute1</a>	No	<a href="#">tCustomAttributeList</a>	Up to 100	If present, the returned list of devices will be filtered to those whose custom attribute 1 matches the specified values.
<a href="#">matchCustomAttribute2</a>	No	<a href="#">tCustomAttributeList</a>	Up to 100	If present, the returned list of devices will be filtered to those whose custom attribute 2 matches the specified values.
<a href="#">matchCustomAttribute3</a>	No	<a href="#">tCustomAttributeList</a>	Up to 100	If present, the returned list of devices will be filtered to those whose custom attribute 3 matches the specified values.
<a href="#">matchCustomAttribute4</a>	No	<a href="#">tCustomAttributeList</a>	Up to 100	If present, the returned list of devices will be filtered to those whose custom attribute 4 matches the specified values.
<a href="#">matchCustomAttribute5</a>	No	<a href="#">tCustomAttributeList</a>	Up to 100	If present, the returned list of devices will be filtered to those whose custom attribute 5 matches the specified values.

## getFilteredDeviceListv2

The getFilteredDeviceListv2 data type.

### Ancestors

None

### Relevant Operations

getFilteredDeviceListv2

### Contents

The following table describes the values of getFilteredDeviceListv2.



Name	Mandatory	Type	Size	Description
pageSize	No	Long		Number of records to return in a single response message. If this parameter is specified, so must be pageNumber
pageNumber	No	Long		Which block of results to be returned. If this parameter is specified, so must be pageSize.
matchImsi	No	<a href="#">tImsiList</a>	Up to 100	If present, the returned list of devices will be filtered to match the specified IMSIs.
matchIccid	No	<a href="#">tIccidList</a>	Up to 100	If present, the returned list of devices will be filtered to match the specified ICCIDs.
matchCustomerServiceProfiles	No	<a href="#">tCustomerServiceProfileList</a>	Up to 100	If present, the returned list of devices will be filtered to match the specified customer service profiles.
matchRagStatus	No	<a href="#">tRagStateList</a>		If present, the returned list of devices will be filtered to match the specified RAG states.
matchDeviceState	No	<a href="#">tDeviceStateList</a>		If present, the returned list of devices will be filtered to match the specified state.
matchAlert	No	<a href="#">tAlertTypeList</a>		If present, the returned list of devices will be filtered to those that have had an alert of the specified type in the current alert monitoring period.
matchEarliestFirstUsedDate	No	dateTime		Date when the device was first used. Format (YYYY-MM-DDTHH24:MI:SS)
matchCustomerOrderNumber	No	<a href="#">tCustomerOrderNumberList</a>		If present, the returned list of devices will be filtered to those that relate to the specified customer orders.
matchCustomAttribute1	No	<a href="#">tCustomAttributeList</a>	Up to 100	If present, the returned list of devices will be filtered to those whose custom attribute 1 matches the specified values.

Name	Mandatory	Type	Size	Description
<a href="#">matchCustomAttribute2</a>	No	<a href="#">tCustomAttributeList</a>	Up to 100	If present, the returned list of devices will be filtered to those whose custom attribute 2 matches the specified values.
<a href="#">matchCustomAttribute3</a>	No	<a href="#">tCustomAttributeList</a>	Up to 100	If present, the returned list of devices will be filtered to those whose custom attribute 3 matches the specified values.
<a href="#">matchCustomAttribute4</a>	No	<a href="#">tCustomAttributeList</a>	Up to 100	If present, the returned list of devices will be filtered to those whose custom attribute 4 matches the specified values.
<a href="#">matchCustomAttribute5</a>	No	<a href="#">tCustomAttributeList</a>	Up to 100	If present, the returned list of devices will be filtered to those whose custom attribute 5 matches the specified values.
<a href="#">sortField</a>		String		Name of the field based on which results are sorted
<a href="#">sortFieldOrderDirection</a>	No	String		Sort order (ASC – For ascending DESC for descending)

## gdspHeader

The gdspHeader data type of the outbound API functions

### Ancestors

None

### Relevant Operations

Outbound APIs

### Contents

The following table describes the elements of gdspHeader.

Name	Description	Details
<a href="#">gdspCredentials</a>	The credentials of GDSP user Type: <a href="#">gdspCredentials</a>	
<a href="#">gdspFlags</a>	The flags of gdsp Type: <a href="#">gdspFlags</a>	

## gdspCredentials

The gdspCredentials data type of the outbound API functions.

### Ancestors

gdspHeader

### Relevant Operations

Outbound APIs

### **Contents**

The following table describes the elements of gdspCredentials.

Name	Mandatory	Type	Size	Description
customerId	No	Long	-	If the userId does not relate to a single customer, then this data element is required.
Password	Yes	String	8 up to 32	Password (unencrypted)
userId	Yes	String	Up to 32	ID identifying the Customer

### **gdspFlags**

The gdspFlags data type

#### **Ancestors**

gdspHeader

#### **Relevant Operations**

Outbound APIs

### **Contents**

The following table describes the elements of gdspFlags.

Name	Mandatory	Type	Size	Description
Retry		Int		

### **returnCode**

The returnCode data type

#### **Ancestors**

Generic

#### **Relevant Operations**

Outbound APIs

### **Contents**

The following table describes the elements of returncode.

Name	Mandatory	Type	Size	Description
majorreturnCode	Yes	String	3	Indicates the return code category.  Together with minorreturnCode, they indicate the outcome (success/failure) of request message processing.

<code>minorreturnCode</code>	Yes	String	4	Detail code for specific error. Together with <code>majorreturnCode</code> , they indicate the outcome (success/failure) of request message processing.
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## notifyDeviceInfo

The notifyDeviceInfo data type

### Ancestors

None

### Relevant Operations

notifyDeviceInfo

### Contents

The following table describes the elements of notifyDeviceInfo.

Name	Mandatory	Type	Size	Description
<code>deviceId</code>	Yes	String	15	Identifier that uniquely identify the device. Value = IMSI
<code>infoType</code>	Yes	String	Up to 20	Identifies the set of configuration data to be updated. For initial release the only value supported is 'ConnectStatus'
<code>Connectivity</code>	No	<a href="#">connectivity</a>	80	Descriptive text for a customer service profile.

## connectivity

The connectivity data type

### Ancestors

notifyDeviceInfo

### Relevant Operations

notifyDeviceInfo

### Contents

The following table describes the elements of notifyDeviceInfoResponse.

Name	Mandatory	Type	Size	Description
<code>connectState</code>	No	Number (int)	1	Present if <code>infoType</code> = 'ConnectStatus' and device record can be found in the system. (0=not connected; 1=connected)

Name	Mandatory	Type	Size	Description
ipv4Address	No	String	15	Present if infoType = 'ConnectStatus', device is connected and IP Address detail is available. IP version 4 address, in the format of nnn.nnn.nnn.nnn

## notifyDeviceInfoResponse

The notifyDeviceInfoResponse data type

### Ancestors

None

### Relevant Operations

notifyDeviceInfo

### Contents

The following table describes the elements of notifyDeviceInfoResponse.

Name	Description	Details
return	ResponseDetails of the response object. Type: <a href="#">deviceInfoResponse</a>	

## deviceInfoResponse

The deviceInfoResponse data type

### Ancestors

notifyDeviceInfoResponse

### Relevant Operations

notifyDeviceInfo

### Contents

The following table describes the elements of deviceInfoResponse.

Name	Description	Details
returnCode	The return object of the API Type: <a href="#">returnCode</a>	
deviceId	String	The same value as in request message
infoType	String	The same value as in request message

## deliverSMS

The deliverSMS data type

### Ancestors

None

### Relevant Operations

deliverSMS

**Contents**

The following table describes the elements of deliverSMS

Name	Mandatory	Type	Size	Description
deviceId	Yes	String	15	Identifier that uniquely identify the device. Value = IMSI
destinationId	Yes	String	Up to 15	The destination for the text message at the handset
messageData	Yes	String	See comment	Text message represented in Base64. When decoded, the maximum length for a Text message is 160 characters, for a Unicode and Binary message is 140 characters.
messageType	Yes	String	7	Specifies the type of message. Text => default SMS alphabet Unicode Binary
messageUDH	Yes	String	1	Y or N. This flag is used to indicate whether the user data header flag is set. This may be used to submit concatenated text messages.

**deliverSMSResponse**

The deliverSMSResponse data type

**Ancestors**

None

**Relevant Operations**

deliverSMS

**Contents**

The following table describes the elements of deliverSMSResponse.

Name	Description	Details
Return	ResponseDetails of the response object. Type: <a href="#">smsResponse</a>	

**smsResponse**

The smsResponse data type

**Ancestors**

deliverSMSResponse

**Relevant Operations**

deliverSMS

**Contents**

The following table describes the elements of smsResponse.

Name	Description	Details
returnCode	The return object of the API Type: <a href="#">returnCode</a>	
deviceId	String	The same value as in request message

## notifySMSDelivery

The notifySMSDelivery data type

### Ancestors

None

### Relevant Operations

notifySMSDelivery

### Contents

The following table describes the elements of notifySMSDelivery

Name	Mandatory	Type	Size	Description
deviceId	Yes	String	15	Identifier that uniquely identify the device. Value = IMSI
messageReference	Yes	String	Up to 65 characters	The Message Reference issued by the SMSC. This may be used to match with MessageReference in a submit SMS API
Status	Yes	String	Up to 11 characters	Delivered Undelivered Expired

## notifySMSDeliveryResponse

The notifySMSDelivery data type

### Ancestors

None

### Relevant Operations

notifySMSDeliveryResponse

### Contents

The following table describes the elements of notifySMSDeliveryResponse.

Name	Description	Details
Return	ResponseDetails of the response object. Type: <a href="#">notifySMSDeliveryResponseImpl</a>	

## notifySMSDeliveryResponseImpl

The notifySMSDeliveryResponseImpl data type

### Ancestors

notifySMSDeliveryResponse

**Relevant Operations**

notifySMSDelivery

**Contents**

The following table describes the elements of notifySMSDeliveryResponseImpl.

Name	Description	Details
returnCode	The return object of the API Type: <a href="#">returnCode</a>	
deviceId	String	The same value as in request message



## 11 Lexicon

Term	Definition
GDSP	Vodafone's Global Data Services Platform
HTTPS	Hypertext Transfer Protocol – Secure
IMSI	International Mobile Subscriber Identity
M2M	Machine-To-Machine
SMSC	Short Message Service Centre
SOAP	Simple Object Access Protocol
SSL	Secure Socket Layer
TAC	Type Allocation Code. First 6 or 8 characters of the IMEI indicating the class of device.
SIM	Subscriber Identification Module. Relates to the device.
WSDL	Web Services Definition Language

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