

DCP Service Portal API

Ericsson Device Connection Platform

INTERWORK DESCRIPTION

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1 Introduction

This document describes the Device Connection Platform (DCP) Service Portal API.

Scope

This document covers the following topics:

- An overview of all services offered by the service portal API
- A detailed description of all lower-level procedures and operations interacting with the service portal API

Note: The elements that are not mandatory are mentioned as **Optional** across the document.

The term service request in this document and the term subscription request in the Service Portal refer to the same concept.

The elements `requestId` and `serviceRequestId` refer to the same concept in this API.

There is no one-to-one correspondence between the features available through the Service Portal and the API.

Target Groups

This document is intended for personnel needing to understand the logical entity, including interfaces and protocols, of the DCP.

1.1 Prerequisites

In this document, it is assumed that the user is familiar with the following:

- Extensible Markup Language® (XML)
- Basic understanding of web services
- Tools and programming languages for consuming web services

1.2 Related Information

For a summary on feature availability for Operator and Enterprise users through the Service Portal, the Service Portal API (SOAP), and the device localization API (REST), see the following document:

- DCP Service Portal - API Feature Mapping, Reference [2]



For the full list of permissions impacting the Service Portal API, see the following document:

- DCP Service Portal Operator Guide, Reference [3]

The definition and explanation of acronyms and terminology, and typographic conventions can be found in the following documents:

- DCP Glossary of Terms and Acronyms, Reference [1]
- Typographic Conventions, Reference [4]



2 Revision Information

Table 1 shows the changes in the recent revisions of the DCP Service Portal API. Other than editorial changes, this document has been revised as follows:

Table 1 Revision Information

Section	Title	Change
DCP release 22B1, document revision CK		
Section 3.4.7 on page 11	Customer Number	The description of this field was clarified.
Section 3.2 on page 5	Services	A table note was added about the decommissioning of the RealtimeTrace service.
Section 4.4 on page 20	RealtimeTrace	A note was added about the decommissioning of the RealtimeTrace service.
DCP release 22A2, document revision CJ		
Section 3.4.6 on page 10	Usage Control	The number of the maximum processed requests was modified to 100. The number of the maximum pending requests was modified to eight.
Section 4.7.10 on page 62	QuerySubscriptionPackageChangeBatch	The example for the request was modified.
Section 4.14.1 on page 150	QueryServiceRequests	serviceRequestSummary and company descriptions were corrected.
DCP release 22A1, document revision CH		
General	The whole document	<ul style="list-style-type: none"> The description of the customerNo field was updated throughout the document.
Section 3.4.7 on page 11	Customer Number	<ul style="list-style-type: none"> The description was updated to show when the customerNo field is mandatory.
DCP release 21B2, document revision CG		
Section 4.8.1 on page 82	Query	RAT Traffic Report has been added to the Report Type table.
Section 5.2 on page 163	Real-Time Trace Events	New codes were added and the descriptions were updated.
Section 5.4 on page 172	QueryServiceRequests serviceRequestType	The section has been added.
DCP release 21B1, document revision CF		
General	The whole document	Some reference links to other documents were corrected.
DCP release 21B1, document revision CE		
Section 4.8.1 on page 82	Query	Price Profile Category Report was added to Table 86.
DCP release 21A2, document revision CD		
Section 4.6.2 on page 30	Query_v2	activePDPContexts field description was updated.
DCP release 21A2, document revision CC		
Section 4.7.13 on page 69	RequestCustomerLabelChange	Information on the range element was corrected.



Table 1 Revision Information

Section	Title	Change
DCP release 21A1, document revision CB		
Section 4.3.1 on page 19	Query	Usage data history is now available only from the last 60 days.
DCP release 20B2, document revision CA		
Section 4.7.1 on page 39	QuerySimResource	The description of the roamProfileName element was updated.
Section 4.7.2 on page 44	QuerySimResources	The description of the roamProfileName element was updated.
DCP release 20B1, document revision BZ		
Section 4.7.4 on page 50	QuerySubscriptionStatusChange	Description was added for statusRequestResponse in Table 50.
DCP release 20B1, document revision BY		
Section 4.1.1 on page 13	Echo	Request and response examples were corrected.
DCP release 20A1, document revision BX		
Section 4.7.8 on page 58	RequestSubscriptionPackageChange	The description was corrected, customerNo is not an optional parameter.
Section 4.7.9 on page 60	RequestSubscriptionPackageChangeBatch	The description was corrected, customerNo is not an optional parameter.
Section 5.2 on page 163	Real-Time Trace Events	The table was restructured and new event codes were added.
DCP release 19B2, document revision BV		
Section 4.7.1 on page 39	QuerySimResource	The applicability of the consumerConnectivity parameter was detailed. The parameter indicates only if Consumer Connectivity Services version 1 is available.
Section 4.7.3 on page 48	RequestSubscriptionStatusChange	Resource type icc added.
Section 4.7.6 on page 53	RequestSubscriptionStatusChangeBatch	Resource type icc added.
Section 4.7.9 on page 60	RequestSubscriptionPackageChangeBatch	Resource type icc added.
Section 4.7.13 on page 69	RequestCustomerLabelChange	Resource type icc added.



3 Interface Overview

This section describes the interface between an application and the DCP service portal API.

3.1 Interface Role

The API provides functionality within different areas such as solution management, operational status, report, statistics, and support.

3.2 Services

The services offered by the portal API are shown in Table 2.

Table 2 Offered Services

Offered Service	Description
ApiStatus	This service offers operations to view status of the API in real time.
SubscriptionTraffic	This service returns traffic information for resources on the network. The information consists of ID, location update, Packet Data Protocol (PDP), and SMS related data.
UsageDataDownload	This service makes it possible to download usage data (SMS Charging Data Record (CDR), GPRS CDR, and Transfer Account Procedure (TAP) records) stored in the Data Warehouse.
RealtimeTrace	This service makes it possible to trace traffic for a resource in real time. ⁽¹⁾
OperatorInfo	This service contains two operations; one for retrieving a list of all Countries with corresponding Country Code and a similar operation for retrieving all available Operators.
AggregatedTraffic	This service returns various aggregated traffic data.
SubscriptionManagement	This service offers operations for managing subscriptions.
ReportDownload	This service makes it possible to download information about available reports.
IncidentManagement	This service offers operations to retrieve information about logged incidents, as summary information for a range of incidents or detailed information for a single incident.
OverallStatus	This service retrieves the status of all core services and the status of customer-specific services.
TriggerAlarmsService	This service fetches information about triggered alarms or clears them.
TriggerPackageManagement	This service offers operations for managing trigger packages.
BundlePackageManagement	This service offers operations for bundle package management.
ServiceRequestManagement	This service allows managing service requests.

(1) This service is decommissioned in the 22B2 release.

3.3 Encapsulation and Addressing

The API is programming language-neutral and provides a Simple Object Access Protocol (SOAP) 1.1 interface using document literal encoding over HTTPS.



For more information about HTTPS specifications, see the following document:

- HTTP Protocol RFC 2616, Reference [8]

SOAP

SOAP is an XML-based protocol that allows the exchange of information in a decentralized, distributed environment.

A SOAP message is an ordinary XML document containing the following elements:

- **Envelope:** A required element that identifies the XML document as a SOAP message.
- **Header:** An optional element that contains header information.
- **Body:** A required element that contains call and response information.
- **Fault:** An optional element that provides information about errors that occurred while processing the message.

For more information about SOAP 1.1 specifications, see the following document:

- SOAP1.1 Specification, Reference [9]

The most common way to use SOAP is to download the Web Services Description Language (WSDL), and then use a SOAP toolkit such as Apache CXF™ or Microsoft .NET® to create bindings. Then write code that uses the bindings to call the API.

WSDL

WSDL is a document written in XML. The document describes a web service. It specifies the location of the service and the operations (or methods) the service exposes.

A WSDL document is a set of definitions. There is a definition element in the root, and definitions inside Services are defined using the following six major elements:

- **Types**, which provides data type definitions used to describe the messages exchanged.
- **Message**, which represents an abstract definition of the data being transmitted. A message consists of logical parts, each of which is associated with a definition within some type system.
- **PortType**, which is a set of abstract operations. Each operation refers to an input message and output messages.
- **Binding**, which specifies concrete protocol and data format specifications for the operations and messages defined by a particular portType.



- **Port**, which specifies an address for a binding, thus defining a single communication endpoint.
- **Service**, which is used to aggregate a set of related ports.

For more information about WSDL specifications, see the following document:

- WSDL Specification, Reference [10]

3.4 Using Service Portal API

This section describes the basic concepts when using the API.

3.4.1 Transport

True 128-bit Secure Socket Layer (SSL) Certificates are used for encryption.

3.4.2 Compatibility

Most fields in **request** elements are **optional** so that information can be removed or parameters can be excluded based on user permissions.

Most fields in the **response** elements are also **optional** to ensure backward compatibility of all API operations. It is possible that a certain API operation is extended with **extra optional fields** in the corresponding response element to provide users with additional information. An API user and the design of an API client should ensure that new optional field or fields in a response element do not break the client, losing the benefit of backward compatibility.

Multiple API operations include an any field, which makes it possible to extend them in the future.

Using the Any Field

Request

An example to query SIM resources with the any field is shown in Example 1.

```
QuerySimResources request = new QuerySimResources() request.getAny().add =>
(new JAXBELEMENT<Integer>(new javax.xml.namespace.QName =>
("http://api.dcp.ericsson.net/SubscriptionManagement", "startNumber"), =>
Integer.class, this.pagingInfo.getStartNumber()));
```

Example 1 Any Field Request

Response

An example to get information in the any field is shown in Example 2.



```
Private List<Object> any;  
...  
String anyValue;  
anyValue = ((Element)this.any.get(0)).getTextContent();
```

Example 2 Any Field Response

Note: If there are major changes to an existing service, a new service is released to ensure backward compatibility.

3.4.3 Authentication

To be able to use the exposed interface, an authentication is required. The API uses the UsernameToken from the Web Services Security (WSS) specification. The authentication is put in the header of each SOAP message and contains a username and a password as shown in Example 3.

```
<soapenv:Header>  
  <wsse:Security xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/⇒  
    oasis-200401-wss-wssecurity-secext-1.0.xsd" wsse:mustUnderstand="1">  
    <wsse:UsernameToken>  
      <wsse:Username>myusername</wsse:Username>  
      <wsse:Password>mypassword</wsse:Password>  
    </wsse:UsernameToken>  
  </wsse:Security>  
</soapenv:Header>
```

Example 3 Authentication

3.4.4 Authorization

Each API user is connected to different roles controlling which services are allowed for use. The roles can also control which parameters are available in the response messages.

3.4.5 Cross-Operator Operations

Currently, only device localization operations can be performed from a single cross-operator API, meaning that the API user does not need to be aware of which operator instance a resource belongs to, but the cross-operator logic is handled on the server side. For other operations (traffic usage, reports, triggers, change state, change subscription package, and so on) the operator instance selection needs to be performed on the client side.

This section provides an example for the operator instance selection on the client side.

In the example, the following URLs and accounts are used to perform the operations, where the <baseURI> parameter is provided by the operator:



Device Localization API (REST)

— URL

`<baseURI>/dcpapi/rest/`

— API user

`user@example.com`

Service Portal API (SOAP)

— URI

`<baseURI>/dcpapi/SubscriptionTraffic?wsdl`

— API user for operator 1

`operator1@example.com`

— API user for operator 2

`operator2@example.com`

It is assumed that the API user has a pre-configured list that defines the operator to SOAP API user mapping in the following format:

`<operator ID>/<operator name>=<SOAP API user>,<password>.`

In this example, the list maps the operator IDs to the API users as follows:

— `11111111=operator1@example.com,password1`

— `22222222=operator2@example.com,password2`

With the known eUICC ID, the API user can use the REST API as user `user@example.com` to get the eUICC information, which contains the details all subscriptions on the eUICC. This subscription information contains also the operator instance to which the subscription belongs, identified with the operator ID. For more information about the Device Localization REST API, see the document [Device Localization API, Reference \[6\]](#).

Example 4 shows a response for the following operation, returning the eUICC details:

GET `<baseURI>/rest/euiccs/12345678901234567890123456789012`



```
{
  "subscriptions": [
    {
      "imsi": "123456789012345",
      "state": "ACTIVE",
      "operatorId": "11111111",
      "operatorName": "Operator1",
      "msisdn": "123456789012345",
      "iccid": "1234567890123456789"
    },
    {
      "imsi": "543210987654321",
      "state": "TERMINATED",
      "operatorId": "22222222",
      "operatorName": "Operator2",
      "msisdn": "543210987654321",
      "iccid": "9876543210987654321"
    }
  ],
  "euiccId": "12345678901234567890123456789012",
  "companyId": "11111112",
  "companyName": "Enterprise1",
  "state": "LOCALIZED",
  "label": "My_Label",
  "localeName": "France",
  "bootstrapIcc": "1234567890123456789",
  "enabledIcc": "1234567890123456789",
  "bootstrapCompanyId": "11111112",
  "localizationTableId": 10000
}
```

Example 4 REST API Response with Operator IDs

The returned operator IDs can be then used to identify the correct API user. In the example, the subscription with IMSI 123456789012345 is active and the corresponding operator ID is 11111111, which is mapped to the operator1@example.com SOAP API user.

Example 5 shows a SOAP API request that can be used to fetch subscription traffic information for this subscription with the previously determined user.

```
<soapenv:Envelope xmlns:soapenv='http://schemas.xmlsoap.org/soap/envelope/' xmlns:sub='http://api.dcp.ericsson.net/SubscriptionTraffic'>
  <soapenv:Header>
    <wsse:Security soapenv:mustUnderstand='1' xmlns:wsse='http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd'>
      <wsu:wsu='http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd'>
        <wsse:UsernameToken>
          <wsse:Username>operator1@example.com</wsse:Username>
          <wsse:Password>*****</wsse:Password>
        </wsse:UsernameToken>
      </wsse:Security>
    </soapenv:Header>
  <soapenv:Body>
    <sub:Query xmlns:sub='http://api.dcp.ericsson.net/SubscriptionTraffic'>
      <resource>
        <id>123456789012345 </id>
        <type>imsi</type>
      </resource>
    </sub:Query>
  </soapenv:Body>
</soapenv:Envelope>
```

Example 5 Query Subscription Traffic in Multi-Operator Setup

The response includes the traffic information that belongs to the subscription on the eUICC.



3.4.6 Usage Control

The API has restrictions regarding simultaneous active requests and the number of initiated requests per time-frame. The restrictions are defined on API level, service level, and user level. When the limits are reached, the request is either delayed or rejected with an error code.

The following restrictions apply to all API services, except **RealtimeTrace**:

- In a 10-second time period, the API processes a maximum of 100 requests sent by the same user. Any additional requests sent during the same period are queued until the next 10-second time-frame.
- One user can have a maximum of eight pending API requests at a time. Until an answer is returned for at least one of them, every additional request sent returns an error message, and is not processed.

The following restrictions apply to the **RealtimeTrace** service:

- One user can have only one pending **RealtimeTrace** request at a time.
- In the whole DCP system, a maximum of 10 **RealtimeTrace** operations can be running at the same time. Any additional **RealtimeTrace** requests are rejected, and an error is returned.

3.4.7 Customer Number

Certain operations contain a field for the customer number, which is an eight-character-long string identifying DCP-onboarded organizations.

On enterprise level, the customer number is optional. That is, leaving out the customer number only works for users who have access to one organization. In this case, the user executes the operation for their own organization.

On operator level, the customer number is mandatory. If the customer number is not provided, an error is returned. Therefore, operator users must execute the operation on behalf of an enterprise by adding the customer number of the enterprise to the request as a mandatory field. Operators can use this feature to help their enterprises manage M2M services.

3.4.8 Error Handling

Any service deviating from its normal operation is reported through SOAP Fault Mechanism as shown in Example 6. An additional variable is added to the SOAP Fault, which contains the error ID. This ID can be used to trace the error in the system.



```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <env:Fault>
      <faultcode xmlns:codeNS="http://api.dcp.ericsson.net/error">codeNS:ServiceError</faultcode>
      <faultstring>Service error</faultstring>
      <detail>
        <cnx:faultid xmlns:cnx="http://api.dcp.ericsson.net">Np65XIUA0a</cnx:faultid>
      </detail>
    </env:Fault>
  </env:Body>
</env:Envelope>
```

Example 6 Error Handling

Generic Error Codes

The generic error codes are shown in Table 3.

Table 3 Generic Error Codes

Fault Code	Description
GenericError	A web service security error occurred, because the username or password is incorrect.
ServiceError	The service could not be executed because of an internal error.
BadParam	One of the request parameters is missing or has an invalid value.
AuthorizationError	Not authorized to use the functionality.
ResourceNotFound	The specified resource could not be found.
TooManyConcurrentRequests	There are currently too many active requests toward the API by this user or all users together.
TooManyRequests	The load toward the API is too high, that is, the user is initiating too many requests per time frame.
RequestIdNotFound	The specified request ID was not found.
ErrSameSubPack	Proposed subscription package cannot be the same as current subscription package.
ErrInvalidSubPack	The specified subscription package is either not active or does not belong to the company.
ErrSourceSubPack	Invalid input range of subscription or subscriptions. Single source subscription package could not be identified.
ErrTargetSubPack	Proposed change to the specified new subscription package is not valid. ⁽¹⁾
DeprecatedMethod	The method has been deprecated.
ErrInvalidTimeUnit	The specified time unit is not valid.
ErrInvalidTriggerNumber	The specified trigger number is not valid.
ErrInvalidPackageName	The specified package name is not valid.
ErrInvalidPackageName	The specified package name is not valid.

(1) The price profile cannot be changed.



4 Procedures

This section describes the procedures and lower-level operations provided by each service that is offered by the portal API.

Note: All attachments of operations have a maximum size limit of 10 MB, unless stated otherwise.

4.1 ApiStatus

This service offers operations to view status of the API in real time.

Note: The WSDL is available at the following URL, where the <baseURI> parameter is provided by the operator:

— <baseURI>/dcpapi/ApiStatus?WSDL

4.1.1 Echo

With this operation, it is possible to verify that the API is operational by sending a message string to the API and verify that it is returned.

Request

The request contains the element shown in Table 4. For an example, see Example 7.

Table 4 Echo Request Element

Element	Description
message	Optional. A string containing a message to be sent back in response.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:apis="http://api.dcp.ericsson.net/ApiStatus">
    <soapenv:Header/>
    <soapenv:Body>
      <apis:Echo>
        <message>hello</message>
      </apis:Echo>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 7 Echo Request

Response

The response contains the element shown in Table 5. For an example, see Example 8.



Table 5 Echo Response Element

Element	Description
message	Optional. The received message.

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns1:echoResponse xmlns:ns1="http://api.dcp.ericsson.net/ApiStatus">
      <message>hello</message>
    </ns1:echoResponse>
  </env:Body>
</env:Envelope>
```

Example 8 Echo Response

Errors

No service-specific error codes are available.

4.2 SubscriptionTraffic

This service returns traffic information for resources on the network. The information consists of ID, location update, PDP, and SMS related data.

Note: SubscriptionTraffic events are counted and listed from 00:00 UTC of the current day, not from the last 24 hours like in the Service Portal.

The WSDL is available at the following URL, where the <baseURI> parameter is provided by the operator:

— <baseURI>/dcpapi/SubscriptionTraffic?WSDL

4.2.1 Query

With this operation, it is possible to retrieve traffic information for subscriptions on the network. A query for 1–100 resources can be made in one request.

Request

The request contains the elements shown in Table 6. For an example, see Example 9.

Table 6 SubscriptionTraffic Query Request Elements

Element	Description
resource	A type and an id element defining the first subscription in the range to query. The type can be imsi, imei, or msisdn.
range	Optional. An integer that defines the number of resources to query. For example, 2 returns the specified resource plus the next in range. Allowed values are from 1 to 100. Only valid if resourceType is imsi or msisdn.



```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:quer="http://api.dcp.ericsson.net/SubscriptionTraffic">
    <soapenv:Header/>
    <soapenv:Body>
      <quer:Query>
        <resource>
          <id>123456789123456</id>
          <type>imsi</type>
        </resource>
        <range>1</range>
      </quer:Query>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 9 SubscriptionTraffic Query Request

Response

The response contains the elements shown in Table 7. For an example, see Example 10.

Note: The optional elements listed in Table 7 are only returned if the response is a success (the value of `returnCode` is 0).

Optional response elements related to events (for example, `lastSmsError`) have a value only if such an event occurred, otherwise, the element is returned empty.

Table 7 SubscriptionTraffic Query Response Elements

Element	Description
<code>returnCode</code>	The status of the session is as follows: <ul style="list-style-type: none"> • 0: OK • 1: Resource not available • 2: Error in service • 3: Internal error • 4: Resource not visible
<code>imsi</code>	Optional. The IMSI according to E.212.
<code>msisdn</code>	Optional. The MSISDN according to E.164.
<code>imei</code>	Optional. 15–16 digit IMEI or IMEISV.
<code>sessionStart</code>	Optional. Timestamp for the start of the 3G or LTE session. A session contains all real-time data and counters for a specific IMSI.
<code>lastActivity</code>	Optional. Timestamp for the last event received for the session. It is updated for all events.
<code>lastLu</code>	Optional. Last Location Update. Further details are shown in Table 8.
<code>gprs</code>	Optional. Further details are shown in Table 9.
<code>smsMo</code>	Optional. Further details are shown in Table 10.
<code>smsMt</code>	Optional. Further details are shown in Table 11.
<code>lastSmsErrorTime</code>	Optional. Timestamp.



Table 7 SubscriptionTraffic Query Response Elements

Element	Description
lastSmsError	Optional. Last error description.
customerNo	A string containing the customer number of the related organization. See Section 3.4.7 on page 11 for more information.

The **Last Location Update** contains the elements shown in Table 8.

Table 8 Last Location Update

Element	Description
status	Optional. The status of the GSM location update is as follows: <ul style="list-style-type: none">• 0: Success• 1: Unknown subscriber• 8: Roaming not allowed• 34: System failure• 36: Unexpected data value
gprsStatus	Optional. The status of the GPRS location update is as follows: <ul style="list-style-type: none">• 0: Success• 1: Unknown subscriber• 8: Roaming not allowed• 34: System failure• 36: Unexpected data value
timestamp	Optional. The time of the last location update.
vlrGt	Optional. The Visitor Location Register (VLR) global title according to E.164.
countryCode	Optional. ISO3166 two-letter Country Code.
operatorCode	Optional. The code of the mobile network.

The **GPRS** contains the elements shown in Table 9.

Table 9 GPRS

Element	Description
pdpActive	Optional. Indicates if the PDP is active. The possible values are: <ul style="list-style-type: none">• true• false
activation	Optional. The timestamp of the PDP activation.
ip	Optional. IPv4 address of the SIM in the mobile network.
apn	Optional. Fully qualified domain name



Table 9 GPRS

Element	Description
tx	Optional. Transmitted bytes in double-precision floating-point format according to the IEEE Standard for Floating-Point Arithmetic. See IEEE 754-2008, Reference [11] for more information. The decimal separator is always a period (.), no thousands separator is used. Valid values include: <ul style="list-style-type: none"> • 123.456 • +1234.456 • -1.2344e56 • -.45E-6 • INF • -INF • NaN
lastTx	Optional. The timestamp of the last transmitted data.
rx	Optional. Received bytes in double-precision floating-point format according to the IEEE Standard for Floating-Point Arithmetic. See IEEE 754-2008, Reference [11] for more information. The decimal separator is always a period (.), no thousands separator is used. Valid values include: <ul style="list-style-type: none"> • 123.456 • +1234.456 • -1.2344e56 • -.45E-6 • INF • -INF • NaN
lastRx	Optional. The timestamp of the last received data.
giDestAddress	Optional. IPv4 address of the SIM on the Internet.

The **SMS MO** contains the elements shown in Table 10.

Table 10 SMS MO

Element	Description
count	Optional. The number of mobile originated SMSes.
lastDest	Optional. The MSISDN the last SMS was sent to.
lastSms	Optional. The time stamp of the last mobile originated SMS.
smsErrorCount	Optional. Error count.

The **SMS MT** contains the elements shown in Table 11.

Table 11 SMS MT

Element	Description
count	Optional. The number of mobile terminated SMSes.



Table 11 SMS MT

Element	Description
lastSms	Optional. The time stamp of the last mobile terminated SMS.
smsErrorCount	Optional. Error count.

```

<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:QueryResponse xmlns:ns2="http://api.dcp.ericsson.net/SubscriptionTraffic">
      <traffic>
        <returnCode>0</returnCode>
        <imsi>123456789123456</imsi>
        <msisdn>1234567891234</msisdn>
        <imei>123456789101112</imei>
        <sessionStart>2013-09-30T06:51:34.000Z</sessionStart>
        <lastLu>
          <status>0</status>
          <gprsStatus>0</gprsStatus>
          <timestamp>2013-09-30T06:51:34.000Z</timestamp>
          <countryCode>SE</countryCode>
          <operatorCode>0000</operatorCode>
          <vlrGt>35385nnnnnnn</vlrGt>
        </lastLu>
        <gprs>
          <pdpActive>true</pdpActive>
          <activation>2013-09-30T06:51:34.000Z</activation>
          <ip>192.168.10.73</ip>
          <giDestAddress>10.11.2.1</giDestAddress>
          <apn>internet.opa.xx</apn>
          <tx>42.0</tx>
          <lastTx>2013-09-30T06:51:34.000Z</lastTx>
          <rx>2.0</rx>
          <lastRx>2013-09-30T06:51:34.000Z</lastRx>
        </gprs>
        <smsMo>
          <count>31</count>
          <lastDest>1234567891234</lastDest>
          <lastSms>2013-09-30T06:51:34.000Z</lastSms>
          <smsErrorCount>2</smsErrorCount>
        </smsMo>
        <smsMt>
          <count>4</count>
          <lastSms>2013-09-30T06:51:34.000Z</lastSms>
          <smsErrorCount>4</smsErrorCount>
        </smsMt>
        <lastActivity>2013-10-08T09:27:12.000Z</lastActivity>
        <lastSmsErrorTime>2013-10-06T08:50:55.000Z</lastSmsErrorTime>
        <lastSmsError>Error message</lastSmsError>
        <customerNo>00000001</customerNo>
      </traffic>
    </ns2:QueryResponse>
  </env:Body>
</env:Envelope>

```

Example 10 SubscriptionTraffic Query Response

Errors

The **SubscriptionTraffic** error codes are shown in Table 12.

Table 12 SubscriptionTraffic Error

Faultcode	Description
ResourceNotAvailable	It is currently not possible to query the specified resource.
ResourceNotVisible	The caller is not authorized to query the specified resource.



4.3 UsageDataDownload

This service makes it possible to download usage data (SMS CDR, GPRS CDR, and TAP records) stored in the Data Warehouse.

Note: The WSDL is available at the following URL, where the <baseURI> parameter is provided by the operator:

— <baseURI>/dcpapi/UsageDataDownload?WSDL

4.3.1 Query

With this operation, it is possible to retrieve a list of usage data files that can be downloaded.

Request

The request contains the elements shown in Table 13. For an example, see Example 11.

Table 13 UsageDataDownload Request Elements

Element	Description
customerno	A string containing the customer number of the related organization. See Section 3.4.7 on page 11 for more information.
startdate	Optional. The earliest date to search for usage data, in the following format: YYYY-MM-DD. Usage data history is available only from the last 60 days.
enddate	Optional. The latest date to search for usage data, in the following format: YYYY-MM-DD.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:usag="http://api.dcp.ericsson.net/UsageDataDownload">
    <soapenv:Header/>
    <soapenv:Body>
      <usag:Query>
        <customerno>00000001</customerno>
        <startdate>2016-11-27</startdate>
        <enddate>2016-11-30</enddate>
      </usag:Query>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 11 UsageDataDownload Request

Response

The response contains the elements shown in Table 14. For an example, see Example 12.

Table 14 UsageDataDownload Response Elements

Element	Description
date	Optional. The date when the file was created.



Table 14 UsageDataDownload Response Elements

Element	Description
size	Optional. The file size in bytes.
path	Optional. The path from where the file can be downloaded. The path is valid for the same host and protocol used to access the API. This URL requires a login using HTTP basic authentication.

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:QueryResponse xmlns:ns2="http://api.dcp.ericsson.net/UsageDataDownload">
      <usageData>
        <date>2016-11-28T22:00:00.000Z</date>
        <size>3404</size>
        <path>/api/usageData?id=1234567800000</path>
      </usageData>
      <usageData>
        <date>2016-11-29T22:00:00.000Z</date>
        <size>2305</size>
        <path>/api/usageData?id=1234560000000</path>
      </usageData>
    </ns2:QueryResponse>
  </env:Body>
</env:Envelope>
```

Example 12 UsageDataDownload Response

Errors

No service-specific error codes are available.

4.4 RealtimeTrace

Note: This service is decommissioned in the 22B2 release.

This service makes it possible to trace traffic for resources in real time.

Note: The WSDL is available at the following URL, where the <baseURI> parameter is provided by the operator:

— <baseURI>/dcpapi/RealtimeTrace?WSDL

4.4.1 Query

With this operation, it is possible to retrieve a list of real-time trace data elements.

Request

The request contains the elements shown in Table 15. For an example, see Example 13 or Example 14.



Table 15 RealtimeTrace Request Elements

Element	Description
traceLength	An integer value for the duration of the trace operation, in seconds. Accepted values are from 1 to 350.
filter	<p>A collection of filter values, determining what trace data is collected during the trace operation.</p> <p>The filter can be of the following types:⁽¹⁾</p> <ul style="list-style-type: none"> resource filter event filter <p>Further details are shown in Table 16 and Table 17.</p>
customerno	A string containing the customer number of the related organization. See Section 3.4.7 on page 11 for more information.

(1) Only one filter type can be used in a trace.

The **Resource filter** contains the elements shown in Table 16. For an example, see Example 13.

Table 16 Resource Filter

Element	Description
resourceId	A string containing the ID of resource to filter on.
resourceType	A string containing the type of resource. The only accepted resource type is the IMSI.
range	Optional. An integer value for filtering on a range of resource IDs, starting at the ID supplied in resourceId. Allowed values are from 1 to 100.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:trac="http://api.dcp.ericsson.net/RealtimeTrace">
    <soapenv:Header/>
    <soapenv:Body>
      <trac:Query>
        <traceLength>3</traceLength>
        <filter>
          <resourceFilter>
            <resourceType>IMSI</resourceType>
            <resourceId>123456789123456</resourceId>
            <range>5</range>
          </resourceFilter>
        </filter>
      </trac:Query>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 13 Resource Filter

The **Event filter** contains the elements shown in Table 17. For examples, see Example 14 and Example 15.

Table 17 Event Filter

Element	Description
countryCode	Optional value for country code. ⁽¹⁾



Table 17 Event Filter

Element	Description
operatorCode	Optional value for operator code.
eventList	List of events. At least one event must be entered. See Table 162 for of all the available events.

(1) countryCode and operatorCode are mutually exclusive.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
xmlns:trac="http://api.dcp.ericsson.net/RealtimeTrace">
  <soapenv:Header/>
  <soapenv:Body>
    <trac:Query>
      <traceLength>3</traceLength>
      <filter>
        <eventFilter>
          <countryCode>SE</countryCode>
        </eventFilter>
      </filter>
    </trac:Query>
  </soapenv:Body>
</soapenv:Envelope>
```

Example 14 Event Filter with CountryCode

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
xmlns:trac="http://api.dcp.ericsson.net/RealtimeTrace">
  <soapenv:Header/>
  <soapenv:Body>
    <trac:Query>
      <traceLength>3</traceLength>
      <filter>
        <eventFilter>
          <eventList>
            <event>m46-5</event>
            <event>m2</event>
          </eventList>
        </eventFilter>
      </filter>
    </trac:Query>
  </soapenv:Body>
</soapenv:Envelope>
```

Example 15 Event Filter with Event Codes

Response

The response contains the elements shown in Table 18. For an example, see Example 16.

Table 18 RealtimeTrace Response Elements

Element	Description
timestamp	Optional. Date or time of event.
imsi	Optional. Resource IMSI number.
originatingMsisdn	Optional. Originating MSISDN.
terminatingMsisdn	Optional. Terminating MSISDN.
event	Optional. It is the same code as in filter, see Table 16 and Table 17.
countryCode	Optional. ISO3166 two-letter country code.



Table 18 RealtimeTrace Response Elements

Element	Description
operatorCode	Optional. The code of the mobile network.
smsReport	Optional. The smsReport has the following possible values: <ul style="list-style-type: none"> • 0: Deliver • 1: Submit-report • 2: Status-report • 4: Deliver-report • 5: Submit • 6: Command
gtpCause	Optional. GPRS Tunneling Protocol (GTP) cause. For further details, see Section 5.1 on page 159.
hlrgt	Optional. The Home Location Register (HLR) global title according to E.164.
vlrgt	Optional. The VLR global title according to E.164.
ggsnip	Optional. Gateway GPRS Support Node (GGSN) IP address.
sgsnip	Optional. Serving GPRS Support Node (SGSN) IP address.
gprsTeid	Optional. Tunnel endpoint ID.
mapStatus	Optional. The mapStatus has the following possible values: <ul style="list-style-type: none"> • 0: Normal • 1: Setup • 3: Timeout • 4: Abort



```

<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:QueryResponse xmlns:ns2="http://api.dcp.ericsson.net/RealtimeTrace">
      <traceData>
        <timeStamp>2014-09-08T11:30:00.000Z</timeStamp>
        <imsi>12345678912345</imsi>
        <originatingMsisdn>1234567891234</originatingMsisdn>
        <terminatingMsisdn>1234567891286</terminatingMsisdn>
        <event>SMS_M0</event>
        <countryCode>NO</countryCode>
        <operatorCode>0000</operatorCode>
        <hlrgt>1234567891221</hlrgt>
        <vlrgt>1234567891251</vlrgt>
        <ggsnip>10.14.15.21</ggsnip>
        <sgsnip>10.14.23.456</sgsnip>
        <gtpCause>2</gtpCause>
        <gprsTeid>1</gprsTeid>
        <smsReport>0</smsReport>
        <mapStatus>128</mapStatus>
      </traceData>
      <traceData>
        <timeStamp>2014-09-08T11:32:16.000Z</timeStamp>
        <imsi>123456789123456</imsi>
        <originatingMsisdn>1234567891234</originatingMsisdn>
        <terminatingMsisdn>1234567891287</terminatingMsisdn>
        <event>LU</event>
        <countryCode>SE</countryCode>
        <operatorCode>0000</operatorCode>
        <hlrgt>123456789123433</hlrgt>
        <vlrgt>123456789123456</vlrgt>
        <ggsnip>10.14.15.21</ggsnip>
        <sgsnip>10.14.23.456</sgsnip>
        <gtpCause>2</gtpCause>
        <gprsTeid>1</gprsTeid>
        <smsReport>0</smsReport>
        <mapStatus>128</mapStatus>
      </traceData>
    </env:Body>
  </env:Envelope>

```

Example 16 RealtimeTrace Response

Errors

No service-specific error codes are available.

4.5 OperatorInfo

This service contains two operations. One for retrieving a list of all countries with corresponding country code and a similar operation for retrieving all available operators.

Note: The WSDL is available at the following URL, where the <baseURI> parameter is provided by the operator:

— <baseURI>/dcpapi/OperatorInfo?WSDL

4.5.1 QueryCountries

With this operation, it is possible to retrieve a list of all available countries with corresponding code.



Request

An example of the QueryCountries request is shown in Example 17.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:oper="http://api.dcp.ericsson.net/OperatorInfo">
    <soapenv:Header/>
    <soapenv:Body>
      <oper:QueryCountries></oper:QueryCountries>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 17 QueryCountries Request

Response

The response contains the elements shown in Table 19. For an example, see Example 18.

Table 19 QueryCountries Response Elements

Element	Description
name	The name of the country.
code	ISO3166 two-letter country code.

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:QueryCountryCodeResponse xmlns:ns2="http://api.dcp.ericsson.net/OperatorInfo">
      <country>
        <name>Sweden</Name>
        <code>SE</code>
      </country>
      <country>
        <name>Norway</Name>
        <code>NO</code>
      </country>
    </ns2:QueryCountryCodeResponse>
  </env:Body>
</env:Envelope>
```

Example 18 QueryCountries Response

Errors

No service-specific error codes are available.

4.5.2 QueryOperators

With this operation, it is possible to retrieve a list of all available operators corresponding operator and country codes.

Request

An example of the **QueryOperators** request is shown in Example 19.



```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  <soapenv:Header/>
  <soapenv:Body>
    <oper:QueryOperators></oper:QueryOperators>
  </soapenv:Body>
</soapenv:Envelope>
```

Example 19 QueryOperators Request

Response

The response contains the elements shown in Table 20. For an example, see Example 20.

Table 20 QueryOperators Response Elements

Element	Description
name	Optional. The name of the operator.
code	Optional. Operator code.
countryCode	Optional. ISO 3166 two-letter country code.
countryName	Optional. Country of the operator.
callingCode	Optional. ITU-T dialing prefix of the country.

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:QueryOperatorCodeResponse xmlns:ns2="http://api.dcp.ericsson.net/OperatorInfo">
      <operator>
        <name>Operator A</name>
        <code>24299</code>
        <countryCode>NO</countryCode>
        <countryName>Norway<\countryName>
        <callingCode>+47<\callingCode>
      </operator>
      <operator>
        <name>Operator B</name>
        <code>24099</code>
        <countryCode>SE</countryCode>
        <countryName>Sweden<\countryName>
        <callingCode>+46<\callingCode>
      </operator>
    </ns2:QueryOperatorCodeResponse>
  </env:Body>
</env:Envelope>
```

Example 20 QueryOperators Response

Errors

No service-specific error codes are available.

4.6 AggregatedTraffic

This service returns various aggregated traffic data.



Note: The WSDL is available at the following URL, where the <baseURI> parameter is provided by the operator:

— <baseURI>/dcpapi/AggregatedTraffic?WSDL

4.6.1 Query

With this operation, it is possible to retrieve traffic aggregated on Total, APN, SMSC Account, CountryCode, Operator, or Opco per current day. The traffic can be filtered to a specific customer.

Note: Since its elements support larger values, use Query_v2 instead of Query.

See the Response section on Page 28 for the values supported by Query elements. See the Response section on Page 31 for the values supported by Query_v2 elements. See Section 4.6.2 on page 30 for more information on Query_v2.

Request

The request contains the elements shown in Table 21. For an example, see Example 21.

Table 21 AggregatedTraffic Query Request Elements

Element	Description
customerNo	A string containing the customer number of the related organization. See Section 3.4.7 on page 11 for more information.
aggregateOn	A parameter that tells how to aggregate the data. Valid values are as follows: <ul style="list-style-type: none"> • APN • SMSCAccount • CountryCode • Opco • Operator • Total

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:view="http://api.dcp.ericsson.net/AggregatedTraffic">
    <soapenv:Header/>
    <soapenv:Body>
      <view:Query>
        <customerNo>00000001</customerNo>
        <aggregateOn>countrycode</aggregateOn>
      </view:Query>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 21 AggregatedTraffic Query Request



Response

The response is a complex type containing sequences of other complex types, their type, and number, depending on the aggregatedOn parameter in the request. The data is returned for different aggregations as shown in Table 22. For an example, see Example 22.

Table 22 AggregatedTraffic Query Response Elements

The aggregatedOn Values in Response	Value in the Request	Description
APN	APN	Only activePDContexts and gprs contain related data.
ShortCode	SMSCAccount	Only smsMo, smsMt, smsAo, and smsAt contain related data.
CountryCode	CountryCode	All elements contain related data.
ImsiOpco	Opco	Aggregation on customer number. All elements contain related data.
VPLMN	Operator	All elements contain related data.
Total	Total	All elements contain related data.

Table 23 AggregatedTraffic Query Response - data Elements

Element	Description
aggregatedOn	See Table 22 for additional details.
numberOfLUs	Optional. Number of location updates. Four-byte integer, its maximum value is $2^{31}-1$.
activePDContexts	Optional. Number of active PDP contexts. Four-byte integer, its maximum value is $2^{31}-1$.
gprs	Optional. See Table 24 for additional details.
smsMo	Optional. See Table 25 for additional details.
smsMt	Optional. See Table 25 for additional details.
smsAo	Optional. See Table 25 for additional details.
smsAt	Optional. See Table 25 for additional details.

Table 24 AggregatedTraffic Query Response - gprs Elements

Element	Description
tx	Optional. Transmitted data (in Bytes). Four-byte integer, its maximum value is $2^{31}-1$.
lastTx	Optional. The timestamp of the last transmitted data.
rx	Optional. Received data (in Bytes). Four-byte integer, its maximum value is $2^{31}-1$.
lastRx	Optional. The timestamp of the last received data.



Table 24 AggregatedTraffic Query Response - gprs Elements

Element	Description
errorCount	Optional. Number of errors. Four-byte integer, its maximum value is $2^{31}-1$.
lastError	Optional. The date and time of the last error.

Table 25 AggregatedTraffic Query Response - SMS Elements

Element	Description
count	Optional. Total number of messages. Four-byte integer, its maximum value is $2^{31}-1$.
lastTimestamp	Optional. The date and time of the last message.
errorCount	Optional. Number of errors. Four-byte integer, its maximum value is $2^{31}-1$.
lastErrorTimestamp	Optional. The date and time of the last error.

```

<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:QueryResponse xmlns:ns2="http://api.dcp.ericsson.net/AggregatedTraffic">
      <aggregatedOn>CountryCode</aggregatedOn>
      <traffic>
        <numberOfLUs>55</numberOfLUs>
        <aggregatedOn>SE</aggregatedOn>
        <activePDPContexts>66</activePDPContexts>
        <gprs>
          <tx>345677</tx>
          <lastTx>2013-09-25Z</lastTx>
          <rx>23234</rx>
          <lastRx>2013-09-25Z</lastRx>
          <errorCount>1</errorCount>
          <lastError>2013-09-25Z</lastError>
        </gprs>
        <smsMo>
          <count>1</count>
          <lastTimestamp>2013-09-08T11:30:00.000Z</lastTimestamp>
          <errorCount>11</errorCount>
          <lastErrorTimestamp>2013-09-08T11:30:00.000Z</lastErrorTimestamp>
        </smsMo>
        <smsMt>
          <count>1</count>
          <lastTimestamp>2013-09-08T11:30:00.000Z</lastTimestamp>
          <errorCount>11</errorCount>
          <lastErrorTimestamp>2013-09-08T11:30:00.000Z</lastErrorTimestamp>
        </smsMt>
        <smsAo>
          <count>1</count>
          <lastTimestamp>2013-09-08T11:30:00.000Z</lastTimestamp>
          <errorCount>11</errorCount>
          <lastErrorTimestamp>2013-09-08T11:30:00.000Z</lastErrorTimestamp>
        </smsAo>
        <smsAt>
          <count>1</count>
          <lastTimestamp>2013-09-08T11:30:00.000Z</lastTimestamp>
          <errorCount>11</errorCount>
          <lastErrorTimestamp>2013-09-08T11:30:00.000Z</lastErrorTimestamp>
        </smsAt>
      </traffic>
    </ns2:QueryResponse>
  </env:Body>
</env:Envelope>

```



```
<lastTx>2013-09-25Z</lastTx>
<rx>2</rx>
<lastRx>2013-09-25Z</lastRx>
<errorCount>1</errorCount>
<lastError>2013-09-25Z</lastError>
</gprs>
<smsMo>
  <count>1</count>
  <lastTimestamp>2013-09-08T11:30:00.000Z</lastTimestamp>
  <errorCount>11</errorCount>
  <lastErrorTimestamp>2013-09-08T11:30:00.000Z</lastErrorTimestamp>
</smsMo>
<smsMt>
  <count>1</count>
  <lastTimestamp>2013-09-08T11:30:00.000Z</lastTimestamp>
  <errorCount>11</errorCount>
  <lastErrorTimestamp>2013-09-08T11:30:00.000Z</lastErrorTimestamp>
</smsMt>
<smsAo>
  <count>1</count>
  <lastTimestamp>2013-09-08T11:30:00.000Z</lastTimestamp>
  <errorCount>11</errorCount>
  <lastErrorTimestamp>2013-09-08T11:30:00.000Z</lastErrorTimestamp>
</smsAo>
<smsAt>
  <count>1</count>
  <lastTimestamp>2013-09-08T11:30:00.000Z</lastTimestamp>
  <errorCount>11</errorCount>
  <lastErrorTimestamp>2013-09-08T11:30:00.000Z</lastErrorTimestamp>
</smsAt>
</traffic>
</ns2:QueryResponse>
</env:Body>
</env:Envelope>
```

Example 22 AggregatedTraffic Query Response

Errors

The **AggregatedTraffic** error codes are shown in Table 26.

Table 26 AggregatedTraffic Error

Faultcode	Description
ResourceNotAvailable	It is currently not possible to query the specified resource or the requested values exceed the four-byte limit.
ResourceNotVisible	The requester is not authorized to query the specified resource.

4.6.2 Query_v2

With this operation, it is possible to retrieve traffic aggregated on Total, APN, SMSCAccount, CountryCode, Operator, or Opco per current day. The traffic can be filtered to a specific customer if the user has the required permissions.

Query_v2 supports larger values than the previous Query operation. See the Response section on Page 28 for the values supported by Query elements. See the Response section on Page 31 for the values supported by Query_v2 elements.



Request

The request contains the elements shown in Table 27. For an example, see Example 23.

Table 27 AggregatedTraffic Query_v2 Request Elements

Element	Description
customerNo	A string containing the customer number of the related organization. See Section 3.4.7 on page 11 for more information.
aggregateOn	A parameter that tells how to aggregate the data. Valid values are as follows: <ul style="list-style-type: none"> • APN • SMSCAccount • CountryCode • Opco • Operator • Total

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:view="http://api.dcp.ericsson.net/AggregatedTraffic">
    <soapenv:Header/>
    <soapenv:Body>
      <view:Query_v2>
        <customerNo>00000001</customerNo>
        <aggregateOn>countrycode</aggregateOn>
      </view:Query_v2>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 23 AggregatedTraffic Query_v2 Request

Response

The response is a complex type containing sequences of other complex types, their type, and number, depending on the aggregatedOn parameter in the request. The data is returned for different aggregations as shown in Table 28. For an example, see Example 24.

Table 28 AggregatedTraffic Query_v2 Response Elements

The aggregatedOn Values in Response	The aggregatedOn Values in Request	Description
APN	APN	Only activePDPContexts and gprs contain related data.
ShortCode	SMSCAccount	Only smsMo, smsMt, smsAo, and smsAt contain related data.
CountryCode	CountryCode	All elements contain related data.
ImsiOpco	Opco	All elements contain related data.
VPLMN	Operator	All elements contain related data.
Total	Total	All elements contain related data.



Table 29 AggregatedTraffic Query_v2 Response - data Elements

Element	Description
aggregatedOn	See Table 28 for additional details.
numberOfLUs	Optional. Number of location updates. Eight-byte integer, its maximum value is $2^{63}-1$.
activePDPContexts	Optional. Total aggregated number of active PDP contexts. Eight-byte integer, its maximum value is $2^{63}-1$.
gprs	Optional. See Table 30 for additional details.
smsMo	Optional. See Table 31 for additional details.
smsMt	Optional. See Table 31 for additional details.
smsAo	Optional. See Table 31 for additional details.
smsAt	Optional. See Table 31 for additional details.

Table 30 AggregatedTraffic Query_v2 Response - gprs Elements

Element	Description
tx	Optional. Transmitted data (in Bytes). Eight-byte integer, its maximum value is $2^{63}-1$.
lastTx	Optional. The timestamp of the last transmitted data.
rx	Optional. Received data (in Bytes). Eight-byte integer, its maximum value is $2^{63}-1$.
lastRx	Optional. The timestamp of the last received data.
errorCount	Optional. Number of errors. Eight-byte integer, its maximum value is $2^{63}-1$.
lastError	Optional. The date and time of last error.

Table 31 AggregatedTraffic Query_v2 Response - SMS Elements

Element	Description
count	Optional. Total number of messages. Eight-byte integer, its maximum value is $2^{63}-1$.
lastTimestamp	Optional. The date and time of last message.
errorCount	Optional. Number of errors. Eight-byte integer, its maximum value is $2^{63}-1$.
lastErrorTimestamp	Optional. The date and time of last error.

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:QueryResponse_v2 xmlns:ns2="http://api.dcp.ericsson.net/AggregatedTraffic">
      <aggregatedOn>CountryCode</aggregatedOn>
      <traffic>
        <numberOfLUs>55</numberOfLUs>
        <aggregatedOn>SE</aggregatedOn>
        <activePDPContexts>66</activePDPContexts>
        <gprs>
```



```

        <tx>345677</tx>
        <lastTx>2013-09-25Z</lastTx>
        <rx>23234</rx>
        <lastRx>2013-09-25Z</lastRx>
        <errorCount>1</errorCount>
        <lastError>2013-09-25Z</lastError>
    </gprs>
    <smsMo>
        <count>1</count>
        <lastTimestamp>2013-09-08T11:30:00.000Z</lastTimestamp>
        <errorCount>11</errorCount>
        <lastErrorTimestamp>2013-09-08T11:30:00.000Z</lastErrorTimestamp>
    </smsMo>
    <smsMt>
        <count>1</count>
        <lastTimestamp>2013-09-08T11:30:00.000Z</lastTimestamp>
        <errorCount>11</errorCount>
        <lastErrorTimestamp>2013-09-08T11:30:00.000Z</lastErrorTimestamp>
    </smsMt>
    <smsAo>
        <count>1</count>
        <lastTimestamp>2013-09-08T11:30:00.000Z</lastTimestamp>
        <errorCount>11</errorCount>
        <lastErrorTimestamp>2013-09-08T11:30:00.000Z</lastErrorTimestamp>
    </smsAo>
    <smsAt>
        <count>1</count>
        <lastTimestamp>2013-09-08T11:30:00.000Z</lastTimestamp>
        <errorCount>11</errorCount>
        <lastErrorTimestamp>2013-09-08T11:30:00.000Z</lastErrorTimestamp>
    </smsAt>
</traffic>
<traffic>
    <numberOfLUs>77</numberOfLUs>
    <dimension>DE</dimension>
    <activePDPContexts>88</activePDPContexts>
    <gprs>
        <tx>3</tx>
        <lastTx>2013-09-25Z</lastTx>
        <rx>2</rx>
        <lastRx>2013-09-25Z</lastRx>
        <errorCount>1</errorCount>
        <lastError>2013-09-25Z</lastError>
    </gprs>
    <smsMo>
        <count>1</count>
        <lastTimestamp>2013-09-08T11:30:00.000Z</lastTimestamp>
        <errorCount>11</errorCount>
        <lastErrorTimestamp>2013-09-08T11:30:00.000Z</lastErrorTimestamp>
    </smsMo>
    <smsMt>
        <count>1</count>
        <lastTimestamp>2013-09-08T11:30:00.000Z</lastTimestamp>
        <errorCount>11</errorCount>
        <lastErrorTimestamp>2013-09-08T11:30:00.000Z</lastErrorTimestamp>
    </smsMt>
    <smsAo>
        <count>1</count>
        <lastTimestamp>2013-09-08T11:30:00.000Z</lastTimestamp>
        <errorCount>11</errorCount>
        <lastErrorTimestamp>2013-09-08T11:30:00.000Z</lastErrorTimestamp>
    </smsAo>
    <smsAt>
        <count>1</count>
        <lastTimestamp>2013-09-08T11:30:00.000Z</lastTimestamp>
        <errorCount>11</errorCount>
        <lastErrorTimestamp>2013-09-08T11:30:00.000Z</lastErrorTimestamp>
    </smsAt>
</traffic>
</ns2:QueryResponse_v2>
</env:Body>
</env:Envelope>

```

Example 24 AggregatedTraffic Query_v2 Response



Errors

The **AggregatedTraffic** error codes are shown in Table 32.

Table 32 AggregatedTraffic Error

Faultcode	Description
ResourceNotAvailable	It is currently not possible to query the specified resource.
ResourceNotVisible	The caller is not authorized to query the specified resource.

4.6.3 QueryTrafficUsageHistory

With this operation, it is possible to retrieve previously aggregated traffic usage information from a specific time period. The traffic can be filtered on a specific sub-customer if the user has the authority.

Request

The request contains the elements shown in Table 33. For an example, see Example 25.

Table 33 QueryTrafficUsageHistory Request Elements

Element	Description
customerNo	A string containing the customer number of the related organization. See Section 3.4.7 on page 11 for more information.
startDate	The earliest date to search for aggregated traffic usage, in the following format: YYYY-MM-DD. Traffic history is available only from the last 366 days.
endDate	The latest date to search for aggregated traffic usage, in the following format: YYYY-MM-DD. The starting and ending dates must define a period of 1, 7, or 30 days . Otherwise, a timeout error is returned.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:agg="http://api.dcp.ericsson.net/AggregatedTraffic">
    <soapenv:Header/>
    <soapenv:Body>
      <agg:QueryTrafficUsageHistory>
        <customerNo>00000001</customerNo>
        <startDate>2016-11-01</startDate>
        <endDate>2016-11-08</endDate>
      </agg:QueryTrafficUsageHistory>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 25 QueryTrafficUsageHistory Request

Response

The response contains the elements shown in Table 34. For an example, see Example 26.



Table 34 QueryTrafficUsageHistory Response Elements

Element	Description
aggregationDate	The date when the data was aggregated.
gprsVolume	The aggregated GPRS traffic volume in Bytes.
smsVolume	The aggregated SMS traffic volume in number of messages.

```

<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:QueryTrafficUsageHistoryResponse xmlns:ns2="http://api.dcp.ericsson.net/AggregatedTraffic">
      <trafficUsage>
        <aggregationDate>2013-11-01Z</aggregationDate>
        <gprsVolume>0</gprsVolume>
        <smsVolume>2</smsVolume>
      </trafficUsage>
    </ns2:QueryTrafficUsageHistoryResponse>
  </env:Body>
</env:Envelope>

```

Example 26 QueryTrafficUsageHistory Response

Errors

No service-specific error codes are available.

4.6.4 QueryAverageTrafficUsageHistory

With this operation, it is possible to retrieve previously aggregated traffic usage information from a specific time period together with the number of active subscriptions on each required date. The traffic can be filtered on a specific sub-customer if the user has the authority.

Request

The request contains the elements shown in Table 35. For an example, see Example 27.

Table 35 QueryAverageTrafficUsageHistory Request Elements

Element	Description
customerNo	A string containing the customer number of the related organization. See Section 3.4.7 on page 11 for more information.
startDate	The earliest date to search for aggregated traffic usage, in the following format: YYYY-MM-DD. Traffic history is available only from the last 366 days.
endDate	The latest date to search for aggregated traffic usage, in the following format: YYYY-MM-DD. The starting and ending dates must define a period of 1, 7, or 30 days . Otherwise, a timeout error is returned.



```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:agg="http://api.dcp.ericsson.net/AggregatedTraffic">
    <soapenv:Header/>
    <soapenv:Body>
      <agg:QueryAverageTrafficUsageHistory>
        <customerNo>00000001</customerNo>
        <startDate>2016-11-01</startDate>
        <endDate>2016-11-08</endDate>
      </agg:QueryAverageTrafficUsageHistory>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 27 QueryAverageTrafficUsageHistory Request

Response

The response contains the elements shown in Table 36. For an example, see Example 28.

Table 36 QueryAverageTrafficUsageHistory Response Elements

Element	Description
aggregationDate	The date on which the data was aggregated.
gprsVolume	The aggregated GPRS traffic volume in Bytes.
smsVolume	The aggregated SMS traffic volume in number of messages.
activeSubscriptionsCount	The number of active subscriptions on the actual aggregation date.

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:QueryAverageTrafficUsageHistoryResponse =>
      xmlns:ns2="http://api.dcp.ericsson.net/AggregatedTraffic">
        <averageTrafficUsage>
          <aggregationDate>2013-11-01</aggregationDate>
          <gprsVolume>0</gprsVolume>
          <smsVolume>2</smsVolume>
          <activeSubscriptionsCount>4</activeSubscriptionsCount>
        </averageTrafficUsage>
      </ns2:QueryAverageTrafficUsageHistoryResponse>
    </env:Body>
  </env:Envelope>
```

Example 28 QueryAverageTrafficUsageHistory Response

Errors

No service-specific error codes are available.

4.6.5 QueryTopSubscriberTrafficUsage

With this operation, it is possible to retrieve the top subscriptions with most traffic usage. The traffic can be filtered on a specific sub-customer if the user has the authority.



Request

The request contains the elements shown in Table 37. For an example, see Example 29.

Table 37 QueryTopSubscriberTrafficUsage Request Elements

Element	Description
customerNo	A string containing the customer number of the related organization. See Section 3.4.7 on page 11 for more information.
trafficType	The traffic type to search for. It can be SMS or GPRS.
resultLimit	The maximum number of results the query returns. ⁽¹⁾
startDate	The earliest date to search for aggregated traffic usage, in the following format: YYYY-MM-DD. Traffic usage data is available only from the last 31 days .
endDate	The latest date to search for aggregated traffic usage, in the following format: YYYY-MM-DD. The starting and ending dates must define a period of 1, 7, or 30 days . Otherwise, a timeout error is returned.

(1) There exists a configurable top limit on the server application, that is, the topmost limit one can request.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:agg="http://api.dcp.ericsson.net/AggregatedTraffic">
    <soapenv:Header/>
    <soapenv:Body>
      <agg:QueryTopSubscriberTrafficUsage>
        <customerNo>00000001</customerNo>
        <trafficType>SMS</trafficType>
        <resultLimit>5</resultLimit>
        <startDate>2013-11-01</startDate>
        <endDate>2013-11-08</endDate>
      </agg:QueryTopSubscriberTrafficUsage>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 29 QueryTopSubscriberTrafficUsage Request

Response

The response contains the elements shown in Table 38. For an example, see Example 30.

Table 38 QueryTopSubscriberTrafficUsage Response Elements

Element	Description
imsi	The IMSI of the subscriber.
msisdn	The MSISDN of the subscriber.
volume	The aggregated traffic volume, for the requested traffic type, of the subscriber. This is calculated either in Bytes (GPRS) or number of messages (SMS).



```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:QueryTopSubscriberTrafficUsageResponse =>
      xmlns:ns2="http://api.dcp.ericsson.net/AggregatedTraffic">
        <subscriberTrafficUsageData>
          <imsi>123456789123456</imsi>
          <msisdn>1234567891234</msisdn>
          <volume>2</volume>
        </subscriberTrafficUsageData>
      </ns2:QueryTopSubscriberTrafficUsageResponse>
    </env:Body>
  </env:Envelope>
```

Example 30 QueryTopSubscriberTrafficUsage Response

Errors

No service-specific error codes are available.

4.6.6 QueryTopCountryTrafficUsage

With this operation, it is possible to retrieve the top countries with most traffic usage. The traffic can be filtered on a specific sub-customer if the user has the authority.

Request

The request contains the elements shown in Table 39. For an example, see Example 31.

Table 39 QueryTopCountryTrafficUsage Request Elements

Element	Description
customerNo	A string containing the customer number of the related organization. See Section 3.4.7 on page 11 for more information.
trafficType	The requested traffic type to search for are SMS and GPRS.
resultLimit	The maximum number of results the query returns. ⁽¹⁾
startDate	YYYY-MM-DD the earliest date to search for aggregated traffic usage. Traffic usage data is available only from the last 366 days.
endDate	YYYY-MM-DD the latest date to search for aggregated traffic usage. The starting and ending dates must define a period of 1, 7, or 30 days . Otherwise, a timeout error is returned.

(1) There exists a configurable top limit on the server application, that is, the topmost limit one can request.



```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:agg="http://api.dcp.ericsson.net/AggregatedTraffic">
    <soapenv:Header/>
    <soapenv:Body>
      <agg:QueryTopCountryTrafficUsage>
        <customerNo>00000001</customerNo>
        <trafficType>SMS</trafficType>
        <resultLimit>10</resultLimit>
        <startDate>2016-11-01</startDate>
        <endDate>2016-11-08</endDate>
      </agg:QueryTopCountryTrafficUsage>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 31 QueryTopCountryTrafficUsage Request

Response

The response contains the elements shown in Table 40. For an example, see Example 32.

Table 40 QueryTopCountryTrafficUsage Response Elements

Element	Description
country	The country name
volume	The aggregated traffic volume of the requested traffic type, generated by the specified customer. This is calculated either in Bytes (GPRS) or number of messages (SMS).

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:QueryTopCountryTrafficUsageResponse =>
      xmlns:ns2="http://api.dcp.ericsson.net/AggregatedTraffic">
        <countryTrafficUsageData>
          <country>Sweden</country>
          <volume>6</volume>
        </countryTrafficUsageData>
      </ns2:QueryTopCountryTrafficUsageResponse>
    </env:Body>
  </env:Envelope>
```

Example 32 QueryTopCountryTrafficUsage Response

Errors

No service-specific error codes are available.

4.7 SubscriptionManagement

This service contains operations for managing subscriptions.

Note: The WSDL is available at the following URL, where the <baseURI> parameter is provided by the operator:

— <baseURI>/dcpapi/SubscriptionManagement?WSDL



4.7.1 QuerySimResource

With this operation, it is possible to retrieve SIM resource information by giving a valid number of IMSI, IMEI, MSISDN, or ICC.

Request

The request contains the element shown in Table 41. For an example, see Example 33.

Table 41 QuerySimResource Request Element

Element	Description
resource	A type and an id element defining the subscription to query. The type can be imsi, imei, msisdn, or icc.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:sim="http://api.dcp.ericsson.net/SubscriptionManagement">
    <soapenv:Header/>
    <soapenv:Body>
      <sim:QuerySimResource>
        <resource>
          <id>1234567891234</id>
          <type>msisdn</type>
        </resource>
      </sim:QuerySimResource>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 33 QuerySimResource Request

Response

The response contains the details of a SIM with the values shown in Table 42. For an example, see Example 34.

Note: If an optional field is null in the DCP database, it is either not returned in the response (in the case of imei and deviceTerminalType) or it is returned as empty (in the case of fields other than imei and deviceTerminalType).

Table 42 QuerySimResource Response Elements

Element	Description
customerLabel	Optional. Customer label.
msisdn	Optional. MSISDN number of the resource.
imsi	Optional. IMSI number of the resource.
icc	Optional. Integrated Circuit Card (ICC). The serial number of the SIM.
pin1	Optional. SIM Personal Identification Number (PIN) code no 1 (original value set when the SIM was produced).
pin2	Optional. SIM PIN code no 2 (original value set when the SIM was produced).



Table 42 QuerySimResource Response Elements

Element	Description
puk1	Optional. SIM PIN Unlock Key (PUK) code no 1 (original value set when the SIM was produced).
puk2	Optional. SIM PUK code no 2 (original value set when the SIM was produced).
imei	Optional. IMEI number of the resource.
assignedImei	Optional. The assigned IMEI number of the resource.
customerNo	A string containing the customer number of the related organization.
site	Optional. The site of the organization to which the SIM belongs.
accessControlClass	Optional. A parameter to control the access attempts. Alphanumeric value, up to four characters.
roamProfileName	Optional. The roaming profile ID (that is, the roaming service area ID).
roamProfileDesc	Optional. Description of the roaming profile.
deviceTerminalType	Optional. Type of device terminal.
simSubscriptionStatus	Optional. Enumeration with the following possible values: <ul style="list-style-type: none"> • Active • Deactivated • Pause • Terminated
simResourceStatus	Optional. Enumeration with the following possible values: <ul style="list-style-type: none"> • Ordered • Received • Being Assembled • Deployed • In Repair • Down • End of Life • Transferred • Delete • In Inventory • On Loan • Disposed • Reserved • Return to Vendor
simSpecification	Optional. The name of the specification that describes a certain type of SIM cards.
simCardDescription	Optional. Description of the SIM card, for example, Standard SIM, Form factor 4FF (nano), Plastic SIM and so on.
priceProfileName	Optional. Name of the price profile.



Table 42 QuerySimResource Response Elements

Element	Description
priceProfileDesc	Optional. Description of the price profile.
productOfferName	Optional. Name of the product offer.
pdpContextProfileName	Optional. Name of PDP context profile.
deliveryDate	Optional. Date of delivery.
firstActivationDate	Optional. Date of the first activation.
tenantId	Optional. It indicates the identifier of the Tenant Configuration associated to the subscription.
userProfileId	Optional. It contains reference to the user profile assigned to the subscription.
gprs	Optional. Indicates if GPRS bearer service is available. The possible values are: <ul style="list-style-type: none">• true• false
lte	Optional. Indicates if LTE bearer service is available. The possible values are: <ul style="list-style-type: none">• true• false
smsMo	Optional. Indicates if SMS MO bearer service is available. The possible values are: <ul style="list-style-type: none">• true• false
smsMt	Optional. Indicates if SMS MT bearer service is available. The possible values are: <ul style="list-style-type: none">• true• false
csd	Optional. Indicates if Circuit Switched Data (CSD) bearer service is available. The possible values are: <ul style="list-style-type: none">• true• false
voice	Optional. Indicates if VOICE bearer service is available. The possible values are: <ul style="list-style-type: none">• true• false
clip	Optional. Indicates if Call Line Identity Presentation (CLIP) bearer service is available. The possible values are: <ul style="list-style-type: none">• true• false
consumerConnectivity	Optional. Indicates if Consumer Connectivity Services version 1 is available. The possible values are: <ul style="list-style-type: none">• true• false



Table 42 QuerySimResource Response Elements

Element	Description
apns	Optional. Zero or more APNs, containing the following values: <ul style="list-style-type: none"> • name • description
installationDate	Optional. Date of installation.
triggerPackage	Optional. Name of the current trigger package.
pbrExitDate	Optional. Date when Test Ready Mode (PBR) exit occurred.
lastSubscriptionDateChange	Optional. Date of last subscription package change.
moveToPermitted	Optional. Indicates if the subscription can be moved into another subscription package. The possible values are: <ul style="list-style-type: none"> • YES • NO
freezeDuration	Optional. Minimum time in the subscription package, specified in months. Values of 0–12 are allowed.
chargeCodeForPPMove	Optional. Indicates if a fee is charged for changing subscription package, if the price plan also changes. The possible values are: <ul style="list-style-type: none"> • true • false
chargeCodeNonPPMove	Optional. Indicates if a fee is charged for changing subscription package, if the price plan does not change. The possible values are: <ul style="list-style-type: none"> • true • false
RegionShortName	Optional. Short name of the region, according to which charges are going to occur.
arp	Optional. Zero or one ARP assigned to the subscription. The arp element contains the following values: <ul style="list-style-type: none"> • tadig • assignmentTime
customerName	Optional. Name of the customer.
subscriptionPackageDescription	Optional. Description of the subscription package.
operatorId	Optional. ID of the operator.



```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:QuerySimResourceResponse xmlns:ns2="http://api.dcp.ericsson.net/SubscriptionManagement">
      <SimResource>
        <customerLabel>Operator A SIM 000</customerLabel>
        <msisdn>1234567891234</msisdn>
        <imsi>123456789123456</imsi>
        <icc>12345678912345678912</icc>
        <pin1>0000</pin1>
        <pin2>1111</pin2>
        <puk1>00000000</puk1>
        <puk2>11111111</puk2>
        <imei>123456789123456</imei>
        <assignedImei>123456789123456</assignedImei>
        <customerNo>00000001</customerNo>
        <site></site>
        <accessControlClass></accessControlClass>
        <roamProfileName>Operator A RP 2</roamProfileName>
        <roamProfileDesc></roamProfileDesc>
        <deviceTerminalType>123456789123</deviceTerminalType>
        <simSubscriptionStatus>Ordered</simSubscriptionStatus>
        <simResourceStatus>Ordered</simResourceStatus>
        <simCardDescription>Operator A SIM Card2_9</simCardDescription>
        <simSpecification>0001</simSpecification>
        <priceProfileName>Operator A Price Profile 2</priceProfileName>
        <priceProfileDesc>Operator A Price Profile 2</priceProfileDesc>
        <productOfferName>Operator A PO 2</productOfferName>
        <pdpContextProfileName></pdpContextProfileName>
        <deliveryDate>2013-12-18T16:54:23.000+01:00</deliveryDate>
        <firstActivationDate>2013-12-18T16:54:23.000+01:00</firstActivationDate>
        <tenantId>2</tenantId>
        <userProfileId>Roaming Profile 02</userProfileId>
        <gprs>true</gprs>
        <lte>true</lte>
        <smsMo>false</smsMo>
        <smsMt>false</smsMt>
        <csd>false</csd>
        <voice>false</voice>
        <clip>true</clip>
        <consumerConnectivity>true</consumerConnectivity>
        <apns>
          <apn>
            <name>internet.opa.xx</name>
            <description>Operator A Internet APN</description>
          </apn>
        </apns>
        <installationDate>2012-05-05T07:04:55Z</installationDate>
        <triggerPackage>Triggers for TEST-OPA-CHILD 1000266</triggerPackage>
        <pbrExitDate>2012-11-24</pbrExitDate>
        <lastSubscriptionDateChange>2012-11-26</lastSubscriptionDateChange>
        <moveToPermitted>YES</moveToPermitted>
        <freezeDuration>3</freezeDuration>
        <chargeCodeForPPMove>true</chargeCodeForPPMove>
        <chargeCodeNonPPMove>true</chargeCodeNonPPMove>
        <RegionShortName>Uusimaa</RegionShortName>
        <arp>
          <tadig>OPA01</tadig>
          <assignmentTime>2014-07-23T04:28:02Z</assignmentTime>
        </arp>
      </SimResource>
    </ns2:QuerySimResourceResponse>
  </env:Body>
</env:Envelope>
```

Example 34 QuerySimResource Response

Errors

No service-specific error codes are available.



4.7.2 QuerySimResources

With this operation, it is possible to retrieve information about one or multiple SIM resources by entering a valid IMSI, MSISDN, IMEI, ICC, or customer label, and optionally, a range.

Request

The request contains the elements shown in Table 43. For examples, see Example 35 and Example 36.

If a result is requested by customer label, `startNumber` and `chunkSize` are mandatory. The parameters are used together in the query to get chunks of results.

To query the first 100 results, the following values must be used:

- `startNumber = 0`
- `chunkSize = 100`

To get the results from 100 through 200, the following values must be used:

- `startNumber = 100`
- `chunkSize = 100`

To get the results from 200 through 250, the following values must be used:

- `startNumber = 200`
- `chunkSize = 50`

Note: The maximum value of `chunkSize` is 100, which means that the operation can return a maximum of 100 SIM resources in one response.

Table 43 QuerySimResources Request Elements

Element	Description
<code>resource</code>	A type and an id element defining a subscription to query. The type can be <code>imsi</code> , <code>msisdn</code> , <code>icc</code> , <code>imei</code> , or <code>customerLabel</code> . ⁽¹⁾
<code>range</code>	Optional. An integer that defines the number of resources to query. For example, 2 returns the specified resource plus the next in range. Values of 1–100 are allowed.
<code>startNumber</code>	The first number in the result set.
<code>chunkSize</code>	The number of SIM resources requested.

(1) Any leading and trailing white spaces in the `customerLabel` string are discarded.



```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:sim="http://api.dcp.ericsson.net/SubscriptionManagement">
    <soapenv:Header/>
    <soapenv:Body>
      <sim:QuerySimResources>
        <resource>
          <id>123456789123456</id>
          <type>imsi</type>
        </resource>
        <range>2</range>
      </sim:QuerySimResources>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 35 QuerySimResources Request with Range

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:sub="http://api.dcp.ericsson.net/SubscriptionManagement">
    <soapenv:Header/>
    <soapenv:Body>
      <sub:QuerySimResources>
        <resource>
          <id>data sim</id>
          <type>customerLabel</type>
        </resource>
        <range></range>
        <startNumber>0</startNumber>
        <chunkSize>100</chunkSize>
      </sub:QuerySimResources>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 36 QuerySimResources Request with chunkSize

Response

The response contains the details of a SIM with the values shown in Table 44. For an example, see Example 37.

Note: If an optional field is null in the DCP database, it is either not returned in the response (in the case of `imsi` and `deviceTerminalType`) or it is returned as empty (in the case of fields other than `imsi` and `deviceTerminalType`).

Table 44 QuerySimResources Response Elements

Element	Description
customerLabel	Optional. Customer label.
msisdn	Optional. MSISDN number of the resource.
imsi	Optional. IMSI number of the resource.
icc	Optional. Integrated Circuit Card (ICC). The serial number of the SIM.
pin1	Optional. SIM Personal Identification Number (PIN) code no 1 (original value set when the SIM was produced).
pin2	Optional. Optional. SIM PIN code no 2 (original value set when the SIM was produced).
puk1	Optional. SIM PIN Unlock Key (PUK) code no 1 (original value set when the SIM was produced).



Table 44 QuerySimResources Response Elements

Element	Description
puk2	Optional. SIM PUK code no 2 (original value set when the SIM was produced).
imei	Optional. IMEI number of the resource.
assignedImei	Optional. The assigned IMEI number of the resource.
customerNo	A string containing the customer number of the related organization.
site	Optional. The site of the organization to which the SIM belongs.
accessControlClass	Optional. A parameter to control the access attempts. Alphanumeric value, up to four characters.
roamProfileName	Optional. The roaming profile ID (that is, the roaming service area ID).
roamProfileDesc	Optional. Description of the roaming profile.
deviceTerminalType	Optional. Type of device terminal.
simSubscriptionStatus	Optional. Enumeration of the simSubscriptionStatus with the following possible values: <ul style="list-style-type: none"> • Active • Deactivated • Pause • Terminated
simResourceStatus	Optional. Enumeration of the simResourceStatus with the following possible values: <ul style="list-style-type: none"> • Ordered • Received • Being Assembled • Deployed • In Repair • Down • End of Life • Transferred • Delete • In Inventory • On Loan • Disposed • Reserved • Return to Vendor
simSpecification	Optional. The name of the specification that describes a certain type of SIM cards.
simCardDescription	Optional. Description of the SIM card, for example, Standard SIM, Form factor 4FF (nano), Plastic SIM and so on.
priceProfileName	Optional. Name of the price profile. ⁽¹⁾
priceProfileDesc	Optional. Description of the price profile. ⁽²⁾



Table 44 QuerySimResources Response Elements

Element	Description
productOfferName	Optional. Name of the product offer.
pdpContextProfileName	Optional. Name of PDP context profile. ⁽³⁾
deliveryDate	Optional. Date of delivery.
firstActivationDate	Optional. Date of the first activation.
RegionShortName	Optional. The short name of the region, according to which charges are going to occur.
arp	Optional. Zero or one ARP assigned to the subscription. The arp element contains the following values: <ul style="list-style-type: none"> tadig assignmentTime
customerName	Optional. Name of the customer.
subscriptionPackageDescription	Optional. Description of the subscription package.
operatorId	Optional. ID of the operator.

(1) Currently not in use. Reserved for future purpose.

(2) Currently not in use. Reserved for future purpose.

(3) Currently not in use. Reserved for future purpose.

```

<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:QuerySimResourcesResponse xmlns:ns2="http://api.dcp.ericsson.net/SubscriptionManagement">
      <simResource>
        <customerLabel>Operator A SIM 000</customerLabel>
        <msisdn>1234567891234</msisdn>
        <imsi>123456789123456</imsi>
        <icc>123456789123</icc>
        <pin1>0000</pin1>
        <pin2>1111</pin2>
        <puk1>00000000</puk1>
        <puk2>11111111</puk2>
        <imei>123456789123</imei>
        <customerNo>00000001</customerNo>
        <site></site>
        <accessControlClass></accessControlClass>
        <roamProfileName>Operator A RP 2</roamProfileName>
        <roamProfileDesc>Operator A Roaming Profile 2</roamProfileDesc>
        <deviceTerminalType>123456789123</deviceTerminalType>
        <simSubscriptionStatus>Ordered</simSubscriptionStatus>
        <simResourceStatus>Ordered</simResourceStatus>
        <simCardDescription>Operator A SIM Card2_9</simCardDescription>
        <productOfferName>Operator A P0 2</productOfferName>
        <deliveryDate>2013-12-18T16:54:23.000+01:00</deliveryDate>
        <firstActivationDate>2013-12-18T16:54:23.000+01:00</firstActivationDate>
      </simResource>
    </ns2:QuerySimResourcesResponse>
  </env:Body>
</env:Envelope>

```

Example 37 QuerySimResources Response

Errors

No service-specific error codes are available.



4.7.3 RequestSubscriptionStatusChange

With this operation, it is possible to request a change on SIM resource subscription status. The request returns a registered `serviceRequestId` meaning that the actual change can occur at a later time. Use the **QuerySubscriptionStatusChange** method to check the status of the request. The possible status transitions are listed in Table 45. On how to use the **RequestSubscriptionStatusChange** operation to perform these transitions, see Table 46.

Table 45 Possible Subscription Status Changes

From	To
Active	Deactivated, Pause, Terminated
Deactivated	Active, Pause, Terminated
Pause	Active, Terminated
Terminated	Active

Request

The request contains the elements shown in Table 46. For an example, see Example 38.

Table 46 RequestSubscriptionStatusChange Request Elements

Element	Description
resource	A type and an id element defining a subscription to query. The type can be <code>imsi</code> , <code>icc</code> or <code>msisdn</code> .
subscriptionStatus	Enumeration of the <code>subscriptionStatus</code> with the following possible values. Even though the element is named <code>subscriptionStatus</code> , its expected values are actions : <ul style="list-style-type: none"> • Activate – Changes the subscription state to Active from Pause or Deactivated. • Deactivate – Changes the subscription state to Deactivated from Active. • Pause – Changes the subscription state to Pause from Active or Deactivated. • Reactivate⁽¹⁾ – Changes the subscription state to Active from Terminated. • Terminate – Changes the subscription state to Terminated from Active, Pause, or Deactivated.
range	Optional. An integer that defines the number of resources to query. For example, 2 returns the specified resource plus the next in range. Values of 1–100 are allowed.

(1) Reactivate is available only with resource type IMSI and a range of 1. Range of 1 means a single subscription. Batch reactivation of multiple subscriptions is not supported in the Service Portal API.



```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:sim="http://api.dcp.ericsson.net/SubscriptionManagement">
    <soapenv:Header/>
    <soapenv:Body>
      <sim:RequestSubscriptionStatusChange>
        <resource>
          <id>1234567891234</id>
          <type>msisdn</type>
        </resource>
        <subscriptionStatus>Activate</subscriptionStatus>
        <range>2</range>
      </sim:RequestSubscriptionStatusChange>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 38 RequestSubscriptionStatusChange Request

Response

The response contains the element shown in Table 47. For an example, see Example 39.

Table 47 RequestSubscriptionStatusChange Response Element

Element	Description
serviceRequestId	Optional. Service Request ID of the request issued. Can be used to query the status of the request.

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:RequestSubscriptionStatusChangeResponse =>
      xmlns:ns2="http://api.dcp.ericsson.net/SubscriptionManagement">
        <serviceRequestId>REQ000000001120</serviceRequestId>
      </ns2:RequestSubscriptionStatusChangeResponse>
    </env:Body>
  </env:Envelope>
```

Example 39 RequestSubscriptionStatusChange Response

Errors

The error codes are shown in Table 48.

Table 48 RequestSubscriptionStatusChange Errors

Faultcode	Description
ERR_REACTIVATION_NOT_ALLOWED	It is not possible to reactivate the given resource.
ERR_CANNOT_CHANGE_TO_GIVEN_SUBSCRIPTION_STATE	It is not possible to change the current subscription state to the given subscription state.
ERR_COMMITMENT_TIME_ON	The request includes subscriptions in commitment time.

4.7.4 QuerySubscriptionStatusChange

With this operation, it is possible to query the status of a requested status change of a SIM subscription.



Request

The request contains the element shown in Table 49. For an example, see Example 40.

Table 49 QuerySubscriptionStatusChange Request Element

Element	Description
serviceRequestId	Service Request ID of the request issued. Can be used to query the status of the request.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
xmlns:sim="http://api.dcp.ericsson.net/SubscriptionManagement">
  <soapenv:Header/>
  <soapenv:Body>
    <sim:QuerySubscriptionStatusChange>
      <serviceRequestId>REQ000000001191</serviceRequestId>
    </sim:QuerySubscriptionStatusChange>
  </soapenv:Body>
</soapenv:Envelope>
```

Example 40 QuerySubscriptionStatusChange Request

Response

The response contains the elements shown in Table 50. For an example, see Example 41.

Table 50 QuerySubscriptionStatusChange Response Elements

Element	Description
serviceRequestId	Optional. Service Request ID of the request issued.
statusRequestResponse	Optional. Enumeration of the possible states of a serviceRequestId, as follows: <ul style="list-style-type: none"> • Completed The request is completed successfully. • In Progress The request is being handled. It includes failed queries that need manual intervention by DCP Networks Operations Center (NOC) to be repaired. • Pending The SIM or eUICC order is waiting for the approval of the operator. • Canceled This state is set manually by DCP NOC when a request is not finished properly and the change is not needed anymore. Also, if the customer cancels an order through fulfillment request, the request will have Canceled state. • Rejected The SIM or eUICC order is rejected during operator approval or the request is rejected due to system misconfiguration.
completedDate	Optional. Date of the status change request completion.



```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:QuerySubscriptionStatusChangeResponse =>
      xmlns:ns2="http://api.dcp.ericsson.net/SubscriptionManagement">
        <serviceRequestId>REQ00000001191</serviceRequestId>
        <statusRequestResponse>Pending</statusRequestResponse>
        <completedDate>2016-11-18Z</completedDate>
      </ns2:QuerySubscriptionStatusChangeResponse>
    </env:Body>
  </env:Envelope>
```

Example 41 QuerySubscriptionStatusChange Response

Errors

No service-specific error codes are available.

4.7.5 QuerySubscriptionsStatusHistory

With this operation, it is possible to retrieve a list of aggregated status volumes for each selected date.

Request

The request contains the elements shown in Table 51. For an example, see Example 42.

Table 51 QuerySubscriptionsStatusHistory Request Elements

Element	Description
customerNo	A string containing the customer number of the related organization. See Section 3.4.7 on page 11 for more information.
startDate	YYYY-MM-DD the earliest date to search for status history. Status history is available only from the last 366 days.
endDate	YYYY-MM-DD the latest date to search for status history. The starting and ending dates must define a period of 1, 7, or 30 days . Otherwise, a timeout error is returned.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:sub="http://api.dcp.ericsson.net/SubscriptionManagement">
    <soapenv:Header/>
    <soapenv:Body>
      <sub:QuerySubscriptionsStatusHistory>
        <customerNo>00000001</customerNo>
        <startDate>2016-02-01</startDate>
        <endDate>2016-02-08</endDate>
      </sub:QuerySubscriptionsStatusHistory>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 42 QuerySubscriptionsStatusHistory Request

Response

The response contains the elements shown in Table 52. For an example, see Example 43.



Table 52 QuerySubscriptionsStatusHistory Response Elements

Element	Description
aggregatedStatus	<p>Optional. Object containing a number of aggregated status volume elements for each selected date, as follows:</p> <ul style="list-style-type: none"> aggregationDate: Date when the aggregated volumes has been aggregated. aggregatedStatusVolume/status: String containing the status. aggregatedStatusVolume/statusVolume: String containing the aggregated volume of the named status.

```

<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:QuerySubscriptionsStatusHistoryResponse =>
      xmlns:ns2="http://api.dcp.ericsson.net/SubscriptionManagement">
        <aggregatedStatus>
          <aggregationDate>2013-09-29</aggregationDate>
          <aggregatedStatusVolume>
            <status>Active</status>
            <statusVolume>1542</statusVolume>
          </aggregatedStatusVolume>
          <aggregatedStatusVolume>
            <status>Deactivated</status>
            <statusVolume>319</statusVolume>
          </aggregatedStatusVolume>
          <aggregatedStatusVolume>
            <status>Ordered</status>
            <statusVolume>2</statusVolume>
          </aggregatedStatusVolume>
        </aggregatedStatus>
        <aggregatedStatus>
          <aggregationDate>2013-09-30</aggregationDate>
          <aggregatedStatusVolume>
            <status>Active</status>
            <statusVolume>1542</statusVolume>
          </aggregatedStatusVolume>
          <aggregatedStatusVolume>
            <status>Pause</status>
            <statusVolume>10</statusVolume>
          </aggregatedStatusVolume>
          <aggregatedStatusVolume>
            <status>Terminated</status>
            <statusVolume>5</statusVolume>
          </aggregatedStatusVolume>
        </aggregatedStatus>
      </ns2:QuerySubscriptionsStatusHistoryResponse>
    </env:Body>
  </env:Envelope>

```

Example 43 QuerySubscriptionsStatusHistory Response

Errors

No service-specific error codes are available.

4.7.6 RequestSubscriptionStatusChangeBatch

With this operation, it is possible to request a change of subscription status using a batch of subscriptions. The batch file can contain up to 10.000 subscriptions and they can belong to different subscription packages. The request returns a registered requestId meaning that the actual change



can occur at a later time. This batch operation can only be successful if the operation is successful for every subscription that compounds the batch. Use the **QuerySubscriptionChangeBatches** and **QuerySubscriptionStatusChangeBatch** operations to check status of the request. The possible status transitions are listed in Table 45. On how to use the **RequestSubscriptionStatusChangeBatch** operation to perform these transitions, see Table 53.

Request

The request contains the elements shown in Table 53. For an example, see Example 44.

Table 53 RequestSubscriptionStatusChangeBatch Request Elements

Element	Description
resourceIdList	The IMSI or MSISDN of each subscription.
resourceType	The type of the ID specified in the <code>resourceIdList</code> element. The possible values are: <ul style="list-style-type: none">• imsi• icc• msisdn
subscriptionStatus	Enumeration of the <code>subscriptionStatus</code> with the following possible values: <ul style="list-style-type: none">• Activate – Changes the subscription state to Active from Pause or Deactivated.• Deactivate – Changes the subscription state to Deactivated from Active.• Pause – Changes the subscription state to Pause from Active or Deactivated.• Reactivate⁽¹⁾ – Changes the subscription state to Active from Terminated.• Terminate – Changes the subscription state to Terminated from Active, Pause, or Deactivated.
customerNo	A string containing the customer number of the related organization. See Section 3.4.7 on page 11 for more information.
batchFile	Optional. The name of the batch file. This information is included in responses to QuerySubscriptionChangeBatches calls.
additionalInfo	Optional. Additional information. This information is included in responses to QuerySubscriptionChangeBatches calls.

(1) Reactivate is available only for resource type IMSI and range as 1.



```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:sub="http://api.dcp.ericsson.net/SubscriptionManagement">
    <soapenv:Header/>
    <soapenv:Body>
      <sub:RequestSubscriptionStatusChangeBatch>
        <resources>
          <resourceIdList>
            <id>240081001000000</id>
            <id>240081001000012</id>
          </resourceIdList>
          <resourceType>imsi</resourceType>
        </resources>
        <subscriptionStatus>Activate</subscriptionStatus>
      </sub:RequestSubscriptionStatusChangeBatch>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 44 RequestSubscriptionStatusChangeBatch Request

Response

The response contains the elements shown in Table 54. For an example, see Example 45.

Table 54 RequestSubscriptionStatusChangeBatch Response Elements

Element	Description
requestId	Optional. Request ID of the request issued.

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:RequestSubscriptionStatusChangeBatchResponse =>
      xmlns:ns2="http://api.dcp.ericsson.net/SubscriptionManagement">
        <requestId>REQ0000000000189</requestId>
      </ns2:RequestSubscriptionStatusChangeBatchResponse>
    </env:Body>
  </env:Envelope>
```

Example 45 RequestSubscriptionStatusChangeBatch Response

Errors

No service-specific error codes are available.

4.7.7 QuerySubscriptionStatusChangeBatch

With this operation, it is possible to query the result of the validation part of a requested change of subscription status on a batch of subscriptions.

Request

The request contains the elements shown in Table 55. For an example, see Example 46.



Table 55 QuerySubscriptionStatusChangeBatch Request Elements

Element	Description
requestId	Request ID of the request issued.
customerNo	A string containing the customer number of the related organization. See Section 3.4.7 on page 11 for more information.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:sub="http://api.dcp.ericsson.net/SubscriptionManagement">
    <soapenv:Header/>
    <soapenv:Body>
      <sub:QuerySubscriptionStatusChangeBatch>
        <requestId>REQ000000110</requestId>
      </sub:QuerySubscriptionStatusChangeBatch>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 46 QuerySubscriptionStatusChangeBatch Request

Response

The response contains the elements shown in Table 56. For an example, see Example 47.

Table 56 QuerySubscriptionStatusChangeBatch Response Elements

Element	Description
requestId	Request ID of the request issued.
requestStatus	Enumeration of the possible states of a batch request as follows: <ul style="list-style-type: none">• New• In progress• Completed
serviceRequestId	Optional. Service Request ID of the request issued.
imsi	Optional. The IMSI to be validated (returned if used in request).
msisdn	Optional. The MSISDN to be validated (returned if used in request).
validationStatus	Optional. The result of the validation process for each SIM.
validationCode	Optional. Validation message for each subscription that failed the validation.
errorCode	Optional. Indicates the validation error if any.

The procedure of how to check the answer is as follows:

1. Check if a serviceRequestId is returned. If yes, skip to the next step. If not, check requestStatus.
 - If the status is Completed, it means that errors prevented the whole operation to be performed. Check validationStatus and errorCode fields to see the reason of failure.



- If the status is not `Completed`, it means that the validation process is not completed yet, that is, it is still running. Try reaching the web service later.
- 2. If a `serviceRequestId` is returned, it means that the batch is validated (totally or partially). Check, the `validationStatus` and `validationCode` fields to get information about all the subscriptions that failed the validation (if any).

Note: To know if the batch is either partially or completely validated, use the operation **QuerySubscriptionChangeBatches** and check the `validationStatus` and `detaiedValidationStatus` fields.

**Failure:**

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:QuerySubscriptionStatusChangeBatchResponse =>
      xmlns:ns2="http://api.dcp.ericsson.net/SubscriptionManagement"
      <requestId>REQ000000110</requestId>
      <requestStatus>Completed</requestStatus>
      <changeBatchEntry>
        <imsi>240081001000000</imsi>
        <msisdn></msisdn>
        <validationStatus>Validated</validationStatus>
        <errorCode>SIM has an error: Same Subscription Status</errorCode>
      </changeBatchEntry>
    </ns2:QuerySubscriptionStatusChangeBatchResponse>
  </env:Body>
</env:Envelope>
```

Success:

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:QuerySubscriptionStatusChangeBatchResponse =>
      xmlns:ns2="http://api.dcp.ericsson.net/SubscriptionManagement"
      <requestStatus>Completed</requestStatus>
      <serviceRequestId>REQ000000099</serviceRequestId>
      <changeBatchEntry>
        <imsi>240081001000000</imsi>
        <msisdn></msisdn>
        <validationStatus>Validated</validationStatus>
        <errorCode></errorCode>
      </changeBatchEntry>
    </ns2:QuerySubscriptionStatusChangeBatchResponse>
  </env:Body>
</env:Envelope>
```

Partial Success:

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:QuerySubscriptionStatusChangeBatchResponse =>
      xmlns:ns2="http://api.dcp.ericsson.net/SubscriptionManagement"
      <requestId>REQ000000000031798</requestId>
      <requestStatus>Completed</requestStatus>
      <serviceRequestId>REQ000000099</serviceRequestId>
      <changeBatchEntry>
        <imsi>240081001000000</imsi>
        <msisdn></msisdn>
        <validationStatus>Validated</validationStatus>
        <errorCode></errorCode>
      </changeBatchEntry>
      <changeBatchEntry>
        <imsi>240081001000000</imsi>
        <msisdn></msisdn>
        <validationStatus>Validated</validationStatus>
        <errorCode></errorCode>
        <validationCode>SIM skipped for processing: Same Subscription Status.</validationCode>
      </changeBatchEntry>
    </ns2:QuerySubscriptionStatusChangeBatchResponse>
  </env:Body>
</env:Envelope>
```

Example 47 QuerySubscriptionStatusChangeBatch Response**Errors**

No service-specific error codes are available.



4.7.8 RequestSubscriptionPackageChange

With this operation, it is possible to request changing the subscription package for an individual SIM resource or for a range of SIMs. The request returns a registered `serviceRequestId` meaning that the actual change can occur at a later time.

Changing the subscription package is not possible in the following cases:

- The subscription is in terminated state.
- The target subscription package belongs to a different service contract than the current one.

(Unless the user has the permission to change the subscription package in this case as well.)

- The target subscription package is the same as the current one.
- The commitment time for the subscription has not elapsed.

(Unless the user has the permission to change the subscription package in this case as well.)

- The freeze time for the subscription has not elapsed.

(Unless the user has the permission to change the subscription package in this case as well.)

- The change subscription package operation is disabled for the target subscription package.

Request

The request contains the elements shown in Table 53. For an example, see Example 44.

Table 57 RequestSubscriptionPackageChange Request Elements

Element	Description
<code>resource</code>	A type and an id element defining a subscription to query. The type can be <code>imsi</code> , <code>icc</code> , or <code>msisdn</code> .
<code>subscriptionPackage</code>	A string containing the target subscription package.
<code>range</code>	Optional. An integer that defines the number of resources to request package change for. For example, 2 request package change for the specified resource plus the next in range. Allowed values are from 1 to 1000.
<code>customerNo</code>	A string containing the customer number of the related organization. See Section 3.4.7 on page 11 for more information.



```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:sub="http://api.dcp.ericsson.net/SubscriptionManagement">
    <soapenv:Header/>
    <soapenv:Body>
      <sub:RequestSubscriptionPackageChange>
        <resource>
          <id>1234567891234</id>
          <type>msisdn</type>
        </resource>
        <range>2</range>
        <subscriptionPackage>C1P5_subtype_0</subscriptionPackage>
        <customerNo>00000001</customerNo>
      </sub:RequestSubscriptionPackageChange>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 48 RequestSubscriptionPackageChange Request

Response

The response contains the elements shown in Table 54. For an example, see Example 45.

Table 58 RequestSubscriptionPackageChange Response Elements

Element	Description
serviceRequestId	Optional. Service Request ID of the request issued.

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:RequestSubscriptionPackageChangeResponse =>
      xmlns:ns2="http://api.dcp.ericsson.net/SubscriptionManagement">
        <serviceRequestId>REQ000000110</serviceRequestId>
      </ns2:RequestSubscriptionPackageChangeResponse>
    </env:Body>
  </env:Envelope>
```

Example 49 RequestSubscriptionPackageChange Response

Errors

No service-specific error codes are available.

4.7.9 RequestSubscriptionPackageChangeBatch

With this operation, it is possible to change the subscription package of a batch of subscriptions. The batch can contain up to 10.000 subscriptions. The operation performs a validation check on the batch. Any subscription failing validation is skipped, and the next subscription is checked. All validation failures are registered. After the validation has finished, the operation returns a registered requestId meaning that the actual change can occur at a later time.

Changing the subscription package is not possible in the following cases:

- The subscription is in terminated state.



- The target subscription package belongs to a different service contract than the current one.

(Unless the user has the permission to change the subscription package in this case as well.)

- The target subscription package is the same as the current one.

- The commitment time for the subscription has not elapsed.

(Unless the user has the permission to change the subscription package in this case as well.)

- The freeze time for the subscription has not elapsed.

(Unless the user has the permission to change the subscription package in this case as well.)

- The change subscription package operation is disabled for the target subscription package.

Request

The request contains the elements shown in Table 59. For an example, see Example 50.

Table 59 RequestSubscriptionPackageChangeBatch Request Elements

Element	Description
resourceIdList	The IMSI or MSISDN of each subscription.
resourceType	The type of the ID specified in the resourceIdList element. The possible values are: <ul style="list-style-type: none"> • imsi • icc • msisdn
subscriptionPackage	A string containing the target subscription package.
customerNo	A string containing the customer number of the related organization. See Section 3.4.7 on page 11 for more information.
batchFile	Optional. The name of the batch file. This information is included in responses to QuerySubscriptionChangeBatches calls.
additionalInfo	Optional. Additional information. This information is included in responses to QuerySubscriptionChangeBatches calls.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:sub="http://api.dcp.ericsson.net/SubscriptionManagement">
    <soapenv:Header/>
    <soapenv:Body>
      <sub:RequestSubscriptionPackageChangeBatch>
        <resources>
          <resourceIdList>
            <!--1 to 10000 repetitions:-->
            <id>123456789123</id>
          </resourceIdList>
          <resourceType>msisdn</resourceType>
        </resources>
        <subscriptionPackage>C1P5_subtype_0</subscriptionPackage>
        <customerNo>00000001</customerNo>
        <batchFile>my_sims.bat</batchFile>
        <additionalInfo>Batch request ordered by John Doe</additionalInfo>
      </sub:RequestSubscriptionPackageChangeBatch>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 50 RequestSubscriptionPackageChangeBatch Request

Response

The response contains the elements shown in Table 60. For an example, see Example 51.

Table 60 RequestSubscriptionPackageChangeBatch Response Elements

Element	Description
requestId	Optional. Request ID of the request issued.

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:RequestSubscriptionPackageChangeBatchResponse xmlns:ns2="http://api.dcp.ericsson.net/SubscriptionManagement">
      <requestId>REQ00000000000000189</requestId>
    </ns2:RequestSubscriptionPackageChangeBatchResponse>
  </env:Body>
</env:Envelope>
```

Example 51 RequestSubscriptionPackageChangeBatch Response

Errors

No service-specific error codes are available.

4.7.10 QuerySubscriptionPackageChangeBatch

With this operation, it is possible to query the validation status of the operation for changing the subscription package of a batch of subscriptions.

Request

The request contains the elements shown in Table 61. For an example, see Example 52.



Table 61 QuerySubscriptionPackageChangeBatch Request Elements

Element	Description
requestId	Request ID of the request issued.
customerNo	A string containing the customer number of the related organization. See Section 3.4.7 on page 11 for more information.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:sub="http://api.dcp.ericsson.net/SubscriptionManagement">
    <soapenv:Header/>
    <soapenv:Body>
      <sub:QuerySubscriptionPackageChangeBatch>
        <requestId>REQ000000110</requestId>
      </sub:QuerySubscriptionPackageChangeBatch>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 52 QuerySubscriptionPackageChangeBatch Request

Response

The response contains the elements shown in Table 62. For an example, see Example 53.

Table 62 QuerySubscriptionPackageChangeBatch Response Elements

Element	Description
requestId	Request ID of the request issued.
requestStatus	Enumeration of the possible states of a batch request as follows: <ul style="list-style-type: none"> • New • In progress • Completed
serviceRequestId	Optional. Service Request ID of the request issued.
imsi	Optional. The IMSI to be validated (returned if used in request).
msisdn	Optional. The MSISDN to be validated (returned if used in request).
validationStatus	Optional. The result of the validation process for each SIM.
validationCode	Optional. Validation message for each subscription that failed the validation.
errorCode	Optional. Indicates the validation error if any.

If the batch operation is successful (totally or partially), a `serviceRequestId` is generated. If the operation is not successful, this field is not present and no service request is raised to perform any operation.

The procedure of how to check the answer is as follows:

1. Check if a `serviceRequestId` is returned. If yes, skip to the next step. If not, check `requestStatus`.



- If the status is `Completed`, it means that errors prevented the whole operation to be performed. Check `validationStatus` and `errorCode` fields to see the reason of failure.
 - If the status is not `Completed`, it means that the validation process is not completed yet, that is, it is still running. Try reaching the web service later.
2. If a `serviceRequestId` is returned, it means that the batch is validated (totally or partially). Check, the `validationStatus` and `validationCode` fields to get information about all the subscriptions that failed the validation (if any).

Note: To know if the batch is either partially or completely validated, use the operation **QuerySubscriptionChangeBatches** and check the `validationStatus` and `detaiedValidationStatus` fields.



```

Failure:
<env:Envelope xmlns:env='http://schemas.xmlsoap.org/soap/envelope/'>
  <env:Header/>
  <env:Body>
    <ns2:QuerySubscriptionPackageChangeBatchResponse =>
      xmlns:ns2='http://api.dcp.ericsson.net/SubscriptionManagement'>
        <requestId>REQ000000110</requestId>
        <requestStatus>Completed</requestStatus>
        <changeBatchEntry>
          <imsi>240081001000000</imsi>
          <msisdn></msisdn>
          <validationStatus>Failed</validationStatus>
          <errorCode>SIM has an error: Could not create Service Request.
            Target subscription package A_SP22 is pending processing under
            another service request REQ00000051859.</errorCode>
        </changeBatchEntry>
      </ns2:QuerySubscriptionPackageChangeBatchResponse>
    </env:Body>
  </env:Envelope>

Success:
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:QuerySubscriptionPackageChangeBatchResponse =>
      xmlns:ns2="http://api.dcp.ericsson.net/SubscriptionManagement">
        <requestId>REQ00000033780</requestId>
        <requestStatus>Completed</requestStatus>
        <serviceRequestId>REQ000000099</serviceRequestId>
        <changeBatchEntry>
          <imsi>240081001000000</imsi>
          <msisdn></msisdn>
          <validationStatus>Validated</validationStatus>
        </changeBatchEntry>
      </ns2:QuerySubscriptionPackageChangeBatchResponse>
    </env:Body>
  </env:Envelope>

Partial Success:
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:QuerySubscriptionPackageChangeBatchResponse =>
      xmlns:ns2="http://api.dcp.ericsson.net/SubscriptionManagement">
        <requestId>REQ00000033780</requestId>
        <requestStatus>Completed</requestStatus>
        <serviceRequestId>REQ00000053536</serviceRequestId>
        <changeBatchEntry>
          <imsi>310123456015437</imsi>
          <msisdn>510123456004002</msisdn>
          <validationStatus>Validated</validationStatus>
          <errorCode></errorCode>
        </changeBatchEntry>
        <changeBatchEntry>
          <imsi>310123456015324</imsi>
          <msisdn>510123456003889</msisdn>
          <validationStatus>Validated</validationStatus>
          <errorCode></errorCode>
          <validationCode>SIM skipped for processing:
            Given Subscription(s) is/are pending processing under
            another service request REQ00000052571</validationCode>
        </changeBatchEntry>
      </ns2:QuerySubscriptionPackageChangeBatchResponse>
    </env:Body>
  </env:Envelope>

```

Example 53 QuerySubscriptionPackageChangeBatch Response

Errors

No service-specific error codes are available.



4.7.11 QuerySubscriptionChangeBatches

With this operation, it is possible to query the status of a submitted batch request. Batch requests up to two weeks old are returned unless they have been cleared with the **RequestSubscriptionChangeBatchClear** method.

Request

The request contains the elements shown in Table 63. For an example, see Example 54.

Table 63 QuerySubscriptionChangeBatches Request Elements

Element	Description
customerNo	A string containing the customer number of the related organization. See Section 3.4.7 on page 11 for more information.
requestType	Optional. Enumeration of the requestType with the following possible values: <ul style="list-style-type: none">• Status• Package

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:sub="http://api.dcp.ericsson.net/SubscriptionManagement">
    <soapenv:Header/>
    <soapenv:Body>
      <sub:QuerySubscriptionChangeBatches>
        <customerNo>00000001</customerNo>
        <requestType>Package</requestType>
      </sub:QuerySubscriptionChangeBatches>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 54 QuerySubscriptionChangeBatches Request

Response

The response contains the elements shown in Table 64. For an example, see Example 55.

Table 64 QuerySubscriptionChangeBatches Response Elements

Element	Description
requestId	Request ID returned when the batch request was submitted.
requestType	The type of the batch request; Status or Package.
requestStatus	Enumeration of the possible states of a batch request as follows: <ul style="list-style-type: none">• New• In progress• Completed
serviceRequestId	Optional. Service Request ID of the request issued.
batchInfo	Possible errors that have perhaps occurred in the batch.



Table 64 QuerySubscriptionChangeBatches Response Elements

Element	Description
batchFile	Optional. The name of the file used in the batch request. This is empty unless the name was provided when the batch request was submitted.
validationStatus	The overall result of the validation process for the SIMs in the batch.
detailedValidationStatus	Specifies if the batch is totally or partially validated. The possible values are: <ul style="list-style-type: none"> Validated Successfully: All the subscriptions listed in the batch are validated. Validated Partially: Part of the subscriptions listed in the batch failed the validation.
submitter	The name of account used when the batch request was submitted.
submitTime	The timestamp showing when the batch request was submitted.
additionalInfo	Optional. Additional information, if provided in the submitted batch request.

If a batch operation is successful (totally or partially), a `serviceRequestId` is generated. If the operation is not successful, this field is not present and no service request is raised to perform any operation.

The procedure of how to check the answer is as follows:

1. Check if a `serviceRequestId` is returned. If not, skip to the next step. If yes, it means that the batch is validated (totally or partially) and a service request is raised. Check `detailedValidationStatus`.
 - If the value is `Validated Successfully`, it means that the whole batch is validated with no errors.
 - If the value is `Validated Partially`, it means that not all the subscriptions passed the validation. In this case, the operation is performed only for all the subscriptions that passed the validation. Check the fields `validationStatus` and `detailedValidationStatus` to get information about the failed subscriptions.
2. If no `serviceRequestId` is returned, check `requestStatus`.
 - If the status is `Completed`, it means that errors prevented the whole operation to be performed. Check `validationStatus` and `errorCode` fields to see the reason of failure.
 - If the status is not `Completed`, it means that the validation process is not completed yet, that is, it is still running. Try reaching the web service later.



```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:QuerySubscriptionChangeBatchesResponse =>
      xmlns:ns2="http://api.dcp.ericsson.net/SubscriptionManagement">
        <PendingBatchRow>
          <requestId>REQ000000097</requestId>
          <requestType>Status</requestType>
          <requestStatus>Completed</requestStatus>
          <serviceRequestId>REQ000000098</serviceRequestId>
          <batchInfo>none</batchInfo>
          <validationStatus>Validated</validationStatus>
          <detailedValidationStatus>Validated Successfully</detailedValidationStatus>
          <batchFile>test.batch</batchFile>
          <submitter>user@company.com</submitter>
          <submitTime>2014-09-11T00:00:00.000Z</submitTime>
          <additionalInfo></additionalInfo>
        </PendingBatchRow>
      </ns2:QuerySubscriptionChangeBatchesResponse>
    </env:Body>
  </env:Envelope>
```

Example 55 QuerySubscriptionChangeBatches Response - Success

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:QuerySubscriptionChangeBatchesResponse =>
      xmlns:ns2="http://api.dcp.ericsson.net/SubscriptionManagement">
        <PendingBatchRow>
          <requestId>REQ000000097</requestId>
          <requestType>Status</requestType>
          <requestStatus>Completed</requestStatus>
          <batchInfo>none</batchInfo>
          <validationStatus>Validated</validationStatus>
          <batchFile>test.batch</batchFile>
          <submitter>user@company.corp</submitter>
          <submitTime>2014-09-11T00:00:00.000Z</submitTime>
          <additionalInfo></additionalInfo>
        </PendingBatchRow>
      </ns2:QuerySubscriptionChangeBatchesResponse>
    </env:Body>
  </env:Envelope>
```

Example 56 QuerySubscriptionChangeBatches Response - Failure

Errors

No service-specific error codes are available.

4.7.12 RequestSubscriptionChangeBatchClear

With this operation, it is possible to clear submitted batch requests so they are no longer returned by the **QuerySubscriptionChangeBatches** method in future queries.

Request

The request contains the elements shown in Table 65. For an example, see Example 57.



Table 65 RequestSubscriptionChangeBatchClear Request Elements

Element	Description
requestId	Request ID of the batch to be cleared.
customerNo	A string containing the customer number of the related organization. See Section 3.4.7 on page 11 for more information.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:sub="http://api.dcp.ericsson.net/SubscriptionManagement">
    <soapenv:Header/>
    <soapenv:Body>
      <sub:RequestSubscriptionChangeBatchClear>
        <requestId>REQ000000061</requestId>
      </sub:RequestSubscriptionChangeBatchClear>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 57 RequestSubscriptionChangeBatchClear Request

Response

The response contains the elements shown in Table 66. For an example, see Example 58.

Table 66 RequestSubscriptionChangeBatchClear Response Elements

Element	Description
requestId	Request ID of the cleared batch.

```
Failure:
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <env:Fault xmlns:env='http://schemas.xmlsoap.org/soap/envelope/'>
      <faultcode xmlns:codeNS="http://api.dcp.ericsson.net/error">codeNS:ResourceNotFound</faultcode>
      <faultstring>Resource not found</faultstring>
      <detail>
        <cnx:faultid xmlns:cnx="http://api.dcp.ericsson.net/error">h1L78RJ3VL</cnx:faultid>
      </detail>
    </env:Fault>
  </env:Body>
</env:Envelope>

Success:
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:RequestSubscriptionChangeBatchClearResponse =>
      xmlns:ns2="http://api.dcp.ericsson.net/SubscriptionManagement">
        <requestId>REQ000000099</requestId>
      </ns2:RequestSubscriptionChangeBatchClearResponse>
    </env:Body>
  </env:Envelope>
```

Example 58 RequestSubscriptionChangeBatchClear Response

Errors

No service-specific error codes are available.



4.7.13 RequestCustomerLabelChange

With this operation, it is possible to request changing a customer label. The request returns a registered serviceRequestId meaning that the actual change can occur at a later time.

Request

The request contains the elements shown in Table 67. For an example, see Example 59.

Table 67 RequestCustomerLabelChange Request Elements

Element	Description
customerLabel	The value to be set as a customer label for the requested resource. ⁽¹⁾⁽²⁾
resource	A type and an id element defining the a subscription to change. The type can be imsi, icc or msisdn.
range	Optional. An integer that defines the number of resources to request label change for. For example, 2 request label change for the specified resource plus the next in range. ⁽³⁾

(1) The '%' symbol is not allowed in the customer label string.

(2) Any leading and trailing white spaces in the customer label string are discarded.

(3) The valid range is between 1 and 100.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:sub="http://api.dcp.ericsson.net/SubscriptionManagement">
    <soapenv:Header/>
    <soapenv:Body>
      <sub:RequestCustomerLabelChange>
        <customerLabel>CustomerLabel</customerLabel>
        <resource>
          <id>123456789123456</id>
          <type>msisdn</type>
        </resource>
        <range>1</range>
      </sub:RequestCustomerLabelChange>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 59 RequestCustomerLabelChange Request

Response

The response contains the elements shown in Table 68. For an example, see Example 60.

Table 68 RequestCustomerLabelChange Response Elements

Element	Description
serviceRequestId	Optional. Service Request ID of the request issued.
requestId	Optional. Request ID of the request issued.



```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:RequestCustomerLabelChangeResponse =>
      xmlns:ns2="http://api.dcp.ericsson.net/SubscriptionManagement">
        <serviceRequestId>REQ000000004741</serviceRequestId>
      </ns2:RequestCustomerLabelChangeResponse>
    </env:Body>
  </env:Envelope>
```

Example 60 RequestCustomerLabelChange Response

Errors

No service-specific error codes are available.

4.7.14 QuerySubscriptionPackages

With this operation, it is possible to retrieve a list of valid subscription packages. It lists only those subscription packages to which subscriptions can be assigned.

Request

An example of the QuerySubscriptionPackages request is shown in Example 61.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:sub="http://api.dcp.ericsson.net/SubscriptionManagement">
    <soapenv:Header/>
    <soapenv:Body>
      <sub:QuerySubscriptionPackages>
      </sub:QuerySubscriptionPackages>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 61 QuerySubscriptionPackages Request

Response

The response contains the elements shown in Table 69. For an example, see Example 62.

Table 69 QuerySubscriptionPackages Response Elements

Element	Description
subscriptionPackages/subscriptionPackageName	Optional. The name of the subscription package.
subscriptionPackages/serviceContract	Optional. The name of the service contract.



```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:QuerySubscriptionPackagesResponse =>
      xmlns:ns2="http://api.dcp.ericsson.net/SubscriptionManagement">
        <subscriptionPackages>
          <subscriptionPackageName>C1P5_subtype_0</subscriptionPackageName>
          <serviceContract>C1P5_OPA_1</serviceContract>
        </subscriptionPackages>
        <subscriptionPackages>
          <subscriptionPackageName>C1P5_subtype_3</subscriptionPackageName>
          <serviceContract>C1P5_OPA_1</serviceContract>
        </subscriptionPackages>
      </ns2:QuerySubscriptionPackagesResponse>
    </env:Body>
  </env:Envelope>
```

Example 62 QuerySubscriptionPackages Response

Errors

No service-specific error codes are available.

4.7.15 QuerySubscriptionPackages_v2

With this operation, it is possible to retrieve a list of valid subscription packages together with trigger package information. It lists only those subscription packages to which subscriptions can be assigned.

Request

The request contains the elements shown in Table 70. An example of QuerySubscriptionPackages_v2 request is shown in Example 63.

Table 70 QuerySubscriptionPackages_v2 Request Elements

Element	Description
customerNo	A string containing the customer number of the related organization. See Section 3.4.7 on page 11 for more information.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:sub="http://api.dcp.ericsson.net/SubscriptionManagement">
    <soapenv:Header/>
    <soapenv:Body>
      <sub:QuerySubscriptionPackagesRequest_v2>
        <customerNo>00000001</customerNo>
      </sub:QuerySubscriptionPackagesRequest_v2>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 63 QuerySubscriptionPackages_v2 Request

Response

The response contains the elements shown in Table 71. For an example, see Example 64.



Table 71 QuerySubscriptionPackages_v2 Response Elements

Element	Description
subscriptionPackages/subscriptionPackageName	Optional. The name of the subscription package.
subscriptionPackages/serviceContract	Optional. The name of the service contract.
subscriptionPackages/subscriptionPackageDescription	Optional. The description of the subscription package.
subscriptionPackages/triggerPackageNo	Optional. The ID of the trigger package.

```

<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:QuerySubscriptionPackagesResponse_v2 xmlns:ns2="http://api.dcp.ericsson.net/SubscriptionManagement">
      <subscriptionPackages>
        <subscriptionPackageName>C1P5_subtype_0</subscriptionPackageName>
        <serviceContract>C1P5_OPA_1</serviceContract>
      </subscriptionPackages>
      <subscriptionPackages>
        <subscriptionPackageName>C1P5_subtype_3</subscriptionPackageName>
        <serviceContract>C1P5__1</serviceContract>
        <triggerPackageNo>1000266</triggerPackageNo>
      </subscriptionPackages>
    </ns2:QuerySubscriptionPackagesResponse_v2>
  </env:Body>
</env:Envelope>

```

Example 64 QuerySubscriptionPackages_v2 Response

Errors

No service-specific error codes are available.

4.7.16 QueryAllContractSubscriptionPackages

With this operation, it is possible to retrieve a list of all subscription packages together with trigger package information. It also lists those subscription packages to which subscriptions cannot be assigned.

Request

The request contains the elements shown in Table 72. An example of the QueryAllContractSubscriptionPackages request is shown in Example 65.

Table 72 QueryAllContractSubscriptionPackages Request Elements

Element	Description
customerNo	A string containing the customer number of the related organization. See Section 3.4.7 on page 11 for more information.



```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:sub="http://api.dcp.ericsson.net/SubscriptionManagement">
    <soapenv:Header/>
    <soapenv:Body>
      <sub:QueryAllContractSubscriptionPackages>
        <customerNo>00000001</customerNo>
      </sub:QueryAllContractSubscriptionPackages>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 65 QueryAllContractSubscriptionPackages Request

Response

The response contains the elements shown in Table 73. For an example, see Example 66.

Table 73 QueryAllContractSubscriptionPackages Response Elements

Element	Description
subscriptionPackages/description	The description of the subscription package.
subscriptionPackages/id	The ID of the subscription package
subscriptionPackages/serviceContractId	The ID of the service contract.
subscriptionPackages/triggerPackageNo	The number of the trigger package.
subscriptionPackages/company	The company related to the subscription package.

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:QueryAllContractSubscriptionPackagesResponse =>
      xmlns:ns2="http://api.dcp.ericsson.net/SubscriptionManagement">
        <subscriptionPackage>
          <description>Enterprise A SP11 Basic</description>
          <id>88000001001_SP_11</id>
          <serviceContractId>T09121002_SC_01</serviceContractId>
          <company>Enterprise A</company>
        </subscriptionPackage>
        <subscriptionPackage>
          <description>Enterprise A SP12 Advanced</description>
          <id>88000001001_SP_12</id>
          <serviceContractId>T09121002_SC_01</serviceContractId>
          <triggerPackageNo>1000348</triggerPackageNo>
          <company>Enterprise A</company>
        </subscriptionPackage>
      </ns2:QueryAllContractSubscriptionPackagesResponse>
    </env:Body>
  </env:Envelope>
```

Example 66 QueryAllContractSubscriptionPackages Response

Errors

No service-specific error codes are available.



4.7.17 QuerySubscriptions

With this operation, it is possible to retrieve a collection of subscriptions that match the given search criteria. If no search criterion is given, all of the customers subscriptions are the targets for the search.

Note: This method will be deprecated in the coming releases.

Request

The request contains the elements shown in Table 74. For an example, see Example 67.

Table 74 QuerySubscriptions Request Elements

Element	Description
customerNo	A string containing the customer number of the related organization. See Section 3.4.7 on page 11 for more information.
subscriptionPackage	A string containing the target subscription package.
range	Optional. An integer that defines the number of resources to query if a resource is specified. For example, 2 returns the specified resource plus the next in range. Values of 1–100 are allowed.
customerLabel	Optional. A string search criteria for subscription customer label.
subscriptionPackageNameList	Optional. A search criteria, containing one or more subscription package names.
lastSubscriptionPackageChange	Optional. A last update value for subscription package change, see Table 75.
lastLocationUpdate	Optional. A last update value for location update, see Table 75.
lastPDPContext	Optional. A last update value for PDP context, see Table 75.
lastNetworkActivity	Optional. A last update value for network activity, see Table 75.
lastData	Optional. A last update value for data transfer, see Table 75.
lastSMS	Optional. A last update value for SMS, see Table 75.
lastCountry	Optional. A last update value for country, see Table 75.
lastOperator	Optional. A last update value for operator, see Table 75.
maxResults	The maximum number of subscriptions to return. The allowed values are 1–2000.

Last Update Values contain the elements shown in Table 75.

Table 75 Last Update Value

Element	Description
lastDate	Optional. Date time value for last activity in the following format: YYYY-MM-DD.
filter	A string enumeration value with the following possible values: <ul style="list-style-type: none"> Before: last activity must be before the specified date/time. After: last activity must be after the specified date/time. None: No activity must have occurred.



```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:sub="http://api.dcp.ericsson.net/SubscriptionManagement">
    <soapenv:Header/>
    <soapenv:Body>
      <sub:QuerySubscriptionsRequest>
        <customerNo>000123</customerNo>
        <lastSubscriptionPackageChange>
          <lastDate>2014-09-11</lastDate>
          <filter>After</filter>
        </lastSubscriptionPackageChange>
        <maxResults>200</maxResults>
      </sub:QuerySubscriptionsRequest>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 67 QuerySubscriptions Request

Response

The response contains the elements shown in Table 76. For an example, see Example 68.

Table 76 QuerySubscriptions Response Elements

Element	Description
imsi	The IMSI of the subscription.
msisdn	The MSISDN of the subscription.
customerLabel	The customer label assigned to the subscription.
subscriptionPackageName	The subscription package assigned to the subscription.
lastOperator	Optional. The last mobile network the subscription was registered on.
lastCountry	Optional. The last country the subscription was registered in.
lastLocationUpdate	Optional. The last time the location of the subscription was updated.
lastPDPContext	Optional. The last date of PDP context activation.
lastNetworkActivity	Optional. The last date of network activity from the subscription.
lastData	Optional. The last date when the subscription generated data traffic.
lastSMS	Optional. The last date when the subscription sent or received an SMS.



```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:QuerySubscriptionsResponse =>
      xmlns:ns2="http://api.dcp.ericsson.net/SubscriptionManagement">
        <subscriptions>
          <subscription>
            <imsi>123456789123456</imsi>
            <msisdn>1234567891234</msisdn>
            <customerLabel>sms_sim</customerLabel>
            <subscriptionPackageName>SP_11_Advanced</subscriptionPackageName>
            <lastOperator>lastOperator</lastOperator>
            <lastCountry>lastCountry</lastCountry>
          </subscription>
          <subscription>
            <imsi>123456789123456</imsi>
            <msisdn>1234567891</msisdn>
            <customerLabel>customerLabel2</customerLabel>
            <subscriptionPackageName>subscriptionPackage2</subscriptionPackageName>
            <lastOperator>lastOperator2</lastOperator>
            <lastCountry>lastCountry2</lastCountry>
          </subscription>
        </subscriptions>
      </ns2:QuerySubscriptionsResponse>
    </env:Body>
  </env:Envelope>
```

Example 68 QuerySubscriptions Response

Errors

The **QuerySubscriptions** error codes are shown in Table 77 .

Table 77 QuerySubscriptions Error

Faultcode	Description
ErrMaxSearchResultExceeded	The search returned more subscriptions than what was specified in the maxResults parameter.

4.7.18 QueryServiceRequestDetails

Note: This method has been deprecated. The **QuerySubscriptionStatusChangeBatch**, **QuerySubscriptionPackageChangeBatch**, and **QuerySubscriptionChangeBatches** methods are used instead.

4.7.19 QueryAvailableRegions

With this operation, it is possible to retrieve the available regions for a single subscription.

Request

The request contains the elements shown in Table 78. For an example, see Example 69.



Table 78 QueryAvailableRegions Request Elements

Element	Description
resource	A type and an id element defining the subscription to query. The type can be only imsi.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:sub="http://api.dcp.ericsson.net/SubscriptionManagement">
    <soapenv:Header/>
    <soapenv:Body>
      <sub:QueryAvailableRegions>
        <resource>
          <id>240081020000014</id>
          <type>imsi</type>
        </resource>
      </sub:QueryAvailableRegions>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 69 QueryAvailableRegions Request

Response

The response contains the elements as shown in Table 79. For an example, see Example 70.

Table 79 QueryAvailableRegions Response Elements

Element	Description
regionShortNameList	Optional. It includes a list of available region short names.

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:QueryAvailableRegionsResponse =>
      xmlns:ns2="http://api.dcp.ericsson.net/SubscriptionManagement">
        <regionShortNameList>
          <regionShortName>denmark</regionShortName>
          <regionShortName>sweden</regionShortName>
        </regionShortNameList>
      </ns2:QueryAvailableRegionsResponse>
    </env:Body>
  </env:Envelope>
```

Example 70 QueryAvailableRegions Response

Error

No service-specific error codes are available.

4.7.20 ChangeSubscriptionRegion

With this operation, it is possible to change the region for a single subscription.

Request

The request contains the elements shown in Table 80. For an example, see Example 71.



Table 80 ChangeSubscriptionRegion Request Elements

Element	Description
customerNo	A string containing the customer number of the related organization. See Section 3.4.7 on page 11 for more information.
resource	A type and an id element defining the subscription to change. The type can be only imsi.
newRegion	The value to be set as Region for the requested resource.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:sub="http://api.dcp.ericsson.net/SubscriptionManagement">
    <soapenv:Header/>
    <soapenv:Body>
      <sub:ChangeSubscriptionRegion>
        <customerNo>99000010</customerNo>
        <resource>
          <id>240081020000014</id>
          <type>imsi</type>
        </resource>
        <newRegion>denmark</newRegion>
      </sub:ChangeSubscriptionRegion>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 71 ChangeSubscriptionRegion Request

Response

The response contains the elements shown in Table 81. For an example, see Example 72.

Table 81 ChangeSubscriptionRegion Response Elements

Element	Description
serviceRequestId	Optional. Service Request ID of the request issued.
requestId	Optional. Request ID of the request issued.

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:ChangeSubscriptionRegionResponse =>
      xmlns:ns2="http://api.dcp.ericsson.net/SubscriptionManagement">
        <serviceRequestId>REQ000000098</serviceRequestId>
        <requestId>REQ000000097</requestId>
      </ns2:ChangeSubscriptionRegionResponse>
    </env:Body>
  </env:Envelope>
```

Example 72 ChangeSubscriptionRegion Response

Error

No service-specific error codes are available.



4.7.21 ChangeAlternativeRoamingProvider

With this operation, it is possible to change Alternative Roaming Provider (ARP) details for a single subscription. The request returns a registered `serviceRequestId`, indicating that the actual change can occur at a later time.

To comply with Regulation (EU) 2015/2120 of the European Parliament and of the Council (EU Roaming Regulation III), DCP Service Portal allows enterprises to purchase roaming services from an Alternative Roaming Provider (ARP) within the European Union. Click the following link to see the legal text of the regulation on the official web site of the European Union:

[Regulation \(EU\) 2015/2120 of the European Parliament and of the Council \(EU Roaming Regulation III\)](#)

Request

The request contains the elements shown in Table 82. For an example, see Example 73.

Table 82 ChangeAlternativeRoamingProvider Request Elements

Element	Description
<code>resource</code>	A <code>type</code> and an <code>id</code> element defining a subscription to change. The type can be <code>imsi</code> or <code>msisdn</code> .
<code>tadig</code>	Optional. The code of the ARP to be assigned to the requested resource. The use of TADIG codes is recommended. ⁽¹⁾⁽²⁾⁽³⁾

(1) Use alphanumeric characters only in the `tadig` field. Make sure that a valid ARP code is entered. As long as they meet the format requirements, DCP accepts ARP codes without checking their validity.

(2) Any leading and trailing white spaces in the `tadig` string are discarded.

(3) Leave the `tadig` field empty, or enter a null value to remove the ARP assigned to the subscription.



Assigning an ARP to a subscription:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
xmlns:sub="http://api.dcp.ericsson.net/SubscriptionManagement">
  <soapenv:Header/>
  <soapenv:Body>
    <sub:ChangeAlternativeRoamingProvider>
      <resource>
        <id>240084604569763</id>
        <type>imsi</type>
      </resource>
      <tadig>OPA01</tadig>
    </sub:ChangeAlternativeRoamingProvider>
  </soapenv:Body>
</soapenv:Envelope>
```

Or removing an ARP assigned to the subscription:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
xmlns:sub="http://api.dcp.ericsson.net/SubscriptionManagement">
  <soapenv:Header/>
  <soapenv:Body>
    <sub:ChangeAlternativeRoamingProvider>
      <resource>
        <id>240084604569763</id>
        <type>imsi</type>
      </resource>
      <tadig></tadig>
    </sub:ChangeAlternativeRoamingProvider>
  </soapenv:Body>
</soapenv:Envelope>
```

Example 73 ChangeAlternativeRoamingProvider Request

Response

The response contains the elements shown in Table 83. For an example, see Example 74.

Table 83 ChangeAlternativeRoamingProvider Response Elements

Element	Description
serviceRequestId	Service Request ID of the request issued.

Assigning an ARP to a subscription:

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:ChangeAlternativeRoamingProviderResponse =>
      xmlns:ns2="http://api.dcp.ericsson.net/SubscriptionManagement">
        <serviceRequestId>REQ000000047001</serviceRequestId>
      </ns2:ChangeSubscriptionRegionResponse>
    </env:Body>
  </env:Envelope>
```

Or removing an ARP assigned to the subscription:

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:ChangeAlternativeRoamingProviderResponse =>
      xmlns:ns2="http://api.dcp.ericsson.net/SubscriptionManagement">
        <serviceRequestId>REQ000000047002</serviceRequestId>
      </ns2:ChangeSubscriptionRegionResponse>
    </env:Body>
  </env:Envelope>
```

Example 74 ChangeAlternativeRoamingProvider Response



Error

The error codes are shown in Table 84.

Table 84 ChangeAlternativeRoamingProvider Request Errors

Element	Description
ErrChangeArpNotAllowed	The subscription does not belong to EU region.
ErrActionNotAllowed	This error message can be returned because of the following reasons: <ul style="list-style-type: none">• The ARP cannot be changed for a terminated subscription.• The request for removing the ARP cannot be executed. There is no ARP code assigned to the subscription.• The selected ARP code is already assigned to a subscription.
ProcessingAnotherRequest	The IMSI/MSISDN has an open Change ARP service request.

4.8 ReportDownload

This service makes it possible to download available reports.

Note: The WSDL is available at the following URL, where the <baseURI> parameter is provided by the operator:

— <baseURI>/dcpapi/ReportDownload?WSDL

4.8.1 Query

With this operation, it is possible to retrieve a list of report data files that can be downloaded.

For more information about the Detailed Billing Report, see the following document:

— DCP Detailed Billing Report Description, Reference [5]

Request

The request contains the elements shown in Table 85. For an example, see Example 75. If no `fromdate` and `todate` values are defined, all reports of the specified type are returned, see Example 77.

Table 85 ReportDownload Query Request Elements

Element	Description
customerno	A string containing the customer number of the related organization. See Section 3.4.7 on page 11 for more information.
reporttype	The type of reports to retrieve. If specified, only reports of that type are returned. If not specified, then reports for all types are returned. The available types are shown in Table 86.



Table 85 ReportDownload Query Request Elements

Element	Description
fromdate	The earliest date from which reports are requested.
todate	The latest date from which reports are requested.

The available report types are shown in Table 86.

Table 86 Report Type

Type	Description
CBAETRPT	Aggregated Detailed Billing Report
CBDETRPT	Detailed Billing Report
CBPPCRPT	Price Profile Category Report
CERRRPT	Error Report
CTRATRPT	RAT Traffic Report
CTRFRT	Traffic Report
OI01	All Incidents
OI05	Open Incidents
OI04	Resolved Incidents
SIMACTDET	SIM Action Details Report
SIMSTADET	SIM State Details Report
SIMSTAT	SIM Statistics Report

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:rep="http://api.dcp.ericsson.net/reportdownload">
    <soapenv:Header/>
    <soapenv:Body>
      <rep:Query>
        <reporttype>CBDETRPT</reporttype>
        <fromdate>2014-04-02</fromdate>
        <todate>2014-04-18</todate>
      </rep:Query>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 75 ReportDownload Query Request

Response

The response contains the elements as shown in Table 87. For examples, see Example 76 and Example 77.

Table 87 ReportDownload Query Response Elements

Element	Description
url	The path from where the file can be downloaded. The path is valid for the same host and protocol used to access the API. This URL requires a login using HTTP basic authentication.
reportDate	The date when the file was produced.



Table 87 ReportDownload Query Response Elements

Element	Description
size	The size of the file in bytes.
reportType	The type of the report. The available types are shown in Table 86.
reportPeriod	Optional. Intended time period for the report.

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:QueryResponse xmlns:ns2="http://api.dcp.ericsson.net/reportdownload">
      <report>
        <url>/api/reportdata?id=1234476899934:Std</url>
        <reportDate>2014-04-11T00:00:00.000Z</reportDate>
        <size>12452</size>
        <reportType>CBDETRPT</reportType>
        <reportPeriod>2014-04</reportPeriod>
      </report>
    </ns2:QueryResponse>
  </env:Body>
</env:Envelope>
```

Example 76 ReportDownload Query Response with Dates

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:QueryResponse xmlns:ns2="http://api.dcp.ericsson.net/reportdownload">
      <report>
        <url>/api/reportdata?id=1234567891234:CERRRPT</url>
        <reportDate>2013-11-13T23:00:00.000Z</reportDate>
        <size>12288</size>
        <reportType>CERRRPT</reportType>
        <reportPeriod>2013-10</reportPeriod>
      </report>
    </ns2:QueryResponse>
  </env:Body>
</env:Envelope>
```

Example 77 ReportDownload Query Response without Dates

Errors

No service-specific error codes are available.

4.8.2 QueryInvoices

With this operation, it is possible to retrieve a list of invoice data files that can be downloaded.

Request

The request contains the elements shown in Table 88. For an example, see Example 78.



Table 88 QueryInvoices Request Elements

Element	Description
customerNo	A string containing the customer number of the related organization. If the customer number of a parent organization is used, all invoices belonging to the parent organization and the related child organizations are returned. Leaving it out means that the user executes the operation for their own organization, see Section 3.4.7 on page 11.
invoiceType	Optional. The type of invoices to get information about. If specified, then only invoices of that type are returned. If not specified, then invoices for all types are returned. The available types are shown in Table 89.
fromDate	The start date of the period from which invoices will be downloaded. ⁽¹⁾
toDate	The end date of the period from which invoices will be downloaded.

(1) If no fromDate and toDate values are defined, all invoices of the specified type are returned.

The available invoice types are shown in Table 89.

Table 89 Invoice Type

Type	Description
INVOICE	Invoices in PDF
INV_DET	Detailed Invoice Report

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:rep="http://api.dcp.ericsson.net/reportdownload">
    <soapenv:Header/>
    <soapenv:Body>
      <rep:QueryInvoices>
        <invoiceType>INVOICE</invoiceType>
        <fromDate>2016-02-01</fromDate>
        <toDate>2016-02-24</toDate>
      </rep:QueryInvoices>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 78 QueryInvoices Request

Response

The response contains the elements as shown in Table 90. For an example, see Example 79.

Table 90 QueryInvoices Response Elements

Element	Description
url	The path from where the file can be downloaded. The path is valid for the same host and protocol used to access the API. This URL requires a login using HTTP basic authentication.
invoiceName	The filename of the invoice.
invoiceDate	The date when the file was produced.
size	The size of the file in bytes.



Table 90 QueryInvoices Response Elements

Element	Description
invoiceType	The type of invoice. The available types are shown in Table 89.
invoicePeriod	The type of the invoice.

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:QueryInvoicesResponse xmlns:ns2="http://api.dcp.ericsson.net/reportdownload">
      <InvoiceData>
        <url>/iapi/invoicedata?id=1328097360000:INVOICE</url>
        <invoiceName>2012-02-01-11-56-00C99000010TINVOICE.pdf</invoiceName>
        <invoiceDate>2012-02-01T11:56:00.000Z</invoiceDate>
        <size>184241</size>
        <invoiceType>INVOICE</invoiceType>
      </InvoiceData>
      <InvoiceData>
        <url>/iapi/invoicedata?id=1328054400000:INVOICE</url>
        <invoiceName>2012-02-01-00-00-00C99000010TINVOICE.pdf</invoiceName>
        <invoiceDate>2012-02-01T00:00:00.000Z</invoiceDate>
        <size>184241</size>
        <invoiceType>INV_DET</invoiceType>
      </InvoiceData>
      <InvoiceData>
        <url>/iapi/invoicedata?id=1329955200000:INVOICE</url>
        <invoiceName>2012-02-23-00-00-00C99000010TINVOICE.pdf</invoiceName>
        <invoiceDate>2012-02-23T00:00:00.000Z</invoiceDate>
        <size>184241</size>
        <invoiceType>INVOICE</invoiceType>
      </InvoiceData>
    </ns2:QueryInvoicesResponse>
  </env:Body>
</env:Envelope>
```

Example 79 QueryInvoices Response

Errors

No service-specific error codes are available.

4.8.3 DeleteInvoices

With this operation, it is possible to delete an invoice file using its invoiceName.

Request

The request contains the elements shown in Table 91. For an example, see Example 80.

Table 91 DeleteInvoices Request Elements

Element	Description
customerNo	A string containing the customer number of the related organization. See Section 3.4.7 on page 11 for more information.
invoiceName	Mandatory. The name of the invoice file on the server.



```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:rep="http://api.dcp.ericsson.net/reportdownload">
    <soapenv:Header/>
    <soapenv:Body>
      <rep>DeleteInvoices>
        <invoiceName>2012-02-23-11-56-00C99000010TINVOICE.pdf</invoiceName>
      </rep>DeleteInvoices>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 80 DeleteInvoices All Reports Request

Response

The response contains the elements shown in Table 92. For an example, see Example 81.

Table 92 DeleteInvoices Response Elements

Element	Description
invoicesStatus	The status of the delete operation on a file. It can be Success or Failure .

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2>DeleteInvoicesResponse xmlns:ns2="http://api.dcp.ericsson.net/reportdownload">
      <invoicesStatus>Success</invoicesStatus>
    </ns2>DeleteInvoicesResponse>
  </env:Body>
</env:Envelope>
```

Example 81 DeleteInvoices Response

Errors

No service-specific error codes are available.

4.9 IncidentManagement

This service makes it possible to log incidents and retrieve information about logged incidents. They can be logged as summary information about a range of incidents or detailed information about a single incident.

For a description of incident-related email notifications and the corresponding examples, see the document Email Notifications, Reference [7].

Note: The WSDL is available at the following URL, where the <baseURI> parameter is provided by the operator:

— <baseURI>/dcpapi/IncidentManagement?WSDL

4.9.1 Summary

With this operation, it is possible to retrieve incidents matching specified conditions.



Request

The request contains the elements shown in Table 93. For examples, see Example 82 and Example 83.

Table 93 IncidentManagement Summary Request Elements

Element	Description
startDate	Optional. The earliest date to search for submitted incidents, specified in the following format: YYYY-MM-DD.
endDate	Optional. The latest date to search for submitted incidents, specified in the following format: YYYY-MM-DD. The starting and ending dates must define a period of 1, 7, or 30 days . Otherwise, a timeout error is returned.
requestID	Optional. A specific request ID to search for.
incidentID	Optional. A specific incident ID to search for.
customerNo	A string containing the customer number of the related organization. See Section 3.4.7 on page 11 for more information.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:inc="http://api.dcp.ericsson.net/IncidentManagement">
    <soapenv:Header/>
    <soapenv:Body>
      <inc:SummaryQuery>
        <requestID>REQ000000001387</requestID>
      </inc:SummaryQuery>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 82 IncidentManagement Summary Request with RequestID

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:inc="http://api.dcp.ericsson.net/IncidentManagement">
    <soapenv:Header/>
    <soapenv:Body>
      <inc:SummaryQuery>
        <startDate>2014-01-01</startDate>
        <endDate>2014-01-31</endDate>
        <customerNo>00000001</customerNo>
      </inc:SummaryQuery>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 83 IncidentManagement Summary Request with Date Start and End Date

Response

The response contains the elements shown in Table 94. For an example, see Example 84.

Table 94 IncidentManagement Summary Response Elements

Element	Description
serviceRequestID	The Service Request ID of the issued request.
incidentID	Optional. Incident ID.
summary	Optional. The title of the request.



Table 94 IncidentManagement Summary Response Elements

Element	Description
status	Optional. The status of the incident with the following possible values: <ul style="list-style-type: none"> • New • Assigned • In progress • Planning • Pending • Resolved • Closed • Cancelled
statusReason	Optional. Additional information about the status, specifically for Pending status.
submitDate	Optional. The date and time when the incident was submitted.
company	Optional. The name of the company for which the incident was submitted.
site	Optional. The name of the company site.
region	Optional. Region.
siteGroup	Optional. Site Group.
requesterFirstName	Optional. First name of the person who submitted the incident.
requesterLastName	Optional. Last name of the person who submitted the incident.
assignedGroup	Optional. The group that has been assigned to the incident.
assignee	Optional. The person assigned to the incident.
targetFixTime	Optional. The date when the incident is estimated to be resolved.
resolvedDate	Optional. Date when the incident was resolved.
urgency	Optional. The possible urgency values are as follows: <ul style="list-style-type: none"> • 1-Critical • 2-High • 3-Medium • 4-Low
impact	Optional. The possible impact values are as follows: <ul style="list-style-type: none"> • 1-Extensive/Widespread • 2-Significant/Large • 3-Moderate/Limited • 4-Minor/Localized
categoryLevel1	Optional. Service request category level 1.
categoryLevel2	Optional. Service request category level 2 is deprecated, it can be left out from a request of filled with dummy information.
lastModifiedDate	Optional. The last time the incident was modified.
notes	A detailed description of the incident. This can contain a large amount of data.



```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:inc="http://api.dcp.ericsson.net/IncidentManagement">
    <soapenv:Header/>
    <soapenv:Body>
      <inc:SummaryResponse>
        <!--Zero or more repetitions:-->
        <responseData>
          <serviceRequestID>REQ000000002319</serviceRequestID>
          <summary>Log Incident</summary>
          <status>PLANNING</status>
          <submitDate>2013-11-16T14:00:39.000Z</submitDate>
          <company></company>
          <site>Enterprise A Site</site>
          <region>Region A</region>
          <siteGroup>SiteGroup B</siteGroup>
          <requesterFirstName>Example</requesterFirstName>
          <requesterLastName>User</requesterLastName>
          <assignedGroup>Service Desk</assignedGroup>
          <assignee>Support User</assignee>
          <targetFixTime>2013-11-17T14:00:38.000Z</targetFixTime>
          <urgency>2-High</urgency>
          <impact>4-Minor/Localized</impact>
          <categoryLevel1>Access</categoryLevel1>
          <lastModifiedDate>2013-11-17T09:24:51.000Z</lastModifiedDate>
        </responseData>
      </inc:SummaryResponse>
    </soapenv:Body>
  </soapenv:Envelope>

```

Or (Summary Response including incidentID)

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:inc="http://api.dcp.ericsson.net/IncidentManagement">
    <soapenv:Header/>
    <soapenv:Body>
      <inc:SummaryResponse>
        <!--Zero or more repetitions:-->
        <responseData>
          <incidentID>INC00000000225</incidentID>
          <summary>Log Incident</summary>
          <status>PLANNING</status>
          <submitDate>2013-11-16T14:00:39.000Z</submitDate>
          <company></company>
          <site>Site A</site>
          <region>Region B</region>
          <siteGroup>SiteGroup B</siteGroup>
          <requesterFirstName>Example</requesterFirstName>
          <requesterLastName>User</requesterLastName>
          <assignedGroup>Service Desk</assignedGroup>
          <assignee>Support User</assignee>
          <targetFixTime>2013-11-17T14:00:38.000Z</targetFixTime>
          <urgency>2-High</urgency>
          <impact>4-Minor/Localized</impact>
          <categoryLevel1>Access</categoryLevel1>
          <lastModifiedDate>2013-11-17T09:24:51.000Z</lastModifiedDate>
        </responseData>
      </inc:SummaryResponse>
    </soapenv:Body>
  </soapenv:Envelope>

```

Example 84 IncidentManagement Summary Response

Errors

No service-specific error codes are available.

4.9.2 Details

With this operation, it is possible to retrieve additional details for a single incident service request.



Request

The request contains the elements shown in Table 95. For an example, see Example 85.

Table 95 IncidentManagement Details Request Elements

Element	Description
incidentId	This parameter is the incident number for the service request to get details for.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
xmlns:inc="http://api.dcp.ericsson.net/IncidentManagement">
  <soapenv:Header/>
  <soapenv:Body>
    <inc:DetailsQuery>
      <incidentID>INC000000000251</incidentID>
    </inc:DetailsQuery>
  </soapenv:Body>
</soapenv:Envelope>
```

Example 85 IncidentManagement Details Request

Response

The response contains the elements shown in Table 96. For an example, see Example 86.

Table 96 IncidentManagement Details Response Elements

Element	Description
notes	Optional. A detailed description of the incident. This can contain a large amount of data.
resolution	Optional. If the support staff has entered resolution notes, it is displayed here after the incident is resolved. This can contain a large amount of data.
activityLog	Optional. One or several of the following: <ul style="list-style-type: none"> • id: Unique identifier • description: Summary of the work log notes entered by the user working on the incident. • detailedDescription: Detailed notes in the work log notes entered by the user working on the incident. • submitDate: Date and time when the work log entry was made. • submitter: Login name for the user who made the work log entry.
attachments	The attachment name.



```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:inc="http://api.dcp.ericsson.net/IncidentManagement">
    <soapenv:Header/>
    <soapenv:Body>
      <inc:DetailsResponse>
        <notes>This submitted incident is just a test.</notes>
        <resolution>This is a test Resolution entry for R1.1</resolution>
        <activityLog>
          <id>WLG000000000163</id>
          <description>Testing PUBLIC Workinfo Details API for R1.1</description>
          <detailedDescription>Testing Workinfo Details API for R1.1</detailedDescription>
          <submitDate>2010-01-15T11:27:41.000Z</submitDate>
          <submitter>Test</submitter>
        </activityLog>
        <activityLog>
          <id>WLG000000000162</id>
          <description>This is a test workinfo entry for R1.1</description>
          <detailedDescription>This is a test workinfo entry for R1.1</detailedDescription>
          <submitDate>2010-01-15T11:26:52.000Z</submitDate>
          <submitter>Test</submitter>
        </activityLog>
        <activityLog>
          <id>WLG000000000152</id>
          <description>This ticket was created from the service request system</description>
          <detailedDescription></detailedDescription>
          <submitDate>2010-01-15T10:15:44.000Z</submitDate>
          <submitter>Remedy Application Service</submitter>
        </activityLog>
      </inc:DetailsResponse>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 86 IncidentManagement Details Response

Errors

No service-specific error codes are available.

4.9.3 QueryCompanySiteDetails

With this operation, it is possible to retrieve available company site details.

Request

The request contains the elements shown in Table 97. For an example, see Example 87.

Table 97 QueryCompanySiteDetails Request Elements

Element	Description
customerNo	A string containing the customer number of the related organization. See Section 3.4.7 on page 11 for more information.



```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:inc="http://api.dcp.ericsson.net/IncidentManagement">
    <soapenv:Header/>
    <soapenv:Body>
      <inc:QueryCompanySiteDetails>
        <customerNo>99000010</customerNo>
      </inc:QueryCompanySiteDetails>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 87 QueryCompanySiteDetails Request

Response

The response contains the elements as shown in Table 98. For an example, see Example 88.

Table 98 QueryCompanySiteDetails Response Elements

Element	Description
site	It includes the name of the site, and optionally, its address.
site	

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:QueryCompanySiteDetailsResponse xmlns:ns2="http://api.dcp.ericsson.net/IncidentManagement">
      <site>
        <siteName>Enterprise A Site 1</siteName>
      </site>
      <site>
        <siteName>Enterprise A Site 2</siteName>
      </site>
      <site>
        <siteName>Enterprise A Site 3</siteName>
      </site>
      <site>
        <siteName>Enterprise A Site 4</siteName>
      </site>
      <site>
        <siteName>Enterprise A Site 5</siteName>
      </site>
    </ns2:QueryCompanySiteDetailsResponse>
  </env:Body>
</env:Envelope>
```

Example 88 QueryCompanySiteDetails Response

Errors

No service-specific error codes are available.

4.9.4 QueryIncidentCategoryList

With this operation, it is possible to retrieve the list of available categories.



Request

The request contains the elements shown in Table 99. For an example, see Example 89.

Table 99 QueryIncidentCategoryList Request Elements

Element	Description
customerNo	A string containing the customer number of the related organization. See Section 3.4.7 on page 11 for more information.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:inc="http://api.dcp.ericsson.net/IncidentManagement">
    <soapenv:Header/>
    <soapenv:Body>
      <inc:QueryIncidentCategoryList>
        <customerNo>99000010</customerNo>
      </inc:QueryIncidentCategoryList>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 89 IncidentManagement QueryIncidentCategoryList Request

Response

The response contains the elements shown in Table 100. For an example, see Example 90.

Table 100 QueryIncidentCategoryList Response Elements

Element	Description
categoryLevel1	Optional. Service request category level 1.
name	The name of service request category level 1.
categoryLevel2	Optional. Service request category level 2 is deprecated, it can be left out from a request or filled with dummy information.



```

env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/";
<env:Header/>
<env:Body>
  <ns2:QueryIncidentCategoryListResponse xmlns:ns2="http://api.dcp.ericsson.net/IncidentManagement">
    <categoryLevel1>
      <name>Access</name>
    </categoryLevel1>
    <categoryLevel1>
      <name>API</name>
    </categoryLevel1>
    <categoryLevel1>
      <name>Company Set-up</name>
    </categoryLevel1>
    <categoryLevel1>
      <name>Connectivity</name>
    </categoryLevel1>
    <categoryLevel1>
      <name>Customer Termination</name>
    </categoryLevel1>
    <categoryLevel1>
      <name>Other</name>
    </categoryLevel1>
    <categoryLevel1>
      <name>Service Portal</name>
    </categoryLevel1>
    <categoryLevel1>
      <name>Platform Supplier</name>
    </categoryLevel1>
  </ns2:QueryIncidentCategoryListResponse>
</env:Body>
</env:Envelope>

```

Example 90 QueryIncidentCategoryList Response

Errors

No service-specific error codes are available.

4.9.5 LogIncident

With this operation, it is possible to raise an incident request.

Request

The request contains the elements shown in Table 101. For an example, see Example 91.

Table 101 LogIncident Request Elements

Element	Description
customerNo	A string containing the customer number of the related organization. See Section 3.4.7 on page 11 for more information.
summary	The title of the incident. A maximum of 100 characters is allowed.



Table 101 LogIncident Request Elements

Element	Description
urgency	The possible urgency values are as follows: <ul style="list-style-type: none">criticalhighmediumlow
impact	Optional. The possible impact values are as follows: <ul style="list-style-type: none">Extensive/WidespreadSignificant/LargeModerate/LimitedMinor/Localized
categoryLevel1	Service request category level 1. The possible values can be found in the response of the QueryIncidentCategoryList operation, see Section 4.9.4 on page 93.
categoryLevel2	Optional. Service request category level 2 is deprecated, it can be left out from a request or filled with dummy information. The possible values can be found in the response of the QueryIncidentCategoryList operation, see Section 4.9.4 on page 93.
notes	Optional. A detailed description of the incident. This can contain a large amount of data. A maximum of 2000 characters is allowed.
site	Company location site. This field is deprecated and must be filled with dummy information.
attachments	Optional. Files related to the incident can be attached in this element. (A maximum of three attachments can be uploaded, with a 3MB size limit for each file.) The list of possible attachment elements are as follows: <ul style="list-style-type: none">fileName - The name of a fileattachmentData - Data of an attached file



```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
xmlns:inc="http://api.dcp.ericsson.net/IncidentManagement">
  <soapenv:Header/>
  <soapenv:Body>
    <inc:LogIncidentRequest>
      <customerNo>99000010</customerNo>
      <summary>SIM management problem</summary>
      <urgency>medium</urgency>
      <impact>moderate/limited</impact>
      <categoryLevel1>Access</categoryLevel1>
      <notes>test data</notes>
      <site>chennai</site>
      <attachments>
        <!--1 to 3 repetitions-->
        <attachment>
          <fileName>capture</fileName>
          <attachmentData>cid:31732773280</attachmentData>
        </attachment>
        <attachment>
          <fileName>capture1</fileName>
          <attachmentData>cid:31732773281</attachmentData>
        </attachment>
        <attachment>
          <fileName>capture2</fileName>
          <attachmentData>cid:31732773282</attachmentData>
        </attachment>
      </attachments>
    </inc:LogIncidentRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

Example 91 LogIncident Request

Response

The response contains the elements shown in Table 102. For an example, see Example 92.

Table 102 LogIncident Response Elements

Element	Description
incidentId	Incident ID
serviceRequestID	Service Request ID of the request issued. This field is deprecated and returns a default value. The incidentId field is used to identify incidents.

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:LogIncidentResponse xmlns:ns2="http://api.dcp.ericsson.net/IncidentManagement">
      <incidentId>INC100000000266</incidentId>
      <serviceRequestID>REQ</serviceRequestID>
    </ns2:LogIncidentResponse>
  </env:Body>
</env:Envelope>
```

Example 92 IncidentManagement LogIncident Response

Errors

LogIncident error codes are shown in Table 103



Table 103 LogIncidentError Errors

Fault Code	Description
ERR_UNABLE_TO_LOG_INCIDENT	It is not possible to log the incident.
Customer not found	The customer cannot be found.
log incident summary cannot be null	The summary field cannot be empty.
log incident summary should be less than 100 characters	The summary field must contain less than 100 characters.
log incident site cannot be null	The site field cannot be empty. It is deprecated and must be filled with dummy information.
Enter valid urgency	One of the following possible urgency values must be used: <ul style="list-style-type: none">• critical• high• medium• low
log incident category level 1 cannot be null	The categoryLevel1 field cannot be empty.
log incident notes should be less than 2000 characters	The notes field must contain less than 2000 characters.
Attachments cannot exceed 3 in number	Maximum three attachments can be added to one request.
attachments cannot have same name	The attachments must have different file names.

4.9.6 LogIncidentActivity

With this operation, it is possible add an activity to a raised incident.

Request

The request contains the elements shown in Table 104. For an example, see Example 93.

Table 104 LogIncidentActivity Request Elements

Element	Description
customerNo	A string containing the customer number of the related organization. See Section 3.4.7 on page 11 for more information.
incidentId	The unique ID of the incident.
summary	Title of the service request (service request is a general term, incident request is a special type of service requests). A maximum of 100 characters is allowed.



Table 104 LogIncidentActivity Request Elements

Element	Description
notes	Optional. A detailed description of the incident. This can potentially hold a large amount of data. A maximum of 2000 characters is allowed.
attachments	Optional. Related files can be attached in this element. A maximum of three attachments can be uploaded, with a 3MB size limit for each file. The list of possible attachment elements are as follows: <ul style="list-style-type: none"> • fileName - The name of a file • attachmentData - Data of an attached file

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:inc="http://api.dcp.ericsson.net/IncidentManagement">
    <soapenv:Header/>
    <soapenv:Body>
      <inc:LogIncidentActivity>
        <customerNo>99000010</customerNo>
        <incidentId>INC000000012599</incidentId>
        <summary>test</summary>
        <notes>test data</notes>
        <attachments>
          <!--1 to 3 repetitions-->
          <attachment>
            <fileName>activity</fileName>
            <attachmentData>cid:465408944033</attachmentData>
          </attachment>
          <attachment>
            <fileName>activity1</fileName>
            <attachmentData>cid:465408944034</attachmentData>
          </attachment>
          <attachment>
            <fileName>activity2</fileName>
            <attachmentData>cid:465408944035</attachmentData>
          </attachment>
        </attachments>
      </inc:LogIncidentActivity>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 93 LogIncidentActivity Request

Response

The response contains the elements shown in Table 105. For an example, see Example 94.

Table 105 LogIncidentActivity Response Elements

Element	Description
incidentId	The unique ID of the incident.

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:LogIncidentActivityResponse xmlns:ns2="http://api.dcp.ericsson.net/IncidentManagement">
      <incidentId>INC000000012599</incidentId>
    </ns2:LogIncidentActivityResponse>
  </env:Body>
</env:Envelope>
```

Example 94 LogIncidentActivity Response



Errors

LogIncidentActivity error codes are shown in Table 106.

Table 106 LogIncidentError Errors

Fault Code	Description
ERR_UABLE_TO_LOG_ACTIVITY	It is not possible to log the incident activity.
Log incident activity Incident ID cannot be null	The incidentId field cannot be empty.
Enter valid Incident ID	A valid incidentId must be entered.
log incident activity summary cannot be null	The summary field cannot be empty.
Log incident activity summary should be less than 100 characters	The summary field must contain less than 100 characters.
Log incident activity notes should be less than 2000 characters	The notes field must contain less than 2000 characters.
attachments cannot exceed 3 in number	Maximum three attachments can be added to one request.
attachments cannot have same name	The attachments must have different file names.

4.9.7 QueryIncidentAttachments

With this operation, it is possible retrieve a list of the incident attachments.

Request

The request contains the elements shown in Table 107. For an example, see Example 95.

Table 107 QueryIncidentAttachments Request Elements

Element	Description
customerNo	A string containing the customer number of the related organization. See Section 3.4.7 on page 11 for more information.
activityLogId	An ID generated when user logs an activity.
timedOut	Optional. Response time in seconds.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:inc="http://api.dcp.ericsson.net/IncidentManagement">
    <soapenv:Header/>
    <soapenv:Body>
      <inc:QueryIncidentAttachments>
        <customerNo>99000010</customerNo>
        <activityLogId>WLI000000012599</activityLogId>
        <timedOut>2</timedOut>
      </inc:QueryIncidentAttachments>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 95 QueryIncidentAttachments Request



Response

The response contains the elements shown in Table 108. For example, see Example 96.

Table 108 QueryIncidentAttachments Response Elements

attachments	<p>Optional. It includes list of the available attachments. The list of possible attachment elements are as follows:</p> <ul style="list-style-type: none"> • <code>fileName</code> - The name of a file • <code>attachmentData</code> - Data of an attached file

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:QueryIncidentAttachmentsResponse =>
      xmlns:ns2="http://api.dcp.ericsson.net/IncidentManagement">
        <attachments>
          <attachment>
            <fileName>capture2</fileName>
            <attachmentData>
              <xop:Include href="cid:attachmentData-ddc9a29c-e2c6-4ec4-9ffb-bf1df6bb34ce@ws.jboss.org" =>
                xmlns:xop="http://www.w3.org/2004/08/xop/include"/>
              </attachmentData>
            </attachment>
          </attachments>
        </ns2:QueryIncidentAttachmentsResponse>
      </env:Body>
    </env:Envelope>
```

Example 96 QueryIncidentAttachments Response

Errors

No service-specific error codes are available.

4.10 OverallStatus

This service makes it possible to retrieve the current status of all core services.

The elements returned in this service show the generic status of the DCP platform core, which is common for all mobile network operators (MNO) using DCP. For example, it means the following: If one MNO loses SS7 connectivity to DCP, the status is still 1 (OK) for all services. The lost SS7 only affects one MNO and not the ability of the DCP platform to provide SS7 functionality. DCP central faults and disturbance change the OverallStatus as long as they affect the whole platform.

MNO-specific issues like SS7/Sigtran signaling/links, roaming, success rate, and local PLMN performance/availability are not show in the status. Issues connected to enterprise-specific services — like VPNs, leased lines, and SMSC-accounts — have no effect on the platform status either.



Central DCP faults and disturbances change the OverallStatus, as long as they are generic to the platform and not specific to one MNO or enterprise. For example, specific APN accounts are not taken into account, unless all APNs are affected.

Note: The **OverallStatus** service is going to be removed from this SOAP API in a future release.

The WSDL is available at the following URL, where the <baseURI> parameter is provided by the operator:

— <baseURI>/dcpapi/OverallStatus?WSDL

4.10.1 GetStatus

With this operation, it is possible to retrieve a status number for each of the services.

Request

The request requires no additional input except authentication information since the status of all applicable services is always returned. The request can contain an optional element shown in Table 109. For an example, see Example 97.

Table 109 GetStatus Request Element

Element	Description
customerNo	A string containing the customer number of the related organization. See Section 3.4.7 on page 11 for more information.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:over="http://api.dcp.ericsson.net/OverallStatus">
    <soapenv:Header/>
    <soapenv:Body>
      <over:GetStatus>
      </over:GetStatus>
    </soapenv:Body>
  </soapenv:Envelope>
```

Or (Optionally running on behalf of a customer)

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:over="http://api.dcp.ericsson.net/OverallStatus">
    <soapenv:Header/>
    <soapenv:Body>
      <over:GetStatus>
        <customerNo>00000001</customerNo>
      </over:GetStatus>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 97 GetStatus Request

Response

The response contains a single element with zero or more status fields as shown in Table 110. The status is a value ranging from 1 to 3, and has the following meaning:



- **1** – There are currently none or only minor disturbances with no significant customer impact.
- **2** – The service has reduced capacity, intermittent loss of functionality (moderate or limited disturbance), or both.
- **3** – The performance of the service is seriously affected or the service is not working at all (extensive or large disturbance).

For an example, see Example 98.

Table 110 GetStatus Response Elements

Element	Description
voice	Voice call service. The status of the basic GSM service provided by DCP that is used to enable voice calls in the PLMN.
cSD	Circuit Switched Data service. The status of the basic GSM service provided by DCP that is used to enable CSD calls in the PLMN.
SMS	The status of this service is showing whether it is possible to send/receive SMSes from/to Mobile Station M2M devices from a central DCP platform perspective.
gPRS	The status of this service shows whether it is possible to connect with GPRS and send/receive data from/to Mobile Station M2M devices from a central DCP platform perspective.
customerAccessService	Optional. DCP VPN and Leased Line access service. The status of this service is showing whether it is possible to setup/maintain a VPN or Leased Line connection to DCP and send/receive data through that connection from a central DCP platform perspective. It is not showing the status of the enterprise access specifically.
customerSMSCAccount	Optional. SMSC Account access service. The status of this service is showing whether it is possible to setup/maintain a SMPP/CIMD2 account connection to DCP and send/receive data through that connection from a central DCP platform perspective. It is not showing the status of the enterprise account specifically.

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:GetStatusResponse xmlns:ns2="http://api.dcp.ericsson.net/OverallStatus">
      <voice>1</voice>
      <cSD>1</cSD>
      <sMS>2</sMS>
      <gPRS>1</gPRS>
      <customerAccessService>2</customerAccessService>
      <customerSMSCAccount>3</customerSMSCAccount>
    </ns2:GetStatusResponse>
  </env:Body>
</env:Envelope>
```

Example 98 GetStatus Response

Errors

No service-specific error codes are available.



4.11 TriggerAlarmsService

This service makes it possible to fetch or delete information about triggered alarms.

Note: The WSDL is available at the following URL, where the `<baseURI>` parameter is provided by the operator:

— `<baseURI>/dcpapi/TriggerAlarms?WSDL`

4.11.1 QueryTriggerAlarmsSummary

With this operation, it is possible to retrieve a list of short description summaries and alarm counts.

Request

The request requires no additional input except authentication. It contains the elements shown in Table 111. For an example, see Example 99.

Table 111 QueryTriggerAlarmsSummary Request Elements

Element	Description
customerNo	A string containing the customer number of the related organization. See Section 3.4.7 on page 11 for more information.
alarmFilter	Optional. A filter can be specified. Valid filter values are as follows: <ul style="list-style-type: none">• <code>alertTriggers</code>: Only alarms raised from alert triggers are retrieved.• <code>actionTriggers</code>: Only alarms raised from action triggers are retrieved.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:trig="http://api.dcp.ericsson.net/TriggerAlarms">
    <soapenv:Header/>
    <soapenv:Body>
      <trig:QueryTriggerAlarmsSummary>
        <customerNo>00000001</customerNo>
        <alarmFilter>actionTriggers</alarmFilter>
      </trig:QueryTriggerAlarmsSummary>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 99 QueryTriggerAlarmsSummary Request

Response

The response contains the elements shown in Table 112. For an example, see Example 100.

Table 112 QueryTriggerAlarmsSummary Response Elements

Element	Description
triggerId	ID of the trigger the alarm belongs to.



Table 112 QueryTriggerAlarmsSummary Response Elements

Element	Description
description	Optional. Short description of the trigger.
count	Optional. Number of alarms raised.
latest	Optional. Date and time of the latest alarm.

```

<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:QueryTriggerAlarmsSummaryResponse xmlns:ns2="http://api.dcp.ericsson.net/TriggerAlarms">
      <alarmsSummaries>
        <alarmsSummary>
          <triggerId>11</triggerId>
          <description>SMS MO under run per timeframe</description>
          <count>1</count>
          <latest>2011-12-14T12:52:32.811Z</latest>
        </alarmsSummary>
        <alarmsSummary>
          <triggerId>9</triggerId>
          <description>GPRS DL under run per timeframe</description>
          <count>2</count>
          <latest>2011-12-15T12:52:32.811Z</latest>
        </alarmsSummary>
      </alarmsSummaries>
    </ns2:QueryTriggerAlarmsSummaryResponse>
  </env:Body>
</env:Envelope>

```

Example 100 QueryTriggerAlarmsSummary Response

Errors

No service-specific error codes are available.

4.11.2 QueryTriggerAlarms

With this operation, it is possible to retrieve a list of more detailed information about all the active alarms. Up to 100 alarms are returned.

Request

The request requires no additional input except authentication. It contains the elements shown in Table 113. For an example, see Example 101.



Table 113 QueryTriggerAlarms Request Elements

Element	Description
customerNo	A string containing the customer number of the related organization. See Section 3.4.7 on page 11 for more information.
alarmFilter	Optional. A filter can be specified. Valid filter values are as follows: <ul style="list-style-type: none">• alertTriggers: Only alarms raised from alert triggers are retrieved.• actionTriggers: Only alarms raised from action triggers are retrieved.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:trig="http://api.dcp.ericsson.net/TriggerAlarms">
    <soapenv:Header/>
    <soapenv:Body>
      <trig:QueryTriggerAlarms>
        <customerNo>00000001</customerNo>
        <alarmFilter>alertTriggers</alarmFilter>
      </trig:QueryTriggerAlarms>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 101 QueryTriggerAlarms Request

Response

The response contains the elements shown in Table 114. For an example, see Example 102.

Table 114 QueryTriggerAlarms Response Elements

Element	Description
id	The ID of the alarm.
triggerId	The ID of the trigger the alarm belongs to.
triggerDescription	Optional. Short description of the trigger.
imsi	Optional. The IMSI that caused the alarm.
msisdn	Optional. The MSISDN number of the resource that caused the alarm.
thresholdValue	Optional. The value at the time of the alarm.
timestamp	Optional. The time and date of the alarm.
alarmType	Optional. The type of the alarm. The possible values are: <ul style="list-style-type: none">• Information• Deactivation



```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:QueryTriggerAlarmsResponse =>
      xmlns:ns2="http://api.dcp.ericsson.net/TriggerAlarms">
        <alarms>
          <alarm>
            <id>15</id>
            <triggerId>11</triggerId>
            <triggerDescription>SMS MO under run per timeframe</triggerDescription>
            <imsi>123456789123456</imsi>
            <msisdn>123456789123456</msisdn>
            <thresholdValue>337</thresholdValue>
            <timestamp>2011-12-17T18:16:18.000Z</timestamp>
            <alarmType>Information</alarmType>
          </alarm>
          <alarm>
            <id>16</id>
            <triggerId>1</triggerId>
            <triggerDescription>Location update</triggerDescription>
            <imsi>123456789123456</imsi>
            <msisdn>123456789123456</msisdn>
            <thresholdValue>1</thresholdValue>
            <timestamp>2011-12-17T00:48:38.000Z</timestamp>
            <alarmType>Deactivation</alarmType>
          </alarm>
        </alarms>
      </ns2:QueryTriggerAlarmsResponse>
    </env:Body>
  </env:Envelope>
```

Example 102 QueryTriggerAlarms Response

Errors

No service-specific error codes are available.

4.11.3 ClearAlarmStatus

With this operation, it is possible to set the status of one or more alarms to cleared.

Request

The request contains the element shown in Table 115. For an example, see Example 103.

Table 115 ClearAlarmStatus Request Element

Element	Description
alarmId	Optional. The ID of the alarm to clear. Multiple entries can be entered to clear the statuses for multiple alarms at once.
customerNo	A string containing the customer number of the related organization. See Section 3.4.7 on page 11 for more information.



```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:trig="http://api.dcp.ericsson.net/TriggerAlarms">
    <soapenv:Header/>
    <soapenv:Body>
      <trig:ClearAlarmStatus>
        <customerNo>00000001</customerNo>
        <alarmId>1234</alarmId>
        <alarmId>1235</alarmId>
      </trig:ClearAlarmStatus>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 103 ClearAlarmStatus Request

Response

The response contains the element shown in Table 116. For an example, see Example 104.

Table 116 ClearAlarmStatus Response Element

Element	Description
ClearAlarmStatusResponse	<p>Optional. When clearing the status of a single alarm, the return value is one of the following:</p> <ul style="list-style-type: none">• Success• DoesNotExist means that the alarm ID is invalid. <p>When clearing the status of multiple alarms, the return value is Success.</p>

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:ClearAlarmStatusResponse =>
      xmlns:ns2="http://api.dcp.ericsson.net/TriggerAlarms">Success</ns2:ClearAlarmStatusResponse>
    </env:Body>
  </env:Envelope>
```

Example 104 ClearAlarmStatus Response

Errors

No service-specific error codes are available.

4.12 TriggerPackageManagement

This service makes it possible to manage trigger packages.

Note: The WSDL is available at the following URL, where the <baseURI> parameter is provided by the operator:

— <baseURI>/dcpapi/TriggerPackageManagement?WSDL

4.12.1 CreateTriggerPackage

With this operation, it is possible to create a new trigger package.



Request

The request contains the elements shown in Table 117. For an example, see Example 105.

Table 117 CreateTriggerPackage Request Elements

Element	Description
customerNo	A string containing the customer number of the related organization. See Section 3.4.7 on page 11 for more information.
name	The name of the trigger package.
description	Optional. The description of the trigger package.
triggerMetrics	Optional. The triggerMetric elements for each trigger included in the trigger package.
triggerMetric	<p>The properties of each trigger as follows:</p> <ul style="list-style-type: none"> triggerNumber The number of the trigger. triggerName Optional. The name of the trigger. timeFrame Optional. Time frame in hours (1–48) for the threshold. alertActive Optional. Alert trigger active or not (true or false). alertValue Optional. Alert threshold for the defined time frame (bytes or pieces depending on trigger). actionActive Optional. Action trigger active or not (true or false). actionValue Optional. Action threshold for the defined time frame (bytes or pieces depending on trigger). lastChange Optional. The date when trigger package configuration was updated.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
xmlns:trig="http://api.dcp.ericsson.net/TriggerPackageManagement">
  <soapenv:Header/>
  <soapenv:Body>
    <trig:TriggerPackageCreateRequest>
      <customerNo>00000000</customerNo>
      <name>Trigger Package A</name>
      <description>Data underrun</description>
      <triggerMetrics>
        <triggerMetric>
          <triggerNumber>8</triggerNumber>
          <triggerName>GPRS Short term under run per timeframe</triggerName>
          <timeFrame>48</timeFrame>
          <alertActive>false</alertActive>
          <alertValue></alertValue>
          <actionActive>false</actionActive>
          <actionValue></actionValue>
          <lastChange></lastChange>
        </triggerMetric>
      </triggerMetrics>
    </trig:TriggerPackageCreateRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

Example 105 CreateTriggerPackage Request



Response

The response contains a `triggerPackage` with the elements shown in Table 118. For an example, see Example 106.

Table 118 CreateTriggerPackage Response Elements

Element	Description
customerNo	A string containing the customer number of the related organization. See Section 3.4.7 on page 11 for more information.
packageNo	The number of the trigger package.
name	The name of the trigger package.
description	Optional. The description of the trigger package.
lastChange	Optional. The date when the trigger package configuration was updated.
triggerMetrics	Optional. The <code>triggerMetric</code> elements for each trigger included in the trigger package.
triggerMetric	The properties of each trigger as described in Table 117.

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:TriggerPackageCreateResponse xmlns:ns2="http://api.dcp.ericsson.net/TriggerPackageManagement">
      <triggerPackage>
        <customerNo>00000001</customerNo>
        <packageNo>54</packageNo>
        <name>Test Pack</name>
        <description>Test Pack Description</description>
        <triggerMetrics>
          <triggerMetric>
            <triggerNumber>1</triggerNumber>
            <triggerName>No location update</triggerName>
            <timeFrame></timeFrame>
            <alertActive>false</alertActive>
            <alertValue></alertValue>
            <actionActive>false</actionActive>
            <actionValue></actionValue>
          </triggerMetric>
          <triggerMetric>
            <triggerNumber>2</triggerNumber>
            <triggerName>Roaming not allowed</triggerName>
            <timeFrame></timeFrame>
            <alertActive>false</alertActive>
            <alertValue></alertValue>
            <actionActive>false</actionActive>
            <actionValue></actionValue>
          </triggerMetric>
          <triggerMetric>
            <triggerNumber>5</triggerNumber>
            <triggerName>PDP Context Activation attempts per timeframe</triggerName>
            <timeFrame></timeFrame>
            <alertActive>false</alertActive>
            <alertValue></alertValue>
            <actionActive>false</actionActive>
            <actionValue></actionValue>
          </triggerMetric>
          <triggerMetric>
            <triggerNumber>6</triggerNumber>
            <triggerName>GPRS Short term over run per timeframe</triggerName>
            <timeFrame></timeFrame>
            <alertActive>false</alertActive>
            <alertValue></alertValue>
            <actionActive>false</actionActive>
            <actionValue></actionValue>
          </triggerMetric>
        </triggerMetrics>
      </triggerPackage>
    </ns2:TriggerPackageCreateResponse>
  </env:Body>
</env:Envelope>
```



```

        <triggerNumber>8</triggerNumber>
        <triggerName>GPRS Short term under run per timeframe</triggerName>
        <timeFrame>48</timeFrame>
        <alertActive>>false</alertActive>
        <alertValue></alertValue>
        <actionActive>>false</actionActive>
        <actionValue></actionValue>
    </triggerMetric>
    <triggerMetric>
        <triggerNumber>10</triggerNumber>
        <triggerName>SMS MO over run per timeframe</triggerName>
        <timeFrame></timeFrame>
        <alertActive>>false</alertActive>
        <alertValue></alertValue>
        <actionActive>>false</actionActive>
        <actionValue></actionValue>
    </triggerMetric>
    <triggerMetric>
        <triggerNumber>11</triggerNumber>
        <triggerName>SMS MO under run per timeframe</triggerName>
        <timeFrame></timeFrame>
        <alertActive>>false</alertActive>
        <alertValue></alertValue>
        <actionActive>>false</actionActive>
        <actionValue></actionValue>
    </triggerMetric>
    <triggerMetric>
        <triggerNumber>12</triggerNumber>
        <triggerName>SMS MT over run per timeframe</triggerName>
        <timeFrame></timeFrame>
        <alertActive>>false</alertActive>
        <alertValue></alertValue>
        <actionActive>>false</actionActive>
        <actionValue></actionValue>
    </triggerMetric>
    <triggerMetric>
        <triggerNumber>13</triggerNumber>
        <triggerName>SMS MT under run per timeframe</triggerName>
        <timeFrame></timeFrame>
        <alertActive>>false</alertActive>
        <alertValue></alertValue>
        <actionActive>>false</actionActive>
        <actionValue></actionValue>
    </triggerMetric>
    <triggerMetric>
        <triggerNumber>14</triggerNumber>
        <triggerName>Net activity under run per timeframe</triggerName>
        <timeFrame></timeFrame>
        <alertActive>>false</alertActive>
        <alertValue></alertValue>
        <actionActive>>false</actionActive>
        <actionValue></actionValue>
    </triggerMetric>
</triggerMetrics>
</triggerPackage>
</ns2:TriggerPackageCreateResponse>
</env:Body>
</env:Envelope>

```

Example 106 CreateTriggerPackage Response

Errors

No service-specific error codes are available.

4.12.2 ChangeTriggerPackage

With this operation, it is possible to change a trigger package.



Request

The request contains the elements shown in Table 119. For an example, see Example 107.

Table 119 ChangeTriggerPackage Request Elements

Element	Description
customerNo	A string containing the customer number of the related organization. See Section 3.4.7 on page 11 for more information.
packageNo	The number of the trigger package.
name	The name of the trigger package.
description	Optional. The description of the trigger package.
lastChange	Optional. The date when trigger package configuration was updated.
triggerMetrics	Optional. The triggerMetric elements for each trigger included in the trigger package.
triggerMetric	The properties of each trigger as described in Table 117.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:trig="http://api.dcp.ericsson.net/TriggerPackageManagement">
    <soapenv:Header/>
    <soapenv:Body>
      <trig:TriggerPackageChangeRequest>
        <triggerPackage>
          <customerNo>00000001</customerNo>
          <packageNo>54</packageNo>
          <name>Data limit trigger</name>
          <description>data quote alert</description>
          <lastChange></lastChange>
          <triggerMetrics>
            <triggerMetric>
              <triggerNumber>8</triggerNumber>
              <triggerName>GPRS Short term under run per timeframe</triggerName>
              <timeFrame>48</timeFrame>
              <alertActive>false</alertActive>
              <alertValue></alertValue>
              <actionActive>false</actionActive>
              <actionValue></actionValue>
              <lastChange></lastChange>
            </triggerMetric>
          </triggerMetrics>
        </triggerPackage>
      </trig:TriggerPackageChangeRequest>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 107 ChangeTriggerPackage Request

Response

The response contains a triggerPackage with the elements shown in Table 120. For an example, see Example 108.

Table 120 ChangeTriggerPackage Response Elements

Element	Description
customerNo	A string containing the customer number of the related organization.



Table 120 ChangeTriggerPackage Response Elements

Element	Description
packageNo	The number of the trigger package.
name	The name of the trigger package.
description	Optional. The description of the trigger package.
lastChange	Optional. The date when the trigger package configuration was updated.
triggerMetrics	Optional. The triggerMetric elements for each trigger included in the trigger package.
triggerMetric	The properties of each trigger as described in Table 117.

```

<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:TriggerPackageChangeResponse =>
      xmlns:ns2="http://api.dcp.ericsson.net/TriggerPackageManagement">
        <triggerPackage>
          <customerNo>00000001</customerNo>
          <packageNo>54</packageNo>
          <name>Activity trigger</name>
          <description>Package Description</description>
          <triggerMetrics>
            <triggerMetric>
              <triggerNumber>1</triggerNumber>
              <triggerName>No location update</triggerName>
              <timeFrame></timeFrame>
              <alertActive>>false</alertActive>
              <alertValue></alertValue>
              <actionActive>>false</actionActive>
              <actionValue></actionValue>
            </triggerMetric>
            <triggerMetric>
              <triggerNumber>2</triggerNumber>
              <triggerName>Roaming not allowed</triggerName>
              <timeFrame></timeFrame>
              <alertActive>>false</alertActive>
              <alertValue></alertValue>
              <actionActive>>false</actionActive>
              <actionValue></actionValue>
            </triggerMetric>
            <triggerMetric>
              <triggerNumber>5</triggerNumber>
              <triggerName>PDP Context Activation attempts per timeframe</triggerName>
              <timeFrame></timeFrame>
              <alertActive>>false</alertActive>
              <alertValue></alertValue>
              <actionActive>>false</actionActive>
              <actionValue></actionValue>
            </triggerMetric>
            <triggerMetric>
              <triggerNumber>6</triggerNumber>
              <triggerName>GPRS Short term over run per timeframe</triggerName>
              <timeFrame></timeFrame>
              <alertActive>>false</alertActive>
              <alertValue></alertValue>
              <actionActive>>false</actionActive>
              <actionValue></actionValue>
            </triggerMetric>
            <triggerMetric>
              <triggerNumber>8</triggerNumber>
              <triggerName>GPRS Short term under run per timeframe</triggerName>
              <timeFrame>48</timeFrame>
              <alertActive>>false</alertActive>
              <alertValue></alertValue>
              <actionActive>>false</actionActive>
              <actionValue></actionValue>
            </triggerMetric>
          </triggerMetrics>
        </triggerPackage>
      </ns2:TriggerPackageChangeResponse>
    </env:Body>
  </env:Envelope>

```



```

        <triggerNumber>10</triggerNumber>
        <triggerName>SMS MO over run per timeframe</triggerName>
        <timeFrame></timeFrame>
        <alertActive>>false</alertActive>
        <alertValue></alertValue>
        <actionActive>>false</actionActive>
        <actionValue></actionValue>
    </triggerMetric>
    <triggerMetric>
        <triggerNumber>11</triggerNumber>
        <triggerName>SMS MO under run per timeframe</triggerName>
        <timeFrame></timeFrame>
        <alertActive>>false</alertActive>
        <alertValue></alertValue>
        <actionActive>>false</actionActive>
        <actionValue></actionValue>
    </triggerMetric>
    <triggerMetric>
        <triggerNumber>12</triggerNumber>
        <triggerName>SMS MT over run per timeframe</triggerName>
        <timeFrame></timeFrame>
        <alertActive>>false</alertActive>
        <alertValue></alertValue>
        <actionActive>>false</actionActive>
        <actionValue></actionValue>
    </triggerMetric>
    <triggerMetric>
        <triggerNumber>13</triggerNumber>
        <triggerName>SMS MT under run per timeframe</triggerName>
        <timeFrame></timeFrame>
        <alertActive>>false</alertActive>
        <alertValue></alertValue>
        <actionActive>>false</actionActive>
        <actionValue></actionValue>
    </triggerMetric>
    <triggerMetric>
        <triggerNumber>14</triggerNumber>
        <triggerName>Net activity under run per timeframe</triggerName>
        <timeFrame></timeFrame>
        <alertActive>>false</alertActive>
        <alertValue></alertValue>
        <actionActive>>false</actionActive>
        <actionValue></actionValue>
    </triggerMetric>
</triggerMetrics>
</triggerPackage>
</ns2:TriggerPackageChangeResponse>
</env:Body>
</env:Envelope>

```

Example 108 ChangeTriggerPackage Response

Errors

No service-specific error codes are available.

4.12.3 DeleteTriggerPackage

With this operation, it is possible to delete a trigger package.

Request

The request contains the elements shown in Table 121. For an example, see Example 109.



Table 121 DeleteTriggerPackage Request Elements

Element	Description
customerNo	A string containing the customer number of the related organization. See Section 3.4.7 on page 11 for more information.
packageNo	The number of the trigger package.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:trig="http://api.dcp.ericsson.net/TriggerPackageManagement">
    <soapenv:Header/>
    <soapenv:Body>
      <trig:TriggerPackageDeleteRequest>
        <customerNo>00000001</customerNo>
        <packageNo>11</packageNo>
      </trig:TriggerPackageDeleteRequest>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 109 DeleteTriggerPackage Request

Response

The response contains the elements shown in Table 122. For an example, see Example 110.

Table 122 DeleteTriggerPackage Response Elements

Element	Description
TriggerPackageDeleteResponse	Optional. When deleting the trigger package, the return value is one of the following: <ul style="list-style-type: none"> • SUCCESS • DoesNotExist • DoesNotBelong

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns1:TriggerPackageDeleteResponse =>
      xmlns:ns1="http://api.dcp.ericsson.net/TriggerPackageManagement">SUCCESS=>
    </ns1:TriggerPackageDeleteResponse>
  </env:Body>
</env:Envelope>
```

Example 110 DeleteTriggerPackage Response

Errors

No service-specific error codes are available.

4.12.4 QueryTriggerPackages

With this operation, it is possible to query trigger packages.



Request

The request contains the element shown in Table 123. For an example, see Example 111.

Table 123 QueryTriggerPackages Request Element

Element	Description
customerNo	A string containing the customer number of the related organization. See Section 3.4.7 on page 11 for more information.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:trig="http://api.dcp.ericsson.net/TriggerPackageManagement">
    <soapenv:Header/>
    <soapenv:Body>
      <trig:QueryTriggerPackagesRequest>
        <customerNo>00000001</customerNo>
      </trig:QueryTriggerPackagesRequest>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 111 QueryTriggerPackages Request

Response

The response contains a triggerPackage with the elements shown in Table 124. For an example, see Example 112.

Table 124 QueryTriggerPackages Response Elements

Element	Description
customerNo	A string containing the customer number of the related organization.
packageNo	The number of the trigger package.
name	The name of the trigger package.
description	Optional. The description of the trigger package.
lastChange	Optional. The date when trigger package configuration was updated.
triggerMetrics	Optional. The triggerMetric elements for each trigger included in the trigger package.
triggerMetric	The properties of each trigger as described in Table 117.

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:QueryTriggerPackagesResponse xmlns:ns2="http://api.dcp.ericsson.net/TriggerPackageManagement">
      <triggerPackages>
        <triggerPackage>
          <customerNo>00000001</customerNo>
          <packageNo>11</packageNo>
          <name>Activity Package</name>
          <description>Pack description</description>
          <triggerMetrics>
            <triggerMetric>
              <triggerNumber>1</triggerNumber>
              <triggerName>No location update</triggerName>
              <timeFrame></timeFrame>
              <alertActive>false</alertActive>
              <alertValue></alertValue>
            </triggerMetric>
          </triggerMetrics>
        </triggerPackage>
      </triggerPackages>
    </ns2:QueryTriggerPackagesResponse>
  </env:Body>
</env:Envelope>
```



```

        <actionActive>false</actionActive>
        <actionValue></actionValue>
    </triggerMetric>
    <triggerMetric>
        <triggerNumber>2</triggerNumber>
        <triggerName>Roaming not allowed</triggerName>
        <timeFrame></timeFrame>
        <alertActive>false</alertActive>
        <alertValue></alertValue>
        <actionActive>false</actionActive>
        <actionValue></actionValue>
    </triggerMetric>
    <triggerMetric>
        <triggerNumber>5</triggerNumber>
        <triggerName>PDP Context Activation attempts per timeframe</triggerName>
        <timeFrame>2</timeFrame>
        <alertActive>false</alertActive>
        <alertValue></alertValue>
        <actionActive>false</actionActive>
        <actionValue></actionValue>
        <lastChange>2011-04-29Z</lastChange>
    </triggerMetric>
    <triggerMetric>
        <triggerNumber>6</triggerNumber>
        <triggerName>GPRS Short term over run per timeframe</triggerName>
        <timeFrame>4</timeFrame>
        <alertActive>false</alertActive>
        <alertValue></alertValue>
        <actionActive>false</actionActive>
        <actionValue></actionValue>
        <lastChange>2011-04-29Z</lastChange>
    </triggerMetric>
    <triggerMetric>
        <triggerNumber>8</triggerNumber>
        <triggerName>GPRS Short term under run per timeframe</triggerName>
        <timeFrame></timeFrame>
        <alertActive>false</alertActive>
        <alertValue></alertValue>
        <actionActive>false</actionActive>
        <actionValue></actionValue>
    </triggerMetric>
    <triggerMetric>
        <triggerNumber>10</triggerNumber>
        <triggerName>SMS MO over run per timeframe</triggerName>
        <timeFrame>11</timeFrame>
        <alertActive>false</alertActive>
        <alertValue></alertValue>
        <actionActive>false</actionActive>
        <actionValue></actionValue>
        <lastChange>2011-04-29Z</lastChange>
    </triggerMetric>
    <triggerMetric>
        <triggerNumber>11</triggerNumber>
        <triggerName>SMS MO under run per timeframe</triggerName>
        <timeFrame></timeFrame>
        <alertActive>false</alertActive>
        <alertValue></alertValue>
        <actionActive>false</actionActive>
        <actionValue></actionValue>
    </triggerMetric>
    <triggerMetric>
        <triggerNumber>12</triggerNumber>
        <triggerName>SMS MT over run per timeframe</triggerName>
        <timeFrame>11</timeFrame>
        <alertActive>false</alertActive>
        <alertValue></alertValue>
        <actionActive>false</actionActive>
        <actionValue></actionValue>
        <lastChange>2011-04-29Z</lastChange>
    </triggerMetric>
    <triggerMetric>
        <triggerNumber>13</triggerNumber>
        <triggerName>SMS MT under run per timeframe</triggerName>
        <timeFrame></timeFrame>
        <alertActive>false</alertActive>
        <alertValue></alertValue>

```



```
<actionActive>false</actionActive>
<actionValue></actionValue>
</triggerMetric>
<triggerMetric>
  <triggerNumber>14</triggerNumber>
  <triggerName>Net activity under run per timeframe</triggerName>
  <timeFrame>22</timeFrame>
  <alertActive>false</alertActive>
  <alertValue></alertValue>
  <actionActive>false</actionActive>
  <actionValue></actionValue>
  <lastChange>2011-04-29Z</lastChange>
</triggerMetric>
</triggerMetrics>
</triggerPackage>
</triggerPackages>
</ns2:QueryTriggerPackagesResponse>
</env:Body>
</env:Envelope>
```

Example 112 QueryTriggerPackages Response

Errors

No service-specific error codes are available.

4.12.5 QueryCustomerEmailAddress

With this operation, it is possible to query the e-mail addresses that are subscribed to trigger notifications.

Request

The request contains the element shown in Table 125. For an example, see Example 113.

Table 125 QueryCustomerEmailAddress Request Element

Element	Description
customerNo	A string containing the customer number of the related organization. See Section 3.4.7 on page 11 for more information.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:trig="http://api.dcp.ericsson.net/TriggerPackageManagement">
    <soapenv:Header/>
    <soapenv:Body>
      <trig:QueryCustomerEmailAddressRequest>
        <customerNo>00000001</customerNo>
      </trig:QueryCustomerEmailAddressRequest>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 113 QueryCustomerEmailAddress Request

Response

The response contains the element shown in Table 126. For an example, see Example 114.



Table 126 QueryCustomerEmailAddress Response Element

Element	Description
emailAddress	Optional. The e-mail addresses of the sub-customer.

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/"> =>
  <env:Header/>
  <env:Body>
    <ns2:QueryCustomerEmailAddressResponse =>
      xmlns:ns2="http://api.dcp.ericsson.net/TriggerPackageManagement">
        <emailAddress>user1@example.com,user2@example.com,user3@example.com</emailAddress>
      </ns2:QueryCustomerEmailAddressResponse>
    </env:Body>
  </env:Envelope>
```

Example 114 QueryCustomerEmailAddress Response

Errors

No service-specific error codes are available.

4.12.6 ChangeCustomerEmailAddress

With this operation, it is possible to add, change, or delete e-mail addresses that receive all trigger notifications. If successful, this request always overwrites the list of subscribed addresses.

Request

The request contains the elements shown in Table 127. For an example, see Example 115.

Table 127 ChangeCustomerEmailAddress Request Elements

Element	Description
customerNo	A string containing the customer number of the related organization. See Section 3.4.7 on page 11 for more information.
emailAddress	Up to five e-mail addresses, separated by commas. ⁽¹⁾ To remove all subscribed e-mail addresses, leave the value empty or include only spaces.

(1) The length of this value cannot exceed 300 characters, commas included. Spaces in the value are removed by the system before applying the limit.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:trig="http://api.dcp.ericsson.net/TriggerPackageManagement">
    <soapenv:Header/>
    <soapenv:Body>
      <trig:ChangeCustomerEmailAddressRequest>
        <customerNo>00000001</customerNo>
        <emailAddress>user1@example.com,user2@example.com,user3@example.com</emailAddress>
      </trig:ChangeCustomerEmailAddressRequest>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 115 ChangeCustomerEmailAddress Request



Response

The response is empty if the operation has been successfully done, otherwise an exception is shown. For an example, see Example 116.

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns1:ChangeCustomerEmailAddressResponse xsi:nil="1" =>
      xmlns:ns1="http://api.dcp.ericsson.net/TriggerPackageManagement" =>
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"/>
    </env:Body>
  </env:Envelope>
```

Example 116 ChangeCustomerEmailAddress Response

Errors

The **ChangeCustomerEmailAddress** (Change Customer Email Address) error codes are shown in Table 128.

Table 128 ChangeCustomerEmailAddress Errors

Fault Code	Description
BadParam	This error is produced in the following cases: <ul style="list-style-type: none">• One of the comma-separated e-mail addresses is missing.• The length of the value exceeds the 300 character limit.• The value includes more than five e-mail addresses.• One or more of the e-mail addresses have an invalid format or are not separated by commas.

4.12.7 AddTriggerPackageToSubscriptionPackages

With this operation, it is possible to assign a trigger package to subscription packages.

Request

The request contains the elements shown in Table 129. For an example, see Example 117.

Table 129 AddTriggerPackageToSubscriptionPackages Request Elements

Element	Description
customerNo	A string containing the customer number of the related organization. See Section 3.4.7 on page 11 for more information.
packageNo	The number of the trigger package.
subscriptionPackageNameList	It includes subscriptionPackageName.



```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:trig="http://api.dcp.ericsson.net/TriggerPackageManagement">
    <soapenv:Header/>
    <soapenv:Body>
      <trig:AddTriggerPackageToSubscriptionPackagesRequest>
        <triggerPackageNo>1000860</triggerPackageNo>
        <subscriptionPackageNameList>
          <!-- 1 or more repetitions:-->
          <subscriptionPackageName>C90000040-TSAB-SP01</subscriptionPackageName>
        </subscriptionPackageNameList>
      </trig:AddTriggerPackageToSubscriptionPackagesRequest>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 117 AddTriggerPackageToSubscriptionPackages Request

Response

The response contains the element shown in Table 130. For an example, see Example 118.

Table 130 AddTriggerPackageToSubscriptionPackages Response Elements

Element	Description
subscriptionPackageName	The name of the subscription package.
resultCode	The status of the request.
serviceRequestId	Optional. Service Request ID of the issued request.
requestId	Optional. Request ID of the issued request.

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:AddTriggerPackageToSubscriptionPackagesResponse =>
      xmlns:ns2="http://api.dcp.ericsson.net/TriggerPackageManagement">
        <SubscriptionPackageTriggerPackageLinkResult>
          <subscriptionPackageName>C90000040-TSAB-SP01</subscriptionPackageName>
          <resultCode>SUCCESS</resultCode>
          <serviceRequestId>REQ000000005649</serviceRequestId>
          <requestId>REQ00000000284</requestId>
        </SubscriptionPackageTriggerPackageLinkResult>
      </ns2:AddTriggerPackageToSubscriptionPackagesResponse>
    </env:Body>
  </env:Envelope>
```

Example 118 AddTriggerPackageToSubscriptionPackages Response

Errors

No service-specific error codes are available.

4.12.8 DeleteTriggerPackageFromSubscriptionPackages

With this operation, it is possible to remove a trigger package from the specified subscription packages.



Request

The request contains the elements shown in Table 131. For an example, see Example 119.

Table 131 DeleteTriggerPackageFromSubscriptionPackages Request Elements

Element	Description
customerNo	A string containing the customer number of the related organization. See Section 3.4.7 on page 11 for more information.
subscriptionPackageNameList	It includes one or more subscriptionPackageName elements.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:trig="http://api.dcp.ericsson.net/TriggerPackageManagement">
    <soapenv:Header/>
    <soapenv:Body>
      <trig>DeleteTriggerPackageFromSubscriptionPackagesRequest>
        <subscriptionPackageNameList>
          <!--1 or more repetitions:-->
          <subscriptionPackageName>C90000040-TSAB-SP01</subscriptionPackageName>
        </subscriptionPackageNameList>
      </trig>DeleteTriggerPackageFromSubscriptionPackagesRequest>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 119 DeleteTriggerPackageFromSubscriptionPackages Request

Response

The response contains the element shown in Table 132. For an example, see Example 120.

Table 132 DeleteTriggerPackageFromSubscriptionPackages Response Elements

Element	Description
subscriptionPackageName	The name of the subscription package.
resultCode	The status of the request.
serviceRequestId	Optional. The Service Request ID of the issued request.
requestId	Optional. The Request ID of the issued request.

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:trig="http://api.dcp.ericsson.net/TriggerPackageManagement">
    <env:Header/>
    <env:Body>
      <ns2>DeleteTriggerPackageFromSubscriptionPackageResponse =>
        xmlns:ns2="http://api.dcp.ericsson.net/TriggerPackageManagement">
          <SubscriptionPackageTriggerPackageLinkResult>
            <subscriptionPackageName>C90000040-TSAB-SP01</subscriptionPackageName>
            <resultCode>SUCCESS</resultCode>
            <serviceRequestId>REQ000000005660</serviceRequestId>
          </SubscriptionPackageTriggerPackageLinkResult>
        </ns2>DeleteTriggerPackageFromSubscriptionPackageResponse>
      </env:Body>
    </env:Envelope>
```

Example 120 DeleteTriggerPackageFromSubscriptionPackages Response



Errors

No service-specific error codes are available.

4.12.9 QueryTriggers

With this operation, it is possible to query the available triggers. A list of all triggers are shown in Table 134.

Request

The request requires no additional input except authentication. For an example, see Example 121.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:trig="http://api.dcp.ericsson.net/TriggerPackageManagement">
    <soapenv:Header/>
    <soapenv:Body>
      <trig:QueryTriggersRequest>
      </trig:QueryTriggersRequest>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 121 QueryTriggers Request

Response

GPRS uplink and downlink triggers have been combined into one trigger for the total amount of traffic. Trigger numbers 7 and 9 are no longer supported in legacy operations.

The response contains a `triggerPackage` with the elements shown in Table 133.

The response contains the element shown in Table 133. For an example, see Example 122.



Table 133 QueryTriggers Response Element

Element	Description
triggers	<p>The possible trigger elements as follows:</p> <ul style="list-style-type: none">• triggerNumber The number of the trigger. All triggers and their numbers are listed in Table 134.• triggerName Optional. The name of the trigger.• timeFrameAllowed Is time frame allowed or not. The value is true or false.• alertThresholdValueAllowed Is alert threshold allowed or not. The value is true or false.• actionThresholdAllowed Is action threshold allowed or not. The value is true or false..• thresholdUnit Optional. Unit of the action or alert threshold in bytes, megabytes, or pcs.• triggerType Type of the trigger, overrun or underrun.• lastChange Optional. The date when trigger package configuration was updated.• minTimeFrameValue Optional. Minimum time frame value.• maxTimeFrameValue Optional. Maximum time frame value.• minValue Optional. Minimum threshold value.• maxValue Optional. Maximum threshold value.

Table 134 Triggers

Trigger Number	Trigger Description
1	No location update
2	Roaming not allowed
5	PDP Context Activation attempts per timeframe
6	GPRS Short Term Over run
8	GPRS Short term under run
10	SMS MO over run per timeframe
11	SMS MO under run per timeframe
12	SMS MT over run per timeframe
13	SMS MT under run per timeframe
14	Net activity under run per timeframe



```

<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:QueryTriggersResponse xmlns:ns2="http://api.dcp.ericsson.net/TriggerPackageManagement">
      <triggers>
        <trigger>
          <triggerNumber>1</triggerNumber>
          <triggerName>No location update</triggerName>
          <timeFrameAllowed>true</timeFrameAllowed>
          <alertThresholdValueAllowed>false</alertThresholdValueAllowed>
          <actionThresholdAllowed>false</actionThresholdAllowed>
          <triggerType>Underrun</triggerType>
          <lastChange>2014-10-28Z</lastChange>
          <minTimeFrameValue>1</minTimeFrameValue>
          <maxTimeFrameValue>48</maxTimeFrameValue>
          <minValue>1</minValue>
          <maxValue>4000000000</maxValue>
        </trigger>
        <trigger>
          <triggerNumber>2</triggerNumber>
          <triggerName>Roaming not allowed</triggerName>
          <timeFrameAllowed>false</timeFrameAllowed>
          <alertThresholdValueAllowed>false</alertThresholdValueAllowed>
          <actionThresholdAllowed>false</actionThresholdAllowed>
          <triggerType>Ovrrun</triggerType>
          <lastChange>2014-10-28Z</lastChange>
          <minTimeFrameValue>1</minTimeFrameValue>
          <maxTimeFrameValue>48</maxTimeFrameValue>
          <minValue>1</minValue>
          <maxValue>4000000000</maxValue>
        </trigger>
        <trigger>
          <triggerNumber>5</triggerNumber>
          <triggerName>PDP Context Activation attempts per timeframe</triggerName>
          <timeFrameAllowed>true</timeFrameAllowed>
          <alertThresholdValueAllowed>true</alertThresholdValueAllowed>
          <actionThresholdAllowed>false</actionThresholdAllowed>
          <thresholdUnit>pcs</thresholdUnit>
          <triggerType>Ovrrun</triggerType>
          <lastChange>2014-10-28Z</lastChange>
          <minTimeFrameValue>1</minTimeFrameValue>
          <maxTimeFrameValue>48</maxTimeFrameValue>
          <minValue>1</minValue>
          <maxValue>4000000000</maxValue>
        </trigger>
        <trigger>
          <triggerNumber>6</triggerNumber>
          <triggerName>GPRS Short term over run per timeframe</triggerName>
          <timeFrameAllowed>true</timeFrameAllowed>
          <alertThresholdValueAllowed>true</alertThresholdValueAllowed>
          <actionThresholdAllowed>true</actionThresholdAllowed>
          <thresholdUnit>bytes</thresholdUnit>
          <triggerType>Ovrrun</triggerType>
          <lastChange>2014-10-28Z</lastChange>
          <minTimeFrameValue>1</minTimeFrameValue>
          <maxTimeFrameValue>48</maxTimeFrameValue>
          <minValue>1</minValue>
          <maxValue>4000000000</maxValue>
        </trigger>
      </triggers>
    </ns2:QueryTriggersResponse>
  </env:Body>
</env:Envelope>

```

Example 122 QueryTriggers Response

Errors

No service-specific error codes are available.



4.12.10 CreateTriggerPackage_v2

With this operation, it is possible to create a new trigger package. The V2 versions of the **TriggerPackageManagement** operations support selectable time unit and must be used with long-term triggers.

Request

The request contains the elements shown in Table 135. For an example, see Example 123.

Table 135 CreateTriggerPackage_v2 Request Elements

Element	Description
customerNo	A string containing the customer number of the related organization. See Section 3.4.7 on page 11 for more information.
name	Optional. The name of the trigger package.
description	Optional. The description of the trigger package.
triggerMetrics	Optional. The triggerMetric elements for each trigger included in the trigger package.
triggerMetric	<p>The properties of each trigger as follows:</p> <ul style="list-style-type: none">• triggerNumber The number of the trigger. All triggers and their numbers are listed in Table 142.• triggerName Optional. The name of the trigger.• timeFrame Optional. Time frame in hours (1–48), weeks (1–4), or month (1) for the threshold.• timeFrameUnit Optional. Time frame unit: hours, weeks, or month.• alertActive Optional. Alert trigger active or not (true or false).• alertValue Optional. Alert threshold for the defined time frame (bytes or pieces depending on trigger).• actionActive Optional. Action trigger active or not (true or false).• actionValue Optional. Action threshold for the defined time frame (bytes or pieces depending on trigger).• lastChange Optional. The date when trigger package configuration was updated.



```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:trig="http://api.dcp.ericsson.net/TriggerPackageManagement">
    <soapenv:Header/>
    <soapenv:Body>
      <trig:TriggerPackageCreateRequest_v2>
        <customerNo>00000001</customerNo>
        <name>Test Pack</name>
        <description>Test Pack Description</description>
        <triggerMetrics>
          <triggerMetric>
            <triggerNumber>9</triggerNumber>
            <triggerName>GPRS Short term over run per timeframe</triggerName>
            <timeFrame>1</timeFrame>
            <timeFrameUnit>month</timeFrameUnit>
            <alertActive>false</alertActive>
            <alertValue>123</alertValue>
            <actionActive>false</actionActive>
            <actionValue></actionValue>
          </triggerMetric>
        </triggerMetrics>
      </trig:TriggerPackageCreateRequest_v2>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 123 CreateTriggerPackage_v2 Request

Response

The response contains a triggerPackage with the elements shown in Table 136. For an example, see Example 124.

Table 136 CreateTriggerPackage_v2 Response Elements

Element	Description
customerNo	A string containing the customer number of the related organization.
packageNo	The number of the trigger package.
name	The name of the trigger package.
description	Optional. The description of the trigger package.
lastChange	Optional. The date when the trigger package configuration was updated.
triggerMetrics	Optional. The triggerMetric elements for each trigger included in the trigger package.
triggerMetric	The properties of each trigger as described in Table 135

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:TriggerPackageCreateResponse_v2 =>
      xmlns:ns2="http://api.dcp.ericsson.net/TriggerPackageManagement">
        <triggerPackage>
          <customerNo>00000001</customerNo>
          <packageNo>11</packageNo>
          <name>Activity Package</name>
          <description>Pack description</description>
          <triggerMetrics>
            <triggerMetric>
              <triggerNumber>1</triggerNumber>
              <triggerName>No location update</triggerName>
              <alertActive>false</alertActive>
              <alertValue></alertValue>
              <actionActive>false</actionActive>
              <actionValue></actionValue>
            </triggerMetric>
          </triggerMetrics>
        </triggerPackage>
      </ns2:TriggerPackageCreateResponse_v2>
    </env:Body>
  </env:Envelope>
```



```
</triggerMetric>
<triggerMetric>
  <triggerNumber>2</triggerNumber>
  <triggerName>Roaming not allowed</triggerName>
  <alertActive>>false</alertActive>
  <alertValue></alertValue>
  <actionActive>>false</actionActive>
  <actionValue></actionValue>
</triggerMetric>
<triggerMetric>
  <triggerNumber>5</triggerNumber>
  <triggerName>PDP Context Activation attempts per timeframe</triggerName>
  <alertActive>>false</alertActive>
  <alertValue></alertValue>
  <actionActive>>false</actionActive>
  <actionValue></actionValue>
</triggerMetric>
<triggerMetric>
  <triggerNumber>6</triggerNumber>
  <triggerName>GPRS Short Term Over run</triggerName>
  <alertActive>>false</alertActive>
  <alertValue></alertValue>
  <actionActive>>false</actionActive>
  <actionValue></actionValue>
</triggerMetric>
<triggerMetric>
  <triggerNumber>7</triggerNumber>
  <triggerName>GPRS Long term over run</triggerName>
  <alertActive>>false</alertActive>
  <alertValue></alertValue>
  <actionActive>>false</actionActive>
  <actionValue></actionValue>
</triggerMetric>
<triggerMetric>
  <triggerNumber>8</triggerNumber>
  <triggerName>GPRS Short term under run</triggerName>
  <alertActive>>false</alertActive>
  <alertValue></alertValue>
  <actionActive>>false</actionActive>
  <actionValue></actionValue>
</triggerMetric>
<triggerMetric>
  <triggerNumber>9</triggerNumber>
  <triggerName>SMS MO Long term over run per timeframe</triggerName>
  <timeFrame>1</timeFrame>
  <timeFrameUnit>month</timeFrameUnit>
  <alertActive>>true</alertActive>
  <alertValue>1</alertValue>
  <actionActive>>true</actionActive>
  <actionValue>100</actionValue>
  <lastChange>2017-07-24Z</lastChange>
</triggerMetric>
<triggerMetric>
  <triggerNumber>10</triggerNumber>
  <triggerName>SMS MO over run per timeframe</triggerName>
  <alertActive>>false</alertActive>
  <alertValue></alertValue>
  <actionActive>>false</actionActive>
  <actionValue></actionValue>
</triggerMetric>
<triggerMetric>
  <triggerNumber>11</triggerNumber>
  <triggerName>SMS MO under run per timeframe</triggerName>
  <alertActive>>false</alertActive>
  <alertValue></alertValue>
  <actionActive>>false</actionActive>
  <actionValue></actionValue>
</triggerMetric>
<triggerMetric>
  <triggerNumber>12</triggerNumber>
  <triggerName>SMS MT over run per timeframe</triggerName>
  <alertActive>>false</alertActive>
  <alertValue></alertValue>
  <actionActive>>false</actionActive>
  <actionValue></actionValue>
</triggerMetric>
```



```

<triggerMetric>
  <triggerNumber>13</triggerNumber>
  <triggerName>SMS MT under run per timeframe</triggerName>
  <alertActive>>false</alertActive>
  <alertValue></alertValue>
  <actionActive>>false</actionActive>
  <actionValue></actionValue>
</triggerMetric>
<triggerMetric>
  <triggerNumber>14</triggerNumber>
  <triggerName>Net activity under run per timeframe</triggerName>
  <alertActive>>false</alertActive>
  <alertValue></alertValue>
  <actionActive>>false</actionActive>
  <actionValue></actionValue>
</triggerMetric>
<triggerMetric>
  <triggerNumber>15</triggerNumber>
  <triggerName>GPRS Long term Network Group 1</triggerName>
  <alertActive>>false</alertActive>
  <alertValue></alertValue>
  <actionActive>>false</actionActive>
  <actionValue></actionValue>
</triggerMetric>
<triggerMetric>
  <triggerNumber>16</triggerNumber>
  <triggerName>GPRS Long term Network Group 2</triggerName>
  <alertActive>>false</alertActive>
  <alertValue></alertValue>
  <actionActive>>false</actionActive>
  <actionValue></actionValue>
</triggerMetric>
<triggerMetric>
  <triggerNumber>17</triggerNumber>
  <triggerName>GPRS Long term other networks</triggerName>
  <alertActive>>false</alertActive>
  <alertValue></alertValue>
  <actionActive>>false</actionActive>
  <actionValue></actionValue>
</triggerMetric>
<triggerMetric>
  <triggerNumber>18</triggerNumber>
  <triggerName>SMS MO Long term Network Group 1</triggerName>
  <alertActive>>false</alertActive>
  <alertValue></alertValue>
  <actionActive>>false</actionActive>
  <actionValue></actionValue>
</triggerMetric>
<triggerMetric>
  <triggerNumber>19</triggerNumber>
  <triggerName>SMS MO Long term Network Group 2</triggerName>
  <alertActive>>false</alertActive>
  <alertValue></alertValue>
  <actionActive>>false</actionActive>
  <actionValue></actionValue>
</triggerMetric>
<triggerMetric>
  <triggerNumber>20</triggerNumber>
  <triggerName>SMS MO Long term other networks</triggerName>
  <alertActive>>false</alertActive>
  <alertValue></alertValue>
  <actionActive>>false</actionActive>
  <actionValue></actionValue>
</triggerMetric>
</triggerMetrics>
</triggerPackage>
</ns2:TriggerPackageCreateResponse_v2>
</env:Body>
</env:Envelope>

```

Example 124 CreateTriggerPackage_v2 Response



Errors

No service-specific error codes are available.

4.12.11 ChangeTriggerPackage_v2

With this operation, it is possible to change a trigger package. The V2 versions of the **TriggerPackageManagement** operations support selectable time unit and must be used with long-term triggers.

Request

The request contains the elements shown in Table 137. For an example, see Example 125.

Table 137 ChangeTriggerPackage_v2 Request Elements

Element	Description
customerNo	A string containing the customer number of the related organization. See Section 3.4.7 on page 11 for more information.
packageNo	The number of the trigger package.
name	The name of the trigger package.
description	Optional. The description of the trigger package.
lastChange	Optional. The date when the trigger package configuration was updated.
triggerMetrics	Optional. The triggerMetric elements for each trigger included in the trigger package.
triggerMetric	The properties of each trigger as described in Table 135

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:trig="http://api.dcp.ericsson.net/TriggerPackageManagement">
    <soapenv:Header/>
    <soapenv:Body>
      <trig:TriggerPackageChangeRequest_v2>
        <triggerPackage>
          <customerNo>00000001</customerNo>
          <packageNo>11</packageNo>
          <name>Data pack</name>
          <description>Data limit alert</description>
          <triggerMetrics>
            <triggerMetric>
              <triggerNumber>6</triggerNumber>
              <triggerName>GPRS Short term over run per timeframe</triggerName>
              <timeFrame>1</timeFrame>
              <timeFrameUnit>hour</timeFrameUnit>
              <alertActive>false</alertActive>
              <alertValue></alertValue>
              <actionActive>false</actionActive>
              <actionValue></actionValue>
            </triggerMetric>
          </triggerMetrics>
        </triggerPackage>
      </trig:TriggerPackageChangeRequest_v2>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 125 ChangeTriggerPackage_v2 Request



Response

The response contains a `triggerPackage` with the elements shown in Table 138. For an example, see Example 126.

Table 138 ChangeTriggerPackage_v2 Response Element

Element	Description
customerNo	A string containing the customer number of the related organization.
packageNo	The number of the trigger package.
name	The name of the trigger package.
description	Optional. The description of the trigger package.
lastChange	Optional. The date when the trigger package configuration was updated.
triggerMetrics	Optional. The <code>triggerMetric</code> elements for each trigger included in the trigger package.
triggerMetric	The properties of each trigger as described in Table 135

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:TriggerPackageChangeResponse_v2 =>
      xmlns:ns2="http://api.dcp.ericsson.net/TriggerPackageManagement">
        <triggerPackage>
          <customerNo>00000001</customerNo>
          <packageNo>11</packageNo>
          <name>Activity Package</name>
          <description>Pack description</description>
          <triggerMetrics>
            <triggerMetric>
              <triggerNumber>1</triggerNumber>
              <triggerName>No location update</triggerName>
              <alertActive>>false</alertActive>
              <alertValue></alertValue>
              <actionActive>>false</actionActive>
              <actionValue></actionValue>
            </triggerMetric>
            <triggerMetric>
              <triggerNumber>2</triggerNumber>
              <triggerName>Roaming not allowed</triggerName>
              <alertActive>>false</alertActive>
              <alertValue></alertValue>
              <actionActive>>false</actionActive>
              <actionValue></actionValue>
            </triggerMetric>
            <triggerMetric>
              <triggerNumber>5</triggerNumber>
              <triggerName>PDP Context Activation attempts per timeframe</triggerName>
              <alertActive>>false</alertActive>
              <alertValue></alertValue>
              <actionActive>>false</actionActive>
              <actionValue></actionValue>
            </triggerMetric>
            <triggerMetric>
              <triggerNumber>6</triggerNumber>
              <triggerName>GPRS Short term over run per timeframe</triggerName>
              <alertActive>>false</alertActive>
              <alertValue></alertValue>
              <actionActive>>false</actionActive>
              <actionValue></actionValue>
            </triggerMetric>
            <triggerMetric>
              <triggerNumber>7</triggerNumber>
              <triggerName>GPRS Long term over run per timeframe</triggerName>
              <alertActive>>false</alertActive>
            </triggerMetric>
          </triggerMetrics>
        </triggerPackage>
      </ns2:TriggerPackageChangeResponse_v2>
    </env:Body>
  </env:Envelope>
```



```
<alertValue></alertValue>
<actionActive>>false</actionActive>
<actionValue></actionValue>
</triggerMetric>
<triggerMetric>
  <triggerNumber>8</triggerNumber>
  <triggerName>GPRS Short term under run per timeframe</triggerName>
  <alertActive>>false</alertActive>
  <alertValue></alertValue>
  <actionActive>>false</actionActive>
  <actionValue></actionValue>
</triggerMetric>
<triggerMetric>
  <triggerNumber>9</triggerNumber>
  <triggerName>SMS MO Long term over run per timeframe</triggerName>
  <timeFrame>3</timeFrame>
  <timeFrameUnit>week</timeFrameUnit>
  <alertActive>>true</alertActive>
  <alertValue>100</alertValue>
  <actionActive>>false</actionActive>
  <actionValue></actionValue>
  <lastChange>2017-07-24Z</lastChange>
</triggerMetric>
<triggerMetric>
  <triggerNumber>10</triggerNumber>
  <triggerName>SMS MO over run per timeframe</triggerName>
  <alertActive>>false</alertActive>
  <alertValue></alertValue>
  <actionActive>>false</actionActive>
  <actionValue></actionValue>
</triggerMetric>
<triggerMetric>
  <triggerNumber>11</triggerNumber>
  <triggerName>SMS MO under run per timeframe</triggerName>
  <alertActive>>false</alertActive>
  <alertValue></alertValue>
  <actionActive>>false</actionActive>
  <actionValue></actionValue>
</triggerMetric>
<triggerMetric>
  <triggerNumber>12</triggerNumber>
  <triggerName>SMS MT over run per timeframe</triggerName>
  <alertActive>>false</alertActive>
  <alertValue></alertValue>
  <actionActive>>false</actionActive>
  <actionValue></actionValue>
</triggerMetric>
<triggerMetric>
  <triggerNumber>13</triggerNumber>
  <triggerName>SMS MT under run per timeframe</triggerName>
  <alertActive>>false</alertActive>
  <alertValue></alertValue>
  <actionActive>>false</actionActive>
  <actionValue></actionValue>
</triggerMetric>
<triggerMetric>
  <triggerNumber>14</triggerNumber>
  <triggerName>Net activity under run per timeframe</triggerName>
  <alertActive>>false</alertActive>
  <alertValue></alertValue>
  <actionActive>>false</actionActive>
  <actionValue></actionValue>
</triggerMetric>
<triggerMetric>
  <triggerNumber>15</triggerNumber>
  <triggerName>GPRS Long term Network Group 1</triggerName>
  <alertActive>>false</alertActive>
  <alertValue></alertValue>
  <actionActive>>false</actionActive>
  <actionValue></actionValue>
</triggerMetric>
<triggerMetric>
  <triggerNumber>16</triggerNumber>
  <triggerName>GPRS Long term Network Group 2</triggerName>
  <alertActive>>false</alertActive>
  <alertValue></alertValue>
```



```

        <actionActive>false</actionActive>
        <actionValue></actionValue>
    </triggerMetric>
    <triggerMetric>
        <triggerNumber>17</triggerNumber>
        <triggerName>GPRS Long term other networks</triggerName>
        <alertActive>false</alertActive>
        <alertValue></alertValue>
        <actionActive>false</actionActive>
        <actionValue></actionValue>
    </triggerMetric>
    <triggerMetric>
        <triggerNumber>18</triggerNumber>
        <triggerName>SMS MO Long term Network Group 1</triggerName>
        <alertActive>false</alertActive>
        <alertValue></alertValue>
        <actionActive>false</actionActive>
        <actionValue></actionValue>
    </triggerMetric>
    <triggerMetric>
        <triggerNumber>19</triggerNumber>
        <triggerName>SMS MO Long term Network Group 2</triggerName>
        <alertActive>false</alertActive>
        <alertValue></alertValue>
        <actionActive>false</actionActive>
        <actionValue></actionValue>
    </triggerMetric>
    <triggerMetric>
        <triggerNumber>20</triggerNumber>
        <triggerName>SMS MO Long term other networks</triggerName>
        <alertActive>false</alertActive>
        <alertValue></alertValue>
        <actionActive>false</actionActive>
        <actionValue></actionValue>
    </triggerMetric>
</triggerMetrics>
</triggerPackage>
</ns2:TriggerPackageChangeResponse_v2>
</env:Body>
</env:Envelope>

```

Example 126 ChangeTriggerPackage_v2 Response

Errors

No service-specific error codes are available.

4.12.12 QueryTriggerPackages_v2

With this operation, it is possible to query a list of trigger packages. The V2 versions of the **TriggerPackageManagement** operations support selectable time unit and must be used with long-term triggers.

Request

The request contains the elements shown in Table 139. For an example, see Example 127.

Table 139 QueryTriggerPackages_v2 Request Element

Element	Description
customerNo	A string containing the customer number of the related organization. See Section 3.4.7 on page 11 for more information.



```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:trig="http://api.dcp.ericsson.net/TriggerPackageManagement">
    <soapenv:Header/>
    <soapenv:Body>
      <trig:QueryTriggerPackagesRequest_v2>
        <customerNo>00000001</customerNo>
      </trig:QueryTriggerPackagesRequest_v2>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 127 QueryTriggerPackages_v2 Request

Response

The response contains a `triggerPackage` with the elements shown in Table 140. For an example, see Example 128.

Table 140 QueryTriggerPackages_v2 Response Element

Element	Description
customerNo	A string containing the customer number of the related organization.
packageNo	The number of the trigger package.
name	The name of the trigger package.
description	Optional. The description of the trigger package.
lastChange	Optional. The date when trigger package configuration was updated.
triggerMetrics	Optional. The <code>triggerMetric</code> elements for each trigger included in the trigger package.
triggerMetric	The properties of each trigger as described in Table 135

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:QueryTriggerPackagesResponse_v2 =>
      xmlns:ns2="http://api.dcp.ericsson.net/TriggerPackageManagement">
        <triggerPackages>
          <triggerPackage>
            <customerNo>00000001</customerNo>
            <packageNo>11</packageNo>
            <name>Activity Package</name>
            <description>Pack description</description>
            <triggerMetrics>
              <triggerMetric>
                <triggerNumber>1</triggerNumber>
                <triggerName>No location update</triggerName>
                <alertActive>false</alertActive>
                <alertValue></alertValue>
                <actionActive>false</actionActive>
                <actionValue></actionValue>
              </triggerMetric>
              <triggerMetric>
                <triggerNumber>2</triggerNumber>
                <triggerName>Roaming not allowed</triggerName>
                <alertActive>false</alertActive>
                <alertValue></alertValue>
                <actionActive>false</actionActive>
                <actionValue></actionValue>
              </triggerMetric>
              <triggerMetric>
                <triggerNumber>5</triggerNumber>
                <triggerName>PDP Context Activation attempts per timeframe</triggerName>
                <alertActive>false</alertActive>
              </triggerMetric>
            </triggerMetrics>
          </triggerPackage>
        </triggerPackages>
      </ns2:QueryTriggerPackagesResponse_v2>
    </env:Body>
  </env:Envelope>
```



```

        <alertValue></alertValue>
        <actionActive>>false</actionActive>
        <actionValue></actionValue>
    </triggerMetric>
    <triggerMetric>
        <triggerNumber>6</triggerNumber>
        <triggerName>GPRS Short term over run per timeframe</triggerName>
        <alertActive>>false</alertActive>
        <alertValue></alertValue>
        <actionActive>>false</actionActive>
        <actionValue></actionValue>
    </triggerMetric>
    <triggerMetric>
        <triggerNumber>7</triggerNumber>
        <triggerName>GPRS Long term over run per timeframe</triggerName>
        <alertActive>>false</alertActive>
        <alertValue></alertValue>
        <actionActive>>false</actionActive>
        <actionValue></actionValue>
    </triggerMetric>
    <triggerMetric>
        <triggerNumber>8</triggerNumber>
        <triggerName>GPRS Short term under run per timeframe</triggerName>
        <alertActive>>false</alertActive>
        <alertValue></alertValue>
        <actionActive>>false</actionActive>
        <actionValue></actionValue>
    </triggerMetric>
    <triggerMetric>
        <triggerNumber>9</triggerNumber>
        <triggerName>SMS MO Long term over run per timeframe</triggerName>
        <alertActive>>false</alertActive>
        <alertValue></alertValue>
        <actionActive>>false</actionActive>
        <actionValue></actionValue>
    </triggerMetric>
    <triggerMetric>
        <triggerNumber>10</triggerNumber>
        <triggerName>SMS MO over run per timeframe</triggerName>
        <alertActive>>false</alertActive>
        <alertValue></alertValue>
        <actionActive>>false</actionActive>
        <actionValue></actionValue>
    </triggerMetric>
    <triggerMetric>
        <triggerNumber>11</triggerNumber>
        <triggerName>SMS MO under run per timeframe</triggerName>
        <alertActive>>false</alertActive>
        <alertValue></alertValue>
        <actionActive>>false</actionActive>
        <actionValue></actionValue>
    </triggerMetric>
    <triggerMetric>
        <triggerNumber>12</triggerNumber>
        <triggerName>SMS MT over run per timeframe</triggerName>
        <alertActive>>false</alertActive>
        <alertValue></alertValue>
        <actionActive>>false</actionActive>
        <actionValue></actionValue>
    </triggerMetric>
    <triggerMetric>
        <triggerNumber>13</triggerNumber>
        <triggerName>SMS MT under run per timeframe</triggerName>
        <alertActive>>false</alertActive>
        <alertValue></alertValue>
        <actionActive>>false</actionActive>
        <actionValue></actionValue>
    </triggerMetric>
    <triggerMetric>
        <triggerNumber>14</triggerNumber>
        <triggerName>Net activity under run per timeframe</triggerName>
        <alertActive>>false</alertActive>
        <alertValue></alertValue>
        <actionActive>>false</actionActive>
        <actionValue></actionValue>
    </triggerMetric>

```



```
<triggerMetric>
  <triggerNumber>15</triggerNumber>
  <triggerName>GPRS Long term Network Group 1</triggerName>
  <alertActive>>false</alertActive>
  <alertValue></alertValue>
  <actionActive>>false</actionActive>
  <actionValue></actionValue>
</triggerMetric>
<triggerMetric>
  <triggerNumber>16</triggerNumber>
  <triggerName>GPRS Long term Network Group 2</triggerName>
  <alertActive>>false</alertActive>
  <alertValue></alertValue>
  <actionActive>>false</actionActive>
  <actionValue></actionValue>
</triggerMetric>
<triggerMetric>
  <triggerNumber>17</triggerNumber>
  <triggerName>GPRS Long term other networks</triggerName>
  <alertActive>>false</alertActive>
  <alertValue></alertValue>
  <actionActive>>false</actionActive>
  <actionValue></actionValue>
</triggerMetric>
<triggerMetric>
  <triggerNumber>18</triggerNumber>
  <triggerName>SMS MO Long term Network Group 1</triggerName>
  <alertActive>>false</alertActive>
  <alertValue></alertValue>
  <actionActive>>false</actionActive>
  <actionValue></actionValue>
</triggerMetric>
<triggerMetric>
  <triggerNumber>19</triggerNumber>
  <triggerName>SMS MO Long term Network Group 2</triggerName>
  <alertActive>>false</alertActive>
  <alertValue></alertValue>
  <actionActive>>false</actionActive>
  <actionValue></actionValue>
</triggerMetric>
<triggerMetric>
  <triggerNumber>20</triggerNumber>
  <triggerName>SMS MO Long term other networks</triggerName>
  <alertActive>>false</alertActive>
  <alertValue></alertValue>
  <actionActive>>false</actionActive>
  <actionValue></actionValue>
</triggerMetric>
</triggerMetrics>
</triggerPackage>
</triggerPackages>
</ns2:QueryTriggerPackagesResponse_v2>
</env:Body>
</env:Envelope>
```

Example 128 QueryTriggerPackages_v2 Response

Errors

No service-specific error codes are available.

4.12.13 QueryTriggers_v2

With this operation, it is possible to query available triggers. The V2 versions of the **TriggerPackageManagement** operations support selectable time unit and must be used with long-term triggers.



Request

The request requires no additional input except authentication. For an example, see Example 129.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
xmlns:trig="http://api.dcp.ericsson.net/TriggerPackageManagement">
  <soapenv:Header/>
  <soapenv:Body>
    <trig:QueryTriggersRequest_v2>
    </trig:QueryTriggersRequest_v2>
  </soapenv:Body>
</soapenv:Envelope>
```

Example 129 QueryTriggers_v2 Request

Response

The response contains a triggerPackage with the elements shown in Table 141. For an example, see Example 130.

Table 141 QueryTriggers_v2 Response Element

Element	Description
triggers	<p>The possible trigger elements as follows:</p> <ul style="list-style-type: none"> • triggerNumber The number of the trigger. All triggers and their numbers are listed in Table 142. • triggerName Optional. The name of the trigger. • timeFrameAllowed Is time frame allowed or not. The value is true or false. • alertThresholdValueAllowed Is alert threshold allowed or not. The value is true or false. • actionThresholdAllowed Is action threshold allowed or not. The value is true or false. • thresholdUnit Optional. Unit of the action or alert threshold in bytes, megabytes, or pcs. • triggerType Type of the trigger, overrun or underrun • lastChange Optional. The date when trigger package configuration was updated. • timeFrameRanges Optional. Possible ranges of the time frame are shown in Table 143. • minValue Optional. Minimum threshold value. • maxValue Optional. Maximum threshold value.

All triggers are listed in Table 142.



Table 142 Triggers_V2

Trigger Number	Trigger Description
1	No location update
2	Roaming not allowed
5	PDP Context Activation attempts per timeframe
6	GPRS Short Term Over run
7	GPRS Long term over run
8	GPRS Short term under run
9	SMS MO Long term over run
10	SMS MO over run per timeframe
11	SMS MO under run per timeframe
12	SMS MT over run per timeframe
13	SMS MT under run per timeframe
14	Net activity under run per timeframe
15	GPRS Long-term Network Group 1
16	GPRS Long-term Network Group 2
17	GPRS Long-term other networks
18	SMS MO Long-term Network Group 1
19	SMS MO Long-term Network Group 2
20	SMS MO Long-term other networks

The possible ranges of the time frame are shown in Table 143.

Table 143 TimeFrameRange

Element	Description
minTimeFrameValue	Minimum time frame value.
maxTimeFrameValue	Maximum time frame value.
timeFrameUnit	Time frame Unit value. The possible values are hour, month, and week.

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:QueryTriggersResponse_v2 xmlns:ns2="http://api.dcp.ericsson.net/TriggerPackageManagement">
      <triggers>
        <triggerNumber>1</triggerNumber>
        <triggerName>No location update</triggerName>
        <timeFrameAllowed>true</timeFrameAllowed>
        <alertThresholdValueAllowed>false</alertThresholdValueAllowed>
        <actionThresholdAllowed>false</actionThresholdAllowed>
        <triggerType>Underrun</triggerType>
        <lastChange>2014-10-28Z</lastChange>
        <timeFrameRanges>
          <timeFrameRange>
            <minTimeFrameValue>1</minTimeFrameValue>
            <maxTimeFrameValue>48</maxTimeFrameValue>
            <timeFrameUnit>hour</timeFrameUnit>
          </timeFrameRange>
        </timeFrameRanges>
        <minValue>1</minValue>
      </triggers>
    </ns2:QueryTriggersResponse_v2>
  </env:Body>
</env:Envelope>
```




```

    <maxValue>9999999999</maxValue>
  </triggers>
  <triggers>
    <triggerNumber>2</triggerNumber>
    <triggerName>Roaming not allowed</triggerName>
    <timeFrameAllowed>false</timeFrameAllowed>
    <alertThresholdValueAllowed>false</alertThresholdValueAllowed>
    <actionThresholdAllowed>false</actionThresholdAllowed>
    <triggerType>Overrun</triggerType>
    <lastChange>2009-10-28Z</lastChange>
    <timeFrameRanges>
      <timeFrameRange>
        <minTimeFrameValue>1</minTimeFrameValue>
        <maxTimeFrameValue>48</maxTimeFrameValue>
        <timeFrameUnit>hour</timeFrameUnit>
      </timeFrameRange>
    </timeFrameRanges>
    <minValue>1</minValue>
    <maxValue>9999999999</maxValue>
  </triggers>
  <triggers>
    <triggerNumber>5</triggerNumber>
    <triggerName>PDP Context Activation attempts per timeframe</triggerName>
    <timeFrameAllowed>true</timeFrameAllowed>
    <alertThresholdValueAllowed>true</alertThresholdValueAllowed>
    <actionThresholdAllowed>false</actionThresholdAllowed>
    <thresholdUnit>pcs</thresholdUnit>
    <triggerType>Overrun</triggerType>
    <lastChange>2009-10-28Z</lastChange>
    <timeFrameRanges>
      <timeFrameRange>
        <minTimeFrameValue>1</minTimeFrameValue>
        <maxTimeFrameValue>48</maxTimeFrameValue>
        <timeFrameUnit>hour</timeFrameUnit>
      </timeFrameRange>
    </timeFrameRanges>
    <minValue>1</minValue>
    <maxValue>9999999999</maxValue>
  </triggers>
  <triggers>
    <triggerNumber>6</triggerNumber>
    <triggerName>GPRS Short term over run per timeframe</triggerName>
    <timeFrameAllowed>true</timeFrameAllowed>
    <alertThresholdValueAllowed>true</alertThresholdValueAllowed>
    <actionThresholdAllowed>true</actionThresholdAllowed>
    <thresholdUnit>bytes</thresholdUnit>
    <triggerType>Overrun</triggerType>
    <lastChange>2009-10-28Z</lastChange>
    <timeFrameRanges>
      <timeFrameRange>
        <minTimeFrameValue>1</minTimeFrameValue>
        <maxTimeFrameValue>48</maxTimeFrameValue>
        <timeFrameUnit>hour</timeFrameUnit>
      </timeFrameRange>
    </timeFrameRanges>
    <minValue>1</minValue>
    <maxValue>9999999999</maxValue>
  </triggers>
  <triggers>
    <triggerNumber>7</triggerNumber>
    <triggerName>GPRS Long term over run per timeframe</triggerName>
    <timeFrameAllowed>true</timeFrameAllowed>
    <alertThresholdValueAllowed>true</alertThresholdValueAllowed>
    <actionThresholdAllowed>true</actionThresholdAllowed>
    <thresholdUnit>bytes</thresholdUnit>
    <triggerType>Overrun</triggerType>
    <lastChange>2009-10-28Z</lastChange>
    <timeFrameRanges>
      <timeFrameRange>
        <minTimeFrameValue>1</minTimeFrameValue>
        <maxTimeFrameValue>4</maxTimeFrameValue>
        <timeFrameUnit>week</timeFrameUnit>
      </timeFrameRange>
      <timeFrameRange>
        <minTimeFrameValue>1</minTimeFrameValue>
        <maxTimeFrameValue>1</maxTimeFrameValue>
      </timeFrameRange>
    </timeFrameRanges>
  </triggers>

```



```
<timeFrameUnit>month</timeFrameUnit>
</timeFrameRange>
</timeFrameRanges>
<minValue>1</minValue>
<maxValue>9999999999</maxValue>
</triggers>
<triggers>
  <triggerNumber>8</triggerNumber>
  <triggerName>GPRS Short term under run per timeframe</triggerName>
  <timeFrameAllowed>true</timeFrameAllowed>
  <alertThresholdValueAllowed>true</alertThresholdValueAllowed>
  <actionThresholdAllowed>false</actionThresholdAllowed>
  <thresholdUnit>bytes</thresholdUnit>
  <triggerType>Underrun</triggerType>
  <lastChange>2009-10-28Z</lastChange>
  <timeFrameRanges>
    <timeFrameRange>
      <minTimeFrameValue>1</minTimeFrameValue>
      <maxTimeFrameValue>48</maxTimeFrameValue>
      <timeFrameUnit>hour</timeFrameUnit>
    </timeFrameRange>
  </timeFrameRanges>
  <minValue>1</minValue>
  <maxValue>9999999999</maxValue>
</triggers>
<triggers>
  <triggerNumber>9</triggerNumber>
  <triggerName>SMS MO Long term over run per timeframe</triggerName>
  <timeFrameAllowed>true</timeFrameAllowed>
  <alertThresholdValueAllowed>true</alertThresholdValueAllowed>
  <actionThresholdAllowed>false</actionThresholdAllowed>
  <thresholdUnit>bytes</thresholdUnit>
  <triggerType>Overrun</triggerType>
  <lastChange>2009-10-28Z</lastChange>
  <timeFrameRanges>
    <timeFrameRange>
      <minTimeFrameValue>1</minTimeFrameValue>
      <maxTimeFrameValue>4</maxTimeFrameValue>
      <timeFrameUnit>week</timeFrameUnit>
    </timeFrameRange>
    <timeFrameRange>
      <minTimeFrameValue>1</minTimeFrameValue>
      <maxTimeFrameValue>1</maxTimeFrameValue>
      <timeFrameUnit>month</timeFrameUnit>
    </timeFrameRange>
  </timeFrameRanges>
  <minValue>1</minValue>
  <maxValue>9999999999</maxValue>
</triggers>
<triggers>
  <triggerNumber>10</triggerNumber>
  <triggerName>SMS MO over run per timeframe</triggerName>
  <timeFrameAllowed>true</timeFrameAllowed>
  <alertThresholdValueAllowed>true</alertThresholdValueAllowed>
  <actionThresholdAllowed>true</actionThresholdAllowed>
  <thresholdUnit>pcs</thresholdUnit>
  <triggerType>Overrun</triggerType>
  <lastChange>2009-10-28Z</lastChange>
  <timeFrameRanges>
    <timeFrameRange>
      <minTimeFrameValue>1</minTimeFrameValue>
      <maxTimeFrameValue>48</maxTimeFrameValue>
      <timeFrameUnit>hour</timeFrameUnit>
    </timeFrameRange>
  </timeFrameRanges>
  <minValue>1</minValue>
  <maxValue>9999999999</maxValue>
</triggers>
<triggers>
  <triggerNumber>11</triggerNumber>
  <triggerName>SMS MO under run per timeframe</triggerName>
  <timeFrameAllowed>true</timeFrameAllowed>
  <alertThresholdValueAllowed>true</alertThresholdValueAllowed>
  <actionThresholdAllowed>false</actionThresholdAllowed>
  <thresholdUnit>pcs</thresholdUnit>
  <triggerType>Underrun</triggerType>
```



```

<lastChange>2009-10-28Z</lastChange>
<timeFrameRanges>
  <timeFrameRange>
    <minTimeFrameValue>1</minTimeFrameValue>
    <maxTimeFrameValue>48</maxTimeFrameValue>
    <timeFrameUnit>hour</timeFrameUnit>
  </timeFrameRange>
</timeFrameRanges>
<minValue>1</minValue>
<maxValue>999999999</maxValue>
</triggers>
<triggers>
  <triggerNumber>12</triggerNumber>
  <triggerName>SMS MT over run per timeframe</triggerName>
  <timeFrameAllowed>true</timeFrameAllowed>
  <alertThresholdValueAllowed>true</alertThresholdValueAllowed>
  <actionThresholdAllowed>true</actionThresholdAllowed>
  <thresholdUnit>pcs</thresholdUnit>
  <triggerType>Overrun</triggerType>
  <lastChange>2009-10-28Z</lastChange>
  <timeFrameRanges>
    <timeFrameRange>
      <minTimeFrameValue>1</minTimeFrameValue>
      <maxTimeFrameValue>48</maxTimeFrameValue>
      <timeFrameUnit>hour</timeFrameUnit>
    </timeFrameRange>
  </timeFrameRanges>
  <minValue>1</minValue>
  <maxValue>999999999</maxValue>
</triggers>
<triggers>
  <triggerNumber>13</triggerNumber>
  <triggerName>SMS MT under run per timeframe</triggerName>
  <timeFrameAllowed>true</timeFrameAllowed>
  <alertThresholdValueAllowed>true</alertThresholdValueAllowed>
  <actionThresholdAllowed>false</actionThresholdAllowed>
  <thresholdUnit>pcs</thresholdUnit>
  <triggerType>Underrun</triggerType>
  <lastChange>2009-10-28Z</lastChange>
  <timeFrameRanges>
    <timeFrameRange>
      <minTimeFrameValue>1</minTimeFrameValue>
      <maxTimeFrameValue>48</maxTimeFrameValue>
      <timeFrameUnit>hour</timeFrameUnit>
    </timeFrameRange>
  </timeFrameRanges>
  <minValue>1</minValue>
  <maxValue>999999999</maxValue>
</triggers>
<triggers>
  <triggerNumber>14</triggerNumber>
  <triggerName>Net activity under run per timeframe</triggerName>
  <timeFrameAllowed>true</timeFrameAllowed>
  <alertThresholdValueAllowed>false</alertThresholdValueAllowed>
  <actionThresholdAllowed>false</actionThresholdAllowed>
  <triggerType>Underrun</triggerType>
  <lastChange>2010-10-22Z</lastChange>
  <timeFrameRanges>
    <timeFrameRange>
      <minTimeFrameValue>1</minTimeFrameValue>
      <maxTimeFrameValue>48</maxTimeFrameValue>
      <timeFrameUnit>hour</timeFrameUnit>
    </timeFrameRange>
  </timeFrameRanges>
  <minValue>1</minValue>
  <maxValue>999999999</maxValue>
</triggers>
<triggers>
  <triggerNumber>15</triggerNumber>
  <triggerName>GPRS Long term Network Group 1</triggerName>
  <timeFrameAllowed>true</timeFrameAllowed>
  <alertThresholdValueAllowed>true</alertThresholdValueAllowed>
  <actionThresholdAllowed>true</actionThresholdAllowed>
  <thresholdUnit>bytes</thresholdUnit>
  <triggerType>Overrun</triggerType>
  <lastChange>2013-02-18Z</lastChange>

```



```
<timeFrameRanges>
  <timeFrameRange>
    <minTimeFrameValue>1</minTimeFrameValue>
    <maxTimeFrameValue>4</maxTimeFrameValue>
    <timeFrameUnit>week</timeFrameUnit>
  </timeFrameRange>
  <timeFrameRange>
    <minTimeFrameValue>1</minTimeFrameValue>
    <maxTimeFrameValue>1</maxTimeFrameValue>
    <timeFrameUnit>month</timeFrameUnit>
  </timeFrameRange>
</timeFrameRanges>
<minValue>1</minValue>
<maxValue>9999999999</maxValue>
</triggers>
<triggers>
  <triggerNumber>16</triggerNumber>
  <triggerName>GPRS Long term Network Group 2</triggerName>
  <timeFrameAllowed>true</timeFrameAllowed>
  <alertThresholdValueAllowed>true</alertThresholdValueAllowed>
  <actionThresholdAllowed>true</actionThresholdAllowed>
  <thresholdUnit>bytes</thresholdUnit>
  <triggerType>Overrun</triggerType>
  <lastChange>2013-02-18Z</lastChange>
  <timeFrameRanges>
    <timeFrameRange>
      <minTimeFrameValue>1</minTimeFrameValue>
      <maxTimeFrameValue>4</maxTimeFrameValue>
      <timeFrameUnit>week</timeFrameUnit>
    </timeFrameRange>
    <timeFrameRange>
      <minTimeFrameValue>1</minTimeFrameValue>
      <maxTimeFrameValue>1</maxTimeFrameValue>
      <timeFrameUnit>month</timeFrameUnit>
    </timeFrameRange>
  </timeFrameRanges>
  <minValue>1</minValue>
  <maxValue>9999999999</maxValue>
</triggers>
<triggers>
  <triggerNumber>17</triggerNumber>
  <triggerName>GPRS Long term other networks</triggerName>
  <timeFrameAllowed>true</timeFrameAllowed>
  <alertThresholdValueAllowed>true</alertThresholdValueAllowed>
  <actionThresholdAllowed>true</actionThresholdAllowed>
  <thresholdUnit>bytes</thresholdUnit>
  <triggerType>Overrun</triggerType>
  <lastChange>2013-02-18Z</lastChange>
  <timeFrameRanges>
    <timeFrameRange>
      <minTimeFrameValue>1</minTimeFrameValue>
      <maxTimeFrameValue>4</maxTimeFrameValue>
      <timeFrameUnit>week</timeFrameUnit>
    </timeFrameRange>
    <timeFrameRange>
      <minTimeFrameValue>1</minTimeFrameValue>
      <maxTimeFrameValue>1</maxTimeFrameValue>
      <timeFrameUnit>month</timeFrameUnit>
    </timeFrameRange>
  </timeFrameRanges>
  <minValue>1</minValue>
  <maxValue>9999999999</maxValue>
</triggers>
<triggers>
  <triggerNumber>18</triggerNumber>
  <triggerName>SMS MO Long term Network Group 1</triggerName>
  <timeFrameAllowed>true</timeFrameAllowed>
  <alertThresholdValueAllowed>true</alertThresholdValueAllowed>
  <actionThresholdAllowed>true</actionThresholdAllowed>
  <thresholdUnit>pcs</thresholdUnit>
  <triggerType>Overrun</triggerType>
  <lastChange>2013-02-18Z</lastChange>
  <timeFrameRanges>
    <timeFrameRange>
      <minTimeFrameValue>1</minTimeFrameValue>
      <maxTimeFrameValue>4</maxTimeFrameValue>
```



```

        <timeFrameUnit>week</timeFrameUnit>
      </timeFrameRange>
    <timeFrameRange>
      <minTimeFrameValue>1</minTimeFrameValue>
      <maxTimeFrameValue>1</maxTimeFrameValue>
      <timeFrameUnit>month</timeFrameUnit>
    </timeFrameRange>
  </timeFrameRanges>
  <minValue>1</minValue>
  <maxValue>9999999999</maxValue>
</triggers>
<triggers>
  <triggerNumber>19</triggerNumber>
  <triggerName>SMS MO Long term Network Group 2</triggerName>
  <timeFrameAllowed>true</timeFrameAllowed>
  <alertThresholdValueAllowed>true</alertThresholdValueAllowed>
  <actionThresholdAllowed>true</actionThresholdAllowed>
  <thresholdUnit>pcs</thresholdUnit>
  <triggerType>Overrun</triggerType>
  <lastChange>2013-02-18Z</lastChange>
  <timeFrameRanges>
    <timeFrameRange>
      <minTimeFrameValue>1</minTimeFrameValue>
      <maxTimeFrameValue>4</maxTimeFrameValue>
      <timeFrameUnit>week</timeFrameUnit>
    </timeFrameRange>
    <timeFrameRange>
      <minTimeFrameValue>1</minTimeFrameValue>
      <maxTimeFrameValue>1</maxTimeFrameValue>
      <timeFrameUnit>month</timeFrameUnit>
    </timeFrameRange>
  </timeFrameRanges>
  <minValue>1</minValue>
  <maxValue>9999999999</maxValue>
</triggers>
<triggers>
  <triggerNumber>20</triggerNumber>
  <triggerName>SMS MO Long term other networks</triggerName>
  <timeFrameAllowed>true</timeFrameAllowed>
  <alertThresholdValueAllowed>true</alertThresholdValueAllowed>
  <actionThresholdAllowed>true</actionThresholdAllowed>
  <thresholdUnit>pcs</thresholdUnit>
  <triggerType>Overrun</triggerType>
  <lastChange>2013-02-18Z</lastChange>
  <timeFrameRanges>
    <timeFrameRange>
      <minTimeFrameValue>1</minTimeFrameValue>
      <maxTimeFrameValue>4</maxTimeFrameValue>
      <timeFrameUnit>week</timeFrameUnit>
    </timeFrameRange>
    <timeFrameRange>
      <minTimeFrameValue>1</minTimeFrameValue>
      <maxTimeFrameValue>1</maxTimeFrameValue>
      <timeFrameUnit>month</timeFrameUnit>
    </timeFrameRange>
  </timeFrameRanges>
  <minValue>1</minValue>
  <maxValue>9999999999</maxValue>
</triggers>
</ns2:QueryTriggersResponse_v2>
</env:Body>
</env:Envelope>

```

Example 130 QueryTriggers_v2 Response

Errors

No service-specific error codes are available.



4.12.14 QueryNetworkGroups

With this operation, it is possible to query network groups.

Request

The request contains the elements shown in Table 144. For an example, see Example 131.

Table 144 QueryNetworkGroups Request Element

Element	Description
customerNo	A string containing the customer number of the related organization. See Section 3.4.7 on page 11 for more information.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:trig="http://api.dcp.ericsson.net/TriggerPackageManagement">
    <soapenv:Header/>
    <soapenv:Body>
      <trig:QueryNetworkGroupsRequest>
        <customerNo>10000001</customerNo>
      </trig:QueryTriggerPackagesRequest_v2>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 131 QueryNetworkGroups Request

Response

The response contains a list of networkGroups. A networkGroup contains the elements shown in Table 145. For an example, see Example 132.

Table 145 QueryNetworkGroups Response Element

Element	Description
networkGroupNo	The number of the network group.
networkGroupMembers	Optional. The elements in a networkGroupMember element are as follows <ul style="list-style-type: none">countryName - The name of the countryoperatorName - The name of the operator



```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:QueryNetworkGroupsResponse xmlns:ns2="http://api.dcp.ericsson.net/TriggerPackageManagement">
      <networkGroups>
        <networkGroup>
          <networkGroupNo>1</networkGroupNo>
          <networkGroupMembers>
            <networkGroupMember>
              <countryName>India</countryName>
              <operatorName>Operator A</operatorName>
            </networkGroupMember>
            <networkGroupMember>
              <countryName>India</countryName>
              <operatorName>Operator B</operatorName>
            </networkGroupMember>
          </networkGroupMembers>
        </networkGroup>
        <networkGroup>
          <networkGroupNo>2</networkGroupNo>
          <networkGroupMembers>
            <networkGroupMember>
              <countryName>Sweden</countryName>
              <operatorName>Operator C</operatorName>
            </networkGroupMember>
            <networkGroupMember>
              <countryName>Sweden</countryName>
              <operatorName>Operator D</operatorName>
            </networkGroupMember>
            <networkGroupMember>
              <countryName>Finland</countryName>
              <operatorName>Operator D</operatorName>
            </networkGroupMember>
          </networkGroupMembers>
        </networkGroup>
      </networkGroups>
    </ns2:QueryNetworkGroupsResponse>
  </env:Body>
</env:Envelope></env:Envelope>
```

Example 132 QueryNetworkGroups

Errors

No service-specific error codes are available.

4.13 BundlePackageManagement

This service allows querying subscriptions blocked due consuming their bundles, and unblocking them with a request.

Note: The WSDL is available at the following URL, where the <baseURI> parameter is provided by the operator:

— <baseURI>/dcpapi/BundlePackageManagement?WSDL

4.13.1 QueryBlockedSubscriptions

This operation returns a detailed list of subscriptions that have been blocked because of the overconsumption of the bundle SMS or GPRS threshold in a specific month.



Request

The request contains the elements shown in Table 146. For an example, see Example 133.

Table 146 QueryBlockedSubscriptions Request Elements

Element	Description
customerNo	A string containing the customer number of the related organization. See Section 3.4.7 on page 11 for more information.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:sub="http://api.dcp.ericsson.net/BundlePackageManagement">
    <soapenv:Header/>
    <soapenv:Body>
      <sub:QueryBlockedSubscriptions>
        <customerNo>00000001</customerNo>
      </sub:QueryBlockedSubscriptions>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 133 QueryBlockedSubscriptions Request

Response

The response contains the elements as shown in Table 147. For an example, see Example 134.

Table 147 QueryBlockedSubscriptions Response Elements

Element	Description
blockedSubscriptionDetails	It includes the list of subscriptions that have been blocked because of overconsumption. The possible record elements are listed in Table 148.

Table 148 blockedSubscriptionDetails Elements

Element	Description
imsi	IMSI number of the resource.
customerLabel	Customer label.
msisdn	MSISDN number of the resource.
icc	Integrated Circuit Card (ICC), the serial number of the SIM.
bundleName	The name of the bundle package.
status	Enumeration of the status with the following possible values: <ul style="list-style-type: none">• Activation In Progress• Active• Deactivated• Pause• Terminated



Table 148 blockedSubscriptionDetails Elements

Element	Description
trafficType	Enumeration of the trafficType with the following possible values: <ul style="list-style-type: none"> • gprs • SMS
thresholdLimit	The reached limit in bytes.
thresholdUnit	Optional. The unit of the threshold, bytes or pcs.
status	
networkGroup	Enumeration of networkGroup with the following possible values: <ul style="list-style-type: none"> • Total – All networks are included. • 1 – All VPLMN networks in group 1 are included in this counter (if the Operator has configured any). • 2 – All VPLMN networks in group 2 are included in this counter (if the Operator has configured any). • Others – All VPLMN networks that do not belong to group 1 or group 2.
blockedDate	The deactivation date of the SIM in YYYY-MM-DD format.
unBlockedDate	The activation date of the SIM in YYYY-MM-DD format.

```

<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:QueryBlockedSubscriptionsResponse xmlns:ns2="http://api.dcp.ericsson.net/BundlePackageManagement">
      <blockedSubscriptionDetails>
        <blockedSubscriptionDetail>
          <imsi>320123456000016</imsi>
          <msisdn>45201304821065</msisdn>
          <icc>600150</icc>
          <customerLabel>Spare IMSI</customerLabel>
          <bundleName>B M No2</bundleName>
          <status>Active</status>
          <trafficType>gprs</trafficType>
          <thresholdLimit>1000000</thresholdLimit>
          <thresholdUnit>bytes</thresholdUnit>
          <networkGroup>1</networkGroup>
          <blockedDate>2013-11-22T09:29:53.000Z</blockedDate>
          <unBlockedDate>2013-11-26T09:15:47.000Z</unBlockedDate>
        </blockedSubscriptionDetail>
        <blockedSubscriptionDetail>
          <imsi>320123456001548</imsi>
          <msisdn>52014100987654</msisdn>
          <icc>900011</icc>
          <customerLabel>bundle2</customerLabel>
          <bundleName>B M No2</bundleName>
          <status>Active</status>
          <trafficType>sms</trafficType>
          <thresholdLimit>30</thresholdLimit>
          <thresholdUnit>pcs</thresholdUnit>
          <networkGroup>1</networkGroup>
          <blockedDate>2013-11-22T10:25:54.000Z</blockedDate>
          <unBlockedDate>2013-11-26T09:19:25.000Z</unBlockedDate>
        </blockedSubscriptionDetail>
        <blockedSubscriptionDetail>
          <imsi>320123456001754</imsi>
          <msisdn>201330876976871</msisdn>
          <icc>600150</icc>
          <bundleName>B M No6</bundleName>
          <status>Deactivated</status>
          <trafficType>sms</trafficType>
        </blockedSubscriptionDetail>
      </blockedSubscriptionDetails>
    </ns2:QueryBlockedSubscriptionsResponse>
  </env:Body>
</env:Envelope>

```



```
<thresholdLimit>10</thresholdLimit>
<thresholdUnit>pcs</thresholdUnit>
<networkGroup>1</networkGroup>
<blockedDate>2013-11-26T09:15:47.000Z</blockedDate>
</blockedSubscriptionDetail>
<blockedSubscriptionDetail>
  <imsi>32012345600017</imsi>
  <msisdn>52012006345678</msisdn>
  <icc>600150</icc>
  <customerLabel>bundle2</customerLabel>
  <bundleName>B M No2</bundleName>
  <status>Active</status>
  <trafficType>sms</trafficType>
  <thresholdLimit>30</thresholdLimit>
  <thresholdUnit>pcs</thresholdUnit>
  <networkGroup>2</networkGroup>
  <blockedDate>2013-11-20T13:06:54.000Z</blockedDate>
  <unBlockedDate>2013-11-26T09:15:46.000Z</unBlockedDate>
</blockedSubscriptionDetail>
<blockedSubscriptionDetail>
  <imsi>320123456001550</imsi>
  <msisdn>52014100000234</msisdn>
  <icc>900013</icc>
  <bundleName>B M No99</bundleName>
  <status>Active</status>
  <trafficType>gprs</trafficType>
  <thresholdLimit>10000000</thresholdLimit>
  <thresholdUnit>bytes</thresholdUnit>
  <networkGroup>Total</networkGroup>
  <blockedDate>2013-11-22T10:29:32.000Z</blockedDate>
  <unBlockedDate>2013-11-26T09:15:47.000Z</unBlockedDate>
</blockedSubscriptionDetail>
<blockedSubscriptionDetail>
  <imsi>320123456001552</imsi>
  <msisdn>52014104340023</msisdn>
  <icc>900015</icc>
  <bundleName>B M No2</bundleName>
  <status>Active</status>
  <trafficType>sms</trafficType>
  <thresholdLimit>30</thresholdLimit>
  <thresholdUnit>pcs</thresholdUnit>
  <networkGroup>Others</networkGroup>
  <blockedDate>2013-11-22T07:08:02.000Z</blockedDate>
  <unBlockedDate>2013-11-26T09:15:47.000Z</unBlockedDate>
</blockedSubscriptionDetail>
</blockedSubscriptionDetails>
</ns2:QueryBlockedSubscriptionsResponse>
</env:Body>
</env:Envelope>
```

Example 134 QueryBlockedSubscriptions Response

Errors

No service-specific error codes are available.

4.13.2 RequestUnblockSubscription

With this operation, it is possible to activate a SIM subscription status that was deactivated because of overconsumption of SMS or GPRS traffic. The request returns a registered serviceRequestId meaning that the actual change can occur at a later time.



Request

The request contains the elements shown in Table 149. For an example, see Example 135.

Table 149 RequestUnblockSubscription Request Elements

Element	Description
customerNo	A string containing the customer number of the related organization. See Section 3.4.7 on page 11 for more information.
resource	A type and an id element defining a subscription to reactivate. The type can be imsi or msisdn.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:sub="http://api.dcp.ericsson.net/BundlePackageManagement">
    <soapenv:Header/>
    <soapenv:Body>
      <sub:RequestUnblockSubscription>
        <customerNo>99000010</customerNo>
        <resource>
          <id>240081020000014</id>
          <type>imsi</type>
        </resource>
      </sub:RequestUnblockSubscription>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 135 RequestUnblockSubscription Request

Response

The response contains the elements shown in Table 150. For an example, see Example 136.

Table 150 RequestUnblockSubscription Response Elements

Element	Description
serviceRequestId	Service Request ID of the issued request.

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:RequestUnblockSubscriptionResponse =>
      xmlns:ns2="http://api.dcp.ericsson.net/RequestUnblockSubscription">
        <serviceRequestId>REQ000000098</serviceRequestId>
      </ns2:RequestUnblockSubscriptionResponse>
    </env:Body>
  </env:Envelope>
```

Example 136 RequestUnblockSubscription Response

4.14 ServiceRequestManagement

This service provides different operations for viewing and managing service requests. For more information about their elements, see Section 5.3 on page 168.



Note: The WSDL is available at the following URL, where the <baseURI> parameter is provided by the operator:

— <baseURI>/dcpapi/ServiceRequestManagement?WSDL

4.14.1 QueryServiceRequests

With this operation, it is possible to retrieve the submitted service requests.

Note: The maximum number of service requests that can be listed is 1000.

Request

The request contains the elements shown in Table 151. For an example, see Example 137.

Table 151 QueryServiceRequests Request Elements

Element	Description
startDate	Optional. The earliest date to search for service requests.
endDate	Optional. The latest date to search for service requests, in the following format: YYYY-MM-DD. The starting and ending dates must define a period of 1, 7, or 30 days . Otherwise, a time-out error is returned.
serviceRequestId	Optional. Service Request ID of the issued request. It can be used to query the details of the service request.
customerNo	A string containing the customer number of the related organization. See Section 3.4.7 on page 11 for more information.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:ser="http://api.dcp.ericsson.net/ServiceRequestManagement">
    <soapenv:Header/>
    <soapenv:Body>
      <ser:QueryServiceRequests>
        <customerNo>00000001</customerNo>
        <startDate>2013-12-16</startDate>
        <endDate>2014-01-15</endDate>
        <serviceRequestId>REQ000000003</serviceRequestId>
      </ser:QueryServiceRequests>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 137 QueryServiceRequests Request

Response

The response contains the elements as shown in Table 152. For an example, see Example 138.

Table 152 QueryServiceRequests Response Elements

Element	Description
serviceRequestId	Service Request ID of the request issued.
serviceRequestSummary	Optional. The description of service request type.



Table 152 QueryServiceRequests Response Elements

Element	Description
serviceRequestNotes	Optional. A detailed description of the service request. A maximum of 2000 characters is displayed.
serviceRequestStatus	The current state of this particular service request in the system. It can have one of the following values: <ul style="list-style-type: none"> • Completed • Partially Completed • In Progress • Pending • Canceled • Rejected
submitDate	Date and time when the service request was submitted.
company	Optional. The company to which the service request belongs.
customerNo	A string containing the customer number of the related organization.
initiatedBy	The user who submitted the service request. The structure of this field is described in Table 153.
serviceRequestType	Classification for the different kinds of service requests. See Section 5.4 on page 172 for the possible values.
startIMSI	Optional. The first IMSI included in the operation.
endIMSI	Optional. The last IMSI included in the operation.
startMSISDN	Optional. The first MSISDN included in the operation.
endMSISDN	Optional. The last MSISDN included in the operation.
numberScheme	Optional. The numbering scheme for IMSI and MSISDN numbers.
serviceContract	Optional. The name of the contract that an operator and an Enterprise have agreed to use for a certain range of IMSIs.
serviceContractDescription	Optional. A text that describes the service contract.
subscriptionPackageName	Optional. The name of the subscription package that is assigned to the subscriptions.
subscriptionPackageDescription	Optional. A text that describes the subscription package.
simSpecification	Optional. The name of the specification that describes a certain type of SIM cards.
simSpecificationDescription	Optional. A text that describes the SIM Specification.
region	Optional. The region to which the MSISDN numbers belong, for example, European Union.
regionDescription	Optional. A text that describes the region.
requestedSubscriptionsQuantity	Optional. The number of the ordered SIM Subscriptions.
deliveryState	Optional. The status that new subscriptions get when being provisioned. The possible values are Active and Deactivated.
requiredDate	Optional. The requested due date of the service request.



Table 152 QueryServiceRequests Response Elements

Element	Description
closedDate	Optional. The date and time when the serviceRequest is completed.
emailToSendSIMDetails	Optional. When the SIM order is completed, the result file is sent to this email address.
customerContactName	Optional. The reference contact name at the customer site.
customerContactPhoneNumber	Optional. The reference contact telephone number at the customer site.
packageMarking	Optional. A marking on the SIM package to be delivered.
serviceLocationAddress	Optional. The address of the company that receives the service request result.
urgency	Optional. The urgency of a support service request to be handled by DCP Operations. It has one of the following values: <ul style="list-style-type: none">criticalhighmediumlow
categoryLevel1	Optional. Service request category level 1.
categoryLevel2	Optional. Service request category level 2 is deprecated, it can be left out from a request or filled with dummy information.
phoneNumber	Optional. The contact telephone number.
emailAddress	Optional. The contact email address.
newSubscriptionPackageName	Optional. The name of the target subscription package.
newRegion	Optional. The name or code of the region to which the subscriptions are moved, for example, EU.
newCustomerLabel	Optional. The new customer label of the subscriptions.
newTriggerPackage	Optional. The new trigger package that is assigned to the subscription package.
arp	Optional. Zero or one ARP assigned to the subscription. The arp element contains the following values: <ul style="list-style-type: none">tadigassignmentTime

Table 153 QueryServiceRequests initiatedBy Elements

Element	Description
firstName	The first name of the user who submitted the service request.
lastName	The last name of the user who submitted the service request.



```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:QueryServiceRequestsResponse xmlns:ns2="http://api.dcp.ericsson.net/ServiceRequestManagement">
      <ServiceRequestResponseData>
        <serviceRequestId>REQ000000033171</serviceRequestId>
        <serviceRequestSummary>Request Company Details Change</serviceRequestSummary>
        <serviceRequestNotes>update company details as Enterprise A</serviceRequestNotes>
        <serviceRequestStatus>In Progress</serviceRequestStatus>
        <submitDate>2014-02-11T11:59:30Z</submitDate>
        <company>Enterprise A</company>
        <customerNo>30022001</customerNo>
        <initiatedBy>
          <firstName>John</firstName>
          <lastName>Doe</lastName>
        </initiatedBy>
        <serviceRequestType>Request Company Details Change</serviceRequestType>
        <requiredDate>2014-08-10T22:00:00Z</requiredDate>
        <urgency>critical</urgency>
        <categoryLevel1>Company Set-up</categoryLevel1>
        <phoneNumber>9876543210</phoneNumber>
        <emailAddress>johndoe@enterprisea.com</emailAddress>
      </ServiceRequestResponseData>
    </ns2:QueryServiceRequestsResponse>
  </env:Body>
</env:Envelope>
```

Example 138 QueryServiceRequests Response

Errors

No service-specific error codes are available.

4.14.2 QueryServiceRequestActivities

With this operation, it is possible to retrieve the activity details of a particular service request.

Request

The request contains the elements shown in Table 154. For an example, see Example 139.

Table 154 QueryServiceRequestActivities Request Elements

Element	Description
serviceRequestId	Service Request ID of the issued request.

```
soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:ser="http://api.dcp.ericsson.net/ServiceRequestManagement">
    <soapenv:Header/>
    <soapenv:Body>
      <ser:QueryServiceRequestActivities>
        <serviceRequestId>REQ000000029587</serviceRequestId>
      </ser:QueryServiceRequestActivities>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 139 QueryServiceRequestActivities Request



Response

The response contains the elements shown in Table 155. For an example, see Example 140.

Table 155 QueryServiceRequestActivities Response Elements

Element	Description
activityLogId	The unique identifier of the identity.
activitySummary	A summary of the activity log, which was entered by the user who is working on the service request.
activityNotes	Optional. Detailed notes of the activity log entered by the user who is working on the service request.
submitDate	Optional. Date and time when the activity log entry was made.
submittedBy	Optional. The login name of the user who made the activity log entry.
attachmentNames	Optional. The names of the attachments.

Table 156 QueryServiceRequestActivities Response attachmentNames Elements

Element	Description
attachmentName	The name of the attachment, containing the service request id and the batch id.

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:QueryServiceRequestActivitiesResponse =>
      xmlns:ns2="http://api.dcp.ericsson.net/ServiceRequestManagement">
        <activityLog>
          <activityLogId>00000000021907</activityLogId>
          <activitySummary>Refer to Attachments for a Report of
            IMSI-MSISDN pairs ordered as part of this Order</activitySummary>
          <submitDate>2013-12-31T13:37:01Z</submitDate>
          <submittedBy>ImpactManager</submittedBy>
          <attachmentNames>
            <attachmentName>REQ000000029587_INT00014044512.csv</attachmentName>
          </attachmentNames>
        </activityLog>
      </ns2:QueryServiceRequestActivitiesResponse>
    </env:Body>
  </env:Envelope>
```

Example 140 QueryServiceRequestActivities Response

Errors

No service-specific error codes are available.

4.14.3 ServiceRequestAddActivity

Note: The **ServiceRequestAddActivity** service is going to be removed from this SOAP API after six months from 18A3.

With this operation, it is possible to add an activity to any raised service request that belongs to one of the following request types:



- Request Customer Setup
- Request Customer Termination
- Request Company Details Change

Note: In case of unsupported operations, the error code `ErrValidationFailure` and the message `Invalid service request type.` are returned.

Request

The request contains the elements shown in Table 157. For an example, see Example 141.

Table 157 ServiceRequestAddActivity Request Elements

Element	Description
serviceRequestId	The Service Request ID of the issued request. It can be used to query the activities that belong to the service request.
activitySummary	A summary of the activity log, which is entered by the user working on the service request.
activityNotes	Optional. Detailed notes in the activity log entered by the user who is working on the service request.
attachments	Optional. Used for attaching files. The list of possible attachment elements are as follows: ⁽¹⁾ <ul style="list-style-type: none"> • <code>fileName</code> - The name of a file • <code>attachmentData</code> - Data of an attached file

(1) A maximum of three attachments can be uploaded, with a total size of 10 MB.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:ser="http://api.dcp.ericsson.net/ServiceRequestManagement">
    <soapenv:Header/>
    <soapenv:Body>
      <ser:ServiceRequestAddActivity>
        <serviceRequestId>REQ000000031034</serviceRequestId>
        <activitySummary>example error</activitySummary>
        <activityNotes>the attached pictures show the process</activityNotes>
        <attachments>
          <!--1 to 3 repetitions:-->
          <attachment>
            <fileName>step1</fileName>
            <attachmentData>cid:337141689144</attachmentData>
          </attachment>
          <attachment>
            <fileName>step2</fileName>
            <attachmentData>cid:337141689145</attachmentData>
          </attachment>
          <attachment>
            <fileName>error</fileName>
            <attachmentData>cid:337141689146</attachmentData>
          </attachment>
        </attachments>
      </ser:ServiceRequestAddActivity>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 141 ServiceRequestAddActivity Request



Response

The response contains the elements shown in Table 158. For an example, see Example 142.

Table 158 ServiceRequestAddActivity Response Elements

Element	Description
serviceRequestId	The Service Request ID of the issued request.

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:ServiceRequestAddActivityResponse xmlns:ns2=
      "http://api.dcp.ericsson.net/ServiceRequestManagement">
      <serviceRequestId>REQ000000030815</serviceRequestId>
    </ns2:ServiceRequestAddActivityResponse>
  </env:Body>
</env:Envelope>
```

Example 142 ServiceRequestAddActivity Response

Errors

No service-specific error codes are available.

4.14.4 QueryServiceRequestAttachments

With this operation, it is possible retrieve the service request attachments list.

Request

The request contains the elements shown in Table 159. For an example, see Example 143.

Table 159 QueryServiceRequestAttachments Request Elements

Element	Description
activityLogId	An ID generated when an activity is logged.
timedOut	Optional. The maximum time to wait for the response in seconds. A maximum of 300 and a minimum of 1 is allowed. The default value is 30.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" =>
  xmlns:ser="http://api.dcp.ericsson.net/ServiceRequestManagement">
    <soapenv:Header/>
    <soapenv:Body>
      <ser:QueryServiceRequestAttachments>
        <activityLogId>00000000021907</activityLogId>
        <timedOut>2</timedOut>
      </ser:QueryServiceRequestAttachments>
    </soapenv:Body>
  </soapenv:Envelope>
```

Example 143 QueryServiceRequestAttachments Request



Response

The response contains the elements shown in Table 160. For an example, see Example 144.

Table 160 QueryServiceRequestAttachments Response Elements

Element	Description
attachments	Optional. It includes a list of the available attachments. The list of possible attachment elements are as follows: <ul style="list-style-type: none"> • <code>fileName</code> - The name of a file • <code>attachmentData</code> - Data of an attached file

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:QueryServiceRequestAttachmentsResponse =>
      xmlns:ns2="http://api.dcp.ericsson.net/ServiceRequestManagement">
        <attachments>
          <attachment>
            <fileName>REQ000000029587.csv</fileName>
            <attachmentData>
              <xop:Include href="cid:attachmentData-7b9ca9ab-7b0d-491e-bea5-7d722b329aaa@entA.com" xmlns:xop="http://www.w3.org/2004/08/xop/include"/>
            </attachmentData>
          </attachment>
        </attachments>
      </ns2:QueryServiceRequestAttachmentsResponse>
    </env:Body>
  </env:Envelope>
```

Example 144 QueryServiceRequestAttachments Response

Errors

No service-specific error codes are available.

4.15 DeviceReconnect

This service offers an operation for reconnecting devices to the mobile network.

Note: The WSDL is available at the following URL, where the `<baseURI>` parameter is provided by the operator:

- `<baseURI>/dcpapi/DeviceReconnect?WSDL`

4.15.1 Reconnect

The Device Reconnect function is used to reset the subscription location data in the mobile network. This can resolve problems in the network, and allow a device to reconnect.

Note: After this operation, the device has to set up the connection again. Depending on the behavior of the device, restarting it can be needed.

The Reconnect request can be sent only for single subscriptions in ACTIVE state.



Request

The request contains the elements shown in Table 161. For an example, see Example 145.

Table 161 Reconnect Request Elements

Element	Description
id	The IMSI, MSISDN, or ICC number of the SIM card.
type	The type of the value entered in the id element. It can be imsi, msisdn, or icc.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:dev="http://api.dcp.ericsson.net/DeviceReconnect">
  <soapenv:Header/>
  <soapenv:Body>
    <dev:Reconnect>
      <resource>
        <id>240081001000000</id>
        <type>imsi</type>
      </resource>
    </dev:Reconnect>
  </soapenv:Body>
</soapenv:Envelope>
```

Example 145 Reconnect Request

Response

The response is empty if the operation is successful, otherwise an exception is shown. For an example, see Example 146.

```
<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/">
  <env:Header/>
  <env:Body>
    <ns2:ReconnectResponse xmlns:ns2="http://api.dcp.ericsson.net/DeviceReconnect"/>
  </env:Body>
</env:Envelope>
```

Example 146 Reconnect Response

Errors

No service-specific error codes are available.



5 Appendix

5.1 GTP Causes

The following sections list the possible GTP causes of both GPRS and LTE events.

5.1.1 GTP Causes for GPRS Events

The GTP causes for GPRS events are the following as described in the 3GPP TS 29.060 V15.2.0 technical specification, also see Reference [13]:

Cause	Description
0	Request IMSI.
1	Request IMEI.
2	Request IMSI and IMEI.
3	No identity needed.
4	MS Refuses.
5	MS is not GPRS Responding.
6	Reactivation Requested.
7	PDP address inactivity timer expires.
8	Network Failure.
9	QoS parameter mismatch.
10-48	For future use.
49-63	Cause values reserved for GPRS charging protocol use.
64-127	For future use.
128	Request accepted.
129	New PDP type due to network preference.
130	New PDP type due to single address bearer only.
131-176	For future use.
177-191	Cause values reserved for GPRS charging protocol use.
192	Non-existent.
193	Invalid message format.
194	IMSI/IMEI not known
195	MS is GPRS Detached.
196	MS is not GPRS Responding.
197	MS Refuses.
198	Version not supported.
199	No resources available.
200	Service not supported.



Cause	Description
201	Mandatory IE incorrect.
202	Mandatory IE missing.
203	Optional IE incorrect.
204	System failure.
205	Roaming restriction.
206	P-TMSI Signature mismatch.
207	GPRS connection suspended.
208	Authentication failure.
209	User authentication failed.
210	Context not found.
211	All dynamic PDP addresses are occupied.
212	No memory is available.
213	Relocation failure.
214	Unknown mandatory extension header.
215	Semantic error in the TFT operation.
216	Syntactic error in the TFT operation.
217	Semantic errors in packet filter(s).
218	Syntactic errors in packet filter(s).
219	Missing or unknown APN.
220	Unknown PDP address or PDP type.
221	PDP context without TFT already activated.
222	APN access denied – no subscription.
223	APN Restriction type incompatibility with currently active PDP Contexts.
224	MS MBMS Capabilities Insufficient.
225	Invalid Correlation-ID.
226	MBMS Bearer Context Superseded.
227	Bearer Control Mode violation.
228	Collision with network initiated request.
229	APN Congestion.
230	Bearer handling not supported.
231	"Target access restricted for the subscriber".
232	UE is temporarily not reachable due to power saving.
233	Relocation failure due to NAS message redirection.
234-240	For future use.
241-255	Cause values reserved for GPRS charging protocol use.



5.1.2 GTP Causes for LTE Events

The GTP causes for LTE events are the following as described in the 3GPP TS 29.274 V15.4.0 technical specification, also see Reference [14]:

Cause	Description
0	Reserved. Shall not be sent and if received the Cause shall be treated as an invalid IE.
1	Reserved.
2	Local Detach.
3	Complete Detach.
4	RAT changed from 3GPP to Non-3GPP.
5	ISR deactivation.
6	Error Indication received from RNC/eNodeB/S4-SGSN/MME.
7	IMSI Detach Only.
8	Reactivation Requested.
9	PDN reconnection to this APN disallowed.
10	Access changed from Non-3GPP to 3GPP.
11	PDN connection inactivity timer expires.
12	PGW not responding.
13	Network Failure.
14	QoS parameter mismatch.
15	Spare. This value range shall be used by Cause values in an initial/request message.
16	Request accepted.
17	Request accepted partially.
18	New PDN type due to network preference.
19	New PDN type due to single address bearer only.
20-63	Spare. This value range shall be used by Cause values in an acceptance response/triggered message.
64	Context Not Found.
65	Invalid Message Format.
66	Version not supported by next peer.
67	Invalid length.
68	Service not supported.
69	Mandatory IE incorrect.
70	Mandatory IE missing.
71	Shall not be used.
72	System failure.
73	No resources available.
74	Semantic error in the TFT operation.
75	Syntactic error in the TFT operation.



Cause	Description
76	Semantic errors in packet filter(s).
77	Syntactic errors in packet filter(s).
78	Missing or unknown APN.
79	Shall not be used.
80	GRE key not found.
81	Relocation failure.
82	Denied in RAT.
83	Preferred PDN type not supported.
84	All dynamic addresses are occupied.
85	UE context without TFT already activated.
86	Protocol type not supported.
87	UE not responding.
88	UE refuses.
89	Service denied.
90	Unable to page UE.
91	No memory available.
92	User authentication failed.
93	APN access denied – no subscription.
94	Request rejected (reason not specified).
95	P-TMSI Signature mismatch.
96	IMSI/IMEI not known.
97	Semantic error in the TAD operation.
98	Syntactic error in the TAD operation.
99	Shall not be used.
100	Remote peer not responding.
101	Collision with network initiated request.
102	Unable to page UE due to Suspension.
103	Conditional IE missing.
104	APN Restriction type Incompatible with currently active PDN connection.
105	Invalid overall length of the triggered response message and a piggybacked initial message.
106	Data forwarding not supported.
107	Invalid reply from remote peer.
108	Fallback to GTPv1.
109	Invalid peer.
110	Temporarily rejected due to handover/TAU/RAU procedure in progress.
111	Modifications not limited to S1-U bearers.
112	Request rejected for a PMIPv6 reason.
113	APN Congestion.



Cause	Description
114	Bearer handling not supported.
115	UE already re-attached.
116	Multiple PDN connections for a given APN not allowed.
117	Target access restricted for the subscriber.
118	Shall not be used.
119	MME/SGSN refuses due to VPLMN Policy.
120	GTP-C Entity Congestion.
121	Late Overlapping Request.
122	Timed out Request.
123	UE is temporarily not reachable due to power saving.
124	Relocation failure due to NAS message redirection.
125	UE not authorised by OCS or external AAA Server.
126	Multiple accesses to a PDN connection not allowed.
127	Request rejected due to UE capability.
128-239	Spare. For future use in a triggered/response message.
240-255	Spare. For future use in an initial/request message.

5.2 Real-Time Trace Events

The details of all Real-Time Trace events are shown in Table 162.

Table 162 Real-Time Trace Events

Code	Message
GPRS Gn/Gp	
g1-0	PDP Context Active
g1-1	PDP Context SM Abort
g1-2	PDP Context Error
g1-3	PDP Context Timeout
g2-0	PDP Context Terminate
g2-1	PDP Context Terminate SM Abort
g2-2	PDP Context Terminate Error
g2-3	PDP Context Terminate Timeout
g3-0	SGSN Context Request
g4-0	Modify PDP
g4-1	Modify PDP SM abort
g4-3	Modify PDP timeout
g5-0	Peak report
g6-0	Error indication



Table 162 Real-Time Trace Events

Code	Message
g6-1	Error indication abort
g6-2	Error indication error
g6-3	Error indication timeout
MAP	
m2	GSM Location Update
m3	GSM Location Update Cancel Triggered by Device Reconnect
m4	Provide Roaming Number
m7	Insert Subscriber Data
m8	Delete Subscriber Data
m9	Send parameters
m12	Activate supplementary service
m13	Deactivate supplementary service
m14	Interrogate Supplementary Service
m15	Authentication Failure Report
m22	Send Routing Information
m23	GPRS Location Update
m25	GPRS Failure Report
m26	Mobile station ready for 2G/3G
m44	Forward Mobile Terminated SMS
m45	Send Routing Information For SMS
m46-0	SMS Mobile Terminated Deliver SM-TL (carried in mt-ForwardSM)
m46-1	SMS Mobile Terminated Submit Report SM-TL (carried in mo-ForwardSM Ack)
m46-2	SMS Mobile Terminated Status Report SM-TL (carried in mo-ForwardSM Ack)
m46-4	SMS Mobile Originated Deliver Report SM-TL (carried in mt-ForwardSM Ack)
m46-5	SMS Mobile Originated Submit SM-TL (carried in mo-ForwardSM)
m46-6	SMS Mobile Originated Command SM-TL
m47	Report SMS Delivery Status Short message alert MAP procedure
m56	Send Authentication Info
m57	Restore data



Table 162 Real-Time Trace Events

Code	Message
m59	Process unstructured supplementary service request
m63	Inform Service Center
m64	Alert Service Center
m66	Ready for SMS
m67	Purge Mobile Station
m70	Provide subscriber info
m71	Any Time Interrogation
m99	Duplicated TcapID For SMS
LTE GTPv2	
l1-0	Create Session OK
l1-1	Create Session SM Abort
l1-2	Create Session Error
l1-3	Create Session Timeout
l2-0	Modify Bearer OK
l2-1	Modify Bearer SM Abort
l2-2	Modify Bearer Error
l2-3	Modify Bearer Timeout
l3-0	Release Access Bearers OK
l3-1	Release Access Bearers SM Abort
l3-2	Release Access Bearers Error
l3-3	Release Access Bearers Timeout
l4-0	Delete Session OK
l4-1	Delete Session SM Abort
l4-2	Delete Session Error
l4-3	Delete Session Timeout
l5-0	Create Bearer OK
l5-1	Create Bearer SM Abort
l5-2	Create Bearer Error
l5-3	Create Bearer Timeout
l6-0	Update Bearer OK
l6-1	Update Bearer SM Abort
l6-2	Update Bearer Error
l6-3	Update Bearer Timeout
l7-0	Delete Bearer Request OK
l7-1	Delete Bearer Request SM Abort
l7-2	Delete Bearer Request Error
l7-3	Delete Bearer Request Timeout



Table 162 Real-Time Trace Events

Code	Message
I8-0	Downlink Data Notification OK
I8-1	Downlink Data Notification SM Abort
I8-2	Downlink Data Notification Error
I8-3	Downlink Data Notification Timeout
I9-0	Downlink Data Notification Failure OK
I9-1	Downlink Data Notification Failure SM Abort
I9-2	Downlink Data Notification Failure Error
I9-3	Downlink Data Notification Failure Timeout
I10-0	Bearer Resource Failure OK
I10-1	Bearer Resource Failure SM Abort
I10-2	Bearer Resource Failure Error
I10-3	Bearer Resource Failure Timeout
I11-0	Modify Bearer Failure OK
I11-1	Modify Bearer Failure SM Abort
I11-2	Modify Bearer Failure Error
I11-3	Modify Bearer Failure Timeout
I12-0	Delete Bearer Failure OK
I12-1	Delete Bearer Failure SM Abort
I12-2	Delete Bearer Failure Error
I12-3	Delete Bearer Failure Timeout
I42	Throughput Data
LTE Diameter	
d300	User authorization request
d300-0	User Authorization Success
d300-1	User Authorization Failure
d301	Server assignment request
d301-0	Server Assignment Success
d301-1	Server Assignment Failure
d302	Location info request
d302-0	Location Info Success
d302-1	Location Info Failure
d303	Multimedia auth request
d303-0	Multimedia Auth Success
d303-1	Multimedia Auth Failure
d304	Registration termination request
d304-0	Registration Termination Success



Table 162 Real-Time Trace Events

Code	Message
d304-1	Registration Termination Failure
d305	Push profile request
d305-0	Push Profile Success
d305-1	Push Profile Failure
d306	User data request
d306-0	User Data Success
d306-1	User Data Failure
d307	Profile update request
d307-0	Profile Update Success
d307-1	Profile Update Failure
d308	Subscribe notifications request
d308-0	Subscribe Notifications Success
d308-1	Subscribe Notifications Failure
d316	Update Location Request
d316-0	Update Location Success
d316-1	Update Location Failure
d317	Cancel Location Request
d317-0	Cancel Location Success
d317-1	Cancel Location Failure
d318	Authentication Information Request
d318-0	Authentication Information Success
d318-1	Authentication Information Failure
d319	Insert Subscriber Data Request
d319-0	Insert Subscriber Data Success
d319-1	Insert Subscriber Data Failure
d320	Delete Subscriber Data Request
d320-0	Delete Subscriber Data Success
d320-1	Delete Subscriber Data Failure
d321	Purge UE Request
d321-0	Purge UE Success
d321-1	Purge UE Failure
d322	Reset Mobile Station Request
d322-0	Reset Mobile Station Success
d322-1	Reset Mobile Station Failure
d323	Notify Home Subscriber Server Request
d323-0	Notify Home Subscriber Server Success



Table 162 Real-Time Trace Events

Code	Message
d323-1	Notify Home Subscriber Server Failure
5G NSA	
x42-0	Change notification
x42-2	Bearer modification
x42-4	Session deletion

5.3 Field and Request Details

The following sections describe the details of the possible fields and requests in the API.

5.3.1 Field Details

The details of the possible fields are shown in Table 163.

Table 163 Field Details

Field	Description	Length of Fields
serviceRequestId	The Service Request ID of the issued request.	15
serviceRequestSummary	The description of the service request type.	255
serviceRequestNotes	More detailed description of the service request	Unlimited
serviceRequestStatus	The current status of the service request.	N/A
submitDate	Date and time when the service request was validated and accepted by the system.	N/A
company	Company name associated with the customer service request. Alphanumeric value, up to 254 characters.	254
customerNo	Company number assigned to the customer affected by the service request. Eight alphanumeric characters.	30
initiatedBy	Name of the user who submitted the service request.	30
serviceRequestType	The type of the service request.	255
startIMSI	The value of the first IMSI included in the service request. Numeric value, 15 digits.	80
endIMSI	The value of the last IMSI included in the service request. Numeric value, 15 digits.	80
startMSISDN	The value of the first MSISDN included in the service request. Numeric value, 15 digits (country code prefix + is not included).	80



Table 163 Field Details

Field	Description	Length of Fields
endMSISDN	The value of the last MSISDN included in the service request. Numeric value, 15 digits (country code prefix + is not included).	80
numberScheme	The numbering scheme for IMSI and MSISDN numbers.	254
serviceContract	Name of the service contract impacted by this request.	Unlimited
serviceContractDescription	Optional. A text that describes the service contract.	128
subscriptionPackageName	Name of the subscription package impacted by this request.	80
subscriptionPackageDescription	Optional. A text that describes the subscription package.	128
simSpecification	ID of the SIM specification.	Unlimited
simSpecificationDescription	Optional. A text that describes the SIM specification.	128
region	Identifier of the region or MSISDN pool.	255
regionDescription	Optional. A text that describes the region.	128
requestedSubscriptionsQuantity	The number of subscriptions ordered.	N/A
deliveryState	State of the subscriptions being delivered: active or deactivated.	254
requiredDate	Date and time for when the service request is to be fulfilled. Value format: YYYY/MM/DD.	N/A
closedDate	Date and Time when service request was fully completed by the system	N/A
emailToSendSIMDetails	E-mail address to be used when SIM order is completed and result file is provided.	80
customerContactName	Reference contact name at the customer site for the the delivery.	For SIM orders/SIM stocks
customerContactPhoneNumber	Reference contact phone number at the customer site for the delivery.	For SIM orders/SIM stocks
packageMarking	Any special marking on the delivery.	80
serviceLocationAddress	Reference contact address.	255
urgency	Level of urgency. The possible values are the following: <ul style="list-style-type: none"> critical high medium low 	N/A
categoryLevel1	Optional. Service request category level 1.	For change requests
categoryLevel2	Optional. Service request category level 2 is deprecated, it can be left out from a request of filled with dummy information.	For change requests
phoneNumber	Reference contact phone number	50



Table 163 Field Details

Field	Description	Length of Fields
emailAddress	Reference contact e-mail address.	255
newSubscriptionPackageName	The name of the target subscription package.	80
newRegion	Identifier of the target region or MSISDN pool.	255
newCustomerLabel	Optional. The new customer label of the subscriptions.	80
newTriggerPackage	Optional. The new Trigger Package to be assigned to the subscription package.	80
arp	Optional. The details of the alternative roaming provider.	10

5.3.2 Fields and Requests

The details of the fields and of the following requests are shown in Table 164.

- New SIM Order
- Change Subscription Package
- Change Region
- Change State
- Change Customer Label
- Change Trigger Package
- Reactivate Subscriptions
- Change ARP Subscriptions

Table 164 Fields and Requests

Fields	New SIM Order	Change Subscription Package	Change Region	Change State	Change Customer Label	Change Trigger Package	Reactivate Subscriptions	Change ARP Subscriptions
serviceRequestId	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
serviceRequestSummary	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
serviceRequestNotes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
serviceRequestStatus	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
submitDate	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
company	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
customerNo	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
initiatedBy	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
serviceRequestType	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
startIMSI	No	Yes	Yes	Yes	Yes	No	Yes	Yes
endIMSI	No	Yes	No	Yes	Yes	No	Yes	Yes



Table 164 Fields and Requests

Fields	New SIM Order	Change Subscription Package	Change Region	Change State	Change Customer Label	Change Trigger Package	Reactivate Subscriptions	Change ARP Subscriptions
startMSISDN	No	Yes	No	Yes	Yes	No	Yes	Yes
endMSISDN	No	Yes	No	Yes	Yes	No	Yes	Yes
numberScheme	No	No	No	No	No	No	No	No
serviceContract	Yes	Yes	No	Yes	No	No	Yes	No
serviceContractDescription	Yes	No	No	No	No	No	No	No
subscriptionPackageName	Yes	Yes	No	No	No	No	Yes	No
subscriptionPackageDescription	Yes	Yes	No	No	No	No	Yes	No
simSpecification	Yes	No	No	No	No	No	No	No
simSpecificationDescription	Yes	No	No	No	No	No	No	No
region	Yes	No	Yes	No	No	No	No	No
regionDescription	Yes	No	Yes	No	No	No	No	No
requestedSubscriptionsQuantity	Yes	No	No	No	No	No	No	Yes
deliveryState	Yes	No	No	No	No	No	No	No
requiredDate	Yes	No	No	No	No	No	No	No
closedDate	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
emailToSendSIMDetails	Yes	No	No	No	No	No	No	No
customerContactName	Yes	No	No	No	No	No	No	No
customerContactPhoneNumber	Yes	No	No	No	No	No	No	No
packageMarketing	Yes	No	No	No	No	No	No	No
serviceLocationAddress	Yes	No	No	No	No	No	No	No
urgency	No	No	No	No	No	No	No	No
categoryLevel	No	No	No	No	No	No	No	No



Table 164 Fields and Requests

Fields	New SIM Order	Change Subscription Package	Change Region	Change State	Change Customer Label	Change Trigger Package	Reactivate Subscriptions	Change ARP Subscriptions
categoryLevel2	No	No	No	No	No	No	No	No
phoneNumber	No	No	No	No	No	No	No	No
emailAddress	No	No	No	No	No	No	No	No
newSubscriptionPackageName	No	Yes	No	No	No	No	No	No
newRegion	No	No	Yes	No	No	No	No	No
newCustomerLabel	No	No	No	No	Yes	No	No	No
newTriggerPackage	No	No	No	No	No	Yes	No	No
arp	No	No	No	No	No	No	No	Yes

5.4 QueryServiceRequests serviceRequestType

The possible values for serviceRequestType are the following:

- ALLOCATE_PROFILE
- APPLY_FEES
- APPROVE_ORDER
- BUNDLEPACKAGE_CREATE
- BUNDLEPACKAGE_DELETE
- BUNDLEPACKAGE_UPDATE
- BUNDLEZONE_CREATE
- BUNDLEZONE_DELETE
- CALLBACK_DELETE
- CALLBACK_DISABLE
- CALLBACK_DOWNLOAD
- CALLBACK_ENABLE
- CANCEL_ORDER
- CESS



- CESS_CONTEXT
- CHANGE_ALTROAMINGPROVIDER
- CHANGE_SP_EUICC
- CHANGE_SUBSCRIPTIONIP
- CHANGE_SUBSCRIPTIONLABEL
- CHANGE_SUBSCRIPTIONOWNER
- CHANGE_SUBSCRIPTIONOWNER_PARENT
- CHANGE_SUBSCRIPTIONPACKAGE
- CHANGE_SUBSCRIPTIONPACKAGE_PARENT
- CHANGE_SUBSCRIPTIONREGION
- CHANGE_SUBSCRIPTIONREGION_PARENT
- CHANGE_SUBSCRIPTIONSTATE
- CHANGE_SUBSCRIPTIONSTATE_EUICC
- CHANGE_SUBSCRIPTIONSTATE_PARENT
- CHANGE_SUBSCRIPTION_NOTE
- CREATE_SUBSCRIPTION
- CREATE_SUBSCRIPTION_EUICC
- DELETE
- DEVICE_RECONNECT
- DISABLE
- DOWNLOAD
- ENABLE
- ENTERPRISE_CREATE
- ENTERPRISE_UPDATE
- EUICC_ADD_LOCALE
- EUICC_ADD_LOCALE_BATCH
- EUICC_ALLOCATE_PROFILE
- EUICC_ALLOCATE_PROFILE2



- EUICC_DELOCALIZATION
- EUICC_DELOCALIZATION_BATCH
- EUICC_DISABLE_ACTIVE
- EUICC_EXTERNALIZE_PROFILE
- EUICC_EXT_CHANGE_SM_SR
- EUICC_EXT_DELETE_WITH_ICC
- EUICC_EXT_DISABLE_WITH_ICC
- EUICC_EXT_DOWNLOAD_WITH_ICC
- EUICC_EXT_ENABLE_WITH_ICC
- EUICC_EXT_GET_EIS
- EUICC_EXT_UPDATE_SUBSCRIPTION
- EUICC_LOCALIZATION
- EUICC_LOCALIZATION_BATCH
- EUICC_NOTIF_PROFILE_DELETED
- EUICC_NOTIF_PROFILE_DISABLED
- EUICC_NOTIF_PROFILE_ENABLED
- EUICC_NOTIF_SMSR_CHANGE
- EUICC_ORDER
- EUICC_PROFILE_ORDER
- EUICC_REMOVE_LOCALE
- EUICC_RESET_COUNTERS
- EUICC_SET_FALLBACK_ATTR
- EUICC_STATE_REFRESH
- EUICC_STOCK_ORDER
- EUICC_SYNCHRONIZE
- EUICC_UPDATE_LABEL
- EUICC_UPDATE_PROFILE
- EXECUTE_ACTION



- EXECUTE_USE_CASE
- GET_EIS
- INDIVIDUAL_APN_UPDATE
- KEYCONFIGURATION_CREATE
- LOCK_SUBSCRIPTIONSTATE
- OPERATOR_UPDATE
- PBR_EXIT
- PCL_LIMIT_100_EXCEEDED
- POLICY_CONTROL_CREATE
- PREPARE_SMSR_CHANGE
- PROFILESPECIFICATION_CREATE
- PROFILESPECIFICATION_UPDATE
- REASSIGN_MSISDN
- REJECT_ORDER
- RESUME_ORDER
- SERVICECONTRACT_CREATE
- SERVICECONTRACT_UPDATE
- SET_FALLBACK_ATTRIBUTE
- SIMSPECIFICATION_CREATE
- SIMSPECIFICATION_UPDATE
- SIM_ORDER
- SMSR_CHANGE
- SM_ESM_CONTEXT_UPDATE
- SM_PDP_CONTEXT_UPDATE
- STOCK_ORDER
- STORE_POOL
- STORE_SCHEME
- SUBSCRIPTIONPACKAGE_CREATE



- SUBSCRIPTIONPACKAGE_UPDATE
- THROTTLE_IMSI
- TIME_BASED_CSP
- TIME_BASED_CSS
- TRIGGERPACKAGE_ASSIGN
- TRIGGERPACKAGE_CREATE
- TRIGGERPACKAGE_DELETE
- TRIGGERPACKAGE_UPDATE
- TRIGGER_ACTION
- UNLOCK_SUBSCRIPTIONSTATE
- UPDATE_IMEI
- UPDATE_PROVISIONED_IMEI
- UPDATE_SUBSCRIPTION_ADDRESS
- Create or Update PDP Context Profile and/or ESM Profile
- APN - Delete APN
- APN - Update IPv4 enabled APN (APN without VPN)
- APN - Update APN (APN with VPN)
- Enterprise - Terminate enterprise
- SMSC - Add SMSC Account
- SMSC - Change SMSC Account
- Roaming Profile - Create 2G/3G Roaming Profile
- Roaming Profile - Disable 2G/3G or LTE Roaming Profile
- SMSC - Delete SMSC
- LTE - Enable/Remove LTE on APN
- IMSI/MSISDN - Add New IMSI/MSISDN range
- Billing - Create Price Plan - Basic
- Billing - Create Price Plan - Complex
- Billing - Update Price plan - Basic



- Billing - Update Price plan - Complex
- Billing - Close Price Profile
- Billing - Change invoice/SIM address and/or financial information
- Billing - Order form
- Bundles - Free Bundles - Tiered Bundles - Balance Management
- SIM SPEC - Create/Update/Disable SIM SPEC
- IR 21 updates
- Billing - Invoice Adjustments
- SIM Order - SIM order cancel request or other details
- Enterprise - Enterprise Name Change
- Device Localization - Set up Device Localization
- Device Localization - Update Device Localization
- Device Localization - Adding new Supporting Operator to an already existing alliance
- Device Localization - Remove an existing Supporting Operator from a Device Localization setup
- Device Localization - Deactivate Device Localization/eUICC resources
- eUICC Specification - Create/Update eUICC Spec (SIM cards without Device Localization)
- Roaming Profile - Update 2G/3G Roaming Profile
- Roaming Profile - Update LTE Roaming Profile
- Roaming Profile - Create LTEv2 Roaming Profile
- APN - new APN (with no VPN)
- APN - existing APN + new VPN
- APN - new APN + existing VPN
- APN - new APN + new VPN
- Fulfillment Service Request e-mail alias
- Incident e-mail alias



- Billing - Update Price Plan - Price Plan GUI
- Document Library - Add/Remove Document in Service Portal Library
- IMSI/MSISDN - Modify existing IMSI/MSISDN range
- Billing - Split Billing
- APN - Update APN (APN without VPN) with IPv6
- APN - new APN with IPv6 (no VPN)
- IMSI/MSISDN - Add New Number Scheme
- APN - Add/Modify IP range for an existing APN
- Subscription - Stop commitment timer when in PAUSE state
- APN - new APN (with no VPN) with IPv4 and CCv2
- APN - Update IPv4 enabled APN (APN without VPN) and CCv2
- Billing - Update Wholesale Price Plan -Price Plan GUI
- APN - Change APN type
- Enterprise - Reseller - Terminate enterprise
- APN - new APN (with no VPN) via GUI
- APN - Delete APN via GUI
- APN - Update APN (APN without VPN) via GUI
- Billing - Update Price Plan - Price Plan Administration GUI
- Inbound Device Localization – Set up new OR Update existing Inbound Device Localization
- Extended Device Localization – Set up new OR Update existing Extended Device Localization
- Enterprise - Terminate Enterprise with Device Localization setup



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