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Oracle Communications Cloud Native Core, Provisioning Gateway Interface Specification Guide, Release 26.1.201

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Preface

- Documentation Accessibility
- Diversity and Inclusion

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Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which user supply particular values.
`monospace`	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that user enter.

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Acronyms

The following table provides information about the acronyms and the terminologies used in the document:

Table Acronyms and Terminologies

Field	Description
5G-AN	5G Access Network
5GC	5G Core Network
5G-GUTI	5G Globally Unique Temporary Identifier
5GS	5G System
AMF	Access and Mobility Management Function
API	Application Programming Interface
ASM	Aspen Service Mesh
AUSF	Authentication Server Function
CEA	Capability Exchange Answer
CER	Capability Exchange Request
CNE	Oracle Communications Cloud Native Core, Cloud Native Environment
CNLB	Cloud Native Load Balancer
CRD	Custom Resource Definition
CNI	Container Network Interface
CSV	Comma Separated Value
cnPCRF	Cloud Native Policy and Charging Rules Function
DAC	Discretionary Access Control
ECR	Mobile Equipment Identity Check Request
EIC	Equipment Identity Check
EGW	Egress Gateway
EIR	Equipment Identity Register
EXTID	External Identifier
FQDN	Fully Qualified Domain Name
GPSI	Generic Public Subscription Identifier
GSM	Global System for Mobile communication
GUI	Graphical User Interface
HPA	Horizontal Pod Autoscaler
HTTP	Hypertext Transfer Protocol
IE	Information Element
IGW	Ingress Gateway
IMEI	International Mobile Equipment Identity
IMSI	International Mobile Subscriber Identity
IMSISV	International Mobile Equipment Identity Software Version
JSON	JavaScript Object Notation
LCM	Lifecycle Management
MME	Mobility Management Entity
MSISDN	Mobile Station Integrated Services Digital Network

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Table (Cont.) Acronyms and Terminologies

Field	Description
NAI	Network Access Identifier
NADs	Network Attachment Definitions
NEF	Oracle Communications Cloud Native Core, Network Exposure Function
NF	Network Function
NRF	Oracle Communications Cloud Native Core, Network Repository Function
NSI ID	Network Slice Instance Identifier
NSSAI	Network Slice Selection Assistance Information
NSSF	Oracle Communications Cloud Native Core, Network Slice Selection Function
NSSP	Network Slice Selection Policy
OAM	Operations Administration and Maintenance
OSO	Operational Service Overlay
PDB	PodDisruptionBudget
PDBA	Provisioning Database Application
PDBI	Provisioning Database Interface
PEI	Permanent Equipment Identifier
PCF	Policy Control Function
PCRF	Policy and Charging Rules Function
PSP	Pod Security Policy
PVC	Persistent Volume Claim
REST	Representational State Transfer
SBA	Service-Based Architecture (SBA)
SBI	Service Based Interface
SEPP	Oracle Communications Cloud Native Core, Security Edge Protection Proxy
SH	Diameter Interface
SLF	Subscriber Location Function
SMF	Session Management Function
SOAP	Simple Object Access Protocol
SUPI	Subscription Permanent Identifier
TCP	Transmission Control Protocol
TPS	Transaction Per Second
UDM	Unified Data Management
UDR	Oracle Communications Cloud Native Core, Unified Data Repository
UE	User Equipment
VSA	Vendor Specific Attribute
UDSF	Unstructured Data Storage Function
XML	Extensible Markup Language

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What's New in This Guide

This section lists the documentation updates for release 26.1.2xx.

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- Added or updated the GET and PUT operations for the following in Configuration APIs for Provisioning Gateway Microservices:
  - PROVGW-SERVICE
  - AUDITOR-SERVICE
  - PROVGW-GLOBAL
  - AUDIT_FILE_STATUS
  - congestionConfig
  - podProtectionByRateLimiting

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1 Introduction

This guide describes the SOAP/XML, REST, and API specifications of Provisioning Gateway.

1.1 Overview

Integration of Provisioning Gateway with 5G UDR provides all features required for the Converged Policy DB solution.

Converged Policy DB solution is a converged solution for 4G and 5G UDR. It provides provisioning endpoints for SOAP/XML interface with backward compatible interface specifications of 4G UDR.

Features

Provisioning Gateway supports following features:

- Supports all default entities of 4G UDR
- Supports custom entities and fields on the SOAP/XML interface
- Supports TLS on HTTP1.1
- Supports configuration of SEC via SEC.yaml file to add entity or field names
- Converts the input request as per the SEC.yaml definition

1.2 Provisioning Gateway Modes

The modes of Provisioning Gateway are:

- **SLF Mode:** This mode is applicable when Provisioning Gateway is deployed with UDR for SLF. In this mode, Provisioning Gateway is configured to connect to multiple segments of SLF. Each segment has two SLFs. For REST API specifications of SLF, see the **Operations Supported for SLF Data** in the *Oracle Communications Cloud Native Core, Unified Data Repository REST Specification Guide*.
- **UDR Mode:** This mode is applicable when Provisioning Gateway is deployed with UDR for Converged Policy DB solution. In this mode, Provisioning Gateway supports SOAP/XML interface, which is a used provision in the 4G Policy Data. For SOAP/XML API specifications, see the Supported SOAP/XML Operations section in this guide.

1.3 References

Refer to the following documents for more information on Provisioning Gateway usage in 5G Cloud Native Environment.

- *Oracle Communications Cloud Native Core, Provisioning Gateway Installation Guide*
- *Oracle Communications Cloud Native Core, Unified Data Repository User Guide*
- *Oracle Communications Cloud Native Core, Unified Data Repository Installation, Upgrade, and Fault Recovery Guide*

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- *Oracle Communications Cloud Native Core, Unified Data Repository Network Impact Report*

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2
SOAP/XML Interface on 5G UDR

Overview

4G UDR supports SOAP/XML interface as a provisioning interface. To provide similar experience on 5G UDR, Converged Policy DB solution supports integration of SOAP/XML interface on the Provisioning Gateway application.

Converged Policy DB solution is a converged solution for 4G and 5G UDR. It provides provisioning endpoints for SOAP/XML interface with backward compatible interface specifications of 4G UDR. The Provisioning Gateway:

- Exposes SOAP endpoints to which customer provisioning systems (like BOSS) connect and send SOAP/XML requests.
- Converts the SOAP/XML requests and sends the corresponding REST/JSON requests to 5G UDR for provisioning the subscriber and all other 4G entities.

> **Note**
>
> – 5G UDR or Provisioning Gateway solution does not support pool profile or entities.
>
> – The 4G policy data is stored on 5G UDR using VSA feature. For more details on REST/JSON requests, see the *Oracle Communications Cloud Native Core, Unified Data Repository REST Specification Guide*.
>
> – 5G Policy data provisioning is not supported.

2.1 Understanding SOAP/XML Interface

UDR supports a SOAP based provisioning interface for management of subscriber data. This interface supports querying, creation, modification and deletion of subscriber data.

The SOAP Messages and SOAP Replies are sent over the HTTP protocol. Each SOAP Message or Reply contains a UDR format XML request or response. It supports XML request types like update, insert, delete and select.

A SOAP provisioning client application is responsible for:

- Establishing a TCP/IP connection with Provisioning Gateway IP and port number.
- Creating and sending SOAP request messages to the Provisioning Gateway.
- Receiving and processing SOAP response messages received from the Provisioning Gateway.
- Detecting and handling connection errors. It is recommended that the TCP keep-alive interval for the client on the TCP/IP connection is set to detect and report a disconnection problem promptly.

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2.1.1 SOAP Header Format

In the SOAP messages, the user authentication is part of the SOAP envelope header.

2.1.2 SOAP Request or Response Format

The SOAP interface uses SOAP as a wrapper of XML requests and responses. A sample SOAP request and response format is shared below:

SOAP Request Format

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:ns1="http://www.oracle.com/udr/">
<SOAP-ENV:Body>
<ns1:processTransaction>
<![CDATA[REQUEST]]>
</ns1:processTransaction>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Sample SOAP Request

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:ns1="http://www.oracle.com/udr/">
<SOAP-ENV:Body>
<ns1:processTransaction>
<![CDATA[
<req name="insert">
<ent name="Subscriber"/>
<set>
<expr><attr name="MSISDN"/>
<value val="33628323201"/></expr>
<expr><attr name="BillingDay"/>
<value val="12"/></expr>
</set>
</req>
]]>
</ns1:processTransaction>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

The SOAP interface uses the following wrapper for the XML response and error codes.

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SOAP Response Format

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:ns1="http://www.oracle.com/udr/">
<
<SOAP-ENV:Body>
<ns1:message error="ErrorCode">
<![CDATA[RESPONSE]]>
</ns1:message>
</SOAP-ENV:Body>
|
<SOAP-ENV:Body
SOAP-ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/">
<SOAP-ENV:Fault>
...
</SOAP-ENV:Fault> </SOAP-ENV:Body>
>
</SOAP-ENV:Envelope>
```

Sample SOAP Response

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:ns1="http://www.oracle.com/udr/">
<
<SOAP-ENV:Body>
<ns1:message error="ErrorCode">
<![CDATA[<req name="insert" resonly="y">
  <res error="0" affected="1"/>
</req>]]>
</ns1:message>
</SOAP-ENV:Body>
```

> **Note**
>
> Either the **<ns1:message>** or **<SOAP-ENV:Fault>** element is present, but not both. The content of the <SOAP-ENV:Fault> element depends on the SOAP error that occurs and can vary, which is not listed here.

2.1.3 Status Codes and Error Messages

If an error occurs in processing the request or in message format, then the following error result code is sent:

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- Request transaction, '**<message error="0">: normal**' is sent and processed.
- <message error ="0"> but the message content has <res error="any error code number except 0">. This implies that there is a problem with the content of the request message. For example: problem with format or value out of range. UDR generates these error code numbers.
- <message error="10">: Communication problem, unable to process the request transaction. The response does not contain any other response/error content.
- <message error="20">: Unable to parse the request transaction. The response does not contain any other response/error content.

Example: Response message indicates success:

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:ns1="http://www.oracle.com/udr/">
<SOAP-ENV:Body>
<ns1:message error="0">
<![CDATA[<req name="insert" resonly="y">
<res error="0" affected="1"/>
</req>]]>
</ns1:message>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Example: Response message returns an error code:

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:ns1="http://www.oracle.com/udr/">
<SOAP-ENV:Body>
<ns1:message error="0">
<![CDATA[<req name="insert" resonly="y">
<res error="70019" affected="0"/>
</req>]]>
</ns1:message>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Example: Response message when a communication error occurs:

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
```


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```
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:ns1="http://www.oracle.com/udr/">
<SOAP-ENV:Body>
<ns1:message error="10"></ns1:message>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Example: Response message when a request parsing failure occurs:

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:ns1="http://www.oracle.com/udr/">
<SOAP-ENV:Body>
<ns1:message error="20"></ns1:message>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Example: Response message when a SOAP Fault occurs:

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:ns1="http://www.oracle.com/udr/">
<SOAP-ENV:Body
SOAP-ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"> <SOAP-
ENV:Fault>
<faultcode>SOAP-ENV:Client</faultcode> <faultstring>Method
'processTransaction' not implemented: method name or namespace not
recognized</faultstring>
<detail></detail>
</SOAP-ENV:Fault>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

2.1.4 Basic XML Message Format

Request

The following code snippet describes the basic layout of an XML request, with all different options and parameters. UDR requests consists of different combinations of the parameters, which are listed for illustrative purposes. Following examples are given for parameters that are relevant for each request:

```
<req name="reqname" [resonly="resonly"] [id="id"]>
<ent name="entityname"/>
<select>
<expr><attr name="fieldName"/>
```


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```
</select>

<set>
<expr><attr name="fieldName"/><value val="fieldValue"/></expr>
<expr><attr name="fieldName"/><op value="="/><value val="" isnull="y"/></expr>

<oper name="AddToSet">
<expr><attr name="setFieldName"/><value val="setFieldValue"/></expr>
</oper>

<oper name="RemoveFromSet">
<expr><attr name="setFieldName"/><value val="setFieldValue"/></expr>
</oper>

<expr><attr name="cdataFieldName"/><op value="="/><cdata>
<![CDATA[
cdataFieldValue
]]></cdata></expr>

</set>

<where>
<expr><attr name="keyName"/><op value="="/><value val="keyValue"/></expr>
<expr><attr name="rowKeyName"/><op value="="/><value val="rowKeyValue"/></
expr>
<expr><attr name="instanceFieldName"/><op value="="/>
<value val="instanceFieldValue"/></expr>
</where>

<oper name="operName">
<expr><attr name="fieldName"/><value val="fieldValue"/></expr>
</oper>

</req>
```

The **reqname** attribute indicates the type of request being sent. **Values** are either insert, update, delete, or select, depending on the request.

> **Note**
>
> The **resonly** attribute controls whether or not the original request is included along with the response. The resonly attribute is optional, and if set to y, then the original request is not included in the response (result only). If resonly is set to n, then the original request is included in the response. The default value of the flag (when the resonly attribute is not supplied) is n—that is, return the request in the response.

Provisioning Gateway uses the **id attribute** to correlate request and response messages. The id attribute is optional and if specified, is an integer between 1 and 4294967295 expressed as a decimal number in ASCII. If a user specifies the id attribute in a request, then provisioning gateway returns the same id attribute and its value in the corresponding response. So, a unique id value must be sent in each request message to differentiate responses.

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The **entityname** attribute identifies the provisioning entity type on which the request is performed. Its values are either subscriber, DynamicQuotaEntity, QuotaEntity or StateEntity depending on the request, which match the configured entity values in the SEC.

When a field value is included to be set (for example in an insert/update request), a **<set>** element is present. In this, one or many **<expr><attr name="fieldName"/><value val="fieldValue"/></expr>** elements are present. The **fieldName** indicates the name of the field being set, and the **fieldValue** is the value to set it to. To delete the value of a field, set the fieldValue as empty (""), and additionally specify the attribute isnull="y".

When a field value is included to be retrieved (for example in a select request), a <select> element is present. In this, one or many **<expr><attr name="fieldName"/></expr>** elements are present. The **fieldName** indicates the name of the field being retrieved. For a select request, at least one field value must be requested. Only the fields requested returns in the response.

When a field is a list type (such as entitlement in profile), an embedded operation request is used to add/remove values from the list. This is performed by including the element **<oper name="operName">** where operName is either 'AddToSet' (to add a value to a list) or 'RemoveFromSet' (to remove a value from a list). The name of the field being modified is specified in setFieldName, and the values being added/removed are specified in setFieldValue. You can specify multiple comma separated values in the setFieldValue, or with each individual value in a separate **<expr><attr name="setFieldName"/><value val="setFieldValue"/></expr>** element.

> **Note**
>
> The **ns** attribute is optional, and you can provide its value for backward compatibility with the legacy SPR. Its value is not validated, and ignored.

To set a field as an XML data blob, the **cdataFieldValue** contains a <cdata> element, and the data in the constructs of an XML CDATA section. The CDATA section starts with <![CDATA[, then the cdataFieldValue containing the XML data blob, and the CDATA section ends with]]>.

Most commands identify the subscriber for whom the provisioning request is made by specifying the subscriber address in the <where> element. When the <where> element value is present, a key type/value must be provided. Depending on the command, keyType can be IMSI, MSISDN or AccountId. The value of the key (of the indicated key type) is set in keyValue.

Depending on the keyType, it validates the keyValue as shown below:

Table 2-1 keyValue Validation for keyType

keyType	keyValue validation
IMSI	5 to 15 numeric digits
MSISDN	5 to 15 numeric digits NOTE: A preceding + (plus) symbol is not supported, and is rejected.
AccountId	1 to 36 characters (allowed values follow ^[a-zA-Z0-9]{1,36}$ regex)

When a request performs an action on a specific row in an entity (such as updating a field value in a specific quota instance), the row key field name used to select the row is specified in **rowKeyName**. The value of key is specified in rowKeyValue. If a field in the row can indicate uniqueness, in the case of more than one row having the same rowKeyName/rowKeyValue,

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then this field is specified in instanceFieldName/instanceFieldValue. When the **reqname** is set to operation, the <oper> element is present. This defines the operation name in operName.

XML Comments in a Request

A SOAP request may contain XML comments, such as:

<!--comment-->

- If the comment is in the request, it is ignored.
- If the comment is a part of the XML blob for an opaque entity, in the CDATA constraint, then the comment stores in the XML blob.
- If the comment is contained with the XML blob for a transparent entity, in the CDATA constraint, then the comment is not stored in the XML blob.

Response

The following code snippet describes the basic layout of an XML response, with all different options and parameters included. UDR responses are made up of different combinations of the parameters, which are listed for illustrative purposes.

```
<req name="reqname" [resonly="resonly"] [id="id"]>
originalXMLRequest

<res error="error" affected="affected"/>

<rset>

<row>
<rv>rowValue</rv>
<rv>
<![CDATA[
cdataRowValue
]]>
<rv></rv>
<rv null="y"/>
</row>

</rset>
</req>
```

The **reqname** attribute contains the same value as sent in the request. The values are either insert, update, delete, select, or operation, depending on the request. If the resonly attribute is part of the request, the same value is returned in the response.

If the **id** attribute is included in the request, the same value is returned in the response. The originalXMLRequest element is the text of the original XML request that is sent. This is only present if the resonly="n" attribute is set in the original request (or the resonly attribute is not supplied, as the default value is n).

The **error** attribute indicates the outcome of the request. The 0 value indicates success. Any other value indicates failure. The possible errors for each request is detailed in the following section for each request.

The **affected** attribute indicates the number of affected subscribers. A value of 1 (or more) is expected for success and 0 for failure.

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If a select request is sent (or with some operation requests), result data returned is contained in a **<rset>** (rowset) element. An <rset> can be zero (if matching data was not found) or one <row> element (UDR does not support returning multiple <row> elements). In a <row> are one or more <rv> (row value) elements containing a rowValue detailing the requested field value. One <rv> element corresponds for every fieldValue requested in the select request. The <rv> elements are given in the same order as the fieldValues are specified.

> **Note**
>
> An <rv> element can contain an entire XML CDATA section, starting with <![CDATA[, then the cdataRowValue containing the XML data blob, and the CDATA section ends with]]>. If the <rv> element represents a valid field that is not present in the XML data blob, then it is indicated with <rv null="y">. If the field is present in the XML blob with an empty value, then it is indicated with <rv></rv>. Whenever XML blob data is returned, fields may not be returned in the order they are defined in the SEC. The fields may return in any order.

2.1.5 List of Messages

The following table provides a list of operations/messages for subscriber data. Each row of the table represents a command.

Table 2-2 Summary of Supported Subscriber Commands

Operation Type	Command	SOAP
Subscriber Profile	Create Profile	insert
	Get Profile	select
	Delete Profile	delete
Subscriber Field	Add Field Value	update (using “AddToSet” operation)
	Get Field	select
	Update Field	update
	Delete Field	update, null
	Delete Field Value	update (using “RemoveFromSet” operation)
Subscriber Opaque Data	Create Opaque Data	insert
	Get Opaque Data	select
	Update Opaque Data	update
	Delete Opaque Data	update (using “isnull” attribute)
Subscriber Data Row	Create Row	insert
	Get Row	select
	Delete Row	delete
	Get Row Field	select
Subscriber Data Row Field	Update Row Field	update
	Delete Row Field	update (using “isnull” attribute)
	Create Data Field	insert
Subscriber Data Field	Get Data Field	select
	Update Data Field	update
	Delete Data Field	update (using “isnull” attribute)

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Table 2-2 (Cont.) Summary of Supported Subscriber Commands

Operation Type	Command	SOAP
Subscriber Special Operation	Reset Quota	operation
	Get Subscription Status	operation

2.2 Supported SOAP/XML Operations

The 5G UDR supports following SOAP/XML operations:

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
Subscriber Commands	Create Profile only	<req name="insert" resonly="y"><ent name="Subscriber"/><set><expr><attr name="AccountId"/><value val="10404723525"/></expr><expr><attr name="MSISDN"/><value val="33123654862"/></expr><expr><attr name="IMSI"/><value val="184569547984229"/></expr><expr><attr name="BillingDay"/><value val="1"/></expr><expr><attr name="Entitlement"/><value val="DayPass,DayPassPlus"/></expr></set></req>	<req name="insert" resonly="y"><res error="0" affected="1"/></req>	• In subscriber profile, Provisioning Gateway is not considering the "extid" as a key as it is not present in 4G UDR, so only imsi, msisdn,accountId and nai are considered as a key. • Anyone among four (imsi, msisdn, accountId and nai) must be present in the payload to construct the URI.	Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
	Create Profile with entities	<req name="insert" resonly="y"> <ent name="Subscriber"/> <set> <expr><attr name="AccountId"/><value val="178322212122"/></expr> <expr><attr name="MSISDN"/><value val="1514555123 4,15141234567"/></expr> <expr><attr name="IMSI"/><value val="302370123456789"/></expr> <expr><attr name="BillingDay"/><value val="6"/></expr> <expr><attr name="Entitlement"/><value val="DayPass,DayPassPlus"/></expr> <expr><attr name="Quota"/><op value="="/> <cdata><!	<req name="insert" resonly="y"> <res error="0" affected="1"/> </req>	• It supports Quota entity operations for "usage" as a element string. Similarly for other entities, it supports the default Element string type. **Example:** Quota -> usage, DynamicQuota -> definition, State -> state	Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		[CDATA[<?xml version="1.0" encoding="UTF-8"?> <usage> <version>3</version> <quota name="Weekend"> <totalVolume>100</totalVolume> <Type>quota</Type> <QuotaState>active</QuotaState> <nextResetTime>2014-01-10T02:00:00</nextResetTime> <cid>9223372036854775808</cid> </quota> <quota name="Evenings"> 			

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		<totalVolume>100</totalVolume> <Type>quota</Type> <QuotaState>active</QuotaState> <nextResetTime>2014-02-01T00:00:00</nextResetTime> <cid>9223372036854775809</cid> </quota> </usage>]]> </cdata> </expr> <expr><attr name="State"/><op value="="/> <cdata><![CDATA[<?xml version="1.0" encoding="UTF-8"?> <state> <version>1</version>			

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		<property> <name>mcc</ name> <value>302</ value> </ property> <property> <name>expire< /name> <value>2014-0 2-09T11:20:32 </value> </ property> </ state>]]> </ cdata> </expr> </set> </req>			

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
	Retrieve Subscriber	<req name="select" resonly="y"> <ent name="Subscriber"/> <where> <expr><attr name="MSISDN" /><op value="="/> <value val="33123654862"/></expr> </where> </req>	<req name="select" resonly="y"> <res error="0" affected="1"/> <rset> <row> <rv> <![CDATA[<?xml version="1.0" encoding="UTF-8"?> <subscriber> <field name="AccountId">10404723525</field> <field name="MSISDN">33123654862</field> <field name="IMSI">184569547984229</field> <field name="BillingDay">1</field> <field name="Tier"></field> <field name="Entitlement">Weekpass</field> <field	Only the First Key from the set of multiple keys in the where clause is taken into consideration. Other Keys are ignored.	Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
			name="Entitlement">DayPass</field> </subscriber>]]> </rv> </row> </rset> </req>		
	Delete Subscriber	<req name="delete"> <ent name="Subscriber"/> <where> <expr><attr name="MSISDN"/><op value="="/> <value val="33123654862"/></expr> </where> </req>	<req name="delete"> <req name="delete"> <ent name="Subscriber"/> <where> <expr><attr name="MSISDN"/><op value="="/> <value val="33123654862"/></expr> </where> </req> <res error="0" affected="1"/> </req>	Only the First Key from the set of multiple keys in the where clause is taken into consideration. Other Keys are ignored.	Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
Subscriber Field Commands	Add new fields	<req name="update" resonly="y" id="13579"> <ent name="Subscriber"/> <set> <oper name="AddToSet"> <expr><attr name="Entitlement"/ ><value val="DayPass" /></expr> </oper> </set> <where> <expr><attr name="MSISDN" /><op value="="/> <value val="331236548 62"/></expr> </where> </req>	<req name="update" resonly="y" id="13579"> <res error="0" affected="1"/ > </req>	The AddToSset and RemoveFromSet commands always return success, because of the PATCH operations on UDR.	Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Add to an existing value in a multivalued field <req name="update" resonly="y" id="13579"> <ent name="Subscriber"/> <set> <oper name="AddToSet"> <expr><attr name="Entitlement"/> <value val="DayPass"/></expr> </oper> </set> <where> <expr><attr name="MSISDN"/><op value="="/> <value val="33123654862"/></expr> </where> </req>	<req name="update" resonly="y" id="13579"> <res error="0" affected="1"/> </req>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Add Multivalued fields <req name="update" resonly="y"> <ent name="Subscriber"/> <set> <oper name="AddToSet"> <expr><attr name="Entitlement"/> <value val="HighSpeed"/></expr> <expr><attr name="Entitlement"/> <value val="Unlimited"/></expr> </oper> </set> <where> <expr><attr name="MSISDN"/> <op value="="/> <value val="331236548 62"/></expr> </where> </req>	<req name="update" resonly="y" id="13579"> <res error="0" affected="1"/> ></req>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Add to an exiting not-multi valued field <req name="update" resonly="y"> <ent name="Subscriber"/> <set> <oper name="AddToSet"> <expr><attr name="Tier"/> <value val="Gold"/> </expr> </oper> </set> <where> <expr><attr name="MSISDN"/> <op value="="/> <value val="33123654862"/></expr> </where> </req>	<req name="update" resonly="y"> <res error="70034" affected="0"/> </req>	It returns Success and not 70034, because of PATCH operation.	Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Add Keys to Existing Subscriber <req name="update" resonly="y"> <ent name="Subscriber"/> <set> <oper name="AddToSet"> <expr><attr name="MSISDN" /><value val="14161234567"/></expr> <expr><attr name="MSISDN" /><value val="19191112222"/></expr> <expr><attr name="Entitlement"/ ><value val="DayPass" /></expr> </oper> </set> <where> <expr><attr name="MSISDN" /><op value="="/> <value val="15145551234"/></expr> </where> </req>	<<req name="update" resonly="y"> <res error="0" affected="1"/ > </req>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Single update request with multiple AddToSet <req name="update" resonly="y"> <ent name="Subscriber"/> <set> <oper name="AddToSet"> <expr> <attr name="IMSI"/> <value val="344444444"/> </expr> </oper> <oper name="AddToSet"> <expr> <attr name="Entitlement"/> <value val="GoldPlusMember3"/> </expr> </oper> </set> <where> <expr>	<<req name="update" resonly="y"> <res error="0" affected="1"/> ></req>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		<attr name="MSISDN" /> <op value="="/> <value val="5555553008"/> </expr> </where> </req>			

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
	Get field commands	Get fields of a subscriber <req name="select" resonly="y"> <ent name="Subscriber"/> <select> <expr><attr name="MSISDN" /></expr> <expr><attr name="Entitlement"/></expr> <expr><attr name="Tier"/></expr> <expr><attr name="BillingDay"/></expr> </select> <where> <expr><attr name="MSISDN" /><op value="="/> <value val="33123654862"/></expr> </where> </req>	<req name="select" resonly="y"> <res error="0" affected="1" /> <rset> <row> <rv>33123654862</rv> <rv>DayPass,WeekPass,Weekend</rv> <rv>Prepaid</rv> <rv>23</rv> </row> </rset> </req>	It has error scenarios where if custom20 is empty and it does not fail the request instead, send empty tag.	Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Undefined field retrieval (Rating) <req name="select" resonly="y"> <ent name="Subscriber"/> <select> <expr><attr name="Tier"/></expr> <expr><attr name="Rating"/></expr> <expr><attr name="BillingDay"/></expr> </select> <where> <expr><attr name="NAI"/><op value="="/> <value val="john.smith@operator.com"/></expr> </where> </req>	<req name="select" resonly="y"> <res error="70015" affected="0"/> </req>	If the field "Rating" is not defined then it returns an error.	Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Get custom fields of a subscriber <req name="select" resonly="y"> <ent name="Subscriber"/> <select> <expr><attr name="MSISDN"/></expr> <expr><attr name="Entitlement"/></expr> <expr><attr name="Tier"/></expr> <expr><attr name="BillingDay"/></expr> <expr><attr name="custom1"/></expr> <expr><attr name="custom2"/></expr> <expr><attr name="custom3"/></expr> <expr><attr name="custom4"/></expr> <expr><attr name="custom5"/></expr> <expr><attr name="custom6	<req name="select" resonly="y"> <res affected="1" error="0"/> <rset> <row> <rv>5555553003</rv> <rv>DayPassPlus,DayPass</rv> <rv null="y"/> <rv>2</rv> <rv>val1</rv> <rv>val2</rv> <rv>val3</rv> <rv>val4</rv> <rv>val5</rv> <rv>val6</rv> <rv>val7</rv> <rv>val8</rv> <rv>val9</rv> <rv>val10</rv> <rv>val11</rv> <rv>val12</rv> <rv>val13</rv>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		"/></expr> <expr><attr name="custom7 "/></expr> <expr><attr name="custom8 "/></expr> <expr><attr name="custom9 "/></expr> <expr><attr name="custom1 0"/></expr> <expr><attr name="custom1 1"/></expr> <expr><attr name="custom1 2"/></expr> <expr><attr name="custom1 3"/></expr> <expr><attr name="custom1 4"/></expr> </select> <where> <expr><attr name="IMSI"/ ><op value="="/> <value val="33333330 03"/></expr> </where> </req>	<rv>val14</rv > </row> </rset> </req>		

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Get entities of a subscriber <req name="select" resonly="y"> <ent name="Subscriber"/> <select> <expr><attr name="MSISDN"/></expr> <expr><attr name="BillingDay"/></expr> <expr><attr name="Quota"/></expr> <expr><attr name="State"/></expr> </select> <where> <expr><attr name="MSISDN"/><op value="="/> <value val="33123654862"/></expr> </where> </req>	<req name="select" resonly="y"> <res error="0" affected="1"/> <rset> <row> <rv>33123654862</rv> <rv>23</rv> <rv> <![CDATA[<?xml version="1.0" encoding="UTF-8"?> <usage> <version>3</version> <quota name="AggregateLimit"> <cid>9223372036854775807</cid> <time>3422</time> <totalVolume>1000</totalVolume> <inputVolume>980</inputVolume>	These Requests are not supported. Use the get requests for each entity individually. You should have unique request for entities and entity fields.	N

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
			<outputVolume>20</outputVolume> <serviceSpecific>12</serviceSpecific> <nextResetTime>2011-04-22T00:00:00-05:00</nextResetTime> </quota> </usage>]]> </rv> <rv> <![CDATA[<?xml version="1.0" encoding="UTF-8"?> <state> <version>1</version> <property> <name>mcc</name> <value>315</value> </property> <property> <name>expire<		

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
			/name> <value>2010-02-09T11:20:32</value> </property> <property> <name>approved</name> <value>yes</value> </property> </state>]]> </rv> </row> </rset> </req>		

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
	Update Field Commands	Update Fields <req name="update" resonly="y"> <ent name="Subscriber"/> <set> <expr><attr name="BillingDay"/><value val="23"/></expr> <expr><attr name="Tier"/><value val="Gold"/></expr> </set> <where> <expr><attr name="IMSI"/><op value="="/> <value val="305801234567890"/></expr> </where> </req> ** This scenario follows invalid billing day too.	<req name="update" resonly="y"> <res error="0" affected="1"/> </req>	If there are updates for multivalued files then provisioning gateway combines and sends required array.	Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Update Keys <req name="update" resonly="y"> <ent name="Subscriber"/> <set> <expr><attr name="MSISDN" /> <value val="141612345 67"/></expr> </set> <where> <expr><attr name="MSISDN" /><op value="="/> <value val="151455512 34"/></expr> </where> </req>	<req name="update" resonly="y"> <res error="0" affected="1"/ > </req>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Update Keys <req name="update" resonly="y"> <ent name="Subscriber"/> <set> <expr><attr name="AccountID"/><value val="7777777777"/></expr> <expr><attr name="MSISDN"/><value val="77777777777"/></expr> <expr><attr name="NAI"/><value val="77777777777777"/></expr> </set> <where> <expr><attr name="MSISDN"/><op value="="/> <value val="15145551234"/></expr> </where> </req>	 <req name="update" resonly="y"> <res error="0" affected="1"/> </req>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Update Key with multiple values in a single line <req name="update" resonly="y"><ent name="Subscriber"/> <set> <expr><attr name="IMSI"/><value val="2342343230191,2342343230192"/></expr> </set> <where><expr><attr name="MSISDN"/><op value="="/><value val="5555553004"/></expr></where></req>	<req name="update" resonly="y"> <res error="0" affected="1"/> </req>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Update AccountId with multiple values in a single line <req name="update" resonly="y"><ent name="Subscriber"/> <set> <expr><attr name="AccountId"/><value val="2342343230191,2342343230192"/></expr> </set> <where><expr><attr name="MSISDN"/><op value="="/><value val="5555553004"/></expr></where></req>	<req name="update" resonly="y"><res affected="0" error="70007"/></req>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Update AccountId with multiple values in separate lines <req name="update" resonly="y"><ent name="Subscriber"/> <set> <expr><attr name="AccountId"/><value val="2342343230191"/></expr> <expr><attr name="AccountId"/><value val="2342343230192"/></expr> </set> <where><expr><attr name="MSISDN"/><op value="="/><value val="5555553004"/></expr></where></req>	<req name="update" resonly="y"><res affected="0" error="70007" /></req>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Update Key with multiple values in separate lines <req name="update" resonly="y"><ent name="Subscriber"/> <set> <expr><attr name="IMSI"/><value val="2342343230191"/></expr> <expr><attr name="IMSI"/><value val="2342343230192"/></expr> </set> <where><expr><attr name="MSISDN"/><op value="="/><value val="5555553004"/></expr></where></req>	<req name="update" resonly="y"><res affected="1" error="0"/></req>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Update Fields and Entities <req name="update" resonly="y"> <ent name="Subscriber"/> <set> <expr><attr name="BillingDay"/><value val="23"/></expr> <expr><attr name="State"/><op value="="/> <cdata><![CDATA[<?xml version="1.0" encoding="UTF-8"?> <state> <version>1</version> <property> <name>mcc</name> <value>302</value> </property> <property> <name>expire</name> <value>2014-0	<req name="update" resonly="y"> <res error="0" affected="1"/> </req>	Provisioning Gateway should reject requests with cdata in the expr tag for update operations.	N

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		2-09T11:20:32</value> </property> </state>]]> </cdata> </expr> </set> <where> <expr><attr name="IMSI"/><op value="="/> <value val="305801234567890"/></expr> </where> </req>			

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Multiple values fields **Example 1** <req name="update" resonly="y"> <ent name="Subscriber"/> <set> <expr><attr name="Entitlement"/> <value val="Weekend, Evening"/></expr> </set> <where> <expr><attr name="IMSI"/> <op value="="/> <value val="305801234567890"/></expr> </where> </req> **Example 2** <req name="update" resonly="y"> <ent name="Subscriber"/> <set> <expr><attr name="Entitlement"/> <value val="Weekend"/></expr>	**Example 1** <req name="update" resonly="y"> <res error="0" affected="1"/> </req> **Example 2** <req name="update" resonly="y"> <res error="0" affected="1"/> </req>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		<expr><attr name="Entitlement"/><value val="Evening"/></expr> </set> <where> <expr><attr name="IMSI"/><op value="="/> <value val="305801234567890"/></expr> </where> </req>			

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Single update request with AddToSet and RemoveFromSet <req name="update" resonly="y"> <ent name="Subscriber"/> <set> <oper name="AddToSet"> <expr><attr name="MSISDN"/><value val="6555553004"/></expr> </oper> <oper name="RemoveFromSet"> <expr><attr name="MSISDN"/><value val="5555553004"/></expr> </oper> <oper name="AddToSet"> <expr><attr name="MSISDN"/><value val="7555553004"/></expr> </oper> </set> <where><expr><attr name="MSISDN"/><op value="="/><value	<req name="update" resonly="y"> <res error="0" affected="1"/> </req>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		val="5555553004"/></expr> </where> </req>			

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Single update request with AddToSet,RemoveFromSet and with other subscriber fields <req name="update" resonly="y"> <ent name="Subscriber"/> <set> <oper name="AddToSet"> <expr> <attr name="IMSI"/> <value val="444444444"/> </expr> </oper> <oper name="RemoveFromSet"> <expr> <attr name="Entitlement"/> <value val="HighSpeed"/> </expr> </oper> <expr>	<req name="update" resonly="y"> <res error="0" affected="1"/> </req>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		<attr name="custom2"/> <op value="="/> <value val="2017-03-24T13:15:30"/> </expr> </set> <where> <expr> <attr name="MSISDN"/> <op value="="/> <value val="5555553006"/> </expr> </where> </req>			

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Update single valued fields with multiple values in separate lines <req name="update" resonly="y"><ent name="Subscriber"/> <set> <expr><attr name="Tier"/><value val="Silver"/></expr> <expr><attr name="Tier"/><value val="Gold"/></expr> </set> <where><expr><attr name="MSISDN"/><op value="="/><value val="5555553004"/></expr></where></req>	<req name="update" resonly="y"><res affected="1" error="0"/></req>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Update and delete for the same field <req name="update" resonly="y"><ent name="Subscriber"/> <set> <expr><attr name="Tier"/><value val="Silver"/></expr> <expr><attr name="Tier"/><op value="="/><value val="" isnull="y"/></expr> </set> <where><expr><attr name="MSISDN"/><op value="="/><value val="5555553004"/></expr></where></req>>	<req name="update" resonly="y"><res affected="1" error="0"/></req>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Delete and update for the same field <req name="update" resonly="y"><ent name="Subscriber"/> <set> <expr><attr name="Tier"/> <op value="="/ <value val="" isnull="y"/> </expr> <expr><attr name="Tier"/ <value val="Silver"/ </expr> </set> <where><expr> <attr name="MSISDN" <op value="="/ <value val="5555553004"/></expr> </where></req>	<req name="update" resonly="y"><res affected="1" error="0"/></req>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
	Delete field commands	Delete Fields **Example 1** <req name="update" resonly="y"><ent name="Subscriber"/><set><expr><attr name="BillingDay"/><op value="="/><value val="" isnull="y"/></expr><expr><attr name="Tier"/><op value="="/><value val="" isnull="y"/></expr></set><where><expr><attr name="MSISDN"/><op value="="/><value val="33123654862"/></expr></where></req> **Example 2** <req name="update" resonly="y"><ent	<req name="update" resonly="y"><res error="0" affected="1"/></req>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		name="Subscriber"/> <set> <expr><attr name="BillingDay"/><op value="="/> <value val="24"/></expr> <expr><attr name="Tier"/><op value="="/> <value val="" isnull="y"/></expr> </set> <where> <expr><attr name="MSISDN"/><op value="="/> <value val="33123654862"/></expr> </where> </req>			

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Deleting not existing files (Message) <req name="update" resonly="y"> <ent name="Subscriber"/> <set> <expr><attr name="Message"/><op value="="/> <value val="" isnull="y"/></expr> </set> <where> <expr><attr name="MSISDN"/><op value="="/> <value val="33123654862"/></expr> </where> </req>	<req name="update" resonly="y"> <res error="70015" affected="0"/> ></req>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Delete Key <req name="update" resonly="y"> <ent name="Subscriber"/> <set> <expr><attr name="MSISDN" /><op value="="/> <value val="" isnull="y"/></expr> </set> <where> <expr><attr name="MSISDN" /><op value="="/> <value val="15145551234"/></expr> </where> </req>	 <req name="update" resonly="y"> <res error="0" affected="1"/> > </req>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Deleting the only key <req name="update" resonly="y"> <ent name="Subscriber"/> <set> <expr><attr name="NAI"/> <op value="="/> <value val="" isnull="y"/> </expr> </set> <where> <expr><attr name="NAI"/> <op value="="/> <value val="mum@foo.com"/></expr> </where> </req>	<req name="update" resonly="y"> <res error="70044" affected="0"/> > </req>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Update and delete for the same field <req name="update" resonly="y"><ent name="Subscriber"/> <set> <expr><attr name="Tier"/><value val="Silver"/></expr> <expr><attr name="Tier"/><op value="="/><value val="" isnull="y"/></expr> </set> <where><expr><attr name="MSISDN"/><op value="="/><value val="5555553004"/></expr></where></req>>	<req name="update" resonly="y"><res affected="1" error="0"/></req>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Delete and update for the same field <req name="update" resonly="y"><ent name="Subscriber"/> <set> <expr><attr name="Tier"/><op value="="/><value val="" isnull="y"/></expr> <expr><attr name="Tier"/><value val="Silver"/></expr> </set> <where><expr><attr name="MSISDN"/><op value="="/><value val="5555553004"/></expr></where></req>	<req name="update" resonly="y"><res affected="1" error="0"/></req>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
	Delete field value	Remove field and multi-valued fields <req name="update" resonly="y"> <ent name="Subscriber"/> <set> <oper name="RemoveFromSet"> <expr><attr name="Entitlement"/> <value val="DayPass"/></expr> </oper> </set> <where> <expr><attr name="MSISDN"/> <op value="="/> <value val="33123654862"/></expr> </where> </req>	<req name="update" resonly="y"> <res error="0" affected="1"/> </req>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Deleting multi-valued fields <req name="update" resonly="y"> <ent name="Subscriber"/> <set> <oper name="RemoveFromSet"> <expr><attr name="Entitlement"/> <value val="WeekendPass"/></expr> <expr><attr name="Entitlement"/> <value val="Unlimited"/></expr> </oper> </set> <where> <expr><attr name="MSISDN"/> <op value="="/> <value val="331236548 62"/></expr> </where> </req>	<req name="update" resonly="y"> <res error="0" affected="1"/> </req>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Remove keys <req name="update" resonly="y"> <ent name="Subscriber"/> <set> <oper name="RemoveFromSet"> <expr><attr name="MSISDN" /><value val="14161234567"/></expr> </oper> </set> <where> <expr><attr name="MSISDN" /><op value="="/> <value val="15145551234"/></expr> </where> </req>	<req name="update" resonly="y"> <res error="0" affected="1" /> </req>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
Row-level commands/ Entity Commands	Add Row	Add Opaque Entity Quota <req name="insert" resonly="y"> <ent name="Subscriber"/> <set> <expr><attr name="Quota"/> <op value="="/ ><cdata> <! [CDATA[<?xml version="1.0" encoding="UTF-8"?> <usage> <version>3</version> <quota name="AggregateLimit"> <cid>9223372036854775807</cid> <time>3422</time> <totalVolume>1000</totalVolume> <inputVolume>980</inputVolume> <outputVolume>20</outputVolume> <serviceSpeci	<req name="insert" resonly="y"> <res error="0" affected="1"/> </req>	• Insert request with where clause and expr with cdata is considered as entity addition. • Insert request with where clause and expr without cdata tag replaces the existing subscriber information, because it is a PUT operation.	Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		fic>12</ serviceSpecif ic> <nextResetTim e>2010-05-22T 00:00:00-05:0 0</ nextResetTime > </quota> </usage>]]></ cdata></expr> </set> <where> <expr><attr name="MSISDN" /><op value="="/> <value val="33123654 862"/></expr> </where> </req>			

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Add Transparent Entity <req name="insert" resonly="y"> <ent name="QuotaEntity"/> <set> <expr><attr name="MSISDN"/><value val="33123654862"/></expr> <expr><attr name="name"/><value val="Q1"/></expr> <expr><attr name="cid"/><value val="9223372036854999999"/></expr> <expr><attr name="time"/><value val="10:10"/></expr> <expr><attr name="totalVolume"/><value val="55000"/></expr> <expr><attr name="inputVolume"/><value val="50000"/></expr>	<req name="insert" resonly="y"> <res error="0" affected="1"/> </req>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		<expr><attr name="outputVolume"/><value val="5000"/></expr> <expr><attr name="serviceSpecific"/><value val="serviceSpecific"/></expr> <expr><attr name="nextResetTime"/> <value val="1961-12-15T09:04:03"/></expr> </set> </req>			

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Add Transparent Entity with Where clause <req name="insert" resonly="y"><ent name="QuotaEntity"/><set> <expr><attr name="name"/><value val="Q2"/></expr> <expr><attr name="cid"/><value val="9223372036854999999"/></expr> <expr><attr name="time"/><value val="10:10"/></expr> <expr><attr name="totalVolume"/><value val="55000"/></expr> <expr><attr name="inputVolume"/><value val="50000"/></expr> <expr><attr name="outputVolume"/><value val="5000"/><	<req name="insert" resonly="y"><res error="0" affected="1"/> </req>	These requests can have multiple keys in where clause too. However, it takes the first key as the key.	Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		/expr> <expr><attr name="service Specific"/ ><value val="serviceS pecific"/></ expr> <expr><attr name="nextRes etTime"/> <value val="1961-12-15T09:04:03"/ ></expr> </set> <where> <expr><attr name="MSISDN" /><op value="="/> <value val="15141234567"/></expr> </where> </req>			

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Add Opaque DymanicQuota <req name="insert" resonly="y"> <ent name="Subscriber"/> <set> <expr><attr name="DynamicQuota"/><op value="="/> <cdata> <![CDATA[<?xml version="1.0" encoding="UTF-8"?> <definition> <version>1</version> <DynamicQuota name="AggregateLimit"> <Type>pass</Type> <InstanceId>15678</InstanceId> <Priority>4</Priority> <InitialTime>135</InitialTime> <InitialTotalVolume>2000</InitialTotalVolume>	<req name="insert" resonly="y"> <res error="0" affected="1"/> </req>	The following request is not supported where both Entity and subscriber fields are retrieved. <req name="select" resonly="y"> <ent name="Subscriber"/> <select> <expr><attr name="IMSI"/></expr> <expr><attr name="Quota"/></expr> </select> <where> <expr><attr name="MSISDN"/><op value="="/> <value val="33123654862"/></expr> </where> </req>	Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		<InitialInputVolume>1500</InitialInputVolume> <InitialOutputVolume>500</InitialOutputVolume> <InitialServiceSpecific>4</InitialServiceSpecific> <activationdatetime>2015-03-09T11:20:32</activationdatetime> <expirationdatetime>2015-04-09T11:20:32</expirationdatetime> <InterimReportingInterval>100</InterimReportingInterval> <Duration>10</Duration> </DynamicQuota> </definition>]]></cdata></expr> </set> <where> <expr><attr name="MSISDN" /><op			

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		value="="/> <value val="33123654862"/></expr> </where> </req>			

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Add Transparent Dynamic Quota <req name="insert" resonly="y"> <ent name="DynamicQuotaEntity"/> <set> <expr><attr name="MSISDN"/><value val="15145551234"/></expr> <expr><attr name="name"/><value val="DQ1"/></expr> <expr><attr name="Type"/><value val="top-up"/></expr> <expr><attr name="InstanceId"/><value val="15678"/></expr> <expr><attr name="Priority"/><value val="4"/></expr> <expr><attr name="InitialTime"/><value val="135"/></expr> <expr><attr	<req name="insert" resonly="y"> <res error="0" affected="1"/> </req>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		name="InitialTotalVolume"/><value val="2000"/></expr> <expr><attr name="InitialInputVolume"/><value val="1500"/></expr> <expr><attr name="InitialOutputVolume"/><value val="500"/></expr> <expr><attr name="InitialServiceSpecific"/><value val="4"/></expr> <expr><attr name="activationdatetime"/><value val="2015-05-22T00:00:00-05:00"/></expr> <expr><attr name="expirationdatetime"/><value val="2015-05-29T00:00:00-05:00"/></expr> <expr><attr name="InterimReportingInterval"/><value			

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		val="100"/></expr> <expr><attr name="Duration"/><value val="10"/></expr> </set> </req>			

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Add Opaque State data <req name="insert" resonly="y"> <ent name="Subscriber"/> <set> <expr><attr name="State"/> <op value="="/ <cdata> <! [CDATA[<?xml version="1.0" encoding="UTF-8"?> <state> <version>1</version> <property> <name>mcc</name> <value>315</value> </property> <property> <name>expire</name> <value>2010-02-09T11:20:32</value> </property> <property> <name>approved</name> <value>yes</value>	<req name="insert" resonly="y"> <res error="0" affected="1"/> </req>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		</property> </state>]]></ cdata></expr> </set> <where> <expr><attr name="MSISDN" /><op value="="/> <value val="33123654 862"/></expr> </where> </req>			
		Add Transparent State data with where clause <req name="insert" resonly="y"> <ent name="StateEn tity"/> <set> <expr><attr name="mcc"/ ><value val="315"/></ expr> </set> <where> <expr><attr name="MSISDN" /><op value="="/> <value val="15141234 567"/></expr> </where> </req>	<req name="insert" resonly="y"> <res error="0" affected="1"/ > </req>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Add Transparent State data without where clause `<req name="insert" resonly="y"> <ent name="StateEntity"/> <set> <expr><attr name="MSISDN" /><value val="15145551234"/></expr> <expr><attr name="mcc"/><value val="315"/></expr> </set> </req>`	`<req name="insert" resonly="y"> <res error="0" affected="1"/> </req>`		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
	GET ROW data	Get Opaque Quota data <req name="select" resonly="y"> <ent name="Subscriber"/> <select> <expr><attr name="Quota"/></expr> </select> <where> <expr><attr name="MSISDN"/><op value="="/> <value val="33123654862"/></expr> </where> </req>	<req name="select" resonly="y"> <res error="0" affected="1"/> <rset> <row> <rv> <![CDATA[<?xml version="1.0" encoding="UTF-8"?> <usage> <version>3</version> <quota name="AggregateLimit"> <cid>9223372036854775807</cid> <time>3422</time> <totalVolume>1000</totalVolume> <inputVolume>980</inputVolume>	The following request is not supported where you are retrieving both Entity and subscriber fields Expand source	Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
			<outputVolume>20</outputVolume> <serviceSpecific>12</serviceSpecific> <nextResetTime>2011-04-22T00:00:00-05:00</nextResetTime> </quota> </usage>]]> </rv> </row> </rset> </req>		

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Get Multiple Opaque Data <req name="select" resonly="y"> <ent name="Subscriber"/> <select> <expr><attr name="Quota"/></expr> <expr><attr name="State"/></expr> </select> <where> <expr><attr name="MSISDN"/><op value="="/> <value val="33123654862"/></expr> </where> </req>	<req name="select" resonly="y"> <res error="0" affected="1"/> <rset> <row> <rv> <![CDATA[<?xml version="1.0" encoding="UTF-8"?> <usage> <version>3</version> <quota name="AggregateLimit"> <cid>9223372036854775807</cid> <time>3422</time> <totalVolume>1000</totalVolume> <inputVolume>980</inputVolume> <outputVolume		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
			>20</ outputVolume> <serviceSpeci fic>12</ serviceSpecif ic> <nextResetTim e>2011-04-22T 00:00:00-05:0 0</ nextResetTime > </quota> </usage>]]> </rv> <rv null="y"/> </row> </rset> </req>		

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Get quota row <req name="select" resonly="y"> <ent name="QuotaEntity"/> <where> <expr><attr name="MSISDN"/><op value="="/> <value val="33123654862"/></expr> <expr><attr name="name"/><op value="="/><value val="Q1"/></expr> </where> </req>	<req name="select" resonly="y"> <res error="0" affected="1"/> <rset> <row> <rv> <![CDATA[<?xml version="1.0" encoding="UTF-8"?> <usage> <version>3</version> <quota name="Q1"> <cid>9223372036854775807</cid> <time>3422</time> <totalVolume>1000</totalVolume> <inputVolume>980</inputVolume> <outputVolume>20</outputVolume> <serviceSpecific>12</		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
			serviceSpecific> <nextResetTime>2011-04-22T00:00:00-05:00</nextResetTime> </quota> </usage>]]> </rv> </row> </rset> </req>		

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Two qoutas with same name <req name="select" resonly="y"> <ent name="QuotaEntity"/> <where> <expr><attr name="MSISDN" /><op value="="/> <value val="33123654862"/></expr> <expr><attr name="name"/><op value="="/><value val="Weekend" /></expr> </where> </req>	<req name="select" resonly="y"> <res error="0" affected="1"/> <rset> <row> <rv> <![CDATA[<?xml version="1.0" encoding="UTF-8"?> <usage> <version>3</version> <quota name="Weekend"> <cid>11223344</cid> <time>3422</time> <totalVolume>1000</totalVolume> <inputVolume>980</inputVolume> <outputVolume>20</outputVolume> <serviceSpecific>12</serviceSpecific>	Combination of name and cid is considered as unique for quota. Same with name and instance_id for dynamic quotas	Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
			<nextResetTime>2011-04-22T00:00:00-05:00</nextResetTime> </quota> </usage>]]> </rv> </row> <row> <rv> <![CDATA[<?xml version="1.0" encoding="UTF-8"?> <usage> <version>3</version> <quota name="Weekend"> <cid>99887766</cid> <time>1232</time> <totalVolume>2000</totalVolume> <inputVolume>440</inputVolume> <outputVolume>8220</outputVolume> <serviceSpecific>99</		

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
			serviceSpecific> <nextResetTime>2011-04-22T00:00:00-05:00</nextResetTime> </quota> </usage>]]> </rv> </row> </rset> </req>		

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Quota name and cid <req name="select" resonly="y"> <ent name="QuotaEntity"/> <where> <expr><attr name="MSISDN"/><op value="="/> <value val="33123654862"/></expr> <expr><attr name="name"/><op value="="/><value val="Weekend"/></expr> <expr><attr name="cid"/><op value="="/><value val="11223344"/></expr> </where> </req>	<req name="select" resonly="y"> <res error="0" affected="1"/> <rset> <row> <rv> <![CDATA[<?xml version="1.0" encoding="UTF-8"?> <usage> <version>3</version> <quota name="Weekend"> <cid>11223344</cid> <time>3422</time> <totalVolume>1000</totalVolume> <inputVolume>980</inputVolume> <outputVolume>20</outputVolume> <serviceSpecific>12</serviceSpecific>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
			<nextResetTime>2011-04-22T00:00:00-05:00</nextResetTime> </quota> </usage>]]> </rv> </row> </rset> </req>		

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Get non-existent transparent quota <req name="select" resonly="y"> <ent name="QuotaEntity"/> <where> <expr><attr name="MSISDN"/><op value="="/> <value val="33123654862"/></expr> <expr><attr name="name"/><op value="="/><value val="Weekend"/></expr> <expr><attr name="cid"/><op value="="/><value val="11223344"/></expr> </where> </req>	<req name="select" resonly="y"> <res error="70027" affected="0"/> </req>	The response is same in both the cases, "data not found" and not is null="y"	Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Get non existent opaque data <req name="select" resonly="y"> <ent name="QuotaEntity"/> <where> <expr><attr name="MSISDN"/><op value="="/> <value val="33123654862"/></expr> <expr><attr name="name"/><op value="="/><value val="Weekday"/></expr> </where> </req>			Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Get Dynamic Quota Data <req name="select" resonly="y"> <ent name="DynamicQuotaEntity"/> <where> <expr><attr name="MSISDN"/><op value="="/> <value val="33123654862"/></expr> <expr><attr name="name"/><op value="="/><value val="DQ1"/></expr> <expr><attr name="InstanceId"/><op value="="/><value val="11223344"/></expr> </where> </req>	<req name="select" resonly="y"> <res error="0" affected="1"/> <rset> <row> <rv> <![CDATA[<?xml version="1.0" encoding="UTF-8"?> <definition> <version>1</version> <DynamicQuota name="DQ1"> <Type>pass</Type> <InstanceId>11223344</InstanceId> <Priority>4</Priority> <InitialTime>135</InitialTime> <InitialTotalVolume>2000</InitialTotalVolume> <InitialInputVolume>1500</InitialInputVolume>	This returns only one DQ because the name is unique	Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
			<InitialOutputVolume>500</InitialOutputVolume> <InitialServiceSpecific>4</InitialServiceSpecific> <activationdatetime>2015-05-22T00:00:00-05:00</activationdatetime> <expirationdatetime>2015-05-29T00:00:00-05:00</expirationdatetime> <InterimReportingInterval>100</InterimReportingInterval> <Duration>10</Duration> </DynamicQuota> </definition>]]> </rv> </row> <row> <rv> <![CDATA[<?xml version="1.0" encoding="UTF-8"?> <definition>		

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
			<version>1</version> <DynamicQuota name="DQ1"> <Type>top-up</Type> <InstanceId>11223344</InstanceId> <Priority>3</Priority> <InitialTime>125</InitialTime> <InitialTotalVolume>1000</InitialTotalVolume> <InitialInputVolume>500</InitialInputVolume> <InitialOutputVolume>500</InitialOutputVolume> <InitialServiceSpecific>4</InitialServiceSpecific> <activationdatetime>2015-05-22T00:00:00-05:00</activationdatetime> <expirationda		

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
			tetime>2015-05-29T00:00:00-05:00</expirationdatetime> <InterimReportingInterval>100</InterimReportingInterval> <Duration>10</Duration> </DynamicQuota> </definition>]]> </rv> </row> </rset> </req>		

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
	Delete row	Delete opaque type <req name="update" resonly="y"> <ent name="Subscriber"/> <set> <expr><attr name="Quota"/> <op value="="/> <value val="" isnull="y"/> </expr> </set> <where> <expr><attr name="MSISDN"/> <op value="="/> <value val="33123654862"/></expr> </where> </req>	<req name="update" resonly="y"> <res error="0" affected="1"/> ></req>	The following request is supported where you delete subscriber fields along with entities. <req name="update" resonly="y"> <ent name="Subscriber"/> <set> <expr><attr name="Entitlement"/> <op value="="/> <value val="" isnull="y"/> </expr> <expr><attr name="Quota"/> <op value="="/> <value val="" isnull="y"/> </expr> </set> <where> <expr><attr name="MSISDN"/> <op value="="/> <value val="33123654862"/></expr> </where> </req>	Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Delete state opaque type <req name="update" resonly="y"> <ent name="Subscriber"/> <set> <expr><attr name="State"/> <op value="="/> <value val="" isnull="y"/> </expr> </set> <where> <expr><attr name="MSISDN"/> <op value="="/> <value val="33123654862"/></expr> </where> </req>	<req name="update" resonly="y"> <res error="0" affected="1"/> > </req>	The following request is not supported where you delete subscriber fields along with entities. <req name="update" resonly="y"> <ent name="Subscriber"/> <set> <expr><attr name="Tier"/> <op value="="/> <value val="" isnull="y"/> </expr> <expr><attr name="State"/> <op value="="/> <value val="" isnull="y"/> </expr> </set> <where> <expr><attr name="MSISDN"/> <op value="="/> <value val="33123654862"/></expr> </where> </req>	Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Delete DQ opaque type <req name="update" resonly="y"> <ent name="Subscriber"/> <set> <expr><attr name="DynamicQuota"/><op value="="/> <value val="" isnull="y"/></expr> </set> <where> <expr><attr name="MSISDN"/><op value="="/> <value val="33123654862"/></expr> </where> </req>	<req name="update" resonly="y"> <res error="0" affected="1"/> ></req>	The following request is not supported where you delete subscriber fields along with entities <req name="update" resonly="y"> <ent name="Subscriber"/> <set> <expr><attr name="Tier"/><op value="="/> <value val="" isnull="y"/></expr> <expr><attr name="DynamicQuota"/><op value="="/> <value val="" isnull="y"/></expr> </set> <where> <expr><attr name="MSISDN"/><op value="="/> <value val="33123654862"/></expr> </where> </req>	Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Delete quota with quota name <req name="delete" resonly="y"> <ent name="QuotaEntity"/> <where> <expr><attr name="MSISDN"/><op value="="/> <value val="33123654862"/></expr> <expr><attr name="name"/><op value="="/><value val="Q1"/></expr> </where> </req>	 <req name="update" resonly="y"> <res error="0" affected="1"/> </req>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Delete qouta with name and cid <req name="delete" resonly="y"> <ent name="QuotaEntity"/> <where> <expr><attr name="MSISDN"/><op value="="/> <value val="33123654862"/></expr> <expr><attr name="name"/><op value="="/><value val="Q4"/></expr> <expr><attr name="cid"/><op value="="/><value val="11223344"/></expr> </where> </req>	<req name="delete" resonly="y"> <res error="0" affected="1"/> </req>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Delete Dynamic Quota with name and type <req name="delete" resonly="y"> <ent name="QuotaEntity"/> <where> <expr><attr name="MSISDN"/><op value="="/> <value val="33123654862"/></expr> <expr><attr name="name"/> <op value="="/ <value val="Q4"/></expr> <expr><attr name="cid"/> <op value="="/ <value val="11223344"/></expr> </where> </req>	<req name="delete" resonly="y"> <res error="0" affected="1"/> </req>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
	Update row	Update opaque qouta <req name="update" resonly="y"> <ent name="Subscriber"/> <set> <expr><attr name="Quota"/> <op value="="/ <cdata> <![CDATA[<?xml version="1.0" encoding="UTF-8"?> <usage> <version>3</version> <quota name="AggregateLimit"> <cid>9223372036854775807</cid> <time>3422</time> <totalVolume>1000</totalVolume> <inputVolume>980</inputVolume> <outputVolume>20</outputVolume> <serviceSpeci	<req name="update" resonly="y"> <res error="0" affected="0"/> </req>	This does not support because both entity and subscriber profile fields can not be updated at the same time.	Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		fic>12</ serviceSpecif ic> <nextResetTim e>2010-05-22T 00:00:00-05:0 0</ nextResetTime > </quota> </usage>]]></cdata></ expr> </set> <where> <expr><attr name="MSISDN" /><op value="="/> <value val="33123654 862"/></expr> </where> </req>			

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Update opaque state <req name="update" resonly="y"> <ent name="Subscriber"/> <set> <expr><attr name="State"/> <op value="="/ <cdata> <![CDATA[<?xml version="1.0" encoding="UTF-8"?> <state> <version>1</version> <property> <name>mcc</name> <value>315</value> </property> <property> <name>expire</name> <value>2010-02-09T11:20:32</value> </property> <property> <name>approved</name> <value>yes</value>	<req name="update" resonly="y"> <res error="0" affected="0"/> </req>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		</property> </state>]]></cdata></expr> </set> <where> <expr><attr name="MSISDN" /><op value="="/> <value val="33123654862"/></expr> </where> </req>			

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Update opaque DQ <req name="update" resonly="y"> <ent name="Subscriber"/> <set> <expr><attr name="DynamucQuota"/><op value="="/><![CDATA[<?xml version="1.0" encoding="UTF-8"?> <definition> <version>1</version> <DynamicQuota name="AggregateLimit"> <Type>pass</Type> <InstanceId>15678</InstanceId> <Priority>4</Priority> <InitialTime>135</InitialTime> <InitialTotalVolume>2000</InitialTotalVolume> <InitialInputVolume>1500</	<req name="update" resonly="y"> <res error="0" affected="0"/> </req>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		InitialInputVolume> <InitialOutputVolume>500</InitialOutputVolume> <InitialServiceSpecific>4</InitialServiceSpecific> <activationdatetime>2015-03-09T11:20:32</activationdatetime> <expirationdatetime>2015-04-09T11:20:32</expirationdatetime> <InterimReportingInterval>100</InterimReportingInterval> <Duration>10</Duration> </DynamicQuota> </definition>]]></cdata></expr> </set> <where> <expr><attr name="MSISDN"/><op value="="/> <value			

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		val="33123654862"/></expr> </where> </req>			
Row Field Commands	Get row field	Get quota field <req name="select" resonly="y"> <ent name="QuotaEntity"/> <select> <expr><attr name="inputVolume"/></expr> </select> <where> <expr><attr name="MSISDN"/><op value="="/> <value val="33123654862"/></expr> <expr><attr name="name"/><op value="="/><value val="Q1"/></expr> </where> </req>	<req name="select" resonly="y"> <res error="0" affected="1"/> <rset> <row> <rv>980</rv> </row> </rset> </req>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Multiple quota query parameters <req name="select" resonly="y"> <ent name="QuotaEntity"/> <select> <expr><attr name="outputVolume"/></expr> </select> <where> <expr><attr name="MSISDN"/><op value="="/> <value val="33123654862"/></expr> <expr><attr name="name"/><op value="="/><value val="Q3"/></expr> <expr><attr name="cid"/><op value="="/><value val="11223344"/></expr> </where> </req>	<req name="select" resonly="y"> <res error="0" affected="1"/> <rset> <row> <rv>4000</rv> </row> </rset> </req>	Note: Returns only one out of two object that are present in database.	Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Get multiple qouta fields <req name="select" resonly="y"> <ent name="QuotaEntity"/> <select> <expr><attr name="inputVolume"/></expr> <expr><attr name="outputVolume"/></expr> <expr><attr name="totalVolume"/></expr> </select> <where> <expr><attr name="MSISDN"/><op value="="/> <value val="33123654862"/></expr> <expr><attr name="name"/><op value="="/><value val="Q1"/></expr> </where> </req>	<req name="select" resonly="y"> <res error="0" affected="1"/> <rset> <row> <rv>980</rv> <rv></rv> <rv null="y"/> </row> </rset> </req>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Get DQ parameters <req name="select" resonly="y"> <ent name="DynamicQuotaEntity"/> <select> <expr><attr name="InstanceId"/></expr> <expr><attr name="InitialTotalVolume"/></expr> <expr><attr name="InitialInputVolume"/></expr> </select> <where> <expr><attr name="MSISDN"/><op value="="/> <value val="151455512 34"/></expr> <expr><attr name="name"/><op value="="/> <value val="DQ3"/></expr> <expr><attr name="InstanceId"/><op value="="/>	<req name="select" resonly="y"> <res error="0" affected="1"/> <rset> <row> <rv>15678</rv> <rv>2000</rv> <rv>1500</rv> </row> </rset> </req>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		<value val="15678"/> </expr> </where> </req>			
	update row field	<req name="update" resonly="y"> <ent name="QuotaEntity"/> <set> <expr><attr name="inputVolume"/ ><value val="1000"/>< /expr> </set> <where> <expr><attr name="MSISDN" /><op value="="/> <value val="33123654862"/></expr> <expr><attr name="name"/ ><op value="=" /><value val="Q1"/></ expr> </where> </req>	<req name="update" resonly="y"> <res error="0" affected="1"/ > </req>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Dynamic Quota field update <req name="update" resonly="y"> <ent name="DynamicQuotaEntity"/> <set> <expr><attr name="InitialTotalVolume"/><value val="1000"/></expr> <expr><attr name="InitialInputVolume"/><value val="1000"/></expr> </set> <where> <expr><attr name="MSISDN"/><op value="="/> <value val="15145551234"/></expr> <expr><attr name="name"/><op value="="/> <value val="DQ1"/></expr> <expr><attr name="InstanceId"/><op value="="/>	<req name="update" resonly="y"> <res error="0" affected="1"/> </req>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		<value val="15678"/> </expr> </where> </req>			

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Update QuotaEntity fields with multiple values in separate lines <req name="update" resonly="y"><ent name="QuotaEntity"/> <set> <expr><attr name="outputVolume"/><value val="2000"/></expr> <expr><attr name="outputVolume"/><value val="3000"/></expr> </set> <where> <expr><attr name="MSISDN"/><op value="="/><value val="33123654862"/></expr> <expr><attr name="name"/><op value="="/><value val="Q1"/></expr>	<req name="update" resonly="y"><res affected="1" error="0"/></req>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		</where> </req>			

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Update and delete for the same QuotaEntity field <req name="update" resonly="y"><ent name="QuotaEntity"/> <set> <expr><attr name="outputVolume"/><value val="4000"/></expr> <expr><attr name="outputVolume"/><op value="="/><value val="" isnull="y"/></expr> </set> <where> <expr><attr name="MSISDN"/><op value="="/><value val="33123654862"/></expr> <expr><attr name="name"/><op value="="/><value val="Q1"/></expr>	<req name="update" resonly="y"><res affected="1" error="0"/></req>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		</where> </req>			

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Delete and update for the same QuotaEntity field <req name="update" resonly="y"><ent name="QuotaEntity"/> <set> <expr><attr name="outputVolume"/><op value="="/><value val="" isnull="y"/></expr> <expr><attr name="outputVolume"/><value val="4000"/></expr> </set> <where> <expr><attr name="MSISDN"/><op value="="/><value val="33123654862"/></expr> <expr><attr name="name"/><op value="="/><value val="Q1"/></expr>	<req name="update" resonly="y"><res affected="1" error="0"/></req>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		</where> </req>			
	Delete row field commands	delete quota field <req name="update" resonly="y"> <ent name="QuotaEntity"/> <set> <expr><attr name="inputVolume"/><op value="="/> <value val="" isnull="y"/></expr> </set> <where> <expr><attr name="MSISDN"/><op value="="/> <value val="33123654862"/></expr> <expr><attr name="name"/><op value="="/><value val="Q1"/></expr> </where> </req>	<req name="update" resonly="y"> <res error="0" affected="1"/> </req>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		<req name="update" resonly="y"> <ent name="QuotaEntity"/> <set> <expr><attr name="outputVolume"/><op value="="/> <value val="" isnull="y"/></expr> </set> <where> <expr><attr name="MSISDN"/><op value="="/> <value val="33123654862"/></expr> <expr><attr name="name"/><op value="="/><value val="Q4"/></expr> <expr><attr name="cid"/><op value="="/><value val="11223344"/></expr> </where> </req>	<req name="update" resonly="y"> <res error="0" affected="1"/> </req>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		<req name="update" resonly="y"> <ent name="DynamicQuotaEntity"/> <set> <expr><attr name="InitialInputVolume"/><op value="="/> <value val="" isnull="y"/></expr> </set> <where> <expr><attr name="MSISDN"/><op value="="/> <value val="15145551234"/></expr> <expr><attr name="IMSI"/><op value="="/> <value val="302370123456789"/></expr> <expr><attr name="name"/><op value="="/> <value val="DQ1"/></expr>	<req name="update" resonly="y"> <res error="0" affected="1"/> </req>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		<expr><attr name="InstanceId"/><op value="="/><value val="11223344"/></expr></where></req>			
Data Filed commands (State only)	Get data filed	<req name="select" resonly="y"><ent name="StateEntity"/><select><expr><attr name="mcc"/></expr><expr><attr name="expire"/></expr><expr><attr name="duration"/></expr></select><where><expr><attr name="MSISDN"/><op value="="/><value val="33123654862"/></expr></where></req>	<req name="select" resonly="y"><res error="0" affected="1"/><rset><row><rv>315</rv><rv>2015-02-09T11:20:32</rv><rv null="y"/></row></rset></req>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
	Update data field	<req name="update" resonly="y"><ent name="StateEntity"/><set><expr><attr name="mcc"/><value val="302"/></expr><expr><attr name="approved"/><value val="no"/></expr></set><where><expr><attr name="IMSI"/><op value="="/><value val="302370123456789"/></expr></where></req>	<req name="update" resonly="y"><res error="0" affected="1"/></req>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
	Delete Data field	<req name="update" resonly="y"> <ent name="StateEntity"/> <set> <expr><attr name="mcc"/><op value="="/><value val="" isnull="y"/></expr> </set> <where> <expr><attr name="IMSI"/><op value="="/> <value val="302370123456789"/></expr> </where> </req>	<req name="update" resonly="y"> <res error="0" affected="1"/> </req>		Y

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
Special Operation Commands	Reset Quota	<req name="operation"><oper name="ResetQuota"><expr><param name="MSISDN"/><op value="="/><value val="33123654862"/></expr><expr><param name="name"/><op value="="/><value val="Q1"/></expr></oper></req>	<req name="operation" resonly="y"><res error="0" affected="1"/></req>		

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		Three keys are provided for the subscriber, and all keys are valid for the subscriber <req name="operation"> <oper name="ResetQuota"> <expr> <param name="MSISDN" /> <op value="="/> <value val="33123654862"/> </expr> <expr> <param name="IMSI"/> <op value="="/> <value val="184569547984229"/> </expr> <expr> <param name="NAI"/> <op value="="/>	<req name="operation" resonly="y"> <res error="0" affected="1"/> </req>		

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		<value val="mum@foo.com"/> </expr> <expr> <param name="name"/> <op value="="/> <value val="Q1"/> </expr> </oper> </req>			

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		<req name="operation"> <oper name="Reset" ent="QuotaEntity"> <expr> <param name="MSISDN" /> <op value="="/> <value val="33123654862"/> </expr> <expr> <param name="name"/> <op value="="/> <value val="Q1"/> </expr> <expr> <param name="cid" /> <op value="="/> <value val="1234"/> </expr>	<req name="operation" resonly="y"> <res error="0" affected="1"/> </req>		

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		</oper> </req>			
		Quota data does not contain a Quota row called Q6 <req name="operation"> <oper name="ResetQuota"> <expr> <param name="MSISDN" /> <op value="="/> <value val="33123654862"/> </expr> <expr> <param name="name"/> <op value="="/> <value val="Q6"/> </expr> </oper> </req>	<req name="operation" resonly="y"> <res error="70032" affected="0"/> ></req>		

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
	Get Subscription Status	<req name="operation"> <oper name="GetSubscriptionStatus"> <expr> <param name="MSISDN" /> <op value="="/> <value val="33123654862"/> </expr> </oper> </req>	<req name="operation" resonly="y"> <res error="0" affected="1"/> <rset> <row> <rv> <SubscriptionStatus> <subscribingClient name="seagull1a.seagull1.com"> <userIdentity name="sip:2222222222@ims.mnc480.mcc311.3gppnetwork.org"> <creationTime>"1545220213"</creationTime> <expirationTime>"1545220213"</expirationTime> </		

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
			userIdentity> </ subscribingCl ient> </ SubscriptionS tatus> </rv> </ row> </rset> </req>		

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		The subscriber has two subscriptions from a single client and on two keys (imsi:2222222222 and MSISDN: 33123654862) <req name="operation"> <oper name="GetSubscriptionStatus"> <expr> <param name="MSISDN" /> <op value="="/> <value val="33123654862"/> </expr> </oper> </req>	<req name="operation" resonly="y"> <res error="0" affected="1" /> <rset> <row> <rv> <SubscriptionStatus> <subscribingClient name="seagull1a.seagull1.com"> <userIdentity name="sip:2222222222@ims.mnc480.mcc311.3gppnetwork.org"> <creationTime>"1545220213"</creationTime> <expirationTime>"1545220213"</expirationTime> </		

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
			userIdentity> <userIdentity name="tel:33123654862"> <creationTime>"1545220213"</creationTime> <expirationTime>"1545220213"</expirationTime> </userIdentity> </subscribingClient> </SubscriptionStatus> </rv> </row> </rset> </req>		

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
		The subscriber has three subscriptions from two clients and on two keys (imsi:2222222222 and MSISDN: 33123654862) <req name="operation"> <oper name="GetSubscriptionStatus"> <expr> <param name="MSISDN" /> <op value="="/> <value val="33123654862"/> </expr> </oper> </req>	<req name="operation" resonly="y"> <res error="0" affected="1" /> <rset> <row> <rv> <SubscriptionStatus> <subscribingClient name="seagull1a.seagull1.com"> <userIdentity name="tel:33123654862"> <creationTime>"1545220213"</creationTime> <expirationTime>"0"</expirationTime> </userIdentity> <userIdentity		

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
			name="sip:2222222222@ims.mnc480.mcc311.3gppnetwork.org"> <creationTime>"1545220213"</creationTime> <expirationTime>"0"</expirationTime> </userIdentity> </subscribingClient> <subscribingClient name="seagull1b.seagull1.com"> <userIdentity name="tel:33123654862"> <creationTime>"1545220213"</creationTime> <expirationTime>"0"</		

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	Notes	Supported (Y/N)
			expirationTime> </userIdentity> </subscribingClient> </SubscriptionStatus> </rv> </row> </rset> </req>		
		The subscriber does not have any subscription. <req name="operation"> <oper name="GetSubscriptionStatus"> <expr> <param name="MSISDN" /> <op value="="/> <value val="331236548 62"/> </expr> </oper> </req>	<req name="operation" resonly="y"> <res error="70032" affected="0"/> ></req>		

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2.3 Supported SOAP/XML Request Operations for Custom Entities

The SOAP/XML request operations meant for custom entities are:

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	NOTES
Subscriber Commands	Create Profile with custom fields	**request** <req name="insert" resonly="y"> <ent name="Subscriber" /> <set> <expr><attr name="AccountId"/><value val="10404723525" /></expr> <expr><attr name="MSISDN"/><value val="33123654862" /></expr> <expr><attr name="IMSI"/><value val="184569547984229"/></expr> <expr><attr name="BillingDay" /><value val="1"/></expr> <expr><attr name="Entitlement"/><value val="DayPass,DayPassPlus"/></expr> <expr><attr name="customsubs1"/><value val="SubsData1"/></expr> <expr><attr name="customsubs2"/><value val="SubsData2"/></expr> </set> </req>	**response** <req name="insert" resonly="y"> <res error="0" affected="1"/> </req>	• Custom Fields should only be provided with string values. • Custom Fields should not be treated as Multivalued Fields. • convertToSec Flag is responsible for the type of validation, but the request is always sent to UDR in sec format.

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	NOTES
	Create Profile with custom entities	**request** <req name="insert" resonly="y"> <ent name="Subscriber" /> <set> <expr><attr name="AccountId"/><value val="178322212122"/></expr> <expr><attr name="MSISDN"/><value val="15145551234,15141234567"/></expr> <expr><attr name="IMSI"/><value val="302370123456789"/></expr> <expr><attr name="BillingDay"/><value val="6"/></expr> <expr><attr name="Entitlement"/><value val="DayPass,DayPassPlus"/></expr> <expr><attr name="CustomEntity"/><op value="="/> <cdata><![CDATA[<?xml version="1.0" encoding="UTF-8"?> <customusage> <customouterfield1>CustomOuterField1</customouterfield1> <customent> <custominnerfield1>CustomInnerFiel	**response** <req name="insert" resonly="y"> <res error="0" affected="1"/> </req>	Custom Entity can only be inserted in the Opaque entity format.

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	NOTES
		d1</ custominnerfield1 > <custominnerfield 2>CustomInnerFiel d2</ custominnerfield2 > </customent> </ customusage>]]&gt ; </cdata> </ expr> </set> </req>		

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	NOTES
	Retrieve Subscriber having custom fields	**request** <req name="select" resonly="y"> <ent name="Subscriber" /> <where> <expr><attr name="MSISDN"/> <op value="="/> <value val="33123654862" /></expr> </where> </req>	**response** <req name="select" resonly="y"> <res error="0" affected="1"/> <rset> <row> <rv> <![CDATA[<?xml version="1.0" encoding="UTF-8"?> <subscriber> <field name="ACCOUNTID">10404723525</field> <field name="BillingDay">1</field> <field name="customsubs1">SubsData1</field> <field name="customsubs2">SubsData2</field> <field name="Entitlement">DayPass</field> <field name="Entitlement">DayPassPlus</field> <field name="IMSI">184569547984229</field> <field name="MSISDN">33123654862</field> <field name="SequenceNumber">0</field> </subscriber>]]> </rv>	

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	NOTES
			</row> </rset> </req>	
Subscriber Field Commands	Adding Custom fields	**request** <req name="update" resonly="y"> <ent name="Subscriber" /> <set> <oper name="AddToSet"> <expr><attr name="customsubs1"/><value val="SubsData3"/> </expr> <expr><attr name="customsubs2"/><value val="SubsData4"/> </expr> </oper> </set> <where> <expr><attr name="MSISDN"/> <op value="="/> <value val="33123654862"/></expr> </where> </req>	**response** <req name="update" resonly="y"> <res error="0" affected="1"/> </req>	Since Custom Field is not a multivalued field, update request with AddToSet as operation name, replaces the old value.

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	NOTES
	get custom field commands	get custom fields of a subscriber **request** <req name="select" resonly="y"> <ent name="Subscriber" /> <select> <expr><attr name="customsubs1"/></expr> <expr><attr name="customsubs2"/></expr> </select> <where> <expr><attr name="MSISDN"/> <op value="="/> <value val="33123654862" /></expr> </where> </req>	**response** <req name="select" resonly="y"> <res error="0" affected="1"/> <rset> <row> <rv>SubsData3</rv> <rv>SubsData4</rv> </row> </rset> </req>	

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	NOTES
	Update Custom Field Commands	Update Fields **request** <req name="update" resonly="y"> <ent name="Subscriber" /> <set> <expr><attr name="customsubs1"/><value val="SubsData5"/></expr> <expr><attr name="customsubs2"/><value val="SubsData6"/></expr> </set> <where> <expr><attr name="IMSI"/><op value="="/> <value val="305801234567890"/></expr> </where> </req>	**response** <req name="update" resonly="y"> <res error="0" affected="1"/> </req>	

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	NOTES
	delete custom field commands	delete fields **request** <req name="update" resonly="y"> <ent name="Subscriber" /> <set> <expr><attr name="customsubs1"/><op value="="/> <value val="" isnull="y"/></expr> <expr><attr name="customsubs2"/><op value="="/> <value val="" isnull="y"/></expr> </set> <where> <expr><attr name="MSISDN"/><op value="="/> <value val="33123654862"/></expr> </where> </req>	**response** <req name="update" resonly="y"> <res error="0" affected="1"/> </req>	

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	NOTES
		deleting not existing field (Message), not mentioned in sec **request** <req name="update" resonly="y"> <ent name="Subscriber" /> <set> <expr><attr name="Message"/> <op value="="/> <value val="" isnull="y"/></expr> </set> <where> <expr><attr name="MSISDN"/> <op value="="/> <value val="33123654862" /></expr> </where> </req>	**response** <req name="update" resonly="y"> <res affected="0" error="70015"/> </req>	• Any operation with invalid field (field not mentioned in sec), always fails with 70015 as the error code. • Request never reaches UDR, so even non existing subscriber request fails with 70015, if unknown field supplied in set clause.

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	NOTES
	Delete field value	remove field and multi-valued fields **request** `<req name="update" resonly="y"> <ent name="Subscriber" /> <set> <oper name="RemoveFromSet">` `<expr><attr name="customsubs1"/><value val="SubsData1"/></expr> </oper> </set> <where> <expr><attr name="MSISDN"/><op value="="/> <value val="33123654862"/></expr> </where> </req>`	**response** `<req name="update" resonly="y"> <res error="0" affected="1"/> </req>`	Since Custom Field is not a multivalued field, update request with RemoveFrom Set as operation name deletes the complete field instead of removing few values from it.

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	NOTES
Row-level commands/ Entity Commands	Add Row	Add Opaque Custom Entity (CustomEntity) **request** <req name="insert" resonly="y"> <ent name="Subscriber" /> <set> <expr><attr name="CustomEntity"/><op value="="/> <cdata><![CDATA[<?xml version="1.0" encoding="UTF-8"?> <customusage> <customouterfield1>CustomOuterField1</customouterfield1> <customent> <custominnerfield1>CustomInnerField1</custominnerfield1> <custominnerfield2>CustomInnerField2</custominnerfield2> </	**response** <req name="insert" resonly="y"> <res error="0" affected="1"/> </req>	Custom Entity can only be inserted in the Opaque entity format.

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	NOTES
		customent> </ customusage>]]&gt ; </cdata> </expr> </set> <where> <expr><attr name="MSISDN"/ ><op value="="/> <value val="33123654862" /></expr> </where> </req>		

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	NOTES
		Add Quota Row with custom fields **request** <req name="insert" resonly="y"> <ent name="Subscriber" /> <set> <expr><attr name="Quota"/ ><op value="="/ ><cdata> <![CDATA[<? xml version="1.0" encoding="UTF-8"? > <usage> <version>3</ version> <quota name="AggregateLi mit"> <cid>922337203685 4775807</cid> <time>3422</ time> <totalVolume>1000 </totalVolume> <inputVolume>980< /inputVolume> <outputVolume>20< /outputVolume> <serviceSpecific> 12</ serviceSpecific> <nextResetTime>20 10-05-22T00:00:00 -05:00</ nextResetTime>	**response** <req name="insert" resonly="y"> <res error="0" affected="1"/> </req>	Custom Entity insertion using Transparent entity format request instantly fails with 70030 error code.

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	NOTES
		<customq1>CustomData1</customq1> <customq2>CustomData2</customq2> </quota> </usage>]]></cdata></expr> </set> <where> <expr><attr name="MSISDN"/> <op value="="/> <value val="33123654862" /></expr> </where> </req>		

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	NOTES
		Add Transparent QuotaEntity with customfields **request** <req name="insert" resonly="y"> <ent name="QuotaEntity"/> <set> <expr><attr name="name"/><value val="Q2"/></expr> <expr><attr name="cid"/><value val="9223372036854999999"/></expr> <expr><attr name="time"/><value val="10:10"/></expr> <expr><attr name="totalVolume"/><value val="55000"/></expr> <expr><attr name="inputVolume"/><value val="50000"/></expr> <expr><attr name="outputVolume"/><value val="5000"/></expr> <expr><attr name="customq1"/><value val="CustomData1"/></expr> <expr><attr name="customq2"/><value val="CustomData2"	**response** <req name="insert" resonly="y"> <res error="0" affected="1"/> </req>	

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	NOTES
		/></expr> <expr><attr name="serviceSpecific"/><value val="serviceSpecific"/></expr> <expr><attr name="nextResetTime"/> <value val="1961-12-15T09:04:03"/></expr> </set> <where> <expr><attr name="MSISDN"/> <op value="="/> <value val="15141234567"/></expr> </where> </req>		

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	NOTES
	GET ROW data	get Opaque CustomEntity data **request** <req name="select" resonly="y"> <ent name="Subscriber" /> <select> <expr><attr name="CustomEntity"/></expr> </select> <where> <expr><attr name="MSISDN"/><op value="="/> <value val="33123654862" /></expr> </where> </req>	**response** <req name="select" resonly="y"> <res error="0" affected="1"/> <rset> <row> <rv> <![CDATA[<?xml version="1.0" encoding="UTF-8"?> <customusage> <customent> <custominnerfield1>CustomInnerField1</custominnerfield1> <custominnerfield2>CustomInnerField2</custominnerfield2> </customent> <customouterfield1>CustomOuterField1</customouterfield1> <SequenceNumber>0</SequenceNumber> </customusage>]]> </rv> </row> </rset> </req>	

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	NOTES
		get Multiple Opaque Quota Data and CustomEntity where Quota Data have customFields **request** <req name="select" resonly="y"> <ent name="Subscriber" /> <select> <expr><attr name="Quota"/></expr> <expr><attr name="CustomEntity"/></expr> </select> <where> <expr><attr name="MSISDN"/> <op value="="/> <value val="33123654862" /></expr> </where> </req>	**response** <req name="select" resonly="y"> <res error="0" affected="1"/> <rset> <row> <rv> <![CDATA[<?xml version="1.0" encoding="UTF-8"?> <customusage> <customent> <custominnerfield1>CustomInnerField1</custominnerfield1> <custominnerfield2>CustomInnerField2</custominnerfield2> </customent> <customouterfield1>CustomOuterField1</customouterfield1> <SequenceNumber>0</SequenceNumber> </customusage>]]]]> <![CDATA[> </rv> <rv> <![CDATA[<?xml version="1.0" encoding="UTF-8"?> 	

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	NOTES
			<usage> <quota name="AggregateLi mit"> <cid>922337203685 4775807</cid> <inputVolume>980< /inputVolume> <nextResetTime>20 10-05-22T00:00:00 -05:00</ nextResetTime> <outputVolume>20< /outputVolume> <serviceSpecific> 12</ serviceSpecific> <time>3422</time> <totalVolume>1000 </totalVolume> <customq1>CustomD ata1</customq1> <customq2>CustomD ata2</customq2> </quota> <SequenceNumber>0 </SequenceNumber> <version>3</ version> </usage>]]]]><! [CDATA[> </rv> </row> </rset> </req>	

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	NOTES
	delete row	delete opaque custom entity type **request** <req name="update" resonly="y"> <ent name="Subscriber" /> <set> <expr><attr name="CustomEntity"/><op value="="/> <value val="" isnull="y"/></expr> </set> <where> <expr><attr name="MSISDN"/><op value="="/> <value val="33123654862" /></expr> </where> </req>	**response** <req name="update" resonly="y"> <res error="0" affected="1"/> </req>	

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	NOTES
	Update row	update opaque Custom Entity **request** <req name="update" resonly="y"> <ent name="Subscriber" /> <set> <expr><attr name="CustomEntity"/><op value="="/> <cdata><![CDATA[<?xml version="1.0" encoding="UTF-8"?> <customusage> <customouterfield1>CustomOuterField1</customouterfield1> <customent> <custominnerfield1>CustomInnerField1</custominnerfield1> <custominnerfield2>CustomInnerField2</custominnerfield2> </</cdata>	**response** <req name="update" resonly="y"> <res error="0" affected="1"/> </req>	

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	NOTES
		customent> </ customusage>]]&gt ; </cdata> </expr> </set> <where> <expr><attr name="MSISDN"/ ><op value="="/> <value val="33123654862" /></expr> </where> </req>		

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	NOTES
		update opaque Quota with custom fields **request** <req name="update" resonly="y"> <ent name="Subscriber" /> <set> <expr><attr name="Quota"/ ><op value="="/ ><cdata> <![CDATA[<?xml version="1.0" encoding="UTF-8"? > <usage> <version>3</ version> <quota name="AggregateLi mit"> <cid>922337203685 4775807</cid> <time>3422</ time> <totalVolume>1000 </totalVolume> <inputVolume>980< /inputVolume> <outputVolume>20< /outputVolume> <serviceSpecific> 12</ serviceSpecific> <nextResetTime>20 10-05-22T00:00:00 -05:00</ nextResetTime> <customq1>CustomD ata1</customq1>	**response** <req name="update" resonly="y"> <res error="0" affected="1"/> </req>	

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	NOTES
		<customq2>CustomData2</customq2> </quota> </usage>]]></cdata></expr> </set> <where> <expr><attr name="MSISDN"/><op value="="/> <value val="33123654862"/></expr> </where> </req>		
Row Field Commands	get row field	get quota custom field **request** <req name="select" resonly="y"> <ent name="QuotaEntity"/> <select> <expr><attr name="customq1"/></expr> <expr><attr name="customq2"/></expr> </select> <where> <expr><attr name="MSISDN"/><op value="="/> <value val="33123654862"/></expr> <expr><attr name="name"/><op value="="/> <value val="Q1"/></expr> </where> </req>	**response** <req name="select" resonly="y"> <res error="0" affected="1"/> <rset> <row> <rv>CustomData1</rv> <rv>CustomData2</rv> </row> </rset> </req>	• selecting custom fields from custom entity with this request instantly fails with 70030, field based operations are not supported on custom entity.

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	NOTES
	update row field	update quota custom field **request** <req name="update" resonly="y"> <ent name="QuotaEntity"/> <set> <expr><attr name="customq1"/> <value val="customdataupdated"/></expr> </set> <where> <expr><attr name="MSISDN"/> <op value="="/> <value val="33123654862"/></expr> <expr><attr name="name"/><op value="="/> <value val="Q1"/></expr> </where> </req>	**response** <req name="update" resonly="y"> <res error="0" affected="1"/> </req>	• Custom fields support all the field based operation with the default entities. • Unknown fields (Not mentioned in sec), instantly fails with error code 70015.

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SOAP Operation Type	Operation Type	SOAP/XML Details	SOAP/XML Response	NOTES
	delete row field commands	delete quota custom field **request** <req name="update" resonly="y"> <ent name="QuotaEntity"/> <set> <expr><attr name="customq1"/><op value="="/><value val="" isnull="y"/></expr> </set> <where> <expr><attr name="MSISDN"/><op value="="/><value val="33123654862"/></expr> <expr><attr name="name"/><op value="="/><value val="Q1"/></expr> </where> </req>	**response** <req name="update" resonly="y"> <res error="0" affected="1"/> </req>	

2.3.1 Supported SOAP/XML Request for Custom Entities

The following sample **SEC.yaml** file shares the SOAP/XML request having custom fields and entities:

```
secEntity: |
  - name: QuotaEntity
    elementString: usage
    innerElemenString: quota
    outerFields:
      - version
      - quota
      - SequenceNumber
    innerFields:
      - name
```


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```
      - cid
      - time
      - totalVolume
      - inputVolume
      - outputVolume
      - serviceSpecific
      - nextResetTime
      - Type
      - grantedTotalVolume
      - grantedInputVolume
      - grantedOutputVolume
      - grantedTime
      - grantedServiceSpecific
      - QuotaState
      - RefInstanceId
      - customq1
      - customq2
  - name: DynamicQuotaEntity
    elementString: definition
    innerElemenString: DynamicQuota
    outerFields:
      - version
      - DynamicQuota
      - SequenceNumber
    innerFields:
      - Type
      - name
      - InstanceId
      - Priority
      - InitialTime
      - InitialTotalVolume
      - InitialInputVolume
      - InitialOutputVolume
      - InitialServiceSpecific
      - activationdatetime
      - expirationdatetime
      - purchaseddatetime
      - Duration
      - InterimReportingInterval
      - customdq1
      - customdq2
  - name: Subscriber
    elementString: subscriber
    outerFields:
      - IMSI
      - MSISDN
      - NAI
      - EXTID
      - ACCOUNTID
      - BillingDay
      - Entitlement
      - Tier
      - SequenceNumber
      - customsubs1
      - customsubs2
  - name: StateEntity
```


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```
    elementString: state
    innerElemenString: property
    outerFields:
      - version
      - property
      - SequenceNumber
    innerFields:
      - name
      - value
  - name: CustomEntity
    elementString: customusage
    innerElemenString: customent
    outerFields:
      - customouterfield1
      - customent
    innerFields:
      - custominnerfield1
      - custominnerfield2
```

A sample **convertToSec Flag** description is as follows:

```
Default Value: true
Supported Values: (true/false)
if set to true :
    the request will be validated with the sec in the case-insensitive format
and will be converted to the sec mentioned case.
if set to false :
    the request will be validated with the sec in the case-sensitive format.
if the case doesn't match with the sec mentioned case, requests will
instantly fail with 70015
NOTE:
* Sec validation will always happen, whether convertToSec flag set to true/
false.
* The behaviour remains constant for Custom Fields and Entites
```


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3 REST Specifications of Provisioning Gateway

This chapter describes the REST Specifications of Provisioning Gateway.

3.1 Operations Supported for Provisioning Gateway

The provisioning operations for SLF using Provisioning Gateway are as follows:

> **Note**
>
> 5G UDR supports only scoped requests.

Table 3-1 Provisioning Operations for SLF

Operation Type		Sample Request	Sample Response	Possible Error Codes	Action from Provisioning System
Activation	PUT Note 1	http://<host>:<port>/nudr-group-id-map-prov/v1/slf-group/accountid-12345678910 `{"profile-data": { "SUPI": "imsi-222222221", "accountID": "12345678910", "GPSI":"msisdn-19195226666" }, "slfGroupName": "IMSGrp1", "CHFGroupId": "CHFGrp1" }`	201 Created	400 Bad Request: `"details": {"<FQDN>":"Schema validation failed"}`	Provisioning request error. See Problem Details. Action: Correct the payload or the key and resend.
				500 Internal Server Error: `"details": {"<SEG>": "{response}"}` Provisioning Gateway Processing Failed	Transient error with UDR's Internal error. Action: Provisioning system to queue and retry the command.
				503 Service Unavailable: `"details": {"<FQDN/SEG>":"{response}"}`	Transient error with UDR's Internal error. Action: Provisioning system to queue and retry the command.

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Table 3-1 (Cont.) Provisioning Operations for SLF

Operation Type		Sample Request	Sample Response	Possible Error Codes	Action from Provisioning System
				404 Not Found: Destination not found	Provisioning request error. See Problem Details.Action : Correct the payload or the key and resend.
Modify SUPI	PUT Note 1	http://<host>:<port>/nudr-group-id-map-prov/v1/slf-group/accountid-12345678910 `{ {"profile-data": { "SUPI": "imsi-333333333", "accountID": "12345678910", "GPSI":"msisdn-19195226666" }, "slfGroupName": "IMSGrp1", "CHFGroupId": "CHFGrp1" }`	201 Created	400 Bad Request: `"details": {"<FQDN>":"Schema validation failed"}`	Provisioning request error. See Problem Details. Action: Correct the payload or the key and resend.
				500 Internal Server Error: `"details": {"<SEG>": "{response}"}` Provisioning Gateway Processing Failed	Transient error with UDR's Internal error. Action: Provisioning system to queue and retry the command.
				503 Service Unavailable: `"details": {<FQDN/SEG>":"{response}"}`	Transient error with UDR's Internal error. Action: Provisioning system to queue and retry the command.
				404 Not Found: Destination not found	Provisioning request error. See Problem Details. Action: Correct the payload or the key and resend.

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Table 3-1 (Cont.) Provisioning Operations for SLF

Operation Type		Sample Request	Sample Response	Possible Error Codes	Action from Provisioning System
Modify GPSI	PUT Note 1	http://<host>:<port>/nudr-group-id-map-prov/v1/slf-group/accountid-12345678910 {"profile-data": { “SUPI": “imsi-222222221", “accountID": "12345678910", “GPSI”:”msisdn-19999999999”, }, "slfGroupName": “IMSGrp1”, "CHFGroupId": "CHFGrp1"}	201 Created	400 Bad Request: "details": {"<FQDN>":"Schema validation failed"}	Provisioning request error. See Problem Details. Action: Correct the payload or the key and resend.
				500 Internal Server Error: "details": {"<SEG>": "{response}"} Prov gateway Processing Failed	Transient error with UDR's Internal error. Action: Provisioning system to queue and retry the command.
				503 Service Unavailable: "details": {<FQDN/SEG>": {response}"}	Transient error with UDR's Internal error. Action: Provisioning system to queue and retry the command.
				404 Not Found:Destination not found	Provisioning request error. See Problem Details. Action: Correct the payload or the key and resend.
Modify IMS Group	PUT Note 1	http://<host>:<port>/nudr-group-id-map-prov/v1/slf-group/accountid-12345678910 {"profile-data": { “SUPI": “imsi-222222221", “accountID": "12345678910",	201 Created	400 Bad Request: "details": {"<FQDN>":"Schema validation failed"}	Provisioning request error. See Problem Details. Action: Correct the payload or the key and resend.

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Table 3-1 (Cont.) Provisioning Operations for SLF

Operation Type		Sample Request	Sample Response	Possible Error Codes	Action from Provisioning System
		“GPSI”:”msisdn-19195226666”, } , "slfGroupName": “IMSGrp2”, "CHFGroupId": "CHFGrp1"}		500 Internal Server Error: "details": {"<SEG>" : "{response}"} Prov gateway Processing Failed	Transient error with UDR's Internal error. Action: Provisioning system to queue and retry the command.
				503 Service Unavailable: "details" : {<FQDN/SEG>": {response}"}	Transient error with UDR's Internal error. Action: Provisioning system to queue and retry the command.
				404 Not Found:Destination not found	Provisioning request error. See Problem Details. Action: Correct the payload or the key and resend.
Activation with multiple keys in SUPI and GPSI	PUT Note 1	http://<host>:<port>/nudr-group-id-map-prov/v1/slf-group/accountid-12345678910 {"profile-data": { "SUPI": ["imsi-222222221", "nai-test@vzw.com"], "accountID": "12345678910",	201 Created	400 Bad Request: "details": {"<FQDN>":"Schema validation failed"}	Provisioning request error. See Problem Details. Action: Correct the payload or the key and resend.

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Table 3-1 (Cont.) Provisioning Operations for SLF

Operation Type		Sample Request	Sample Response	Possible Error Codes	Action from Provisioning System
		"GPSI": ["msisdn-19195225555" , "extid-user@vzw.com"] }, "slfGroupName": "IMSGrp1", "CHFGroupId": "CHFGrp1"}		500 Internal Server Error: "details": {"<SEG>": "{response}"} Prov gateway Processing Failed	Transient error with UDR's Internal error. Action: Provisioning system to queue and retry the command.
				503 Service Unavailable: "details": {<FQDN/SEG>": {response}"}	Transient error with UDR's Internal error. Action: Provisioning system to queue and retry the command.
				404 Not Found:Destination not found	Provisioning request error. See Problem Details. Action: Correct the payload or the key and resend.
DELETE	DELETE Note 2	http://<host>:<port>/nudr-group-id-map-prov/v1/slf-group/accountid-12345678910	204 No Content	404 Not Found: Subscriber does not exist	Provisioning request error. See Problem Details. Action: Correct the payload or the key and resend.
				503 Service Unavailable: "details": {<FQDN/SEG>": {response}"}	Transient error with UDR's Internal error. Action: Provisioning system to queue and retry the command.

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Table 3-1 (Cont.) Provisioning Operations for SLF

Operation Type		Sample Request	Sample Response	Possible Error Codes	Action from Provisioning System
				500 Internal Server Error: `"details": {"<SEG>": "{response}"}`	Transient error with UDR's Internal error. Action: Provisioning system to queue and retry the command.
Query	GET Note 3	http://<host>:<port>/nudr-group-id-map-prov/v1/slf-group/accountid-12345678910	200 OK `{"profile-data": { "SUPI": ["imsi-2222222221", "nai-test@vzw.com"], "accountID": "12345678910", "GPSI": ["msisdn-19195225555", "extid-user@vzw.com"], }, "slfGroupName": "IMSGrp1", "CHFGroupId": "CHFGrp1"}`	404 Not Found: Subscriber does not exist	Provisioning request error. See Problem Details. Action: Correct the payload or the key and resend.
	GET Note 3	http://<host>:<port>/nudr-group-id-map-prov/v1/slf-group/imsi-2222222221		500 Internal Server Error: `"details": {"<SEG>": "{response}"}` Prov gateway Processing Failed	Transient error with UDR's Internal error. Action: Provisioning system to queue and retry the command.
	GET Note 3	http://<host>:<port>/nudr-group-id-map-prov/v1/slf-group/msisdn-19195225555		503 Service Unavailable: `"details": {"<FQDN/SEG>": {response}}`	Transient error with UDR's Internal error. Action: Provisioning system to queue and retry the command.
				409 Response Conflict: `"details": {"<FQDN/SEG>": {response}, "<FQDN'/SEG'>": {response'}}`	Subscriber Data on segments do not match. See Problem Details. Action: Correct the subscriber data and resend the request.

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You can **Provision/Re-provision subscriber based on accountid** when a command has all keys and IMS group. Verify all keys that are already provisioned and point to one subscriber. Add keys that do not exist in SLF DB and remove keys that exist in SLF DB but are absent in command. Set IMS group value for the subscriber.

- **Delete subscriber on the basis of accountid**. This deletes all keys for subscriber and IMSgroup association.
- **Retrieve subscriber**. Return subscriber IMS group and all subscriber keys.

The Title and Detail information under Problem Details in Error Response:

Table 3-2 Title and Detail Information

Error Codes	Title	Detail
400	Request Validation Failed	Request failed from SLF.
		Key provided in the URI is invalid
		URL subscriber id not present in the payload
		Non-Numeric values are used as the value for numeric key (IMSI, MSISDN) in the URI
		Invalid URI received by Provgw
415	Unsupported Media Type	Unsupported Media type is added in the request header
406	Media Type Not Acceptable	Invalid Accept header is added in the request
404	Subscriber does not exist / Group Not Found / NOT FOUND	SLF responded with "Subscriber does not exist" or "Group Not Found"
		Invalid Routes configured in ingress gateway (IGW - unknownRouteException)
409	Response Conflict	Response body received from multiple SLF does not match for successful GET response.
503	Service Unavailable / SERVICE_UNAVAILABLE	Anyone or all the SLF goes down
		IP address of a backend service could not be determined. (IGW - unknownHostException)
		Timeout has occurred on a socket read or accept. (IGW - socketTimeoutException)
		Error connecting a socket to a remote address and port. (IGW - connectTimeoutException)
500	Internal Server Error	SLF responded with "Internal Server Error"
		No response received from the SLF and the request timed-out
		Some exception occurred while processing the request

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4

Configuration API Specifications

This section describes configuration APIs for Provisioning Gateway.

The configuration REST APIs are exposed directly on the provgw-config microservice of Provisioning Gateway as it does not uses Ingress Gateway for traffic (OAM traffic). These APIs are consumed by CNC Console GUI. For more information about CNC Console GUI, see *Oracle Communications Cloud Native Core, Unified Data Repository User Guide*.

4.1 Configuration APIs for Provisioning Gateway Microservices

This section describes the configuration APIs for Provisioning Gateway microservices.

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Table 4-1 Configuration APIs for Provisioning Gateway Microservices

Operation Type	Request	Response	Notes
GET	http://<host>:<port>/ provgw-config/v1/ udr.provgwservice.cfg/ PROVGW-SERVICE	Result Code: 200 OK Payload { "soapService_udrIp": "ocudr-ingressgateway-prov.ocudr", "retryErrorCodes": [500, 503], "retryCount": 2, "skipSetResponseForPartialFailure": false, "retryInterval": 2, "soapService_udrSignallingIp": "ocudr-ingressgateway-sig.ocudr", "keyValuePattern": { "accountid": "^[a-zA-Z0-9]{1,36}$", "nai": "^.+$", "imsi": "^[0-9]{5,15}$", "extid": "^[a-zA-Z0-9_!#$%&*+/=?`{|}~^.-]+@[a-zA-Z0-9.-]+$", "msisdn": "^[0-9]{5,15}$" }, "tracingEnabled": false }	NA

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Table 4-1 (Cont.) Configuration APIs for Provisioning Gateway Microservices

Operation Type	Request	Response	Notes
GET	URI : http://<host>:<port>/provgw-config/v1/udr.auditorservice.cfg/AUDITOR-SERVICE	Result Code: 200 OK Payload { "auditPause": false, "daysToKeepExportedFiles": 1, "startTime": "14/09/2022 17:32:10", "maximumDiscrepanciesCount": 1000000, "deleteExportedFilesAfterAudit": true, "frequencyOfPeriodicDump": "DAILY", "maxNumberAuditReports": 3, "slfInstanceIds": ["SLFSegment1Set1-Instance1", "SLFSegment1Set2-Instance1", "SLFSegment2Set1-Instance1", "SLFSegment2Set2-Instance1"] }	NA

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Table 4-1 (Cont.) Configuration APIs for Provisioning Gateway Microservices

Operation Type	Request	Response	Notes
GET	URI: http://<host>:<port>/provgw-config/v1/udr.provgw.global.cfg/PROVGW-GLOBAL	Result Code: 200 OK Payload { "usageMode": "SLF", "outgoingHttps": false, "segDetails": [{ "segmentName": "SEG-1", "slfSets": [{ "setName": "slfSet1", "endpointValues": ["ocudr-ingressgateway-prov.ocudr1", "ocudr-ingressgateway-prov.ocudr2", "ocudr-ingressgateway-prov.ocudr3"], "preferredEndpoint": "ocudr-ingressgateway-prov.ocudr1" }, { "setName": "slfSet2", "endpointValues": ["ocudr-ingressgateway-prov.ocudr4", "ocudr-ingressgateway-prov.ocudr5", "ocudr-ingressgateway-prov.ocudr6"], "preferredEndpoint":	NA

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Table 4-1 (Cont.) Configuration APIs for Provisioning Gateway Microservices

Operation Type	Request	Response	Notes
		"ocudr-ingressgateway-prov.ocudr4" }] }, { "segmentName": "SEG-2", "slfSets": [{ "setName": "slfSet1", "endpointValues": ["ocudr-ingressgateway-prov.ocudr7", "ocudr-ingressgateway-prov.ocudr8", "ocudr-ingressgateway-prov.ocudr9"], "preferredEndpoint": "ocudr-ingressgateway-prov.ocudr7" }, { "setName": "slfSet2", "endpointValues": ["ocudr-ingressgateway-prov.ocudr10", "ocudr-ingressgateway-prov.ocudr11", "ocudr-ingressgateway-prov.ocudr12"], "preferredEndpoint": "ocudr-	

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Table 4-1 (Cont.) Configuration APIs for Provisioning Gateway Microservices

Operation Type	Request	Response	Notes
		ingressgateway-prov.ocudr10" }] }], "errorCodeProfiles": [{ "name": "INVALID_SLF_IP", "errorCode": "503", "errorCause": "DNS resolution", "errorTitle": "Service Unavailable", "errorDescription": "Service Unavailable" }, { "name": "INCORRECT_SLF_PORT", "errorCode": "503", "errorCause": "", "errorTitle": "Service Unavailable", "errorDescription": "Service Unavailable" }, { "name": "DRPROV_UNKNOWN_HOST" , "errorCode": "400", "errorCause": "Unknown Host Exception at IGW", "errorTitle": "Unknown Host Exception",	

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Table 4-1 (Cont.) Configuration APIs for Provisioning Gateway Microservices

Operation Type	Request	Response	Notes
		"errorDescription": "DRPROV down and GW unable to resolve on non-asm" }, { "name": "GW_BLACKLIST_IP", "errorCode": "500", "errorCause": "Encountered Blacklist IP exception at IGW", "errorTitle": "Internal Server Error", "errorDescription": "GW down and ProvGw unable to resolve on non-asm" }, { "name": "SLF_503_CONNECTTIMEOUT", "errorCode": "503", "errorCause": "Connect Timeout", "errorTitle": "Service Unavailable", "errorDescription": "Service Unavailable" }, { "name": "SLF_503_CONNECTREFUSED", "errorCode": "503", "errorCause": "Connection refused", "errorTitle": "Service	

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Table 4-1 (Cont.) Configuration APIs for Provisioning Gateway Microservices

Operation Type	Request	Response	Notes
		Unavailable", "errorDescription": "Service Unavailable" }, { "name": "SLF_503_timeout-5000 ms", "errorCode": "503", "errorCause": "Total timeout 5000 ms elapsed", "errorTitle": "Service Unavailable", "errorDescription": "Service Unavailable" }, { "name": "SLF_503_SERVICEISDOW N", "errorCode": "503", "errorCause": "Service is down", "errorTitle": "Service Unavailable", "errorDescription": "Service Unavailable" }, { "name": "SERVER_ERROR_PLAIN_T EXT_BODY", "errorCode": "503", "errorCause": "", "errorTitle": "", "errorDescription": ""	

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Table 4-1 (Cont.) Configuration APIs for Provisioning Gateway Microservices

Operation Type	Request	Response	Notes
		}, { "name": "NON_ASM_SLF_IGW_DOWN_CONNECTION", "errorCode": "408", "errorCause": "Connection timeout at EGW", "errorTitle": "Connection timeout", "errorDescription": "Connection timeout" }, { "name": "NON_ASM_SLF_IGW_DOWN_REQUEST", "errorCode": "408", "errorCause": "Request Timeout at EGW", "errorTitle": "Request Timeout", "errorDescription": "Request Timeout" }, { "name": "NON_ASM_SLF_DRSERVICE_DOWN_REQUEST", "errorCode": "408", "errorCause": "Request Timeout at IGW", "errorTitle": "Request Timeout", "errorDescription": "Request Timeout" }], "configClientConnectT	

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Table 4-1 (Cont.) Configuration APIs for Provisioning Gateway Microservices

Operation Type	Request	Response	Notes
		imeout": 1000, "configClientReadTime out": 1000 }	

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Table 4-1 (Cont.) Configuration APIs for Provisioning Gateway Microservices

Operation Type	Request	Response	Notes
GET	URI: http://<host>:<port>provgw-config/v1/udr.provgwservice.sec.cfg/PROVGW-SERVICE-SEC	Result Code: 200 OK Payload { "enablesec": true, "secEntities": [{ "outerFields": ["quota", "SequenceNumber", "version"], "innerFields": ["totalVolume", "RefInstanceId", "grantedTotalVolume", "outputVolume", "Type", "grantedInputVolume", "grantedOutputVolume", "grantedTime", "grantedServiceSpecific", "name", "nextResetTime", "time", "inputVolume", "serviceSpecific",	NA

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Table 4-1 (Cont.) Configuration APIs for Provisioning Gateway Microservices

Operation Type	Request	Response	Notes
		"cid", "QuotaState"], "name": "QuotaEntity", "elementString": "usage", "innerElemenString": "quota" }, { "outerFields": ["DynamicQuota", "SequenceNumber", "version"], "innerFields": ["InstanceId", "purchaseddatetime", "Priority", "InitialInputVolume", "Duration", "InterimReportingInte rval", "InitialOutputVolume" , "Type", "activationdatetime", "expirationdatetime", "InitialTotalVolume",	

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Table 4-1 (Cont.) Configuration APIs for Provisioning Gateway Microservices

Operation Type	Request	Response	Notes
		"name", "InitialServiceSpecif ic", "InitialTime"], "name": "DynamicQuotaEntity", "elementString": "definition", "innerElemenString": "DynamicQuota" }, { "outerFields": ["MSISDN", "Tier", "NAI", "IMSI", "SequenceNumber", "EXTID", "ACCOUNTID", "BillingDay", "Entitlement"], "innerFields": null, "name": "Subscriber", "elementString": "subscriber", "innerElemenString": null	

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Table 4-1 (Cont.) Configuration APIs for Provisioning Gateway Microservices

Operation Type	Request	Response	Notes
		}, { "outerFields": ["property", "SequenceNumber", "version"], "innerFields": ["name", "value"], "name": "StateEntity", "elementString": "state", "innerElemenString": "property" }] }	

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Table 4-1 (Cont.) Configuration APIs for Provisioning Gateway Microservices

Operation Type	Request	Response	Notes
GET	URI: http://<host>:<port>/provgw-config/v1/udr.auditorstatus.cfg/AUDIT_FILE_STATUS	Result Code: 200 OK Payload [{ "totalAuditedSubscribersAllInstances": { "SLFSegment1Set2-Instance1": 1, "SLFSegment2Set1-Instance1": 2, "SLFSegment2Set2-Instance1": 2, "SLFSegment1Set1-Instance1": 1 }, "mismatchCount": 1, "auditReportID": "audit2026030408450333", "progress": 100, "matchCount": 1, "startTime": "04/03/2026 08:45:03", "endTime": "04/03/2026 08:45:03", "status": "AUDIT_COMPLETED" }, { "totalAuditedSubscribersAllInstances": { "SLFSegment1Set2-Instance1": 1, "SLFSegment2Set1-Instance1": 2,	404 Data field does not exist: If the database does not exist

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Table 4-1 (Cont.) Configuration APIs for Provisioning Gateway Microservices

Operation Type	Request	Response	Notes
		"SLFSegment2Set2-Instance1": 2, "SLFSegment1Set1-Instance1": 1 }, "mismatchCount": 1, "auditReportID": "audit2026030408460338", "progress": 0, "matchCount": 1, "startTime": "04/03/2026 08:46:03", "endTime": "", "status": "AUDIT_IN_PROGRESS" }]	

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Table 4-1 (Cont.) Configuration APIs for Provisioning Gateway Microservices

Operation Type	Request	Response	Notes
GET	URI: http://<host>:<port>/provgw-config/v1/udr.auditorstatus.cfg/AUDIT_FILE_STATUS/audit2026032305131100	Result Code: 200 OK Payload { "totalAuditedSubscribersAllInstances": [{ "totalAuditedSubscribers": 5, "slfInstanceId": "SLFSegment1Set2-Instance1" }, { "totalAuditedSubscribers": 5, "slfInstanceId": "SLFSegment2Set1-Instance1" }, { "totalAuditedSubscribers": 5, "slfInstanceId": "SLFSegment2Set2-Instance1" }, { "totalAuditedSubscribers": 5, "slfInstanceId": "SLFSegment1Set1-Instance1" }], "mismatchCount": 20, "auditReportID": "audit2026032305131100", "progress": 100,	**404 Data field does not exist**: in case DB doesn't exist **404 Not Found:** in case audit report doesn't exist

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Table 4-1 (Cont.) Configuration APIs for Provisioning Gateway Microservices

Operation Type	Request	Response	Notes
		<pre>"matchCount": 0, "startTime": "23/03/2026 05:13:11", "endTime": "23/03/2026 05:13:11", "status": "AUDIT_COMPLETED" }</pre>	

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Table 4-1 (Cont.) Configuration APIs for Provisioning Gateway Microservices

Operation Type	Request	Response	Notes
GET	URI: http://<host>:<port>/provgw/nf-common-component/v1/igw/errorcodeprofiles	[{ "name": "ERR_NOT_FOUND", "errorCode": 404, "errorCause": "Cause Not Found", "errorTitle": "errorTitle Not Found", "errorDescription": "errorDescription Not Found" }, { "name": "ERR_RATE_LIMIT", "errorCode": 503, "errorCause": "TOO_MANY_REQUESTS at IGW", "errorTitle": "Too many requests sent. Service is overloaded at IGW", "errorDescription": "TOO_MANY_REQUESTS" }, { "name": "ERR_UNKNOWN_HOST", "errorCode": 400, "errorCause": "Unknown Host Exception at IGW", "errorTitle": "Unknown Host Exception",	NA

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Table 4-1 (Cont.) Configuration APIs for Provisioning Gateway Microservices

Operation Type	Request	Response	Notes
		"errorDescription": "Unknown Host Exception" }, { "name": "ERR_CCA_HEADER_VALIDATION", "errorCode": 403, "errorCause": "CCA_VERIFICATION_FAILURE", "errorTitle": "CCA_HEADER_INVALID" }]	

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Table 4-1 (Cont.) Configuration APIs for Provisioning Gateway Microservices

Operation Type	Request	Response	Notes
GET	URI: http://<host>:<port>/provgw/nf-common-component/v1/egw/errorcodeprofiles	[{ "name": "ERR_NOT_FOUND", "errorCode": 404, "errorCause": "Cause Not Found", "errorTitle": "errorTitle Not Found", "errorDescription": "errorDescription Not Found" }, { "name": "ERR_SERVICE_UNAVAILABLE", "errorCode": 503 }, { "name": "ERR_UNKNOWN_HOST", "errorCode": 400, "errorCause": "Unknown Host Exception at EGW", "errorTitle": "Unknown Host Exception", "errorDescription": "Unknown Host Exception" }, { "name": "error429", "errorCode": 429, "errorCause": "TOO_MANY_REQUESTS", "errorTitle": "Too many requests sent. Pod Protection by Rate Limiting rejected request at EGW",	NA

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Table 4-1 (Cont.) Configuration APIs for Provisioning Gateway Microservices

Operation Type	Request	Response	Notes
		"errorDescription": "TOO_MANY_REQUESTS" }, { "name": "ERR_POP_503", "errorCode": 503, "errorCause": "POD_PROTECTION_BY_RATE_LIMITING", "errorTitle": "Egress Gateway is overloaded", "errorDescription": "Pod Protection by Rate Limiting rejected request" }]	
GET	URI: http://<host>:<port>/provgw/nf-common-component/v1/igw/routesconfiguration	[{ "id": "traffic_mapping_rest_group_prov", "uri": "http://provgw-provgw-service:5001", "order": 1, "predicates": [{ "args": { "pattern": "/**" }, "name": "Path" }] }]	NA

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Table 4-1 (Cont.) Configuration APIs for Provisioning Gateway Microservices

Operation Type	Request	Response	Notes
GET	URI : http://<host>:<port>/provgw/nf-common-component/v1/egw/podProtectionByRateLimiting	{ "routes": [{ "id": 1, "path": "/nudr-group-id-map-prov/**", "methods": ["POST", "GET", "DELETE", "PUT"], "percentage": 100 }], "enabled": true, "fillRate": 3200, "defaultPriority": 24, "errorCodeProfile": "error429", "priorityHeaderName": "3gpp-Sbi-Message-Priority", "deniedRequestActions": [{ "id": 1, "action": "CONTINUE", "congestionLevel": 0 }, { "id": 2, "action": "CONTINUE", "congestionLevel": 1 }, { "id": 3, "action": "REJECT",	

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Table 4-1 (Cont.) Configuration APIs for Provisioning Gateway Microservices

Operation Type	Request	Response	Notes
		"congestionLevel": 2, "errorCodeProfile": "error429" }, { "id": 4, "action": "REJECT", "congestionLevel": 3, "errorCodeProfile": "ERR_POP_503" }] }	

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Table 4-1 (Cont.) Configuration APIs for Provisioning Gateway Microservices

Operation Type	Request	Response	Notes
GET	URI : http://<host>:<port>/provgw/nf-common-component/v1/egw/congestionConfig	{ "levels": [{ "name": "Normal", "value": 1, "resources": [{ "name": "CPU", "onset": 65, "abatement": 60 }] }, { "name": "Danger Of Congestion", "value": 2, "resources": [{ "name": "CPU", "onset": 75, "abatement": 70 }] }, { "name": "Congestion", "value": 3, "resources": [{ "name": "CPU", "onset": 85, "abatement": 80 }] }],	

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Table 4-1 (Cont.) Configuration APIs for Provisioning Gateway Microservices

Operation Type	Request	Response	Notes
		"refreshInterval": 500 }	

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Table 4-1 (Cont.) Configuration APIs for Provisioning Gateway Microservices

Operation Type	Request	Response	Notes
PUT	URI : http://<host>:<port>/provgw-config/v1/udr.provgwservice.cfg/PROVGW-SERVICE	Result Code: 200 OK Payload { "soapService_udrIp": "ocudr-ingressgateway-prov.ocudr", "retryErrorCodes": [500, 503], "retryCount": 2, "skipSetResponseForPartialFailure": false, "retryInterval": 2, "soapService_udrSignallingIp": "ocudr-ingressgateway-sig.ocudr", "keyValuePattern": { "accountid": "^[a-zA-Z0-9]{1,36}$", "nai": "^.+$", "imsi": "^[0-9]{5,15}$", "extid": "^[a-zA-Z0-9_!#$%&*+/=?`{|}~^.-]+@[a-zA-Z0-9.-]+$", "msisdn": "^[0-9]{5,15}$" }, "tracingEnabled": false }	400 Bad Request: JSONObject[<ParameterName>] not found. 400 Bad Request: Read Only field can not be modified 400 Bad Request: Invalid schema content supplied

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Table 4-1 (Cont.) Configuration APIs for Provisioning Gateway Microservices

Operation Type	Request	Response	Notes
PUT	URI : http://<host>:<port>/provgw-config/v1/udr.auditorservice.cfg/AUDITOR-SERVICE Payload	Result Code: 200 OK Payload { "auditPause": false, "daysToKeepExportedFiles": 1, "startTime": "14/09/2022 17:32:10", "maximumDiscrepanciesCount": 1000000, "deleteExportedFilesAfterAudit": true, "frequencyOfPeriodicDump": "DAILY", "maxNumberAuditReports": 3, "slfInstanceIds": ["SLFSegment1Set1-Instance1", "SLFSegment1Set2-Instance1", "SLFSegment2Set1-Instance1", "SLFSegment2Set2-Instance1"] }	400 Bad Request: JSONObject[<ParameterName>] not found. 400 Bad Request: Read Only field can not be modified 400 Bad Request: Invalid schema content supplied

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Table 4-1 (Cont.) Configuration APIs for Provisioning Gateway Microservices

Operation Type	Request	Response	Notes
PUT	URI : http://<host>:<port>/provgw-config/v1/udr.provgw.global.cfg/PROVGW-GLOBAL	Result Code: 200 OK Payload { "usageMode": "SLF", "outgoingHttps": false, "segDetails": [{ "segmentName": "SEG-1", "slfSets": [{ "setName": "slfSet1", "endpointValues": ["ocudr-ingressgateway-prov.ocudr1", "ocudr-ingressgateway-prov.ocudr2", "ocudr-ingressgateway-prov.ocudr3"], "preferredEndpoint": "ocudr-ingressgateway-prov.ocudr1" }, { "setName": "slfSet2", "endpointValues": ["ocudr-ingressgateway-prov.ocudr4", "ocudr-ingressgateway-prov.ocudr5", "ocudr-ingressgateway-prov.ocudr6"], "preferredEndpoint":	400 Bad Request: JSONObject[<ParameterName>] not found. 400 Bad Request: Read Only field can not be modified 400 Bad Request: Invalid schema content supplied

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Table 4-1 (Cont.) Configuration APIs for Provisioning Gateway Microservices

Operation Type	Request	Response	Notes
		"ocudr-ingressgateway-prov.ocudr4" }] }, { "segmentName": "SEG-2", "slfSets": [{ "setName": "slfSet1", "endpointValues": ["ocudr-ingressgateway-prov.ocudr7", "ocudr-ingressgateway-prov.ocudr8", "ocudr-ingressgateway-prov.ocudr9"], "preferredEndpoint": "ocudr-ingressgateway-prov.ocudr7" }, { "setName": "slfSet2", "endpointValues": ["ocudr-ingressgateway-prov.ocudr10", "ocudr-ingressgateway-prov.ocudr11", "ocudr-ingressgateway-prov.ocudr12"], "preferredEndpoint": "ocudr-	

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Table 4-1 (Cont.) Configuration APIs for Provisioning Gateway Microservices

Operation Type	Request	Response	Notes
		ingressgateway-prov.ocudr10" }] }], "errorCodeProfiles": [{ "name": "INVALID_SLF_IP", "errorCode": "503", "errorCause": "DNS resolution", "errorTitle": "Service Unavailable", "errorDescription": "Service Unavailable" }, { "name": "INCORRECT_SLF_PORT", "errorCode": "503", "errorCause": "", "errorTitle": "Service Unavailable", "errorDescription": "Service Unavailable" }, { "name": "DRPROV_UNKNOWN_HOST" , "errorCode": "400", "errorCause": "Unknown Host Exception at IGW", "errorTitle": "Unknown Host Exception",	

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Table 4-1 (Cont.) Configuration APIs for Provisioning Gateway Microservices

Operation Type	Request	Response	Notes
		"errorDescription": "DRPROV down and GW unable to resolve on non-asm" }, { "name": "GW_BLACKLIST_IP", "errorCode": "500", "errorCause": "Encountered Blacklist IP exception at IGW", "errorTitle": "Internal Server Error", "errorDescription": "GW down and ProvGw unable to resolve on non-asm" }, { "name": "SLF_503_CONNECTTIMEOUT", "errorCode": "503", "errorCause": "Connect Timeout", "errorTitle": "Service Unavailable", "errorDescription": "Service Unavailable" }, { "name": "SLF_503_CONNECTREFUSED", "errorCode": "503", "errorCause": "Connection refused", "errorTitle": "Service	

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Table 4-1 (Cont.) Configuration APIs for Provisioning Gateway Microservices

Operation Type	Request	Response	Notes
		Unavailable", "errorDescription": "Service Unavailable" }, { "name": "SLF_503_timeout-5000 ms", "errorCode": "503", "errorCause": "Total timeout 5000 ms elapsed", "errorTitle": "Service Unavailable", "errorDescription": "Service Unavailable" }, { "name": "SLF_503_SERVICEISDOW N", "errorCode": "503", "errorCause": "Service is down", "errorTitle": "Service Unavailable", "errorDescription": "Service Unavailable" }, { "name": "SERVER_ERROR_PLAIN_T EXT_BODY", "errorCode": "503", "errorCause": "", "errorTitle": "", "errorDescription": ""	

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Table 4-1 (Cont.) Configuration APIs for Provisioning Gateway Microservices

Operation Type	Request	Response	Notes
		<pre> }, { "name": "NON_ASM_SLF_IGW_DOWN _CONNECTION", "errorCode": "408", "errorCause": "Connection timeout at EGW", "errorTitle": "Connection timeout", "errorDescription": "Connection timeout" }, { "name": "NON_ASM_SLF_IGW_DOWN _REQUEST", "errorCode": "408", "errorCause": "Request Timeout at EGW", "errorTitle": "Request Timeout", "errorDescription": "Request Timeout" }, { "name": "NON_ASM_SLF_DRSERVIC E_DOWN_REQUEST", "errorCode": "408", "errorCause": "Request Timeout at IGW", "errorTitle": "Request Timeout", "errorDescription": "Request Timeout" }], "configClientConnectT</pre>	

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Table 4-1 (Cont.) Configuration APIs for Provisioning Gateway Microservices

Operation Type	Request	Response	Notes
		imeout": 1000, "configClientReadTime out": 1000 } Note: Do not change the default value of configClientConnectTimeout and configClientReadTimeout parameters unless required.	

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Table 4-1 (Cont.) Configuration APIs for Provisioning Gateway Microservices

Operation Type	Request	Response	Notes
PUT	URI: http://<host>:<port>/provgw-config/v1/udr.provgwservice.sec.cfg/PROVGW-SERVICE-SEC	Result Code: 200 OK Payload { "enablesec": true, "secEntities": [{ "outerFields": ["quota", "SequenceNumber", "version"], "innerFields": ["totalVolume", "RefInstanceId", "grantedTotalVolume", "outputVolume", "Type", "grantedInputVolume", "grantedOutputVolume", "grantedTime", "grantedServiceSpecific", "name", "nextResetTime", "time", "inputVolume", "serviceSpecific",	400 Bad Request: JSONObject[<ParameterName>] not found. 400 Bad Request: Invalid schema content supplied

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Table 4-1 (Cont.) Configuration APIs for Provisioning Gateway Microservices

Operation Type	Request	Response	Notes
		"cid", "QuotaState"], "name": "QuotaEntity", "elementString": "usage", "innerElemenString": "quota" }, { "outerFields": ["DynamicQuota", "SequenceNumber", "version"], "innerFields": ["InstanceId", "purchaseddatetime", "Priority", "InitialInputVolume", "Duration", "InterimReportingInte rval", "InitialOutputVolume" , "Type", "activationdatetime", "expirationdatetime", "InitialTotalVolume",	

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Table 4-1 (Cont.) Configuration APIs for Provisioning Gateway Microservices

Operation Type	Request	Response	Notes
		"name", "InitialServiceSpecif ic", "InitialTime"], "name": "DynamicQuotaEntity", "elementString": "definition", "innerElemenString": "DynamicQuota" }, { "outerFields": ["MSISDN", "Tier", "NAI", "IMSI", "SequenceNumber", "EXTID", "ACCOUNTID", "BillingDay", "Entitlement"], "innerFields": null, "name": "Subscriber", "elementString": "subscriber", "innerElemenString": null	

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Table 4-1 (Cont.) Configuration APIs for Provisioning Gateway Microservices

Operation Type	Request	Response	Notes
		}, { "outerFields": ["property", "SequenceNumber", "version"], "innerFields": ["name", "value"], "name": "StateEntity", "elementString": "state", "innerElemenString": "property" }] }	

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Table 4-1 (Cont.) Configuration APIs for Provisioning Gateway Microservices

Operation Type	Request	Response	Notes
PUT	URI: http://<host>:<port>/provgw/nf-common-component/v1/igw/errorcodeprofiles	Result Code: 200 OK [{ "name": "ERR_NOT_FOUND", "errorCode": 404, "errorCause": "Cause Not Found", "errorTitle": "errorTitle Not Found", "errorDescription": "errorDescription Not Found" }, { "name": "ERR_RATE_LIMIT", "errorCode": 503, "errorCause": "TOO_MANY_REQUESTS at IGW", "errorTitle": "Too many requests sent. Service is overloaded at IGW", "errorDescription": "TOO_MANY_REQUESTS" }, { "name": "ERR_UNKNOWN_HOST", "errorCode": 400, "errorCause": "Unknown Host Exception at IGW", "errorTitle": "Unknown Host	400 Bad Request: Could not Validate Json

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Table 4-1 (Cont.) Configuration APIs for Provisioning Gateway Microservices

Operation Type	Request	Response	Notes
		Exception", "errorDescription": "Unknown Host Exception" }, { "name": "ERR_CCA_HEADER_VALIDATION", "errorCode": 403, "errorCause": "CCA_VERIFICATION_FAILURE", "errorTitle": "CCA_HEADER_INVALID" }]	

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Table 4-1 (Cont.) Configuration APIs for Provisioning Gateway Microservices

Operation Type	Request	Response	Notes
PUT	URI: http://<host>:<port>/provgw/nf-common-component/v1/egw/errorcodeprofiles	Result Code: 200 OK [{ "name": "ERR_NOT_FOUND", "errorCode": 404, "errorCause": "Cause Not Found", "errorTitle": "errorTitle Not Found", "errorDescription": "errorDescription Not Found" }, { "name": "ERR_REQUEST_TIMEOUT", "errorCode": 503 }, { "name": "ERR_UNKNOWN_HOST", "errorCode": 400, "errorCause": "Unknown Host Exception at EGW", "errorTitle": "Unknown Host Exception", "errorDescription": "Unknown Host Exception" }]	400 Bad Request: Could not Validate Json

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Table 4-1 (Cont.) Configuration APIs for Provisioning Gateway Microservices

Operation Type	Request	Response	Notes
PUT	URI: http://<host>:<port>/provgw/nf-common-component/v1/igw/routesconfiguration	Result Code: 200 OK [{ "id": "traffic_mapping_rest_group_prov", "uri": "http://provgw-provgw-service:5001", "order": 1, "predicates": [{ "args": { "pattern": "/**" }, "name": "Path" }] }] Note: Only two URI values are supported as follows: • SLF mode: "uri": "http://provgw-provgw-service:5001" • UDR mode: "uri": "http://provgw-provgw-service:62001"	400 Bad Request: Could not Validate Json

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Table 4-1 (Cont.) Configuration APIs for Provisioning Gateway Microservices

Operation Type	Request	Response	Notes
PUT	URI: http://<host>:<port>/provgw/nf-common-component/v1/egw/congestionConfig	Result Code: 200 OK { "levels": [{ "name": "Normal", "value": 1, "resources": [{ "name": "CPU", "onset": 65, "abatement": 60 }] }, { "name": "Danger Of Congestion", "value": 2, "resources": [{ "name": "CPU", "onset": 75, "abatement": 70 }] }, { "name": "Congestion", "value": 3, "resources": [{ "name": "CPU", "onset": 85, "abatement": 80 }] }	400 Bad Request: Could not Validate Json

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Table 4-1 (Cont.) Configuration APIs for Provisioning Gateway Microservices

Operation Type	Request	Response	Notes
		], "refreshInterval": 500 }	

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Table 4-1 (Cont.) Configuration APIs for Provisioning Gateway Microservices

Operation Type	Request	Response	Notes
put	URI: http://<host>:<port>/provgw/nf-common-component/v1/egw/podProtectionByRateLimiting	Result Code: 200 OK { "routes": [{ "id": 1, "path": "/nudr-group-id-map-prov/**", "methods": ["POST", "GET", "DELETE", "PUT"], "percentage": 100 }], "enabled": true, "fillRate": 3200, "defaultPriority": 24, "errorCodeProfile": "error429", "priorityHeaderName": "3gpp-Sbi-Message-Priority", "deniedRequestActions": [{ "id": 1, "action": "CONTINUE", "congestionLevel": 0 }, { "id": 2, "action": "CONTINUE", "congestionLevel": 1 }, { "id": 3, "action":	Result Code: 200 OK

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Table 4-1 (Cont.) Configuration APIs for Provisioning Gateway Microservices

Operation Type	Request	Response	Notes
		"REJECT", "congestionLevel": 2, "errorCodeProfile": "error429" }, { "id": 4, "action": "REJECT", "congestionLevel": 3, "errorCodeProfile": "ERR_POP_503" }] }	

4.2 Configuration APIs for Log Level

This section describes the configuration APIs for log level.

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Table 4-2 Configuration APIs for Log Level

Operation Type	Request	Response	Notes
GET	URI: http://<host>:<port>/provgw-config/v1/provgw-service/logging	Result Code: 200 OK Payload { "packageLogLevel": [{ "packageName": "root", "logLevelForPackage": "WARN" }, { "packageName": "jetty", "logLevelForPackage": "WARN" }, { "packageName": "micronaut", "logLevelForPackage": "WARN" }, { "packageName": "cxf", "logLevelForPackage": "WARN" }], "appLogLevel": "WARN" }	NA

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Table 4-2 (Cont.) Configuration APIs for Log Level

Operation Type	Request	Response	Notes
-	URI: http://<host>:<port>/provgw-config/v1/auditor-service/logging	Result Code: 200 OK Payload { "packageLogLevel": [{ "packageName": "root", "logLevelForPackage": "WARN" }, { "packageName": "jetty", "logLevelForPackage": "WARN" }, { "packageName": "micronaut", "logLevelForPackage": "WARN" }, { "packageName": "cxf", "logLevelForPackage": "WARN" }], "appLogLevel": "INFO" }	NA

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Table 4-2 (Cont.) Configuration APIs for Log Level

Operation Type	Request	Response	Notes
-	URI: http://<host>:<port>/provgw/nf-common-component/v1/igw/logging	Result Code: 200 OK Payload { "appLogLevel": "WARN", "logDiscarding": { "enabled": false, "featureToThresholdMapping": [{ "feature": "RATE_LIMITING", "thresholdFactor": 100 }, { "feature": "OVERLOAD_CONTROL", "thresholdFactor": 100 }, { "feature": "ROUTE_LEVEL_RATE_LIMITING", "thresholdFactor": 100 }, { "feature": "RSS_RATE_LIMITING", "thresholdFactor": 100 }, { "feature": "EGRESS_RATE_LIMITING	NA

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Table 4-2 (Cont.) Configuration APIs for Log Level

| Operation Type | Request | Response | Notes |
|---|---|<pre>",

"thresholdFactor":
100
}
]
},

"packageLogLevel": [
{

"packageName":
"root",

"logLevelForPackage":
"WARN"
},
{

"packageName":
"oauth",

"logLevelForPackage":
"WARN"
}
],

"logSubscriberInfo":
"DISABLED",

"additionalErrorLoggi
ng": "DISABLED"
}</pre>| |

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Table 4-2 (Cont.) Configuration APIs for Log Level

Operation Type	Request	Response	Notes
-	URI: http://<host>:<port>/provgw/nf-common-component/v1/egw/logging	Result Code: 200 OK Payload { "appLogLevel": "WARN", "logDiscarding": { "enabled": false, "featureToThresholdMapping": [{ "feature": "RATE_LIMITING", "thresholdFactor": 100 }, { "feature": "NOTIFICATION_RATE_LIMITING", "thresholdFactor": 100 }] }, "packageLogLevel": [{ "packageName": "root", "logLevelForPackage": "WARN" }, { "packageName": "oauth", "logLevelForPackage": "WARN" }	NA

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Table 4-2 (Cont.) Configuration APIs for Log Level

Operation Type	Request	Response	Notes
		], "logSubscriberInfo": "DISABLED", "additionalErrorLogging": "DISABLED" }	

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Table 4-2 (Cont.) Configuration APIs for Log Level

Operation Type	Request	Response	Notes
-	URI: http://<host>:<port>/provgw-config/v1/all/logging	Result Code: 200 OK Payload [{ "auditor-service": "{\"packageLogLevel\": [{\"packageName\":\"root\",\"logLevelForPackage\":\"WARN\"}, {\"packageName\":\"jetty\",\"logLevelForPackage\":\"WARN\"}, {\"packageName\":\"micronaut\",\"logLevelForPackage\":\"WARN\"}, {\"packageName\":\"cxf\",\"logLevelForPackage\":\"WARN\"}],\"appLogLevel\":\"INFO\"}", "prov-ingressgateway": "{\"appLogLevel\":\"WARN\",\"logDiscarding\": {\"enabled\":false,\"featureToThresholdMapping\": [{\"feature\":\"RATE_LIMITING\",\"thresholdFactor\":100}, {\"feature\":\"OVERLOAD_CONTROL\",\"thresholdFactor\":100}, {\"feature\":\"ROUTE_LEVEL_RATE_LIMITING\",\"thresholdFactor\":100}, {\"feature\":\"RSS_RATE_LIMITING\",\"thresholdFactor\":100}, {\"feature\":\"EGRESS_RATE_LIMITING\",\"thresholdFactor\":100}]},\"packageLogLevel\":	NA

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Table 4-2 (Cont.) Configuration APIs for Log Level

Operation Type	Request	Response	Notes
		[{\"packageName\":\"root\",\"logLevelForPackage\":\"WARN\"},{\"packageName\":\"oauth\",\"logLevelForPackage\":\"WARN\"}],\"logSubscriberInfo\":\"DISABLED\",\"additionalErrorLogging\":\"DISABLED\"}", "provgw-service": "{\"packageLogLevel\":[{\"packageName\":\"root\",\"logLevelForPackage\":\"WARN\"},{\"packageName\":\"jetty\",\"logLevelForPackage\":\"WARN\"},{\"packageName\":\"micronaut\",\"logLevelForPackage\":\"WARN\"},{\"packageName\":\"cxf\",\"logLevelForPackage\":\"WARN\"}],\"appLogLevel\":\"WARN\"}", "provgw-config": "{\"packageLogLevel\":[{\"packageName\":\"root\",\"logLevelForPackage\":\"WARN\"},{\"packageName\":\"jetty\",\"logLevelForPackage\":\"WARN\"},{\"packageName\":\"micronaut\",\"logLevelForPackage\":\"WARN\"},{\"packageName\":\"cxf\",\"logLevelForPackage\":\"WARN\"}],\"appLogLevel\":\"WARN\"}", "prov-	

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Table 4-2 (Cont.) Configuration APIs for Log Level

Operation Type	Request	Response	Notes
		egressgateway": "{\"appLogLevel\":\"WARN\",\"logDiscarding\": {\"enabled\":false,\"featureToThresholdMapping\": [{\"feature\":\"RATE_LIMITING\",\"thresholdFactor\":100}, {\"feature\":\"NOTIFICATION_RATE_LIMITING\",\"thresholdFactor\":100}]},\"packageLogLevel\": [{\"packageName\":\"root\",\"logLevelForPackage\":\"WARN\"}, {\"packageName\":\"oauth\",\"logLevelForPackage\":\"WARN\"}],\"logSubscriberInfo\":\"DISABLED\",\"additionalErrorLogging\":\"DISABLED\"} }]	

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Table 4-2 (Cont.) Configuration APIs for Log Level

Operation Type	Request	Response	Notes
-	URI : http://<host>:<port>/provgw-config/v1/provgw-config/logging	Result Code: 200 OK Payload { "packageLogLevel": [{ "packageName": "root", "logLevelForPackage": "WARN" }, { "packageName": "jetty", "logLevelForPackage": "WARN" }, { "packageName": "micronaut", "logLevelForPackage": "WARN" }, { "packageName": "cxf", "logLevelForPackage": "WARN" }], "appLogLevel": "WARN" }	NA

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Table 4-2 (Cont.) Configuration APIs for Log Level

Operation Type	Request	Response	Notes
PUT	URI: http://<host>:<port>/provgw-config/v1/provgw-service/logging	Result Code: 200 OK Payload { "packageLogLevel": [{ "packageName": "root", "logLevelForPackage": "WARN" }, { "packageName": "jetty", "logLevelForPackage": "WARN" }, { "packageName": "micronaut", "logLevelForPackage": "WARN" }, { "packageName": "cxf", "logLevelForPackage": "WARN" }], "appLogLevel": "WARN" }	400 Bad Request: Schema validation failed

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Table 4-2 (Cont.) Configuration APIs for Log Level

Operation Type	Request	Response	Notes
-	URI: http://<host>:<port>/provgw-config/v1/auditor-service/logging	Result Code: 200 OK Payload { "packageLogLevel": [{ "packageName": "root", "logLevelForPackage": "WARN" }, { "packageName": "jetty", "logLevelForPackage": "WARN" }, { "packageName": "micronaut", "logLevelForPackage": "WARN" }, { "packageName": "cxf", "logLevelForPackage": "WARN" }], "appLogLevel": "WARN" }	400 Bad Request: Schema validation failed

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Table 4-2 (Cont.) Configuration APIs for Log Level

Operation Type	Request	Response	Notes
-	URI: http://<host>:<port>/provgw/nf-common-component/v1/igw/logging	Result Code: 200 OK Payload { "appLogLevel": "WARN", "logDiscarding": { "enabled": false, "featureToThresholdMapping": [{ "feature": "RATE_LIMITING", "thresholdFactor": 100 }, { "feature": "NOTIFICATION_RATE_LIMITING", "thresholdFactor": 100 }] }, "packageLogLevel": [{ "packageName": "root", "logLevelForPackage": "WARN" }, { "packageName": "oauth", "logLevelForPackage": "WARN" }	400 Bad Request: Could not Validate Json

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Table 4-2 (Cont.) Configuration APIs for Log Level

Operation Type	Request	Response	Notes
		], "logSubscriberInfo": "DISABLED", "additionalErrorLogging": "DISABLED" }	

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Table 4-2 (Cont.) Configuration APIs for Log Level

Operation Type	Request	Response	Notes
-	URI: http://<host>:<port>/provgw/nf-common-component/v1/egw/logging	Result Code: 200 OK Payload { "appLogLevel": "WARN", "logDiscarding": { "enabled": false, "featureToThresholdMapping": [{ "feature": "RATE_LIMITING", "thresholdFactor": 100 }, { "feature": "NOTIFICATION_RATE_LIMITING", "thresholdFactor": 100 }] }, "packageLogLevel": [{ "packageName": "root", "logLevelForPackage": "WARN" }, { "packageName": "oauth", "logLevelForPackage": "WARN" }	400 Bad Request: Could not Validate Json

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Table 4-2 (Cont.) Configuration APIs for Log Level

Operation Type	Request	Response	Notes
		], "logSubscriberInfo": "DISABLED", "additionalErrorLogging": "DISABLED" }	
-	URI : http://<host>:<port>/provgw-config/v1/provgw-config/logging	Result Code: 200 OK Payload { "appLogLevel": "WARN", "packageLogLevel": [{ "packageName": "root", "logLevelForPackage": "WARN" }, { "packageName": "jetty", "logLevelForPackage": "WARN" }, { "packageName": "micronaut", "logLevelForPackage": "WARN" }, { "packageName": "cxf", "logLevelForPackage": "WARN" }] }	400 Bad Request: Schema validation failed

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4.3 Configuration APIs for Export and Import

This section describes the configuration APIs for export and import.

Table 4-3 Configuration APIs for Export and Import

Operation Type	Request	Response	Notes
POST	URI to export all services: http://<host>:<port>/provgw-config/v1/export	Result Code: 201 Created **Payload** `Export resource id: 140574ec-c2cf-40c5-8436-5320efc15399`	This is the first step to initiate export.
GET	URI: http://<host>:<port>/provgw-config/v1/export/140574ec-c2cf-40c5-8436-5320efc15399/status Export resource id: 140574ec-c2cf-40c5-8436-5320efc15399	**Payload** `{ "status": "DONE", "exportResourceId": "140574ec-c2cf-40c5-8436-5320efc15399", "createTimeStamp": "2021-10-06T11:00:35Z", "percentage": "100", "result": "PARTIAL_SUCCESS" }`	This is the second step. Keep calling this API until "percentage": "100".
GET	URI: http://<host>:<port>/provgw-config/v1/export/140574ec-c2cf-40c5-8436-5320efc15399/report Export resource id: 140574ec-c2cf-40c5-8436-5320efc15399	-	This is the third step. This API gives complete export report.

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Table 4-3 (Cont.) Configuration APIs for Export and Import

Operation Type	Request	Response	Notes
GET	URI: http://<host>:<port>/provgw-config/v1/export/140574ec-c2cf-40c5-8436-5320efc15399/download Export resource id: 140574ec-c2cf-40c5-8436-5320efc15399	Result Code: 200 OK exportedFiles_1.12.0_20210706080247.zip	This is the fourth step. Use this API to download the exported zip file.
POST	URL: http://<host>:<port>/provgw-config/v1/import Payload: Send the file as multipart/form-data: • Field: importFile • Type: File • Value: exportedFiles_1.12.0_20210706080247.zip	Result Code: 201 Created **Payload** `Import resource id: e23e70cf-440b-4b4b-bba4-58f0a45c06ae`	This is the first step to initiate import.
GET	URL: http://<host>:<port>/provgw-config/v1/import/e23e70cf-440b-4b4b-bba4-58f0a45c06ae/status Import resource id: e23e70cf-440b-4b4b-bba4-58f0a45c06ae	Result Code: 200 OK **Payload** `{ "status": "DONE", "importResourceId": "e23e70cf-440b-4b4b-bba4-58f0a45c06ae", "createTimeStamp": "2026-08-17T14:32:08Z", "percentage": "100", "progress": "9 / 9 MO(s) completed", "result": "SUCCESS" }`	This is the second step. Keep calling this API until "percentage": "100".

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Table 4-3 (Cont.) Configuration APIs for Export and Import

Operation Type	Request	Response	Notes
GET	URL: http://<host>:<port>/provgw-config/v1/import/e23e70cf-440b-4b4b-bba4-58f0a45c06ae/report Import resource id: e23e70cf-440b-4b4b-bba4-58f0a45c06ae	Result Code: 200 OK **Payload** { "report": [{ "name": "Auditor Service", "status": "1 / 1 records imported successfully." }, { "name": "ProvGateway Service", "status": "1 / 1 records imported successfully." }, { "name": "Egressgateway Logging", "status": "1 / 1 records imported successfully." }, { "name": "Ingressgateway Logging", "status": "1 / 1 records imported successfully." }, { "name": "ProvGateway Service Logging",	This is the third step. This API gives complete import report. **Note**: The global configuration import status shows 400 because Segment details and Set changes were modified in the 26.1.201 release. If exported in 25.2.1xx or before, the exported zip file uses the previous format for Segment details. In this case, a "400 schema validation failure" occurs internally in the 26.1.201 release. As a result, the global configuration import status returns 400, which is the expected behavior.

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Table 4-3 (Cont.) Configuration APIs for Export and Import

| Operation Type | Request | Response | Notes |
|---|---|<pre>"status": "1 / 1 records imported successfully."
},
{

"name": "Auditor Service Logging",

"status": "1 / 1 records imported successfully."
},
{

"name": "SEC Configuration",

"status": "1 / 1 records imported successfully."
},
{

"name": "ProvGateway Config Logging",

"status": "1 / 1 records imported successfully."
},
{

"name": "Global Configurations",

"status": "1 / 1 records imported successfully."
}
]
}</pre>| |

4.4 List of Errors and its Details

The list of errors and its details are as follows:

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Table 4-4 Error Details

Error Detail	Error Cause	Error Message
HTTP Response Code: 400 **Error Code:** E555 **Error Title:** Bad Request	UNSPECIFIED_NF_FAILURE	• Another import or export operation request is already in progress.
HTTP Response Code: 400 **Error Code:** E554 **Error Title:** Bad Request	UNSPECIFIED_NF_FAILURE	• Provided file for import has unsupported file format or file content. • Error reading zip stream.
HTTP Response Code: 400 **Error Code:** E553 **Error Title:** Bad Request	OPTIONAL_QUERY_PARAM_INCORRECT	• Empty or incorrect MO passed. • MO name is not passed or the passed MO name is incorrect.
HTTP Response Code: 400 **Error Code:** E578 **Error Title:** Bad Request	MANDATORY_IE_INCORRECT /OPTIONAL_IE_INCORRECT OPTIONAL_IE_INCORRECT MANDATORY_QUERY_PARAM_INCORRECT	• Invalid payload • Invalid payload, empty payload, payload must not be empty. • Invalid payload, invalid payload, payload must have at least one valid parameter.
HTTP Response Code: 400 **Error Code:** E579 **Error Title:** Bad Request	INVALID_MSG_FORMAT	• Invalid data format
HTTP Response Code: 400 **Error Code:** E564 **Error Title:** Bad Request	OPTIONAL_IE_INCORRECT	• Invalid schema content supplied.
HTTP Response Code: 400 **Error Code:** E560 **Error Title:** Bad Request	MANDATORY_IE_INCORRECT	• Invalid URI sent from client
HTTP Response Code: 400 **Error Code:** E576 **Error Title:** Bad Request	OPTIONAL_IE_INCORRECT	• Insertion or update of invalid records to the database.
HTTP Response Code: 403 **Error Code:** E559 **Error Title:** Forbidden	MODIFICATION_NOT_ALLOWED	• Read only field can not be modified.

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Table 4-4 (Cont.) Error Details

Error Detail	Error Cause	Error Message
HTTP Response Code: 404 **Error Code:** E550 **Error Title:** Not Found	DATA_NOT_FOUND	• Import or export ResourceId or report not found. Import request id <importResourceId> not found. • Import or export ResourceId or report not found. Import report with <importResourceId> does not exists. • Import or export ResourceId or report not found. Import report with <importResourceId> not found. • Import or export ResourceId or report not found. Exported files with id <exportResourceId> does not exist. • Import or export ResourceId or report not found. Export request id <exportResourceId> not found • Import or export ResourceId or report not found. Export report with <exportResourceId> does not exist. • Import or export ResourceId or report not found. Export report with <exportResourceId> not found.
HTTP Response Code: 404 **Error Code:** E565 **Error Title:** Bad Request	DATA_NOT_FOUND	• Data field does not exist.
HTTP Response Code: 404 **Error Code:** E577 **Error Title:** Not Found	DATA_NOT_FOUND	• Resource fetched from database failed or subscriber does not exist.
HTTP Response Code: 405 **Error Code:** E580 **Error Title:** Method Not Allowed Error	OPERATION_NOT_ALLOWED	• Operation not allowed.
HTTP Response Code: 415 **Error Code:** E561 **Error Title:** Unsupported Media Type	INVALID_MSG_FORMAT	• Unsupported Media Type header.
HTTP Response Code: 500 **Error Code:** E551 **Error Title:** Internal Server Error	UNSPECIFIED_NF_FAILURE	• Retrieving the report or status of import or export when operation is in progress. Import or export is in progress with <completionPercent>% complete. Please try after some time.

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Table 4-4 (Cont.) Error Details

Error Detail	Error Cause	Error Message
HTTP Response Code: 500 **Error Code:** E552 **Error Title:** Internal Server Error	UNSPECIFIED_NF_FAILURE	• Import or export report could not be generated.
HTTP Response Code: 500 **Error Code:** E556 **Error Title:** Internal Server Error	UNSPECIFIED_NF_FAILURE	• Unable to download the exported data.
HTTP Response Code: 500 **Error Code:** E581 **Error Title:** Internal Server Error	UNSPECIFIED_NF_FAILURE	• Internal server error.
HTTP Response Code: 500 **Error Code:** E570 **Error Title:** Internal Server Error	UNSPECIFIED_NF_FAILURE	• SQL command grammar error.
HTTP Response Code: 500 **Error Code:** E571 **Error Title:** Internal Server Error	UNSPECIFIED_NF_FAILURE	• Resource accessed in an incorrect process.
HTTP Response Code: 500 **Error Code:** E572 **Error Title:** Internal Server Error	UNSPECIFIED_NF_FAILURE	• Permission denied to requested resource on the database.
HTTP Response Code: 500 **Error Code:** E573 **Error Title:** Internal Server Error	UNSPECIFIED_NF_FAILURE	• Database table or resource not accessible.
HTTP Response Code: 500 **Error Code:** E574 **Error Title:** Internal Server Error	UNSPECIFIED_NF_FAILURE	• Transient database access issue.
HTTP Response Code: 500 **Error Code:** E575 **Error Title:** Internal Server Error	UNSPECIFIED_NF_FAILURE	• Cannot acquire lock on database resource.

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