

# Oracle® Communications Convergent Charging Controller Web Services Description Language Reference Guide



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The Oracle logo, consisting of the word "ORACLE" in white, uppercase, sans-serif font, positioned on a solid red rectangular background.

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# About This Document

## Scope

The scope of this document includes all the information required to configure WSDL parameters for different Convergent Charging Controller products.

## Audience

The audience for this document includes system administrators responsible for the monitoring, maintenance, and configuration of the Oracle Convergent Charging Controller IN applications.

## Prerequisites

A solid understanding of UNIX and a familiarity with IN concepts are an essential prerequisite for safely using the information contained in this technical guide.

Although it is not a prerequisite to using this guide, familiarity with the target platform would be an advantage.

This manual describes system tasks that should only be carried out by suitably trained operators.

## Related Documents

The following documents are related to this document:

- *Open Services Development User's and Technical Guide*
- *Charging Control Services Technical Guide*

# Document Conventions

## Typographical Conventions

The following terms and typographical conventions are used in the Oracle Communications Convergent Charging Controller documentation.

| Formatting Convention                    | Type of Information                                                                                                                        |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Special Bold</b>                      | Items you must select, such as names of tabs.<br>Names of database tables and fields.                                                      |
| <i>Italics</i>                           | Name of a document, chapter, topic or other publication.<br>Emphasis within text.                                                          |
| <b>Button</b>                            | The name of a button to click or a key to press.<br><b>Example:</b> To close the window, either click <b>Close</b> , or press <b>Esc</b> . |
| <b>Key+Key</b>                           | Key combinations for which the user must press and hold down one key and then press another.<br>Example: <b>Ctrl+P</b> or <b>Alt+F4</b> .  |
| Monospace                                | Examples of code or standard output.                                                                                                       |
| <b>Monospace Bold</b>                    | Text that you must enter.                                                                                                                  |
| <i>variable</i>                          | Used to indicate variables or text that should be replaced with an actual value.                                                           |
| <b>menu option &gt; menu option &gt;</b> | Used to indicate the cascading menu option to be selected.<br>Example: <b>Operator Functions &gt; Report Functions</b>                     |
| <a href="#">hypertext link</a>           | Used to indicate a hypertext link.                                                                                                         |

Specialized terms and acronyms are defined in the glossary at the end of this guide.

# CCS WSDL Operations

## Overview

### Introduction

This chapter explains the WSDL parameters used for implementing Recharge Web Services in Charging Control Services.

### In this chapter

---

This chapter contains the following topics.

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## WSDL Operations

### Introduction

WSDL is an XML based language that provides a model for describing web services. Open Services Development (OSD) provides a mechanism to dynamically bind incoming/ outgoing XML (via the OSD interface) to/ from profile fields in a running control plan.

In addition, it can generate a WSDL file automatically from a combination of Control Plans and OSD configuration. When the control plan is compiled, it may be linked to an operation name. This results in a WSDL operation (for example: request, response and fault XML messages). WSDL operations are based on using profile fields from inbound and outbound extensions profile blocks.

### Operations list for CCS

The following table lists WSDL operations developed for CCS and their corresponding functions.

| Operation                   | Function                                                                                                            |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------|
| RechargeRequest             | Initiates recharge operation based on the profile field values obtained from the inbound extensions profile blocks. |
| RechargeResult              | Returns a connect message to the OSD interface including the outgoing extensions containing the profile fields.     |
| RechargeFault               | Defines exception handling scenarios.                                                                               |
| ServiceProviderQueryRequest | Sends a message requesting the ID of the service provider linked to the specified calling party.                    |
| ServiceProviderQueryResult. | Returns the ID of the service provider to whom the calling party ID belongs.                                        |

|                           |                                                                                                    |
|---------------------------|----------------------------------------------------------------------------------------------------|
| ServiceProviderQueryFault | Refer to standard OSD error codes in <i>Open Services Development User's and Technical Guide</i> . |
|---------------------------|----------------------------------------------------------------------------------------------------|

## Sample WSDL operation

Here is a Recharge Request and Response operation generated by WSDL during control plan compilation.

```
<?xml version="1.0" encoding="UTF-8" ?>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ccs="http://eng-host06-z12/wsdl/s/RWS/CCS_WebServices.wsdl">
  <soapenv:Header/>
  <soapenv:Body>
    <ccs:RechargeRequest xmlns="http://eng-host06-
z12/wsdl/s/RWS/CCS_WebServices.wsdl">
      <Wallet_Type_Name>Primary</Wallet_Type_Name>
      <CC_Calling_Party_Id>642225555</CC_Calling_Party_Id>
      <Transaction_ID>66666</Transaction_ID>
      <Dealer_Name>RAJ</Dealer_Name>
      <Reference>Hello</Reference>
      <Channel>Voucher</Channel>
      <Bearer>Voice</Bearer>
      <Recharge_List_List>
        <Recharge_List>
          <Balance_Type_Name>General Cash</Balance_Type_Name>
          <Recharge_Amount>2000</Recharge_Amount>

          <Balance_Expiry_Extension_Period>31</Balance_Expiry_Extension_Period>

          <Balance_Expiry_Extension_Policy>1</Balance_Expiry_Extension_Policy>
          <Bucket_Creation_Policy>0</Bucket_Creation_Policy>
        </Recharge_List>
        <Recharge_List>
          <Balance_Type_Name>Free SMS</Balance_Type_Name>
          <Recharge_Amount>20</Recharge_Amount>

          <Balance_Expiry_Extension_Period>31</Balance_Expiry_Extension_Period>

          <Balance_Expiry_Extension_Policy>1</Balance_Expiry_Extension_Policy>
          <Bucket_Creation_Policy>0</Bucket_Creation_Policy>
        </Recharge_List>
        <Recharge_List>
          <Balance_Type_Name>Time Bal</Balance_Type_Name>
          <Recharge_Amount>2000</Recharge_Amount>

          <Balance_Expiry_Extension_Period>31</Balance_Expiry_Extension_Period>

          <Balance_Expiry_Extension_Policy>1</Balance_Expiry_Extension_Policy>
          <Bucket_Creation_Policy>0</Bucket_Creation_Policy>
        </Recharge_List>
      </Recharge_List_List>
      <Wallet_Expiry_Extension_Period>0</Wallet_Expiry_Extension_Period>
      <Wallet_Expiry_Extension_Policy>0</Wallet_Expiry_Extension_Policy>
    </ccs:RechargeRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

```
Connection to eng-host06-z11 closed by foreign host.
HTTP/1.1 200 OK
Date: Mon, 26 Oct 2009 22:09:49 GMT
Server: eServGlobal OSD Interface
Content-Length: 446
Content-Type: text/xml
```



Connection: close

```
<?xml version="1.0"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  SOAP-ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding">
  <SOAP-ENV:Body>
    <m:RechargeResult xmlns:m="http://eng-host06-
z12/wsdl/RWS/CCS_WebServices.wsdl">
      <Service_Provider>11</Service_Provider>
    </m:RechargeResult>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

## Example WSDL

Here is an example of the full WSDL code generated for Recharge Web Services.

```
<?xml version="1.0"?>
<definitions name="CCS_ServiceProvider"
  targetNamespace="http://eng-host06-z12/wsdl/RWS/CCS_ServiceProvider.wsdl"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
  xmlns:tns="http://eng-host06-z12/wsdl/RWS/CCS_ServiceProvider.wsdl"
  xmlns="http://schemas.xmlsoap.org/wsdl/">
  <types>
    <xs:schema
      targetNamespace="http://eng-host06-
z12/wsdl/RWS/CCS_ServiceProvider.wsdl"
      xmlns:eSrvGlobal="http://eng-host06-z12/wsdl/eSrvGlobal"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"
      xmlns="http://eng-host06-
z12/wsdl/RWS/CCS_ServiceProvider.wsdl">

      <xs:import namespace="http://eng-host06-z12/wsdl/eSrvGlobal"
        schemaLocation="http://eng-host06-z12/wsdl/eSrvGlobal.xsd"/>
      <xs:element name="ServiceProviderQueryRequest"
        type="ServiceProviderQueryRequestType"/>
      <xs:element name="ServiceProviderQueryResult"
        type="ServiceProviderQueryResultType"/>
      <xs:element name="ServiceProviderQueryFault"
        type="ServiceProviderQueryFaultType"/>
      <xs:complexType name="ServiceProviderQueryRequestType">
        <xs:sequence>
          <xs:element name="CC_Calling_Party_Id"
            type="eSrvGlobal:NumericString" minOccurs="1"/>
        </xs:sequence>
      </xs:complexType>
      <xs:complexType name="ServiceProviderQueryResultType">
        <xs:sequence>
          <xs:element name="Service_Provider" type="xs:int"
            minOccurs="0"/>
        </xs:sequence>
      </xs:complexType>
      <xs:complexType name="ServiceProviderQueryFaultType">
        <xs:sequence>
          <xs:element name="errorCode" type="xs:int"/>
        </xs:sequence>
      </xs:complexType>
    </xs:schema>
  </types>
  <message name="ServiceProviderQueryInput">
    <part name="body" element="tns:ServiceProviderQueryRequest"/>
  </message>
</definitions>
```

```

</message>
<message name="ServiceProviderQueryOutput">
  <part name="body" element="tns:ServiceProviderQueryResult"/>
</message>
<message name="ServiceProviderQueryFaultOutput">
  <part name="body" element="tns:ServiceProviderQueryFault"/>
</message>

<portType name="ServiceProviderQueryPortType">
  <operation name="ServiceProviderQueryOperation">
    <input message="tns:ServiceProviderQueryInput"/>
    <output message="tns:ServiceProviderQueryOutput"/>
    <fault message="tns:ServiceProviderQueryFaultOutput"/>
  </operation>
</portType>

<binding name="ServiceProviderQueryBinding"
type="tns:ServiceProviderQueryPortType">
  <soap:binding style="document"
transport="http://schemas.xmlsoap.org/soap/http"/>
  <operation name="ServiceProviderQueryOperation">
    <soap:operation soapAction="http://eng-host06-
z12/wsdls/RWS/CCS_ServiceProvider/ServiceProviderQuery"/>
    <input>
      <soap:body use="literal"/>
    </input>
    <output>
      <soap:body use="literal"/>
    </output>
    <fault>
      <soap:body use="literal"/>
    </fault>
  </operation>
</binding>
<service name="ServiceProviderQuery">
  <port name="ServiceProviderQueryPort1"
binding="tns:ServiceProviderQueryBinding">
    <soap:address location="http://eng-host06-z11:4270"/>
  </port>
</service>
</definitions>

```

## RechargeRequest

### Description

The RechargeRequest message is responsible for triggering the recharge operation. It combines calling party, recharge and wallet information obtained from the inbound extensions profile blocks.

This message, when received on a control plan bound to CCS\_WebServices, will generate a 'Recharge' operation.

### Parameters

The following parameters are available for RechargeRequest message.

Wallet\_Type\_Name

|                     |                                                               |
|---------------------|---------------------------------------------------------------|
| <b>Syntax:</b>      | <Wallet_Type_Name>str</Wallet_Type_Name>                      |
| <b>Description:</b> | Specifies the name of the wallet type that will be recharged. |
| <b>Type:</b>        | String                                                        |

**Optionality:** Optional  
**Allowed:**

- Primary
- Secondary

**Default:** Primary  
**Notes:**  
**Example:** <Wallet\_Type\_Name>Primary</Wallet\_Type\_Name>

#### CC\_Calling\_Party\_Id

**Syntax:** <CC\_Calling\_Party\_Id>int</CC\_Calling\_Party\_Id>  
**Description:** This is the subscriber ID of the account to recharge.  
**Type:** Integer  
**Optionality:** Mandatory  
**Allowed:**  
**Default:**  
**Notes:**  
**Example:** <CC\_Calling\_Party\_Id>6422255555</CC\_Calling\_Party\_Id>

#### Transaction\_ID

**Syntax:** <Transaction\_ID>int</Transaction\_ID>  
**Description:** Indicates the transaction ID as provided by third-party systems.  
**Type:** Integer  
**Optionality:** Optional  
**Allowed:**  
**Default:**  
**Notes:** This is tracked for auditing purposes only and is placed in the EDR produced by the billing engine.  
**Example:** <Transaction\_ID>66666</Transaction\_ID>

#### Dealer\_Name

**Syntax:** <Dealer\_Name>str</Dealer\_Name>  
**Description:** Indicates the dealer name as provided by third-party systems.  
**Type:** String  
**Optionality:** Optional  
**Allowed:**  
**Default:**  
**Notes:** This is tracked for auditing purposes only and is placed in the EDR produced by the billing engine.  
**Example:** <Dealer\_Name>ABC</Dealer\_Name>

#### Reference

**Syntax:** <Reference>str</Reference>  
**Description:** A free-form reference that may be provided by the caller of the web service.  
**Type:** String  
**Optionality:** Optional  
**Allowed:**

**Default:**

**Notes:** If a tracker plan has the `Reference` field configured , the value must be a prefix of the `Reference` value provided in the recharge request so that the tracker plan can apply. See *Charging Control Services User's Guide* for more detail.

**Example:** `<Reference>GENERAL CASH</Reference>`

### Channel

**Syntax:** `<Channel>str</Channel>`

**Description:** The channel by which the recharge is performed.

**Type:** String

**Optionality:** Optional

**Allowed:**

**Default:**

**Notes:** If a tracker plan has the `Channel` field configured, the value must match the `Channel` value provided in the recharge request so that the tracker plan can apply. See *Charging Control Services User's Guide* for more detail.

**Example:** `<Channel>Voucher</Channel>`

### Bearer

**Syntax:** `<Bearer>str</Bearer>`

**Description:** The bearer by which the recharge was performed.

**Type:** String

**Optionality:** Optional

**Allowed:**

**Default:**

**Notes:** If a tracker plan has the `Bearer` field configured, the value must match the `Bearer` value provided in the recharge request so that the tracker plan can apply. See *Charging Control Services User's Guide* for more detail.

**Example:** `<Bearer>Voice</Bearer>`

### Recharge\_List\_List

**Syntax:** `<Recharge_List_List>  
array  
</Recharge_List_List>`

**Description:** This list contains details for individual balance amounts by which the wallet balances are recharged.

**Type:** Array

**Optionality:** Optional

**Allowed:**

**Default:**

**Notes:** The list can be left empty; in which case, a voucher type must be specified in the control plan specifying its own balance type values for a recharge to apply. No list is equivalent to an empty list.

**Example:** `<Recharge_List_List>  
 <Recharge_List>  
 <Balance_Type_Name>GeneralCash</Balance_Type_Name>  
 <Recharge_Amount>2000</Recharge_Amount>  
 <Balance_Expiry_Extension_Period>31</Balance_Expiry_Extension_Period>  
 </Recharge_List>  
</Recharge_List_List>`

```

        <Balance_Expiry_Extension_Policy>1</Balance_Expiry_Extensi
        on_Policy>
        <Bucket_Creation_Policy>0</Bucket_Creation_Policy>
    </Recharge_List>
</Recharge_List_List>

```

### Recharge\_List

**Syntax:**

```
<Recharge_List>
    array
</Recharge_List>
```

**Description:** Start of a recharge list entry.

**Type:** Array

**Optionality:** Optional

**Allowed:**

**Default:**

**Notes:** All fields contained in the list are optional.

**Example:**

```
<Recharge_List>
    <Balance_Type_Name>GeneralCash</Balance_Type_Name>
    <Recharge_Amount>2000</Recharge_Amount>
    <Balance_Expiry_Extension_Period>31</Balance_Expiry_Extens
    ion_Period>
    <Balance_Expiry_Extension_Policy>1</Balance_Expiry_Extensi
    on_Policy>
    <Bucket_Creation_Policy>0</Bucket_Creation_Policy>
</Recharge_List>
```

### Balance\_Type\_Name

**Syntax:**

```
<Balance_Type_Name>General_str</Balance_Type_Name>
```

**Description:** The name of the balance type on the CCS system to recharge.

**Type:** String

**Optionality:** Optional

**Allowed:**

**Default:**

**Notes:**

**Example:**

```
<Balance_Type_Name>General Cash</Balance_Type_Name>
```

### Recharge\_Amount

**Syntax:**

```
<Recharge_Amount>int</Recharge_Amount>
```

**Description:** The amount by which the balance type will be recharged.

**Type:** Integer

**Optionality:** Optional

**Allowed:**

**Default:**

**Notes:**

**Example:**

```
<Recharge_Amount>2000</Recharge_Amount>
```

**Balance\_Expiry\_Extension\_Period**

|                     |                                                                                                 |
|---------------------|-------------------------------------------------------------------------------------------------|
| <b>Syntax:</b>      | <code>&lt;Balance_Expiry_Extension_Period&gt;int&lt;/Balance_Expiry_Extension_Period&gt;</code> |
| <b>Description:</b> | The number of months by which the expiry period of the balance type will be extended.           |
| <b>Type:</b>        | Integer                                                                                         |
| <b>Optionality:</b> | Optional                                                                                        |
| <b>Allowed:</b>     |                                                                                                 |
| <b>Default:</b>     |                                                                                                 |
| <b>Notes:</b>       |                                                                                                 |
| <b>Example:</b>     | <code>&lt;Balance_Expiry_Extension_Period&gt;12&lt;/Balance_Expiry_Extension_Period&gt;</code>  |

**Balance\_Expiry\_Extension\_Policy**

|                     |                                                                                                 |
|---------------------|-------------------------------------------------------------------------------------------------|
| <b>Syntax:</b>      | <code>&lt;Balance_Expiry_Extension_Policy&gt;int&lt;/Balance_Expiry_Extension_Policy&gt;</code> |
| <b>Description:</b> | Specifies how to apply the balance expiry extension amount.                                     |
| <b>Type:</b>        | Integer                                                                                         |
| <b>Optionality:</b> | Optional                                                                                        |
| <b>Allowed:</b>     | This is an enumeration supporting the following values:                                         |

| Value | Name            | Action                                                                                                                                                                                                                    |
|-------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0     | best            | The best expiry date for the subscriber is chosen from: <ul style="list-style-type: none"> <li>current expiry date</li> <li>the current expiry + the product type</li> <li>current expiry + provided extension</li> </ul> |
| 1     | extend          | Extend the current expiry date by the provided extension.                                                                                                                                                                 |
| 2     | extendFromToday | Set the expiry date to the request timestamp + the provided extension.                                                                                                                                                    |
| 3     | override        | Do not use. This is only applicable where an explicit expiry date can be provided. Currently, this option is not available.                                                                                               |
| 4     | dontChange      | No expiry date change will be applied.                                                                                                                                                                                    |

|                 |                                                                                               |
|-----------------|-----------------------------------------------------------------------------------------------|
| <b>Default:</b> |                                                                                               |
| <b>Notes:</b>   |                                                                                               |
| <b>Example:</b> | <code>&lt;Balance_Expiry_Extension_Policy&gt;1&lt;/Balance_Expiry_Extension_Policy&gt;</code> |

**Bucket\_Creation\_Policy**

|                     |                                                                               |
|---------------------|-------------------------------------------------------------------------------|
| <b>Syntax:</b>      | <code>&lt;Bucket_Creation_Policy&gt;int&lt;/Bucket_Creation_Policy&gt;</code> |
| <b>Description:</b> | Defines the bucket creation policy for wallets.                               |
| <b>Type:</b>        | Integer                                                                       |
| <b>Optionality:</b> | Optional                                                                      |
| <b>Allowed:</b>     | <ul style="list-style-type: none"> <li>0 – Extend current bucket</li> </ul>   |

- > 0 – Add a new bucket with the recharge amount

**Default:** 0

**Notes:**

**Example:** <Bucket\_Creation\_Policy>0</Bucket\_Creation\_Policy>

#### Wallet\_Expiry\_Extension\_Period

**Syntax:** <Wallet\_Expiry\_Extension\_Period>int</Wallet\_Expiry\_Extension\_Period>

**Description:** The number of months by which to extend the expiry of the wallet.

**Type:** Integer

**Optionality:** Optional

**Allowed:**

**Default:**

**Notes:**

**Example:** <Wallet\_Expiry\_Extension\_Period>0</Wallet\_Expiry\_Extension\_Period>

#### Wallet\_Expiry\_Extension\_Policy

**Syntax:** <Wallet\_Expiry\_Extension\_Policy>int</Wallet\_Expiry\_Extension\_Policy>

**Description:** Specifies how to apply the wallet expiry extension amount.

**Type:** Integer

**Optionality:** Optional

**Allowed:** This is an enumeration supporting the following values:

| Value | Name            | Action                                                                                                                                                                                                                          |
|-------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0     | best            | The best expiry date for the subscriber is chosen from: <ul style="list-style-type: none"> <li>• current expiry date</li> <li>• the current expiry + the product type</li> <li>• current expiry + provided extension</li> </ul> |
| 1     | extend          | Extend the current expiry date by the provided extension.                                                                                                                                                                       |
| 2     | extendFromToday | Set the expiry date to the request timestamp + the provided extension.                                                                                                                                                          |
| 3     | override        | Do not use. This is only applicable where an explicit expiry date can be provided. Currently, this option is not available.                                                                                                     |
| 4     | dontChange      | No expiry date change will be applied.                                                                                                                                                                                          |

**Default:**

**Notes:**

**Example:**           <Wallet\_Expiry\_Extension\_Policy>0</Wallet\_Expiry\_Extension\_Policy>

## RechargeResult

### Description

The RechargeResult message returns in a connect message to the OSD interface including the outgoing extensions which contains the profile fields required to send to OSD, prior to the completion of the control plan.

### Parameters

The following parameter is available for RechargeResult.

Service\_Provider

**Syntax:**           <Service\_Provider>int</Service\_Provider>  
**Description:**       The ID of the service provider to whom the recharging subscriber account belongs.  
**Type:**             Integer  
**Optionality:**       Optional  
**Allowed:**  
**Default:**  
**Notes:**  
**Example:**           <Service\_Provider>11</Service\_Provider>

## RechargeFault

### Description

These are extensions to the standard SOAP release causes for OSD. They are used in the errorCode parameter of SOAP faults sent to ASPs when failures occur.

See *Open Services Development User's and Technical Guide* for further information.

### Release cause list

The following error codes apply.

| Code | Cause                   | OSD Meaning                                                                            |
|------|-------------------------|----------------------------------------------------------------------------------------|
| 15   | No Balances             | No recharge list was provided and a voucher type was not applied.                      |
| 16   | Invalid Wallet Type     | The specified wallet type is not supported (that is, not one of Primary or Secondary). |
| 17   | Wallet Not Found        | The wallet does not exist on the billing engine.                                       |
| 18   | Wallet Not Rechargeable | The state of the wallet does not allow recharge (Frozen, Suspended or Terminated).     |
| 19   | Invalid Recharge Value  | A provided recharge value was not valid (for example: missing balance type name).      |



| Code | Cause               | OSD Meaning                                                                                                 |
|------|---------------------|-------------------------------------------------------------------------------------------------------------|
| 20   | Communication Error | Unable to communicate with the billing engine to perform the recharge.                                      |
| 5    | System Error        | This is a standard OSD error code. All other errors in the web service control plan will produce this code. |

## ServiceProviderQueryRequest

### Description

The ServiceProviderQueryRequest sends a message requesting the ID of the service provider linked to the specified calling party.

### Parameters

The following parameter is available for ServiceProviderQueryRequest.

CC\_Calling\_Party\_Id

|                     |                                                                                           |
|---------------------|-------------------------------------------------------------------------------------------|
| <b>Syntax:</b>      | <code>&lt;CC_Calling_Party_Id&gt;int&lt;/CC_Calling_Party_Id&gt;</code>                   |
| <b>Description:</b> | This is the subscriber ID of the account for which the service provider is to be queried. |
| <b>Type:</b>        | Integer                                                                                   |
| <b>Optionality:</b> | Mandatory                                                                                 |
| <b>Allowed:</b>     |                                                                                           |
| <b>Default:</b>     |                                                                                           |
| <b>Notes:</b>       |                                                                                           |
| <b>Example:</b>     | <code>&lt;CC_Calling_Party_Id&gt;6422255555&lt;/CC_Calling_Party_Id&gt;</code>            |

## ServiceProviderQueryResult

### Description

The ServiceProviderQueryResult message returns the ID of the service provider to whom the querying calling party ID belongs.

### Parameters

The following parameter is available for ServiceProviderQueryResult.

Service\_Provider

|                     |                                                                             |
|---------------------|-----------------------------------------------------------------------------|
| <b>Syntax:</b>      | <code>&lt;Service_Provider&gt;int&lt;/Service_Provider&gt;</code>           |
| <b>Description:</b> | The ID of the service provider associated to the querying calling party ID. |
| <b>Type:</b>        | Integer                                                                     |
| <b>Optionality:</b> | Optional                                                                    |
| <b>Allowed:</b>     |                                                                             |
| <b>Default:</b>     |                                                                             |
| <b>Notes:</b>       |                                                                             |

**Example:**       <Service\_Provider>11</Service\_Provider>