

**Oracle Utilities Customer Care and Billing
Integration to Oracle Field Service Cloud**

Configuration Guide

Release 19.1

F12506-01

February 2019

Oracle Utilities Customer Care and Billing Integration to Oracle Field Service Cloud Configuration Guide
Copyright © 2018, 2019 Oracle and/or its affiliates. All rights reserved.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are "commercial computer software" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Xeon are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Opteron, the AMD logo, and the AMD Opteron logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.

Contents

Chapter 1

| | |
|--|-----|
| Introduction | 1-1 |
| Overview of the Integration | 1-2 |
| About Oracle Utilities Customer Care and Billing | 1-2 |
| About Oracle Field Service Cloud | 1-2 |
| About Oracle Integration Cloud | 1-3 |
| Software Requirements | 1-3 |

Chapter 2

| | |
|---|------|
| Solution Architecture | 2-1 |
| Solution Diagram | 2-2 |
| Synchronous | 2-2 |
| One-way Asynchronous | 2-3 |
| Business Flows | 2-4 |
| Create/Update Field Activity (Oracle Utilities Customer Care and Billing initiated) | 2-4 |
| Cancel Field Activity (Oracle Utilities Customer Care and Billing initiated) | 2-5 |
| Appointment Window Request (Oracle Utilities Customer Care and Billing initiated) | 2-7 |
| Interim Activity Status (Oracle Field Service Cloud initiated) | 2-8 |
| Device Verification (Oracle Field Service Cloud initiated) | 2-10 |
| Create Activity (Oracle Field Service Cloud initiated) | 2-11 |
| Activity Completion/Cancellation (Oracle Field Service Cloud initiated) | 2-12 |

Chapter 3

| | |
|--|------|
| Configuring Oracle Utilities Customer Care and Billing | 3-1 |
| System Configuration | 3-2 |
| Message Senders | 3-2 |
| Outbound Message Types | 3-3 |
| External System | 3-4 |
| Service Provider | 3-5 |
| Feature Configuration | 3-5 |
| Dispatch Group | 3-6 |
| Managing Catalog Services | 3-7 |
| Field Activity Types | 3-7 |
| Configuring Admin Data Tables | 3-8 |
| Adding Oracle Integration Cloud Certificates | 3-9 |
| Accessing XAI Inbound Service as Inbound Web Service (IWS) | 3-10 |

Chapter 4

| | |
|--|-----|
| Configuring Oracle Field Service Cloud | 4-1 |
| Integrating Using Oracle Integration Cloud | 4-2 |
| Configuring Oracle Field Service Cloud | 4-2 |
| Creating Time Slots | 4-3 |
| Creating Work Skills | 4-3 |
| Creating Capacity Categories | 4-4 |
| Designating Buckets for Capacity or Quota Management | 4-6 |
| Adding Quota to Bucket | 4-7 |

| | |
|--|-------------|
| Configuring Plug-ins | 4-8 |
| Chapter 5 | |
| Importing, Configuring, and Testing Integration Connections in Oracle Integration Cloud | 5-1 |
| Importing the Oracle Integration Cloud Package from Oracle Cloud Marketplace..... | 5-2 |
| Verifying the Package Import..... | 5-2 |
| Configuring Connections in Oracle Integration Cloud | 5-4 |
| Configuring UAC_CCB Connection | 5-4 |
| Configuring REST_CCBOFSC_DV Connection..... | 5-4 |
| Configuring OFSC Connection | 5-4 |
| Configuring REST_CCBOFSC_APPT Connection | 5-5 |
| Configuring Agent (if applicable) | 5-5 |
| Possible Combinations | 5-5 |
| Creating an Agent Group..... | 5-5 |
| Downloading Agent Installer | 5-6 |
| Installing On-Premises Agent | 5-6 |
| Setting up Certificates for Security..... | 5-7 |
| Chapter 6 | |
| Configuring Lookups, Error Handling, and Email Notifications | 6-1 |
| Configuring Lookups | 6-2 |
| Editing Lookups..... | 6-4 |
| Configuration Properties | 6-5 |
| Error Handling | 6-6 |
| Error Handling Ways..... | 6-6 |
| Resubmitting the Error Instances in Oracle Integration Cloud | 6-7 |
| Email Notifications | 6-7 |
| Chapter 7 | |
| Extension Libraries in Oracle Integration Cloud..... | 7-1 |
| Chapter 8 | |
| Customizations | 8-1 |
| Adding New Mappings | 8-2 |
| Chapter 9 | |
| Activating and Testing the Integration Flows..... | 9-1 |
| Prerequisites..... | 9-2 |
| Activating Integration Flows | 9-2 |
| Testing the Integration Flows..... | 9-2 |
| Chapter 10 | |
| Monitoring and Troubleshooting | 10-1 |
| Oracle Utilities Customer Care and Billing..... | 10-2 |
| Oracle Utilities Customer Care and Billing Error Logs | 10-2 |
| Oracle Integration Cloud..... | 10-2 |
| Monitoring Integration Flows | 10-2 |
| Troubleshooting | 10-3 |
| Appendix A | |
| Known Issues | A-1 |
| Oracle Field Service Cloud..... | A-2 |
| Oracle Utilities Customer Care and Billing..... | A-2 |
| Appendix B | |
| Data Mapping | B-1 |
| Activity Completion | B-2 |
| Activity ID Mapping..... | B-2 |
| Activity Completion Request Mapping..... | B-2 |
| Activity Creation | B-54 |

| | |
|---|-------|
| Activity Creation Request Mapping | B-54 |
| Activity Creation Response Mapping..... | B-55 |
| Cancel Activity | B-57 |
| Cancel Activity Request Mapping..... | B-57 |
| Cancel Activity Response Mapping..... | B-58 |
| Create/Update Activity..... | B-60 |
| Create/Update Activity Request Mapping..... | B-60 |
| Create/Update Activity Response Mapping | B-93 |
| Device Verification..... | B-94 |
| Device Verification Request Mapping | B-94 |
| Device Verification Response Mapping | B-94 |
| Get Appointment | B-98 |
| Get Appointment Request Mapping..... | B-98 |
| Get Appointment Response Mapping.. | B-100 |
| Interim Status | B-102 |
| Interim Status Activity ID Mapping..... | B-102 |
| Interim Status Request Mapping..... | B-102 |

Chapter 1

Introduction

This chapter provides an overview about the integration between Oracle Utilities Customer Care and Billing and Oracle Field Service Cloud using Oracle Integration Cloud. It focuses on software requirements, Oracle Integration Cloud, and business standpoint of the integration.

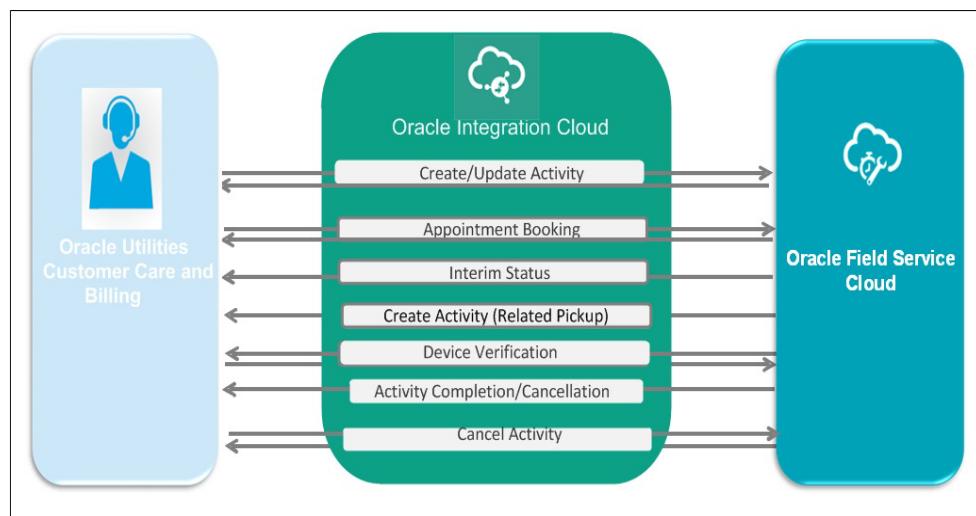
The chapter includes the following:

- [Overview of the Integration](#)
- [About Oracle Utilities Customer Care and Billing](#)
- [About Oracle Field Service Cloud](#)
- [About Oracle Integration Cloud](#)
- [Software Requirements](#)

Overview of the Integration

Oracle Utilities Customer Care and Billing Integration to Oracle Field Service Cloud helps to manage a fieldwork originated in the Oracle Utilities Customer Care and Billing solution in Oracle Field Service Cloud. The integration can be leveraged to create appointments and initiate/update/cancel activities in the field using the Oracle Field Service Cloud solution.

The major business flows revolve around activities, appointments, devices, and service points. The activities are created in Oracle Utilities Customer Care and Billing and sent to Oracle Field Service Cloud for the mobile worker to perform the activity. The field activity completion information is sent from Oracle Field Service Cloud to Oracle Utilities Customer Care and Billing where it is processed by Oracle Utilities Customer Care and Billing. In addition, the integration supports item/device verification, an ability to send interim status of a field activity and the related pick-up orders from Oracle Field Service Cloud to Oracle Utilities Customer Care and Billing.



About Oracle Utilities Customer Care and Billing

Oracle Utilities Customer Care and Billing manages customer information associated with field activities and processes the associated billing. Typically processing begins when a customer logs a request, or field activity, for work. Oracle Utilities Customer Care and Billing communicates this field activity to Oracle Field Service Cloud as a work order/activity.

About Oracle Field Service Cloud

Oracle Field Service Cloud is built on time-based, self-learning, and predictive technology, empowering to solve business problems while evolving the field service organization. It has various modules to choose, such as forecasting, routing, capacity, mobility, collaboration, core manage, smart location, customer communication, and more. It leverages the performance pattern profiles to create optimal daily routes and schedules and continues to learn as employee work patterns change over time.

About Oracle Integration Cloud

Oracle Integration Cloud is a unified platform to integrate the applications, automate processes, and create applications.

Using the Process Builder the business processes can be rapidly designed, automated, and managed in the cloud. Using integrations connect the applications into a continuous business flow. The applications that are on cloud and on premises can be integrated using Oracle Integration Cloud. The lookups help to match application specific codes between the two applications.

Integration Insights and Stream Analytics helps to simplify and extract business metrics and create custom dashboards.

Software Requirements

The application supported versions are:

- Oracle Utilities Customer Care and Billing - V2.7.x or higher
- Oracle Integration Cloud - V19.1.3.0.0 or higher
- Oracle Field Service Cloud - 19A or higher

Chapter 2

Solution Architecture

This chapter provides an overview of the application architecture used by the integration, including:

- [Solution Diagram](#)
- [Business Flows](#)

Solution Diagram

The technical aspects involved in Oracle Utilities Customer Care and Billing Integration to Oracle Field Service Cloud are:

- It is an integration between Oracle Utilities Customer Care and Billing and Oracle Field Service Cloud.
- The integration layer is made up of integration processes deployed on Oracle Integration Cloud.
- It uses web services and REST APIs to facilitate communication between these two applications.
- In the Oracle Utilities Customer Care and Billing initiated processes, outbound messages are sent and Oracle Field Service Cloud uses REST API to receive the messages.
- In the Oracle Field Service Cloud initiated processes, events are triggered and Oracle Utilities Customer Care and Billing uses inbound web services (IWS) to receive the messages.

The integration patterns used in this solution are:

- [Synchronous](#)
- [One-way Asynchronous](#)

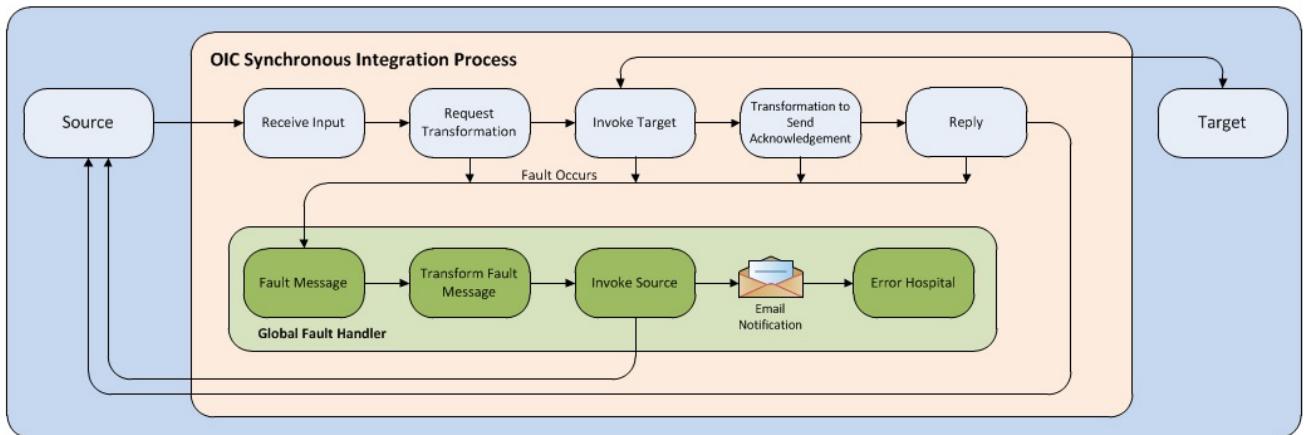
Synchronous

The synchronous integration process:

1. Receives request message from the source application.
2. Transforms the message from source format to the target format. Lookups are used for data translations.
3. Invokes the target application.
4. Transforms the message (after invoking the target application) from the target format back to the source format. It sends back an acknowledgment/synchronous response to the source application.
5. In case of any error, the global fault handler catches them and sends the transformed error message to the source application.
6. An optional email notification is sent to the respective users as configured.

The integration processes using this pattern are:

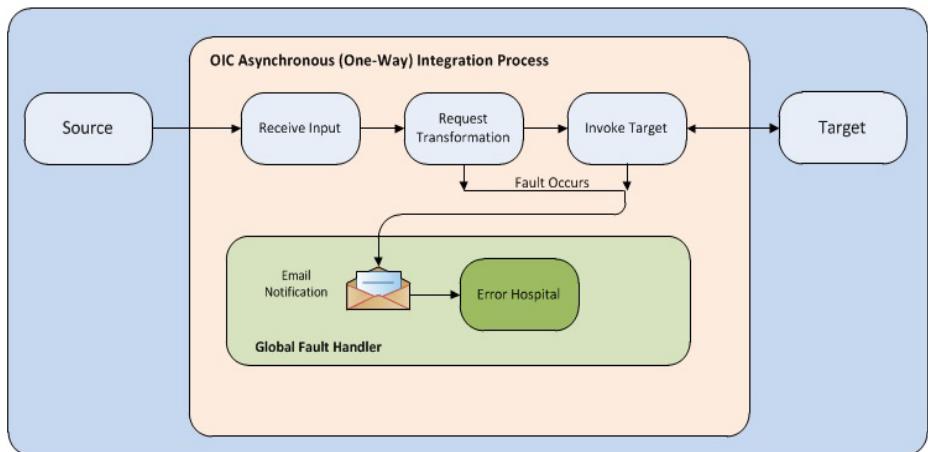
- Create/Update Activity (Oracle Utilities Customer Care and Billing initiated)
- Cancel Activity (Oracle Utilities Customer Care and Billing initiated)
- Appointment Window Request (Oracle Utilities Customer Care and Billing initiated)
- Device Verification (Oracle Field Service Cloud initiated)



One-way Asynchronous

The one-way asynchronous integration process:

1. Receives request message from the source application.
2. Transforms message from the source to the target format. Lookups are used for data translations.
3. Invokes target application to send the request message.
4. In case of any error, the global fault handler catches them.
5. An optional email notification is sent to the respective users as configured.
6. The error instance can be re-submitted from Oracle Integration Cloud. Refer to the [Error Handling](#) section in [Chapter 6: Configuring Lookups, Error Handling, and Email Notifications](#) for more details.



The integration processes using this pattern are:

- Create Activity (Oracle Field Service Cloud initiated)
- Activity Completion/Cancellation (Oracle Field Service Cloud initiated)
- Interim Activity Status (Oracle Field Service Cloud initiated)

Business Flows

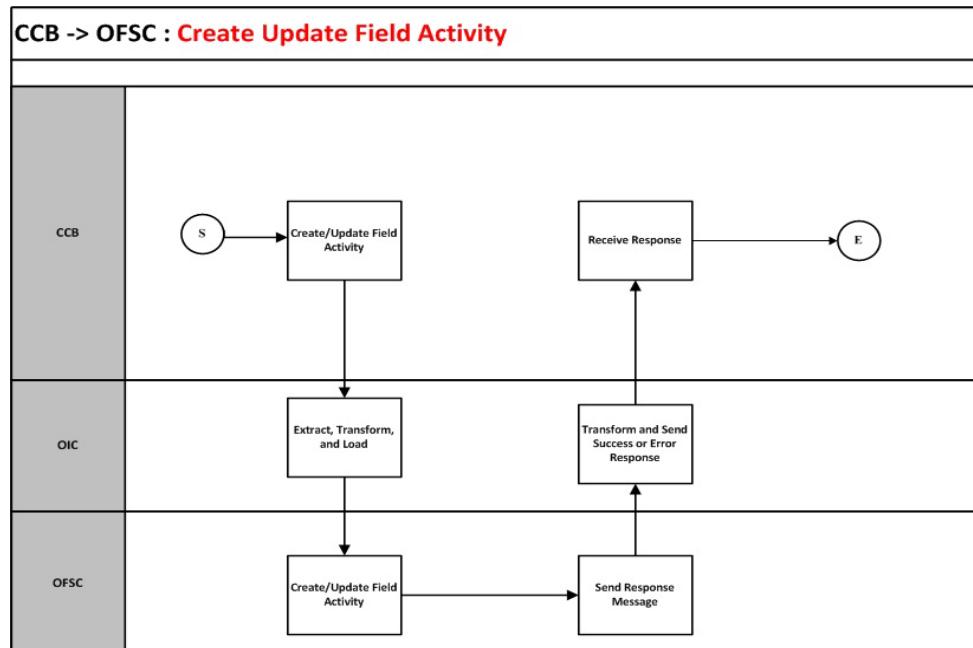
The integration scope supports the following business processes:

- Create/Update Field Activity (Oracle Utilities Customer Care and Billing initiated)
- Cancel Field Activity (Oracle Utilities Customer Care and Billing initiated)
- Appointment Window Request (Oracle Utilities Customer Care and Billing initiated)
- Interim Activity Status (Oracle Field Service Cloud initiated)
- Device Verification (Oracle Field Service Cloud initiated)
- Create Activity (Oracle Field Service Cloud initiated)
- Activity Completion/Cancellation (Oracle Field Service Cloud initiated)

Create/Update Field Activity (Oracle Utilities Customer Care and Billing initiated)

This integration process is used to accept request from Oracle Utilities Customer Care and Billing to create or update activities in Oracle Field Service Cloud. The information is sent synchronously from Oracle Utilities Customer Care and Billing, regardless of the activity type, and Oracle Field Service Cloud sends back a synchronous response.

The following diagram shows a graphical representation of the Create Update Field Activity integration process.



Business Processing

The integration process includes the following activities:

1. Oracle Utilities Customer Care and Billing sends the create/update field activity request to the CreateUpdate_Activity_CCBToOFSC integration process deployed on Oracle Integration Cloud.
2. The CreateUpdate_Activity_CCBToOFSC process transforms the create/updateactivity request message from Oracle Utilities Customer Care and Billing to the request message format in Oracle Field Service Cloud and invokes bulkUpdate API.
3. Oracle Field Service Cloud sends the success or failure response to the integration transformed and sent to Oracle Utilities Customer Care and Billing.
4. In case of any error response from Oracle Field Service Cloud, a business fault is thrown to Oracle Utilities Customer Care and Billing.
5. Any other errors are captured through the global fault handler and reported back to Oracle Utilities Customer Care and Billing.
6. An optional email notification with error details is sent to the users configured in the CCBOFSC_Email_ID lookup.

Technical Details

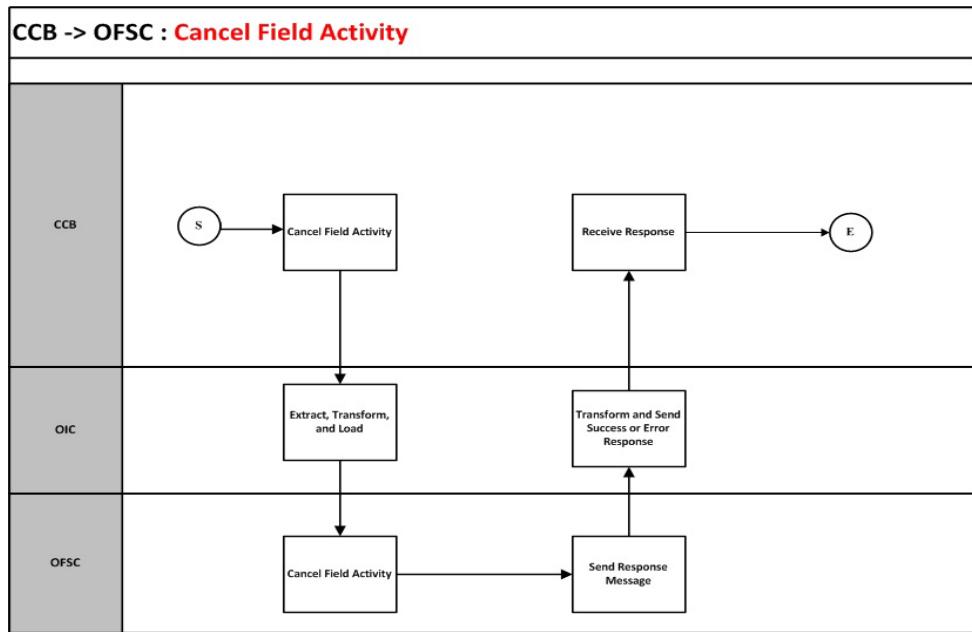
The following table describes the integration processes and the respective Oracle Utilities Customer Care and Billing and Oracle Field Service Cloud artifacts used in this integration process.

| Artifacts | Value |
|--------------------------|---------------------------------|
| Integration Process Name | CreateUpdate_Activity_CCBToOFSC |
| Integration Package Name | oracle.util.ccbofsc.fieldwork |
| OFSC BO/Operation | Activity/Bulk Update Activity |
| OFSC API | bulkUpdate |
| CCB BO | C1-FASendOutMsg |

Cancel Field Activity (Oracle Utilities Customer Care and Billing initiated)

This integration process is used to accept request from Oracle Utilities Customer Care and Billing to cancel activity in Oracle Field Service Cloud. The information is sent synchronously from Oracle Utilities Customer Care and Billing, regardless of the activity type, and Oracle Field Service Cloud sends back a synchronous response.

The following diagram shows a graphical representation of the Cancel Field Activity integration process.



Business Processing

The integration process includes the following activities:

1. Oracle Utilities Customer Care and Billing sends the cancel field activity request to the Cancel_Activity_CCBToOFSC integration process deployed on Oracle Integration Cloud.
2. The Cancel_Activity_CCBToOFSC process transforms the request message from Oracle Utilities Customer Care and Billing to the request message format in Oracle Field Service Cloud and invokes bulkUpdate API.
3. Oracle Field Service Cloud sends the success or failure response to the integration transformed and sent to Oracle Utilities Customer Care and Billing.
4. In case of any error response from Oracle Field Service Cloud, a business fault is thrown to Oracle Utilities Customer Care and Billing.
5. Any other errors are captured through the global fault handler and reported back to Oracle Utilities Customer Care and Billing.
6. An optional email notification with error details is sent to the users configured in the CCBOFSC_Email_ID lookup.

Technical Details

The following table describes the integration processes and the respective Oracle Utilities Customer Care and Billing and Oracle Field Service Cloud artifacts used in this integration process.

| Artifacts | Value |
|--------------------------|-------------------------------|
| Integration Process Name | Cancel_Activity_CCBToOFSC |
| Integration Package Name | oracle.util.ccbofsc.fieldwork |

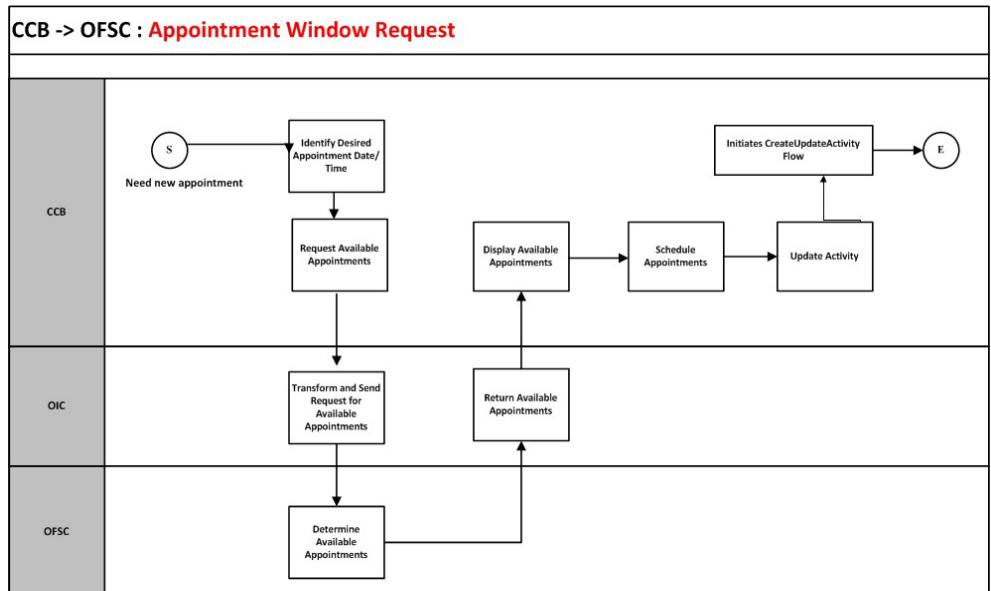
| Artifacts | Value |
|-------------------|-------------------------------|
| OFSC BO/Operation | Activity/Bulk Update Activity |
| OFSC API | bulkUpdate |
| CCB BO | C1-FACancelOutMsg |

Appointment Window Request (Oracle Utilities Customer Care and Billing initiated)

This integration process provides a list of available appointments.

Oracle Utilities Customer Care and Billing sends the activity start and end date times from the **Appointment** portal and Oracle Field Service Cloud sends back the list of appointments available on those dates.

The following diagram shows a graphical representation of the Appointment Window Request integration process.



Business Processing

The integration process includes the following activities:

1. Oracle Utilities Customer Care and Billing sends the get available appointment request to Get_Appointment_CCBToOFSC integration process deployed on Oracle Integration Cloud.
2. The Get_Appointment_CCBToOFSC process transforms the request message from Oracle Utilities Customer Care and Billing to the request message format in Oracle Field Service Cloud and invokes the activityBookingOptions REST API with start and end date values.
3. Oracle Field Service Cloud sends the success or failure response to the integration.

4. The integration process transforms and sends the available timeslots only when it is not a 'Break' time and has some quota allocated to it and invokes Oracle Utilities Customer Care and Billing.
5. Any errors are reported back to Oracle Utilities Customer Care and Billing through the global fault handler.
6. An optional email notification with error details is sent to the users configured in the CCBOFSC_Email_ID lookup.

Note: In Oracle Field Service Cloud make sure the employee-based activities have 'Break' in the time slot label.

For example: Lunch Break, Second Lunch Break, and more

Technical Details

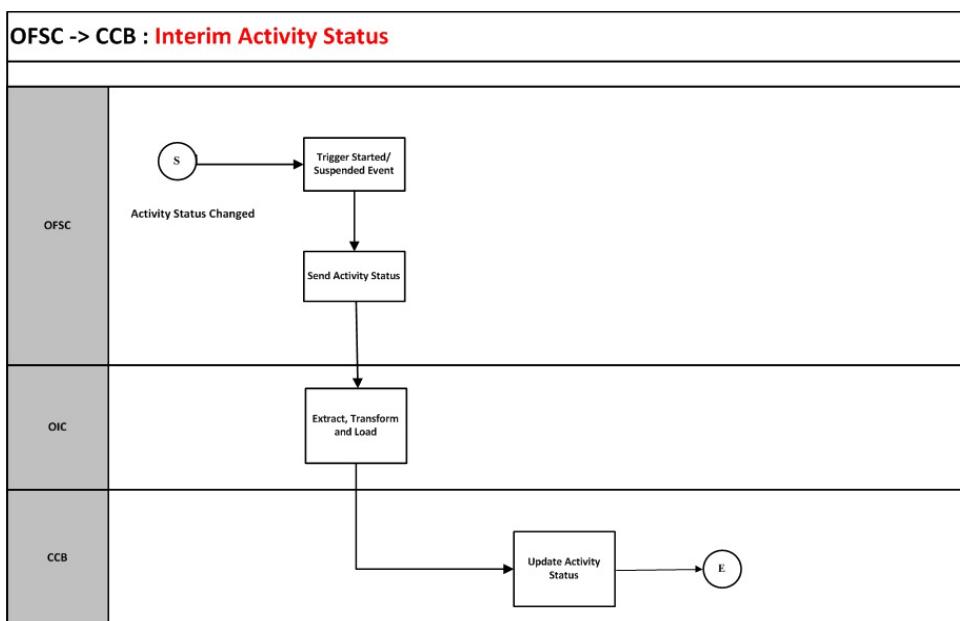
The following table describes the integration processes and the respective Oracle Utilities Customer Care and Billing and Oracle Field Service Cloud artifacts used in this integration process.

| Artifacts | Value |
|--------------------------|-------------------------------|
| Integration Process Name | Get_Appointment_CCBToOFSC |
| Integration Package Name | oracle.util.ccbofsc.fieldwork |
| OFSC API/Method | activityBookingOptions/GET |
| CCB BO | C1-GetAvailApptOutMsg |

Interim Activity Status (Oracle Field Service Cloud initiated)

Oracle Field Service Cloud sends the interim activity status of the field activities to Oracle Utilities Customer Care and Billing.

The following diagram shows a graphical representation of the Interim Activity Status integration process.



Business Processing

The integration process includes the following activities:

1. Oracle Field Service Cloud sends the interim activity status to the Send_ActivityStatus_OFSCToCCB integration process deployed on Oracle Integration Cloud.
2. Integration process transforms the message to Oracle Utilities Customer Care and Billing format and sends it to Oracle Utilities Customer Care and Billing.
3. Any errors are caught in the global fault handler.
4. An optional email notification with error details are sent to the users configured in the CCBOFSC_Email_ID lookup.

Technical Details

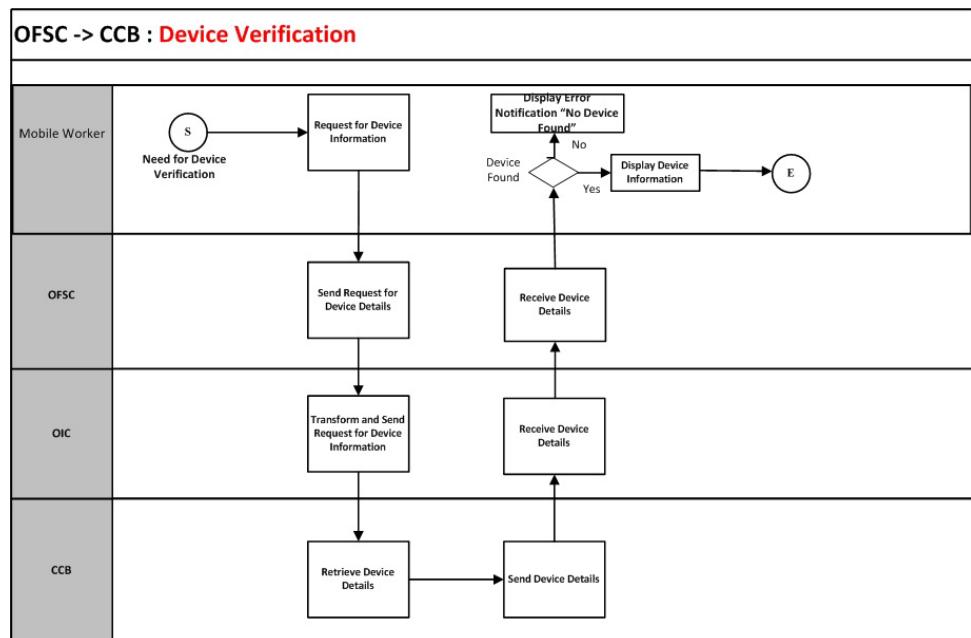
The following table describes the integration processes and the respective Oracle Utilities Customer Care and Billing and Oracle Field Service Cloud artifacts used in this integration process.

| Artifacts | Value |
|--------------------------|-------------------------------|
| Integration Process Name | Send_ActivityStatus_OFSCToCCB |
| Integration Package Name | oracle.util.ccbofsc.fieldwork |
| OFSC Events | Activity Started |
| | Activity Suspended |
| CCB XAI IWS | C1-FieldActivityMaintenance |

Device Verification (Oracle Field Service Cloud initiated)

This integration process is used to verify if the item/device is present in Oracle Utilities Customer Care and Billing. Oracle Field Service Cloud synchronously sends the requests for device verification with the device's badge number and Oracle Utilities Customer Care and Billing sends back the details, such as device configuration type and verification status.

The following diagram shows a graphical representation of the Device Verification integration process.



Business Processing

The integration process includes the following activities:

1. Oracle Field Service Cloud sends the device verification request to the Device_Verification_OFSCToCCB integration process deployed on Oracle Integration Cloud.
2. The Device_Verification_OFSCToCCB process transforms the request message from Oracle Field Service Cloud to the request message format in Oracle Utilities Customer Care and Billing and invokes the ValidateMeterItemResponse inbound service.
3. Oracle Utilities Customer Care and Billing sends the success or failure response to the integration transformed and sent to Oracle Field Service Cloud.
4. Any errors are handled by the custom plug-in hosted on Oracle Field Service Cloud. A pop-up blocker appears in Oracle Field Service Cloud with the respective error details.

Technical Details

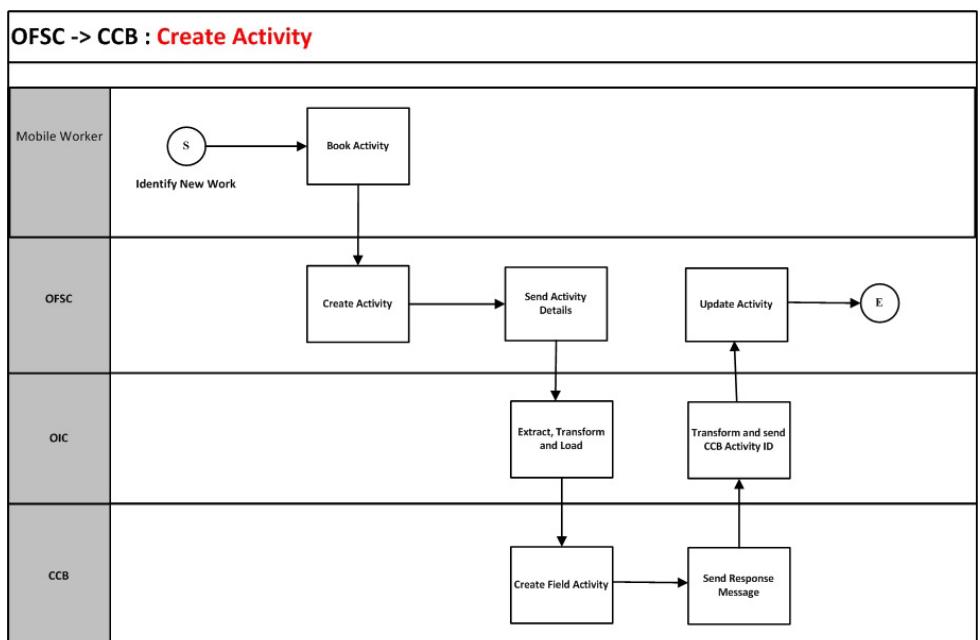
The following table describes the integration processes and the respective Oracle Utilities Customer Care and Billing and Oracle Field Service Cloud artifacts used in this integration process.

| Artifacts | Value |
|--------------------------|-------------------------------|
| Integration Process Name | Device_Verification_OFSCToCCB |
| Integration Package Name | oracle.util.ccbofsc.fieldwork |
| OFSC Entity | Custom Plugin |
| CCB XAI IWS | ValidateMeterItemResponse |

Create Activity (Oracle Field Service Cloud initiated)

This integration process is used to create an activity (related pickup) in an external system. Oracle Field Service Cloud sends a request to create activity in Oracle Utilities Customer Care and Billing.

The following diagram shows a graphical representation of the Create Activity integration process.



Business Processing

The integration process includes the following activities:

1. Oracle Field Service Cloud sends the create activity request to the Create_Activity_OFSCToCCB integration process deployed on Oracle Integration Cloud.
2. The Create_Activity_OFSCToCCB process checks for the product code and the activity status. If the product code is not equal to 'CCB' or if the activity is not in suspended state then it transforms the request message from Oracle Field Service

Cloud to the request message format in Oracle Utilities Customer Care and Billing and invokes the C1-AddFAandCustomerContact inbound web service.

3. The integration process transforms and sends the Oracle Utilities Customer Care and Billing response to Oracle Field Service Cloud Update Activity REST API.
4. Any errors are captured through the global fault handler.
5. An optional email notification with error details are sent to the users configured in the CCBOFSC_Email_ID lookup.

Technical Details

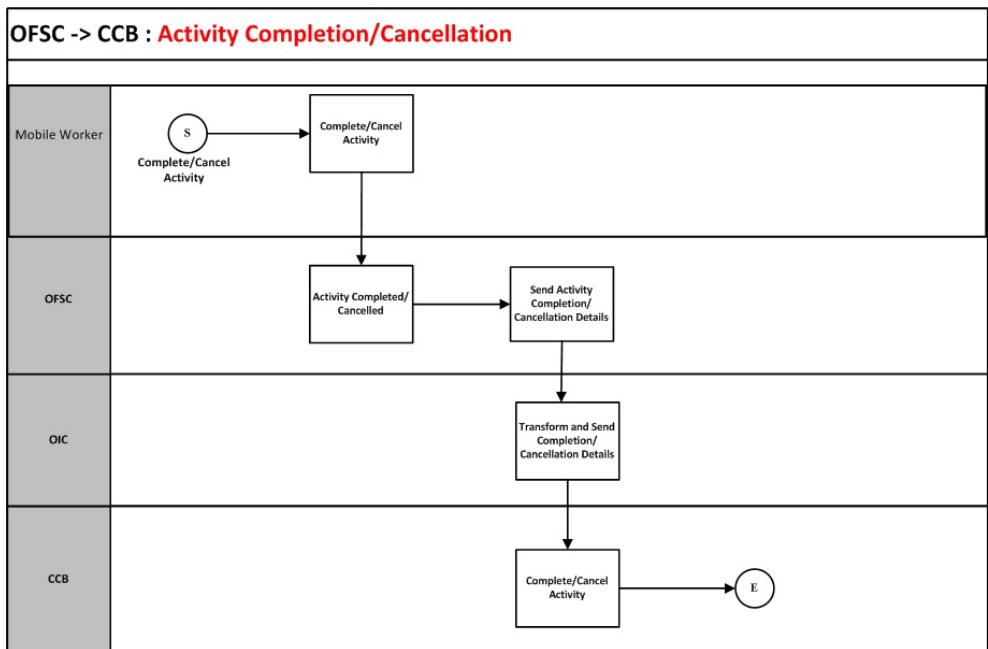
The following table describes the integration processes and the respective Oracle Utilities Customer Care and Billing and Oracle Field Service Cloud artifacts used in this integration process.

| Artifacts | Value |
|--------------------------|-------------------------------|
| Integration Process Name | Create_Activity_OFSCToCCB |
| Integration Package Name | oracle.util.ccbofsc.fieldwork |
| OFSC Events | Activity Created |
| OFSC BO/Operation | Activity/Update Activity |
| OFSC API | UpdateActivity |
| CCB XAI IWS | C1-AddFAandCustomerContact |

Activity Completion/Cancellation (Oracle Field Service Cloud initiated)

This integration process is used to send the field activity completion/cancellation details from Oracle Field Service Cloud to Oracle Utilities Customer Care and Billing. Oracle Field Service Cloud sends the activity completion/cancellation details, along with the completion/cancellation status, to complete/cancel the activity in Oracle Utilities Customer Care and Billing.

The following diagram shows a graphical representation of the Activity Completion/Cancellation integration process:



Business Processing

The integration process includes the following activities:

1. Oracle Field Service Cloud sends the activity completion details to the Complete_Activity_OFSCToCCB integration process deployed on Oracle Integration Cloud.
2. The Complete_Activity_OFSCToCCB process invokes Get Activity REST API and extracts the OFSC Activity details.
3. The integration process transforms the message from Oracle Field Service Cloud to the message format in Oracle Utilities Customer Care and Billing and invokes the C1FACompletionFieldWork Oracle Utilities Customer Care and Billing inbound web service.
4. Any errors are captured through the global fault handler.
5. An optional email notification with error details are sent to the users configured in the CCBOFSC_Email_ID lookup.

Technical Details

The following table describes the integration process and the respective Oracle Utilities Customer Care and Billing and Oracle Field Service Cloud artifacts used in this integration process.

| Artifacts | Value |
|--------------------------|-------------------------------|
| Integration Process Name | Complete_Activity_OFSCToCCB |
| Integration Package Name | oracle.util.ccbofsc.fieldwork |

| Artifacts | Value |
|-------------------|-----------------------------|
| OFSC BO/Event | Activity/Activity Completed |
| | Activity/Activity Cancelled |
| | Activity/Activity Not Done |
| OFSC BO/Operation | Activity/Get Activity |
| OFSC API | GetActivity |
| CCB XAI IWS | C1FACompletionFieldWork |

Chapter 3

Configuring Oracle Utilities Customer Care and Billing

This chapter elaborates about the configuration of various data, messages and catalog for the integration used by Oracle Utilities Customer Care and Billing. It includes the following sections:

- [System Configuration](#)

System Configuration

To configure the Oracle Utilities Customer Care and Billing setup for the integration:

1. Login to Oracle Utilities Customer Care and Billing.
2. Set up message senders. Refer to the [Message Senders](#) section for details.
3. Set up outbound message types. Refer to the [Outbound Message Types](#) section for details.
4. Set up an external system. Refer to the [External System](#) section for details.
5. Setup a Service Provider. Refer to the [Service Provider](#) section for details.
6. Manage feature configuration. Refer to the [Feature Configuration](#) section for details.
7. Setup the Dispatch group. Refer to the [Dispatch Group](#) section for details.
8. Manage Catalog Service. Refer to the [Managing Catalog Services](#) section for details.
9. Setup field activity types. Refer to the [Field Activity Types](#) section for details.
10. Generate certificates. Refer to the [Adding Oracle Integration Cloud Certificates](#) section for more details.

Message Senders

Create a new message sender for each integration process initiated from Oracle Utilities Customer Care and Billing.

To create a message sender:

1. Navigate to the **Message Sender** page from the **Admin** menu or from the **Search** menu.
2. Enter a unique message sender and its description.
3. Populate the following values:
 - Invocation Type - Real-time
 - Message Class - SOAPSNDR
 - Active - Select the checkbox.
 - MSG Encoding - UTF-8 message encoding
4. Select the **Context** tab and set values for the following context types:
 - HTTP Header - SOAPAction:"<operation name in the integration process wsdl>"
 - HTTP Login User - User ID to access the Oracle Integration for Cloud (OIC) flow
 - HTTP Password - Password to access the OIC flow
 - HTTP Method (POST/GET) - POST
 - HTTP Timeout - 60
 - HTTP Transport Method - SendReceive
 - HTTP URL 1 - Set the integration process URL to be accessed.

If the URL value does not fit, use the additional HTTP URL types to set the complete URL.

- SOAP Insert Timestamp (Y/N) - Y
- Sender Security Type - TEXT

Message sender configuration for integration services

| Message Sender | Description | HTTP Header | HTTP URL |
|-------------------------------|--|------------------------------------|--|
| Create/Update Activity | | | |
| INT_OFSC_CUA | INT Create Update Activity-Message Sender-OFSC | SOAPAction:"OIC _OFSC_C1-FASND" | https:// OIC_Host:OIC_Port/ic/ws/integration/v1/flows/oracleutilities/CREATEUPDATE_ACTIVITY_CCBTOOFSC/1.0/ |
| Get Appointment | | | |
| INT_OFSC_GA | INT Get Appointment-Message Sender-OFSC | SOAPAction:"OIC _OFSC_C1-GETAPPTS" | https:// OIC_Host:OIC_Port/ic/ws/integration/v1/flows/oracleutilities/GET_APPOINTMENT_CCBTOOFS_C/1.0/ |
| Cancel Activity | | | |
| INT_OFSC_CA | INT Cancel Activity Message Sender - OFSC | SOAPAction:"OIC _OFSC_C1-FACAN" | https:// OIC_Host:OIC_Port/ic/ws/integration/v1/flows/oracleutilities/CANCEL_ACTIVITY_CCBTOOFSC/1.0/ |

Outbound Message Types

The following outbound message types are provided for each integration process.

On the **Admin** menu, navigate to the **Outbound Message Type** page. You can also navigate from the **Search** menu.

Outbound message types for integration services

| Integration Service | Outbound Message Type | Description | Outbound Message |
|------------------------|-----------------------|---------------------------|-----------------------|
| Create/Update Activity | C1-FASND | Interface Field Activity | C1-FASendOutMsg |
| Get Appointment | C1-GETAPPTS | Get Available Appointment | C1-GetAvailApptOutMsg |
| Cancel Activity | C1-FACAN | Cancel Field Activity | C1-FACancelOutMsg |

External System

To create a new external system to support the integration:

1. Navigate to the **External System** page from the **Admin** menu or from the **Search** menu.
2. Enter a unique external system and description.

For example: Name = INT_OFSC_ES, Description = OFSC External System

3. Set the **Our Name in Their System** field to Oracle Utilities Customer Care and Billing.
4. Associate the outbound message types and message senders created to the external system.

For each outbound message type, set the following:

- Outbound Message Type - Outbound message type created for the respective integration service
- Processing Method - Real-time
- Message Sender - Set the message sender created for the integration service
- Date/Time Format - XSD
- Namespace Option - Standard Namespace

For more information about message senders and outbound message type for each integration service, refer to the [Message Senders](#) and [Outbound Message Types](#) sections respectively.

External system configuration for integration services

Example External System - INT_OFSC_ES

| Integration Service | Outbound Message Type | Message Sender |
|-----------------------|-----------------------|----------------|
| CreateUpdate Activity | C1-FASND | INT_OFSC_CUA |
| Get Appointment | C1-GETAPPTS | INT_OFSC_GA |
| Cancel Activity | C1-FACAN | INT_OFSC_CA |

Service Provider

Create a service provider with the respective external system.

To create a new service provider to support the integration:

1. From the **Admin** menu, navigate to the **Service Provider** page. You can also navigate from the **Search** menu.
2. Enter a unique **Service Provider** and **Description**.

For example: Name = INT_OFSC_SP, Description = INT_OFSC Service Provider

3. Set **External System** to the external system created for the integration layer. For details about external system, refer to the [External System](#) section.

For example: INT_OFSC_ES

4. Set **Person ID** to the Person representing this service provider. If it does not exist, create one in the **Person** page.

Feature Configuration

To create a new feature configuration:

1. Navigate to the **Feature Configuration** page from the **Admin** menu or from the **Search** menu.
2. Create a new feature configuration with Workforce Management as the **Feature Type** and enter required option types and values for the service provider you have configured for this integration.
3. Populate entries for the applicable options.

| Option | Possible Values | Notes |
|---------------------------------------|-----------------|--|
| Allow Forced Appointments | Y/N | Set to Y Use this option to indicate if forced appointments are supported. |
| Allow Manual Appointment | Y/N | Set to Y Use this option to indicate if a user is allowed to manually set up an appointment. |
| Allow Manual Appointment Cancellation | Y/N | Set to Y Use this option to indicate if a user is allowed to manually cancel an appointment. |
| Allow Multiple Reservations | Y/N | Set to N Use this option to indicate if booking appointments for multiple field activities is allowed. |
| Allow Narrowing Of Appointment Window | Y/N | Set to Y Use this option to indicate if the user is allowed to further narrow down a selected appointment window. |
| Allow Slot Group | Y/N | Set to Y |

| Option | Possible Values | Notes |
|--|--|---|
| Appointment Forced Characteristic Type | APPT FRC | APPT FRC When an appointment reservation is forced, a characteristic of this type is added to the field activity. Note that the field activity's FA type must also define this as a valid characteristic type. |
| Appointment Java Class Interface | com.splwg.wfm.i.workforce.ExternalWFM System | This Java class implementation used to interface with the external system to support real time appointment interaction. |
| Default Days Of Available Appointment | 10 | Set it to 10 Determines the end date of the search period when choosing a dispatch group on the appointment page. |
| Hi-Low Review | Y/N | Set to Y Indicates if meter reads coming from the external system should be reviewed for Hi-Low failures and trended. |
| Intermediate Status to Prevent FA Cancel | ACTV | Used to identify FA Intermediate Status values that should prevent the system from automatically canceling a Field Activity. |
| Intermediate Status To Skip Message | CREX | Identifies FA Intermediate Status value used when a Field Activity is created by an external system or when other information for a field activity is updated by an external system. |
| Service Provider | INT_OFSC_SP | The service provider defined for your external system. |
| To Do Type for FA Response | | Indicates the To Do type to use to create a To Do entry. |
| User Defined Criteria Field | | Used on the Appointment page to add specific appointment selection criteria. |
| User Defined Result Field | | Used on the Appointment page to add specific appointment selection result information. |

Dispatch Group

A dispatch group is a logical group of representatives located at an operations area. When a field activity is created, the system assigns it to a dispatch group based on the type of activity, the type of service point, and the operations area that manages the service point.

Create a dispatch group to be used for field activities that are to be integrated with the other participating applications.

The code defined here must exactly match value for the property “ccb.dispatchgroup” defined in the CCBOFSC_ConfigProps DVM for Dispatch Group indicated.

Navigate to the **Dispatch Group** page from the **Admin** menu or from the **Search** menu. Ensure this dispatch group is linked to the above feature configuration.

Managing Catalog Services

The catalog service is used by Oracle Integration Cloud to communicate with the respective application. It is configured in Catalog URL in the Oracle Integration Cloud connection.

To configure the catalog service in Oracle Utilities Customer Care and Billing:

1. Login to Oracle Utilities Customer Care and Billing.
2. Navigate to the **Web Service Catalog** page either from the **Admin** menu or the **Search** menu.

The external system and inbound web services are added to the catalog.

3. To get the catalog URL, append “webservices/builtin/ServiceCatalog?wsdl” to the Oracle Utilities Customer Care and Billing URL.

For example: http(s)://<CCB_HOST>:<CCB_PORT>/<ContextRoot>/webservices/builtin/ServiceCatalog?wsdl

The following services to be added in the catalog:

| Service Type | Service Name |
|---------------------|----------------------------|
| External System | INT_OFSC_ES |
| Inbound Web Service | C1FACompletionFieldWork |
| XAI Inbound Service | C1FieldActivityMaintenance |
| XAI Inbound Service | ValidateMeterItemResponse |
| XAI Inbound Service | C1AddFAandCustomerContact |

Note: For instructions to add an XAI Inbound Service to the web service catalog, refer to [Accessing XAI Inbound Service as Inbound Web Service \(IWS\)](#).

For more information about configuration, refer to the Oracle Utilities Customer Care and Billing documentation.

Field Activity Types

While setting up field activity types, make sure that a field activity cannot include more than 7 steps if it has to be completed by an external system.

Following is the list of supported Field Activity Types:

| FA Type Description | Steps to be Configured |
|---------------------|---|
| Connect SP | Step 1: Connect SP |
| Install Meter | Step 1: Connect SP Step 2: Install Meter |
| Remove Meter | Step 1: Remove Meter Step 2: Disconnect SP |
| Disconnect SP | Step 1: Disconnect SP |

| FA Type Description | Steps to be Configured |
|---------------------|---|
| Read Meter | Step 1: Read Meter |
| Replace Meter | Step 1: Remove Meter Step 2: Install Meter |
| Replace Item | Step 1: Remove Item Step 2: Install Item |
| Install Item | Step1: Connect SP Step2: Install Item |

Configuring Admin Data Tables

These are the global data values configured in Oracle Utilities Customer Care and Billing and can be used within the system for this integration.

The codes defined in these fields must exactly match values in the DVM/Lookups defined in integration layer.

Navigate to these pages from the **Admin** menu or from the **Search** menu.

| Field Name | Description | Corresponding DVM/Lookup |
|------------------------|---|-----------------------------|
| Disconnect Location | When a service point is disconnected from the supply source, a disconnect location must be specified. | CCBOFSC_DisconnectLocation |
| Meter Read Instruction | When setting up a premise you may define instructions to be supplied to the individuals who read the meters located at the premise. | CCBOFSC_ServiceInstructions |
| Meter Read Warning | When setting up a premise you may define warnings to be supplied to the individuals who read the meters located at the premise. | CCBOFSC_ServiceWarnings |
| Meter Location | When you set up a metered service point you must define where the meter's service point is located on the property. A meter can be associated with the on-site installation location. | CCBOFSC_MeterLocation |
| Time of Use | Every meter register can be associated with a time of use code. | CCBOFSC_TOU |

| Field Name | Description | Corresponding DVM/Lookup |
|--------------------------|--|--------------------------------|
| Unit of Measure | Every meter register must be associated with a unit of measure (read type) code. | CCBOFSC_UOM |
| Read Type | Use Read Type to define WHO made the read and HOW the read was made | OFSCCCB_ReadType |
| Meter Configuration Type | Every meter configuration must reference a meter configuration type. The meter configuration type indicates the valid (required or optional) unit of measure and time of use registers for the configuration. | CCBOFSC_MeterConfigurationType |
| Country | Create a country code. | CCBOFSC_CountryCode |
| | The Main page is used to customize the fields and field descriptions that are displayed where addresses are used in the system. This ensures that all addresses conform to the customary address format and conventions of the particular country you have defined. | |
| Field Activity Type | Create the types required by your business and populate the necessary information to define your set of field activity types required for your business. | CCBOFSC_ActivityType |
| Premise Type | Define the premise types used to categorize your premises | CCBOFSC_PremiseType |
| SP Type | Define a service point type | CCBOFSC_ServicePointType |
| Manufacturer | Create the required device Manufacturer code | CCBOFSC_Manufacturer |
| Model | Create the required model code | CCBOFSC_Model |

Adding Oracle Integration Cloud Certificates

Add the Oracle Integration for Cloud certificate to the Oracle Utilities Customer Care and Billing stores where ever applicable to send transactions to the Oracle Integration for Cloud layer.

Accessing XAI Inbound Service as Inbound Web Service (IWS)

To access XAI Inbound Service as an IWS service (to be added in the Web Service Catalog):

1. Navigate to **Feature Name (PMEMLCONFIG) > Feature Type (External Messages)**.
2. Add the **Support XAI Deployment via IWS** option and set the value to 'true'.
3. Redeploy the IWS services.
4. Reboot the Oracle Utilities Customer Care and Billing environment.

Chapter 4

Configuring Oracle Field Service Cloud

This chapter provides information about the necessary Oracle Field Service Cloud configurations. It focuses on the following:

- [Integrating Using Oracle Integration Cloud](#)
- [Configuring Oracle Field Service Cloud](#)

Prerequisite: Make sure the accelerator related configurations are complete in Oracle Field Service Cloud before proceeding with these. Download the accelerator package from Oracle Technology Network.

<https://www.oracle.com/technetwork/indexes/samplecode/utilities-5068606.html>

Integrating Using Oracle Integration Cloud

One of the ways of integrating the applications is through Oracle Integration Cloud. Oracle Integration Cloud creates an integration point in Oracle Field Service Cloud. When an event occurs in Oracle Field Service Cloud, it is sent to the appropriate application through Oracle Integration Cloud.

Note: Configure this integration only to send events or data from Oracle Field Service Cloud to Oracle Integration Cloud.

To configure the applications:

1. Login to Oracle Field Service Cloud.
2. Click **Configuration > Outbound Integration**.
3. On the **Outbound Integration** page, click **Add New Channel**.
4. From the **Channel Type** drop down list, select **Integration Cloud Service**.
5. Enter the name/description of the application for which the integration is created.
If multiple instances of an application are used, such as production and testing, create multiple access points for the application.
6. Enter the host name of the application for which the integration is created.
For example: If the URL is “<https://integration-a12345.integration.us2.oraclecloud.com/integration/flowsvc/ofsccloudadapter/NAME/v01/>” then the host is: “integration-a12345.integration.us2.oraclecloud.com”.
7. Enter the user name of the Oracle Integration Cloud user Service.
Make sure this user exists in Oracle Integration Cloud and has permissions to access the integration process endpoint.
8. Enter the password for the user name. The user name and password are used to authenticate Oracle Integration Cloud when Oracle Field Service Cloud starts sending events to Oracle Integration Cloud.
9. Confirm the password.
10. Click **OK**.

Configuring Oracle Field Service Cloud

This section provides information about the configurations in Oracle Field Service Cloud.

- [Creating Time Slots](#)
- [Creating Work Skills](#)
- [Creating Capacity Categories](#)
- [Designating Buckets for Capacity or Quota Management](#)
- [Adding Quota to Bucket](#)
- [Configuring Plug-ins](#)

Creating Time Slots

Time slots define the availability of crew who can book based on the customer priority.

To define a time slot:

1. Click **Configuration > Time slots**.
2. On the **Time slots** page, click **Add New**.
3. Enter the appropriate information in the following fields:

| Option | Description |
|-----------|---|
| Name | Name of the capacity category. The name is displayed in the list and in the quota matrix. If the application is configured for multiple languages, input boxes appear for each language. |
| Label | Specify a label. It is used in the context of APIs and should conform to a standard naming convention. |
| Active | Select the check box to mark the capacity category as 'active'. Only active capacity categories are used in the quota matrix. |
| Status | Mark the capacity category as 'active'. Only active capacity categories are used in the quota matrix. |
| Time from | Start time |
| Time To | End time |

4. Select the work skill type and click **Add**.

Creating Work Skills

To create a work skill:

1. Click **Configuration > Work skills**.
2. On the **Time slots** page, click **Add New**.
3. On the **Work skills** page, enter the appropriate information in the fields:

| Option | Description |
|--------|---|
| Name | Name of the capacity category. The name is displayed in the list and in the quota matrix. If the application is configured for multiple languages, input boxes appear for each language. |
| Label | Specify a label. It is used in the context of APIs and should conform to a standard naming convention. |
| Active | Select the check box to mark the capacity category as 'active'. Only active capacity categories are used in the quota matrix. |

4. Click **Work skill conditions**.

5. Select the work skill created in step 3.
6. On the **Work Skill Conditions** page, from the drop down box, select the work skill name created in step 4.
7. Select the required level as 1.
8. Select the preferable level as 1.
9. Click **Add New Condition**.
10. Select the **Activity Type** property and add the required activity types.

Creating Capacity Categories

A capacity category is a predefined set of work skills and/or work skill groups and time slots visible to a user booking the activities for the customers.

Based on the number of minutes available (Capacity = Initial quota allocation minus Used minutes), the user decides if enough time is available within a time slot to realistically promise a specific service window to the customer. This information is sent to the CSR via Capacity API. Capacity Categories are visible only if the Oracle Field Service Cloud Capacity Cloud Service module is used.

Note: The Used Minutes value is calculated based on the exact time (in minutes) from start to end of a working day.

You must enable the Capacity Categories visibility profile permission for each user to access the Capacity Categories window:

- Read-Only: Select this option to display capacity categories in a view only mode.
- Read/Write: Select this option to let the user manage Capacity Categories in Oracle Field Service Cloud.

If the permissions are not configured for a user type, the activity types will not be visible to the users. Oracle Field Service Cloud maps the work skills to assign incoming activities to the resources. In general, many companies define quota for a work skill group rather than for an individual work skill. For example: Separate skills are required for installation, un-installing and maintenance of modems, but from a scheduling perspective, quota is defined for all the modem-related works group.

A capacity category can also consist of a single work skill and the minimum required level of the skill level. For example: A category can be created for all the customer-oriented work and a separate group for VIP customers or for highly difficult tasks. The two categories would contain the same work skills but the minimal qualification level in the VIP group is higher. Because of the categories and the multi-skill functionality, the same activity can match several rows in the quota table and can be added to the used capacity several times. The duration of this activity will be taken into account for all the capacity categories it matches.

The operations performed on a capacity category are:

- [Creating a Capacity Category](#)
- [Modifying a Capacity Category](#)
- [Deleting a Capacity Category](#)
- [Adding/Editing Work Skills within a Capacity Category](#)
- [Adding/Editing Time Slots within a Capacity Category](#)

Creating a Capacity Category

To create a capacity category to configure work skills, work skill groups, and time slots:

1. Click **Configuration > Capacity Categories**.
2. On the **Capacity Categories** page, click **Add New**.
3. On the **Add Capacity Category** page, enter the appropriate information in the fields.

The following table describes the fields available on the **Add Capacity Category** page.

| Option | Description |
|--------|---|
| Name | Name of the capacity category. The name is displayed in the list and in the quota matrix. If the application is configured for multiple languages, input boxes appear for each language. |
| Label | Specify a label. It is used in the context of APIs and it must conform to a standard naming convention. |
| Active | Select to mark the capacity category as 'active'. Only active capacity categories are used in the quota matrix. |

4. Click **Save**.

After creating the capacity category, add work skills, work skill groups, and time slots to the category.

Modifying a Capacity Category

To edit an existing capacity category:

1. Click **Configuration > Capacity Categories**.
2. On the **Capacity Categories** page, select the checkbox next to the capacity category to be modified.
3. Click the pencil icon in the **Name** column.
4. On the **Edit Capacity Categories** page, change the required fields.
5. Click **Save**.

Deleting a Capacity Category

To delete a capacity category when no longer needed:

1. Click **Configuration > Capacity Categories**.
2. On the **Capacity Categories** page, select the checkboxes next to the capacity categories to be deleted.
3. Click **Delete**.
4. Click **OK**.

Adding/Editing Work Skills within a Capacity Category

A capacity category can contain one or more work skills and each work skill must meet a minimum required level.

To add/edit work skills within a capacity category:

1. Click **Configuration**.
2. In the **General** section, click **Capacity Categories**.
3. On the **Capacity Categories** page, click the pencil icon in the **Work Skills** column to add/edit the capacity categories.
4. On the **Edit Work Skill** page, select a work skill and add the minimum level of the skill required in the corresponding text box.

The default value is 1. When the minimum level of a work skill is defined, an activity matches a capacity category, if a required skill level for the activity skill is equal to or more than the level of the capacity category.

Note: If a capacity category contains a group of work skills, the activity matches the category if it requires at least one of work skills from the group.

Recalculate activities after any edits or updates have been made to apply changes to pending and future activities in the system.

Adding/Editing Time Slots within a Capacity Category

A capacity category can contain one or more time slot associations.

To add/edit time slots within a capacity category:

1. Click **Configuration**.
2. In the **General** section, click **Capacity Categories**.
3. On the **Capacity Categories** page, click the pencil icon in the **Time Slots** column to add/edit the capacity category.
4. On the **Edit Time Slots** page, select a time slot.
5. Click **Save**.

Designating Buckets for Capacity or Quota Management

After adding a bucket, select whether to use it for capacity management or quota management. The selection is done on the **Resource Information** page.

1. Click the bucket name in the **Resource Tree**.
2. Select the **Quota Management** checkbox.

The routing profile, capacity categories, and time slots fields are displayed.

Adding Capacity Categories and Time Slots

If a bucket is designated as a capacity bucket used for quota calculation, the screen displays the capacity categories and time slots fields. The selections made here determine how the **Quota** section appears. Configuring capacity categories and time slots on a

bucket-by-bucket basis is helpful when different regions and types of resources within these buckets require different skills and time slots.

To add capacity categories and time slots:

1. Click the bucket name in the **Resource Tree**.
2. Select the **Quota Management** check box.
The routing profile, capacity categories, and time slots appear.
3. Select the time slots used for quota management in this bucket.
4. Click the pencil icon next to the **Time Slots** field to edit the time slots.
5. On the **Edit Time Slots** box, select the time slots to be used for quota management for this bucket.
6. Click **Save**.
7. Select the capacity categories used for quota management in this bucket.
8. Click the pencil icon next to the **Capacity Categories** field.
9. On the **Edit Capacity Categories** window, select the capacity categories used for quota management for this bucket. Click **Save**.
10. Select the level at which quota is defined in this bucket (day, time slot, capacity category).

This determines the visibility of the Day, Time slot, and Capacity Category tables in the Quota view.

11. Select the levels on which quota can be closed in this bucket.

Note that quota can also be closed by work zone.

12. Select the levels for which maximum capacity should be estimated.

Maximum capacity is the maximum number of minutes for activities booking. The application checks that the total duration of booked activities plus the total duration of other activities does not exceed maximum capacity.

13. Click **OK** to save the bucket information.

Adding Quota to Bucket

To add quota to bucket:

1. Navigate to **Bucket > Dispatch > Quota**.
2. Select **View filter by > Quota by Day**.

| Capacity area | Wednesday, February 27th, 2019 | |
|-------------------|--------------------------------|------|
| | Quota | Used |
| Meter Services | | |
| OH Meter Services | | |

3. Provide quota per the day in minutes.
4. Select **Bucket > Dispatch > Quota**.
5. Select **View filter by > Time slots**.
6. Add the quota for each time slot in minutes.

| Time Slot | Wednesday, February 27th, 2019 | | |
|--------------------|--------------------------------|------|----------------------|
| | Quota | Used | % when booking stops |
| Day | | | |
| 08-08:05 | | | |
| 08-10 | | | |
| 10-12 | | | |
| 13-15 | | | |
| 15-17 | | | |
| 8:15-8:20 | | | |
| All-Day | | | |
| Lunch break | | | |
| Second Lunch Break | | | |

Configuring Plug-ins

Oracle Field Service Cloud is a highly developed application that can be customized for the unique purposes and specialized business needs of organizations. That extensibility is achieved in part through the use of plug-ins, which can perform actions not found in the standard solution. Plug-ins appear as selectable links on the application. They open a new window, tab, or frame in a browser where an external HTML5 application is executed.

Prerequisite: Download the **Device_Verify_Plugins_op.xml** file from Oracle Technology Network.

<https://www.oracle.com/technetwork/indexes/samplecode/utilities-5068606.html>

To configure a plug-in:

1. Navigate to **Configuration > Form & Plugins**.
2. Click **Import Plugin** on the top right corner.
3. Select the **plugin.xml** file (downloaded from My Oracle Support) and click **Validation**.
4. Click **Import**.
5. Verify if the plug-in is imported with the **VerifyDevice** label.
6. Modify **VerifyDevice**.
7. Navigate to **Plug-in Settings > Secure Parameter** and configure the following parameters.

| Parameter | Value |
|-----------|---|
| url | Device Verification OIC activated URL Example: https://hostname:port/ic/api/integration/v1/flows/rest/ DEVICE_VERIFICATION_OFSCTOCCB/1.0/ |
| | Note: Replace host and port values with the respective OIC details. |

| Parameter | Value |
|-----------|-------------------------------|
| uname | User name of the OIC instance |
| pwd | Password of OIC instance |

Chapter 5

Importing, Configuring, and Testing Integration Connections in Oracle Integration Cloud

This chapter explains the process for importing the connections, packages, and files needed for the integration and the configuration of these connections imported through the packages. After a successful import and configuration the chapter lists out steps to help test the connections. It includes the following sections:

- [Importing the Oracle Integration Cloud Package from Oracle Cloud Marketplace](#)
- [Verifying the Package Import](#)
- [Configuring Connections in Oracle Integration Cloud](#)
- [Configuring Agent \(if applicable\)](#)
- [Setting up Certificates for Security](#)

Importing the Oracle Integration Cloud Package from Oracle Cloud Marketplace

All integration points are shipped as part of single package (oracle.util.ccbofsc.fieldwork.par) file.

To import a pre-built integration from Oracle Cloud Marketplace:

1. Launch the Oracle Cloud Marketplace portal.

https://cloudmarketplace.oracle.com/marketplace/en_US/homePage.jspx

2. Click **Applications**.
3. Browse through the list of applications and select the pre-built integration package to import.

Alternatively, you can search for “Oracle Utilities” and select the **CCB-OFSC** integration option.

4. Click **GetApp**.
5. Review and accept the “Oracle Standard Terms and Restrictions”.
6. Click **Next**. The My Oracle Support portal opens.
7. Download the integration package from My Oracle Support.
8. When prompted, select the server where the pre-built integration file should be uploaded.

The pre-built integration is imported as a package file (.par) that is visible on the **Packages** page in Oracle Integration Cloud.

9. On the **Integrations** page, the individual integrations of the imported package file that are designated with a BUILT BY ORACLE message are displayed.

To import a package in Oracle Integration Cloud:

1. Login to Oracle Integration Cloud.
2. Navigate to **Integrations > Designer > Packages**.
3. Click **Import**.
4. Select the .par file downloaded from Oracle Cloud Marketplace.
5. Verify if the package is imported successfully.

Verifying the Package Import

To verify the package import was successful:

1. Verify whether the following integrations are imported successfully.
 - CreateUpdate_Activity_CCBToOFSC
 - Get_Appointment_CCBToOFSC
 - Send_ActivityStatus_OFSCToCCB

- Device_Verification_OFSCToCCB
 - Create_Activity_OFSCToCCB
 - Cancel_Activity_CCBToOFSC
 - Complete_Activity_OFSCToCCB
2. Verify if the following connections are in place.
- UAC_CCB
 - OFSC
 - REST_CCBOFSC_APPT
 - REST_CCBOFSC_DV
3. Make sure that the following look ups are imported successfully.
- CCBOFSC_Email_ID
 - CCBOFSC_ConfigProps
 - CCBOFSC_ActivityType
 - CCBOFSC_CountryCode
 - CCBOFSC_LifeSupport
 - CCBOFSC_Manufacturer
 - CCBOFSC_MeterLocation
 - CCBOFSC_Model
 - CCBOFSC_DisconnectLocation
 - CCBOFSC_ServiceInstructions
 - OFSCCCB_Appt_TimeSlots
 - OFSCCCB_InterimStatus
 - CCBOFSC_ServicePointType
 - CCBOFSC_PremiseType
 - OFSCCCB_TimeZone
 - CCBOFSC_ServiceWarnings
 - OFSCCCB_DeviceStatus
 - OFSCCCB_ReadType
 - CCBOFSC_MeterConfigurationType
 - CCBOFSC_UOM
 - CCBOFSC_TOU

Configuring Connections in Oracle Integration Cloud

After the packages are imported and verified, the respective connections have to be configured.

This section describes the procedure to set up the connections.

Configuring UAC_CCB Connection

This connection is used to communicate with Oracle Utilities Customer Care and Billing using the Oracle Utilities adapter.

To configure the UAC_CCB connection:

1. Add the Oracle Utilities Customer Care and Billing catalog to the **catalogURL** section.
2. On the **Security policy** tab, select the **User Name and Password** token policy.
3. On the **Connection** page, enter the user name and password.
4. Configure the Agent in the **Agent group** section if the Oracle Utilities Customer Care and Billing application is on-premise. Refer to the [Configuring Agent \(if applicable\)](#) section for more details.
5. After the connection is tested successfully, click **Save**.

Configuring REST_CCBOFSC_DV Connection

This connection is used to communicate with Oracle Field Service Cloud using the REST adapter. It is also used for the Device Verification flow triggered by Oracle Field Service Cloud.

Edit the REST_CCBOFSC_DV connection and test it to make sure it is successful. Click **Save**.

Configuring OFSC Connection

This connection is used to communicate with Oracle Field Service Cloud using the OFSC adapter.

Configure the OFSC connection with the required details:

1. Enter the API URL in the **Field Service Cloud API URL** field.
2. Enter the **Instance ID**.
3. From the **Security Policy** drop-down list, select **Basic Authentication**.
4. On the **Connection** page, enter the user name and password and then click **Test** at the upper-right corner.
5. After the connection is tested successfully, click **Save**.

Configuring REST_CCBOFSC_APPT Connection

This connection is used to communicate with the ActivityBooking API of Oracle Field Service Cloud using the REST adapter. It is used in the Appointment Request flow inbound to Oracle Field Service Cloud.

Configure the REST_CCBOFSC_APPT connection with required details:

1. In the **Connection Properties** section:
 - a. From the **Connection Type** drop-down box, select **REST API Base URL**.
 - b. Select the **TLS Version** as **TLSV1.2**.
 - c. Enter **<https://api.etadirect.com/rest/ofscCapacity/v1/>** in the **Connection URL** field.
2. In the **Security** section:
 - a. From the **Security Policy** drop-down list, select **Basic Authentication**.
 - b. Enter the user name and password.
 - c. Click **Test** at the upper-right corner.
3. After the connection is tested successfully, click **Save**.

Configuring Agent (if applicable)

Create an agent group in Oracle Integration Cloud and install agent on the on-premises server before creating/activating an integration in which messages are exchanged between the on-premises applications and Oracle Integration Cloud. The agent related configurations are needed only if the server points to an on-premises application.

This section includes:

- [Possible Combinations](#)
- [Creating an Agent Group](#)
- [Downloading Agent Installer](#)
- [Installing On-Premises Agent](#)

Possible Combinations

The possible combinations of an agent group are:

- Oracle Utilities Customer Care and Billing on-premises and Oracle Field Service Cloud

Creating an Agent Group

Create an agent group in Oracle Integration Cloud before running the agent installer. When the on-premises agent is installed in the environment, the on-premises agent is associated with the agent group identifier. Only one on-premises agent can be associated with an agent group.

For a single Oracle Integration Cloud instance, you can create up to five agent groups. Creating the agent group also creates the necessary queues required for message exchange.

To create an agent group:

1. Login to Oracle Integration Cloud.
2. On the **Home** page, click **Agents**.
3. Click **Create Agent Group**.
4. Enter the following information:
 - Agent Group Name
 - Identifier

Note: The agent group name and identifier must be same.

- Agent Type: “Connectivity Agent”
- Description

5. Click **Create**.

Downloading Agent Installer

Download the agent installer from Oracle Integration Cloud and run the installer to install the on-premises agent in your local environment. During the installation, associate the agent with the Agent Group Identifier generated when creating an agent group in Oracle Integration Cloud.

For more information on agent installer, see <https://docs.oracle.com/en/cloud/paas/integration-cloud/integrations-user/downloading-and-running-premises-agent-installer.html>.

Installing On-Premises Agent

To install an on-premises agent:

1. Login to Oracle Integration Cloud.
2. On the **Home** page, click **Agents**.
3. Click **Download**.
4. Select **Connectivity Agent**.
5. Select **Save File** when prompted to save the file to a directory location on your on-premises host.
6. Navigate to that directory and unzip **oic_connectivity_agent.zip**.
7. Change the file permissions to be executable.
8. Download the Oracle Utilities Customer Care and Billing certificate and upload by running the below command from agent home directory.

```
keytool -import -file directoryPath/sample.crt -alias SampleCert -keystore <Agent_Home>/agenthome/agent/cert/keystore.jks
```

9. Modify **InstallerProfile.cfg** to include the following information.
 - a. Provide the oic_URL value with the OIC SSL host name. For example: https://OIC_host:OIC_port
 - b. Provide the agent_GROUP_IDENTIFIER. It should be the agent group created in Oracle Integration Cloud.
 - c. Set the proxy parameters if the connectivity agent is used with a proxy in the on-premises environment.
 - d. Set the JAVA_HOME property to the directory/folder where JDK is installed.

Note: Before running the connectivity agent installer, perform the steps in the link below.

<https://docs.oracle.com/en/cloud/paas/integration-cloud/utilities-adapters/you-begin-setting-oracle-utilities-adapter.html#GUID-7F770AD1-5B87-4C62-968A-3AB30D043835>

- e. Run the connectivity agent installer from the command prompt.

```
java -jar connectivityagent.jar
```

- f. Provide the Oracle Integration Cloud credentials when prompted.

- g. Wait for a successful installation message to appear.

After the installation is complete, an agent instance is created to interact with Oracle Integration Cloud.

To verify if the agent instance was created:

1. Navigate to the **Agents** page in Oracle Integration Cloud.
2. Check if the agent count for your **Agent Group** is increased by one.
3. Click the number to view the agent details.

For more details, refer to Oracle Integration Cloud documentation at <https://docs.oracle.com/en/cloud/paas/integration-cloud-service/index.html>.

Setting up Certificates for Security

Important! Please skip this section if there are valid CA certificates for the integration.

If there are no valid certificates for this integration, download the Oracle Utilities Customer Care and Billing certificates and upload them to Oracle Integration Cloud to handshake with Oracle Utilities Customer Care and Billing.

To download the Oracle Utilities Customer Care and Billing certificate:

1. Login to Oracle Utilities Customer Care and Billing.
2. Click the URL on the top-left corner.
3. On the **Security** tab, click **View Certificate**.
4. On the **Details** tab, click **Export**.
5. Save the certificate.

To upload the certificate to Oracle Integration Cloud:

1. Login to Oracle Integration Cloud with Admin credentials.
2. Navigate to **Settings > Certificates**.
3. On the **Certificate** window, click **Upload**.
4. Select **Certificate Type** as **Trust Certificate**.
5. Provide the **Certificate Alias Name**.
6. Select the certificate to upload.
7. Click **Upload**.

Chapter 6

Configuring Lookups, Error Handling, and Email Notifications

This chapter focuses on the lookups configuration, handling business and technical errors, and sending email notifications in this integration. It includes the following sections:

- [Configuring Lookups](#)
- [Configuration Properties](#)
- [Error Handling](#)
- [Email Notifications](#)

Configuring Lookups

The following table lists the lookups and integration processes where these lookups are used.

| Lookup Name | Integration Name | Purpose |
|-----------------------|----------------------------------|--|
| CCBOFSC_ConfigProps | CreateUpdate_Activity_CCBToOFSC | Mainly used for configuring the properties with appropriate values. |
| | Cancel_Activity_CCBToOFSC | |
| | Complete_Activity_OFSCToCCB | |
| | Create_Activity_OFSCToCCB | |
| | Get_Appointment_CCBToOFSC | |
| CCBOFSC_ActivityType | CreateUpdate_Activity_CCBToOFSC | Used to translate Oracle Utilities Customer Care and Billing Activity Type to Oracle Field Service Cloud Activity Type. |
| | Complete_Activity_OFSCToCCB | |
| | Create_Activity_OFSCToCCB | |
| CCBOFSC_CountryCode | CreateUpdate_Activity_CCBToOFSC | Translates the Oracle Utilities Customer Care and Billing Country code to Oracle Field Service Cloud. |
| CCBOFSC_LifeSupport | CreateUpdate_Activity_CCBToOFSC | Translates the Oracle Utilities Customer Care and Billing life support to Oracle Field Service Cloud. |
| CCBOFSC_Manufacturer | CreateUpdate_Activity_CC_BToOFSC | Translates the Oracle Utilities Customer Care and Billing Manufacturer to Oracle Field Service Cloud and vice versa. |
| | Complete_Activity_OFSC_ToCCB | |
| CCBOFSC_MeterLocation | CreateUpdate_Activity_CCBToOFSC | Used to translate the Oracle Utilities Customer Care and Billing Meterlocation to Oracle Field Service Cloud and Vice versa. |
| | Complete_Activity_OFSCToCCB | |
| CCBOFSC_Model | CreateUpdate_Activity_CCBToOFSC | Translates the Oracle Utilities Customer Care and Billing Model to Oracle Field Service Cloud and Vice versa. |
| | Complete_Activity_OFSCToCCB | |

| Lookup Name | Integration Name | Purpose |
|-----------------------------|---------------------------------|--|
| CCBOFSC_DisconnectLocation | Complete_Activity_OFSCToCCB | Translates the Oracle Utilities Customer Care and Billing Disconnection location to Oracle Field Service Cloud and Vice versa. |
| | CreateUpdate_Activity_CCBToOFSC | |
| CCBOFSC_ServiceInstructions | Complete_Activity_OFSCToCCB | Translates the Oracle Utilities Customer Care and Billing Service instructions to Oracle Field Service Cloud and Vice versa. |
| | CreateUpdate_Activity_CCBToOFSC | |
| OFSCCCB_Appt_TimeSlots | Get_Appointment_CCBToOFSC | Translates the Oracle Utilities Customer Care and Billing timeslots to Oracle Field Service Cloud time slots and vice versa. |
| OFSCCCB_InterimStatus | Send_ActivityStatus_OFSCToCCB | Translates the Oracle Utilities Customer Care and Billing status to Oracle Field Service Cloud. |
| CCBOFSC_ServicePoint_Type | CreateUpdate_Activity_CCBToOFSC | Translates the Oracle Utilities Customer Care and Billing Service point type to Oracle Field Service Cloud. |
| CCBOFSC_Email_ID | CreateUpdate_Activity_CCBToOFSC | Used to maintain the email address of 'from' (sender) and 'to' (receiver) fields. |
| | Cancel_Activity_CCBToOFSC | |
| | Complete_Activity_OFSCToCCB | |
| | Create_Activity_OFSCToCCB | |
| | Get_Appointment_CCBToOFSC | |
| | Send_ActivityStatus_OFSCToCCB | |
| CCBOFSC_PremiseType | CreateUpdate_Activity_CCBToOFSC | Translates the Oracle Utilities Customer Care and Billing Premise type to Oracle Field Service Cloud. |
| OFSCCCB_TimeZone | Complete_Activity_OFSCToCCB | Used to maintain the Oracle Field Service Cloud time zones and their offsets. |

| Lookup Name | Integration Name | Purpose |
|--------------------------------|-----------------------------------|---|
| CCBOFSC_ServiceWarnings | Complete_Activity_OFSToCCB | Translates the Oracle Utilities Customer Care and Billing Service warnings to Oracle Field Service Cloud service Warnings and vice versa. |
| | CreateUpdate_Activity_CCBToOFSC | |
| OFSCCCB_DeviceStatus | Complete_Activity_OFSToCCB | Translates the Oracle Field Service Cloud device status to Oracle Utilities Customer Care and Billing. |
| OFSCCCB_ReadType | Complete_Activity_OFSToCCB | Translates the Oracle Field Service Cloud read type to Oracle Utilities Customer Care and Billing. |
| CCBOFSC_MeterConfigurationType | CreateUpdate_Activity_CCBToOFSC | Translates the Oracle Utilities Customer Care and Billing configuration type to Oracle Field Service Cloud and vice versa. |
| | Complete_Activity_OFSToCCB | |
| | Device_Verification_OFSC ToCCB | |
| CCBOFSC_UOM | Complete_Activity_OFSToCCB | Translates the Oracle Utilities Customer Care and Billing Unit Of Measure to Oracle Field Service Cloud and vice versa. |
| | Device_Verification_OFSC ToCCB | |
| CCBOFSC_TOU | Complete_Activity_OFSToCCB | Translates the Oracle Utilities Customer Care and Billing TimeOfUse to Oracle Field Service Cloud and vice versa. |
| | Device_Verification_OFSC ToCCB | |

Editing Lookups

To edit a lookup to add or update any value in it:

1. Login to Oracle Integration for Cloud.
2. Navigate to **Integrations > Designer > Lookups**.
3. Click the look up to edit.
4. Make the necessary changes.
5. Click **Save and Close**.

Note: While editing a lookup, if the changes are not reflected during the runtime, make sure to deactivate and activate the integration that is using the edited DVM for the changes to reflect. Refer to the [Activating Integration Flows](#) section for more details.

Configuration Properties

CCBOFSC_ConfigProps.dvm contains the properties that can be defaulted in the integration. It also contains a flag to enable email notifications.

| Property Name | Sample Value | Description | Used in Integration Process Name |
|-------------------|--------------|--|---|
| send.email.flag | true/false | Used to configure optional email notification. If the value is set to true, email notification will be sent to the configured users. | All |
| ofsc.bucket | OHMeter | Used to configure the bucket name available in Oracle Field Service Cloud to assign the tasks. | CreateUpdate_Activity_CCBToOFSC |
| ccb.system.id | CCB | Used to define Oracle Utilities Customer Care and Billing product code. | CreateUpdate_Activity_CCBToOFSC Create_Activity_OFSTOCCB |
| ofsc.system.id | OFSC | Used to define the Oracle Field Service Cloud product code. | Create_Activity_OFSTOCCB |
| ccb.offset | -8.00 | Used to provide offset for Oracle Utilities Customer Care and Billing timezone. | CreateUpdate_Activity_CCBToOFSC Complete_Activity_OFSTOCCB |
| ofsc.offset | -5.00 | Used to provide offset for Oracle Field Service Cloud bucket timezone. | CreateUpdate_Activity_CCBToOFSC |
| ccb.dispatchgroup | AIADSPGR | Used to define your organization's dispatch group. This must match the dispatch group defined in Oracle Utilities Customer Care and Billing. | Create_Activity_OFSTOCCB |
| ccb.readsource | FWI | Used to define the source of the read | Complete_Activity_OFSTOCCB |

Error Handling

This section provides information about the different ways used to handle errors in the integration and also resubmitting the instances after rectifying the errors.

- [Error Handling Ways](#)
- [Resubmitting the Error Instances in Oracle Integration Cloud](#)

Error Handling Ways

In this integration, the errors are handled in different ways in Oracle Integration Cloud.

- [Synchronous Flow Error Handling](#)
- [Asynchronous Flow Error Handling](#)

Synchronous Flow Error Handling

As part of this error handler the errors are sent back to the respective source system in the same flow.

Technical Fault

This fault occurs when there is a data mismatch in DVM or any Xpath related error. On this error, the flow immediately goes to global fault handler and the fault is sent back to the respective system.

Remote Fault

This fault occurs when there is a connectivity issue. For example, the target system is down. When this error occurs the flow immediately goes to global fault handler and the fault is sent back to the respective system.

Business Fault

This fault occurs only when the error occurs in the target system due to invalid data. When this error occurs the fault is thrown to the respective source system.

Asynchronous Flow Error Handling

Technical Fault

This fault occurs when there is a data mismatch in DVM or any Xpath related error. When this error occurs, the flow immediately goes to global fault handler and an optional email to the respective user is sent.

Remote Fault

This fault occurs when the target system is down. When this error occurs, the flow immediately goes to global fault handler and an optional email is sent to the respective user.

Business Fault

This fault occurs only when the business fault occurs in the target system due to invalid data. When this error occurs the flow immediately goes to global fault handler and an optional email is sent to the respective user.

Resubmitting the Error Instances in Oracle Integration Cloud

In this integration, the flows initiated by Oracle Field Service Cloud are asynchronous flows, and the resubmit option is available only for asynchronous flows.

To resubmit the error instances in Oracle Integration Cloud:

1. Login to Oracle Integration Cloud.
2. Navigate to **Integrations > Monitoring > Errors**.
3. Select the integration to resubmit.
4. Click the **Resubmit** icon.

Email Notifications

This pre-built integration includes a configurable email notification.

To receive an email notification:

1. Login to Oracle Integration Cloud.
2. Navigate to **Integrations > Designer > Lookups**.
3. Edit the **CCBOFSC_ConfigProps** look up.
 - a. Change the **send.email.flag** property value to ‘true’.
4. Edit the **CCBOFSC_Email_ID** look up.
 - a. In the **from** field, enter the email ID to receive an email from.
 - b. In the **to** field, enter the email ID to send the email to.
 - c. In the **Email_Id** field, provide the comma separated email IDs.

Note: In the CCBOFSC_Email_ID lookup, do not edit the values provided under the **Recipient** column.

Chapter 7

Extension Libraries in Oracle Integration Cloud

The extension libraries provide a means to register and organize JavaScript for use in integrations. Library functions are automatically available for you to drag from the **Actions** palette to your orchestration integrations.

This integration includes the following extension libraries.

| Extension Library | Function | Description | Used in Integration Process |
|--------------------------------|--------------------------------|---|---|
| Address | addressFormat | Used to concatenate all address fields from Oracle Utilities Customer Care and Billing and map it to single address field in Oracle Field Service Cloud. | CreateUpdate_Activity_CCBToOFSC |
| CCBOFSC_DateTimeZoneConversion | CCBOFSC_DateTimeZoneConversion | Used to convert datetime value from one time zone to another timezone. | CreateUpdate_Activity_CCBToOFSC Complete_Activity_OFSCToCCB Create_Activity_OFSCToCCB |
| CCBOFSCApptTimeSlots | CCBOFSC_Appt_StartTime | Derives the start datetime value in XSD datetime format based on the values from Oracle Field Service Cloud input and the values configured in OIC lookups. | Get_Appointment_CCBToOFSC |
| CCBOFSCApptTimeSlots | CCBOFSC_Appt_EndTime | Derive the end datetime value in XSD datetime format based on the values from Oracle Field Service Cloud input and the values configured in OIC lookups. | Get_Appointment_CCBToOFSC |

The same extension libraries can be accessed from the **Libraries** page in Oracle Integration Cloud.

For more information regarding extension libraries refer to the Oracle Integration Cloud documentation at <https://docs.oracle.com/en/cloud/paas/integration-cloud-service/icsug/using-libraries-manage-functions-integrations.html>.

Chapter 8

Customizations

This chapter describes options for customizing the integration to meet specific business requirements, including:

- [Adding New Mappings](#)

Adding New Mappings

To add a new mapping for custom elements created in the Oracle Integration Cloud application schema, the pre-built integration provides a customization template for all the integration flows.

This section provides the steps to add a new mapping using the import xsl.

To map any custom elements, add the extra element in both the source and target schema.

In this integration, Oracle Utilities Customer Care and Billing is the source and Oracle Field Service Cloud is the target.

To add custom mappings in Oracle Integration Cloud layer:

1. Login to Oracle Integration Cloud.
2. Identify the integration to add custom mappings.
3. Export the respective integration from Oracle Integration Cloud to your local machine.
4. Unzip the .iar file and identify the mapping/xsl file in which the custom mappings have to be added.
5. This integration has all mappers as import xsls. To add any new mapping, edit the respective mapper/xsl file.

Note: Mappings cannot be added using the Mapper Design view.

6. In all integration mappings, a template is added under every complex element. Any custom elements under that complex element can be added directly in the template provided.
7. Add the mapping under the respective customization template. Save the changes.
8. In Oracle Integration Cloud, click the integration to add the mapping for an extra element, and then select the respective map activity.
9. Click **Import** and upload the updated mapper/xsl file.
10. Save and close and activate the integration to reflect the custom mappings.

Following is the list of integrations and the respective mappers/xsls with customization templates defined.

Every integration process (.iar) file has a folder structure after exporting and unzipping it. Mappers/xsls are found under the **Resources** folder.

For example:

```
<integration_process_identifier_name>\icspackage\project\<integration_process_iden  
tifier_name>\resources\<processor_xxx>\<resourcegroup_xxx>\<req_xxx.xsl>
```

| Integration process folder path/ mapping name | XSL file relative path |
|---|------------------------|
| CREATEUPDATE_ACTIVITY_CCBT OOFSC_01.00.0000\icspackage\project\ CREATEUPDATE_ACTIVITY_CCBT OOFSC_01.00.0000\resources\ | |

| Integration process folder path/ mapping name | XSL file relative path |
|---|--|
| Request mapping | processor_498\resourcegroup_501\req_6e21ce b5522142739d746a495b257f99.xsl |
| Business fault | processor_640\resourcegroup_643\req_c9e77fc 916d947728ed47c196f551994.xsl |
| Business fault when OFSC activity is in final state | processor_645\resourcegroup_648\req_7da1cd 10a1b4400d85ca7cf721009b3f.xsl |
| Response mapping | processor_573\resourcegroup_576\req_6f07ad 5053cd4866ab3a170a4d5648c7.xsl |
| Remote fault | processor_197\resourcegroup_200\req_3ab49d 6f09b9493db74f036932dd6568.xsl |
| Sublangauge execution fault | processor_202\resourcegroup_205\req_5bbbb6 ae0ed04687809da282320ade85.xsl |
| Unhandled faults | processor_207\resourcegroup_210\req_41b929 3cd9904f33af9d758d8e7c8622.xsl |
| GET_APPOINTMENT_CCBTOOFSC_ 01.00.0000\icspackage\project\GET_AP POINTMENT_CCBTOOFSC_01.00.000 0\resources\ | |
| Request mapping | processor_46\resourcegroup_49\req_72e08f41f 2e34c97a817c33dc7937d1d.xsl |
| Response mapping | processor_51\resourcegroup_54\req_7496a9fb 1ea74c35abecd817a1f5b4a9.xsl |
| Business Fault | processor_198\resourcegroup_201\req_a1f6e7a f41d245da829cdd49c4ce9beb.xsl |
| Remote fault | processor_203\resourcegroup_206\req_0240ab 6161a64c60a0d9a126f1f933b0.xsl |
| Sublangauge execution fault | processor_208\resourcegroup_211\req_a72e88 28d6dc444fa4d9fbf442260b28.xsl |
| Unhandled faults | processor_213\resourcegroup_216\req_909e24 62e3b04d9dbbc4f24860a75e7a.xsl |
| CANCEL_ACTIVITY_CCBTOOFSC_0 1.00.0000\icspackage\project\CANCEL_ ACTIVITY_CCBTOOFSC_01.00.0000\r esources\ | |
| Request mapping | processor_37\resourcegroup_40\req_a122c791 382a465fa27b52274869c19d.xsl |
| Response mapping | processor_20\resourcegroup_23\req_ecde23ee 5d59454b883bf3ccb5e4c78c.xsl |
| Business fault | processor_58\resourcegroup_61\req_4ab13098 ee4d44f8bf67ba9421bcf857.xsl |

| Integration process folder path/ mapping name | XSL file relative path |
|---|--|
| Business fault when OFSC activity is in final state | processor_381\resourcegroup_384\req_3ccb36f3abfd494797c2e7842e0602d8.xsl |
| Remote Fault | processor_136\resourcegroup_139\req_face4cc92f46e199a021843b1b66cf.xsl |
| Sublanguage execution fault | processor_171\resourcegroup_174\req_239b5d7fd689497fac99b03a952c249d.xsl |
| Unhandled faults | processor_176\resourcegroup_179\req_166f43ebea0a4bfd9f9ef8d57f551fe1.xsl |
| SEND_ACTIVITYSTATUS_OFSCTOC CB_01.00.0000\icspackage\project\SEN D_ACTIVITYSTATUS_OFSCTOCCB_ 01.00.0000\resources\ | |
| Request mapping | processor_27\resourcegroup_30\req_57844054883c441a831e6a30d50a7e5f.xsl |
| COMPLETE_ACTIVITY_OFSCTOCC B_01.00.0000\icspackage\project\COMP LETE_ACTIVITY_OFSCTOCCB_01.00. .0000\resources\ | |
| Request mapping | processor_305\resourcegroup_308\req_0a6a5d3849ed4e3484f158fa8855c135.xsl |
| CREATE_ACTIVITY_OFSCTOCCB_0 1.00.0000\icspackage\project\CREATE_ ACTIVITY_OFSCTOCCB_01.00.0000\r esources\ | |
| Request mapping | processor_98\resourcegroup_101\req_e8e545d3e9ca45f8add58fcfd4c94973.xsl |
| DEVICE_VERIFICATION_OFSCTOC CB_01.00.0000\icspackage\project\DEV ICE_VERIFICATION_OFSCTOCCB_0 1.00.0000\resources\ | |
| Request mapping | processor_36\resourcegroup_39\req_971cbcfc636147c8b068427f05a6e323.xsl |
| Response mapping | processor_19\resourcegroup_22\req_07c1225bbce74a2993ba952652e25d89.xsl |

Chapter 9

Activating and Testing the Integration Flows

This chapter provides an overview of how integration flows are activated and tested. It includes the following sections:

- [Prerequisites](#)
- [Activating Integration Flows](#)
- [Testing the Integration Flows](#)

Prerequisites

Make sure the catalog in Oracle Utilities Customer Care and Billing is configured completely to activate an integration process.

Activating Integration Flows

To activate the integration flows:

1. Navigate to the integration to activate.
2. Drag the slider for that integration. When prompted to enable tracing, click **Yes** to view the instances.
3. Click **Activate**.

The integration takes time to get activated. The activated integration appears at the top of the integrations list.

Testing the Integration Flows

The following table lists the integration end point URLs and the respective applications in which these endpoints need to be configured. Configure the same and perform end-to-end testing.

| Integration Name | End Point URL to be Configured | Application to be Configured |
|---------------------------------|---|---|
| CreateUpdate_Activity_CCBToOFSC | https://OIC_Host:OIC_Port/ic/ws/integration/v1/flows/oracleutilities/CREATEUPDATE_ACTIVITY_CCBTOOFSC/1.0 | CCB |
| Create_Activity_OFSCToCCB | https://OIC_Host:OIC_Port/ic/api/integration/v1/flows/ofsccloudadapter/CREATE_ACTIVITY_OFSCTOCCB/1.0/notify | As OFSC is event based, there is no need to configure the integration endpoint URLs. Subscription for the event will be created once the respective integration is activated. |
| Complete_Activity_OFSCToCCB | https://OIC_Host:OIC_Port/ic/api/integration/v1/flows/ofsccloudadapter/COMPLETE_ACTIVITY_OFSCTOCCB/1.0/Notify | As OFSC is event based, there is no need to configure the integration endpoint URLs. Subscription for the event will be created once the respective integration is activated. |
| Get_Appointment_CCBToOFSC | https://OIC_Host:OIC_Port/ic/ws/integration/v1/flows/oracleutilities/GET_APPOINTMENT_CCBTOOFSC/1.0/ | CCB |

| Integration Name | End Point URL to be Configured | Application to be Configured |
|-------------------------------|---|---|
| Send_ActivityStatus_OFSCToCCB | https://OIC_Host:OIC_Port/ic/ws/integration/v1/flows/oracleutilities/SEND_ACTIVITYSTATUS_OFSCTOCCB/1.0/ | As OFSC is event based, there is no need to configure the integration endpoint URLs. Subscription for the event will be created once the respective integration is activated. |
| Device_Verification_OFSCToCCB | https://OIC_Host:OIC_Port/ic/api/integration/v1/flows/rest/DEVICE_VERIFICATION_OFSCTOCCB/1.0/ | OFSC |
| Cancel_Activity_CCBToOFSC | https://OIC_Host:OIC_Port/ic/api/integration/v1/flows/rest/CANCEL_ACTIVITY_CCBTOOFSC/1.0/ | CCB |

Chapter 10

Monitoring and Troubleshooting

This chapter provides information about monitoring and troubleshooting the integration. It includes the following sections:

- [Oracle Utilities Customer Care and Billing](#)
- [Oracle Integration Cloud](#)

Oracle Utilities Customer Care and Billing

This section provides information about monitoring Oracle Utilities Customer Care and Billing.

Oracle Utilities Customer Care and Billing Error Logs

Monitoring the error logs is possible only in on-premises applications. Applications on cloud cannot access the error logs.

The following error logs can be monitored for Oracle Utilities Customer Care and Billing:

- Errors related to the online integration invocation from Oracle Utilities Customer Care and Billing are stored in the CCB_ENVIRONMENT_NAME/logs/system folder.

For example: V27_CCB_ORA_WLS/logs/system\

For more information about errors and notifications, see the Oracle Utilities Customer Care and Billing documentation.

Oracle Integration Cloud

This section focuses on the monitoring Oracle Integration Cloud and troubleshooting any issues that occur during the integration activation.

Monitoring Integration Flows

Integration flows are monitored using the following:

- Dashboard
- Cloud Logs

To monitor the integration flows from the Oracle Integration Cloud dashboard:

1. Login to Oracle Integration Cloud.
2. On the **Home** page, click **Monitoring**.
3. Select any of the following as required:
 - **Dashboards** - To monitor the complete dashboard of integration.
 - **Integrations** - To monitor each integration.
 - **Tracking** - To monitor instance and flow trace/activity stream of the integration.
 - **Error** - To monitor the integrations in ‘error’ state. Re-submit the asynchronous integration flows.

To monitor the integration flows using Oracle Integration Cloud logs:

1. Login to Oracle Integration Cloud.
2. On the **Home** page, click **Monitoring**.

3. On the navigation pane, click **Dashboards** to view the overall success/failure rate of the integration.
4. Navigate to the **Logs** menu.
5. In the right pane, click the link to show options for downloading the Oracle Integration Cloud logs or diagnostics logs.
6. In case of any issues, attach the diagnostic logs to a service request for help.

Troubleshooting

If an activation fails, the **Integrations** page displays an error message.

To troubleshoot the activation error:

1. Click **Download Diagnostic Logs** to download the logs for diagnosing the issue.
2. Select **Enable Tracing**.

TRACE ENABLED is displayed next to ACTIVE.

Some of the sample cases are as follows:

- For any connectivity errors while activating the integration, make sure the trigger connection is successful. Test the connection and refresh the metadata, and then activate the integration.
- If the integration (Oracle Utilities Customer Care and Billing initiated flows) is activated for the first time, ensure the Oracle Utilities Customer Care and Billing catalog is configured accurately.

Appendix A

Known Issues

This appendix focuses on the known issues in this integration and in the respective applications.

- [Oracle Field Service Cloud](#)
- [Oracle Utilities Customer Care and Billing](#)

Oracle Field Service Cloud

While trying to update the datetime from Oracle Utilities Customer Care and Billing after moving an activity to a resource in Oracle Field Service Cloud, the activity is still with the resource and not moved to the bucket. It should be moved back to the bucket and is a known limitation in this integration.

Oracle Utilities Customer Care and Billing

The known issues pertaining to Oracle Utilities Customer Care and Billing in this integration are:

- The appointment time slots are returned only for “From” and “To” dates specified in Oracle Utilities Customer Care and Billing Appointment Request.
- The Oracle Utilities Customer Care and Billing field activity cannot be canceled when the reopened activity in Oracle Field Service Cloud is in “pending” status.
- While rescheduling a canceled appointment in the **Appointment Booking** page, the expected result should be “No update is sent to the external system”. But, the actual result is “FA sync request is created”.
- The read sequence in the Reading details page is not in proper order in the message sent to Field work system as part of device verification.

Appendix B

Data Mapping

This appendix provides mapping details for each integration point, including the following:

- [Activity Completion](#)
- [Activity Creation](#)
- [Cancel Activity](#)
- [Create/Update Activity](#)
- [Device Verification](#)
- [Get Appointment](#)
- [Interim Status](#)

Activity Completion

This section describes data mapping for the following:

- [Activity ID Mapping](#)
- [Activity Completion Request Mapping](#)

Activity ID Mapping

Activity ID mapping details for Activity Completion/Cancellation integration point are as shown in the table below:

| Oracle Field Service Cloud Complete Request Message | | | Oracle Field Service Cloud Get Activity Request Message | | | DVM Mapping | |
|---|-----------------|--------|---|----------------|--------|--|-----------------------------------|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | Oracle Utilities Service Order Management Column | Oracle Field Service Cloud Column |
| events.definitions.activityEvent | | | TemplateParameters | | | | |
| activityId | activityDetails | String | activityId | | String | | |

Activity Completion Request Mapping

The Activity Completion Request Mapping details for Activity Completion/Cancellation integration point are as shown in the table below:

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | DVM Mapping | | |
|--|----------------|------|--|-----------------|-----------|-------------|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
| | | | C1FACCompletionFieldWork | | | | | |
| | | | C1FACCompletionExtSysStruct | C1FACCompletion | FieldWork | | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | | DVM Mapping | | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
|---|--|--------|--|--|--------|--------------------------|-----------------------|------------|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | | | | |
| | | | C1FACCompletion ExtSysStructService | C1FACCompletion ExtSysStruct | | | | | | |
| activities.definitions. getActivitySchema | | | C1FACCompletion ExtSysStructDetails | C1FACCompletion ExtSysStructService | | | | | | |
| “OFSC Status is Cancel hard code” “CANC” OFSC Status is Notdone hard code “UPLG” | | | FACompletionAction | C1FACCompletion ExtSysStructDetails | | String | | | | |
| apptNumber | activities.definitions. getActivitySchema | String | UploadFieldActivity ID | C1FACCompletion ExtSysStructDetails | | String | | | | |
| | | | UploadStatus | C1FACCompletion ExtSysStructDetails | | String | | | | |
| resourceId | activities.definitions. getActivitySchema | String | Workedby | C1FACCompletion ExtSysStructDetails | | String | | | | |
| | | | FieldActivityID | C1FACCompletion ExtSysStructDetails | | String | | | | |
| endTime | activities.definitions. getActivitySchema | String | WorkDateTime | C1FACCompletion ExtSysStructDetails | | dateTime | | | | |
| | | | Version | C1FACCompletion ExtSysStructDetails | | decimal | | | | |
| | | | LongDescription | C1FACCompletion ExtSysStructDetails | | String | | | | |
| activityType | activities.definitions. getActivitySchema | String | ExtFaTypeCode | C1FACCompletion ExtSysStructDetails | String | CCBOFSC_ ActivityType | OFSC_ ActivityType | CCB_FAType | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | | DVM Mapping | |
|--|--|-------------|--|------------------------------------|---------|----------------------------|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
| | | | ExternalApplicationId | C1FACCompletionExtSysStructDetails | String | | | |
| | | | SPType | C1FACCompletionExtSysStructDetails | String | | | |
| | | | ServicePointStatus | C1FACCompletionExtSysStructDetails | String | | | |
| | | | InstallDate | C1FACCompletionExtSysStructDetails | date | | | |
| | | | AbolishedDate | C1FACCompletionExtSysStructDetails | date | | | |
| | | | ServicePointSourceStatus | C1FACCompletionExtSysStructDetails | String | | | |
| u_disconnect_location | activities.definitions.getActivitySchema | enumeration | DisconnectLocation | C1FACCompletionExtSysStructDetails | String | CCBOFSC_DisconnectLocation | OFSC_DisLoc | CCB_DiscLoc |
| | | | ReadCycle | C1FACCompletionExtSysStructDetails | String | | | |
| | | | ReadRoute | C1FACCompletionExtSysStructDetails | String | | | |
| | | | ReadCycleRouteSequence | C1FACCompletionExtSysStructDetails | decimal | | | |
| | | | MeterLocation | C1FACCompletionExtSysStructDetails | String | | | |
| | | | LocationDetails | C1FACCompletionExtSysStructDetails | String | | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | | DVM Mapping | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
|--|--|-------------|--|--|------|-------------------|-------------|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | | | |
| | | | LocationDetails | C1FACCompletion ExtSysStructDetails | | String | | | |
| u_not_done_code | activities.definitions. getActivitySchema | enumeration | ExtMsgRecd | C1FACCompletion ExtSysStructDetails | | String | | | |
| | | | FAUploadRemarks | C1FACCompletion ExtSysStructDetails | | Complex Type | | | |
| | | | FAUploadRemarks Row | FAUploadRemarks | | Complex List Type | | | |
| | | | FieldActivityID | FAUploadRemarks Row | | String | | | |
| | | | FieldActivityRemark | FAUploadRemarks Row | | String | | | |
| | | | Version | FAUploadRemarks Row | | decimal | | | |
| | | | MeterInfo | C1FACCompletion ExtSysStructDetails | | Complex Type | | | |
| | | | MeterInfoRow | MeterInfo | | Complex List Type | | | |
| | | | MeterType | MeterInfoRow | | String | | | |
| | | | MeterStatus | MeterInfoRow | | String | | | |
| | | | Manufacturer | MeterInfoRow | | String | | | |
| | | | Model | MeterInfoRow | | String | | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | | DVM Mapping | |
|--|--|-------------|--|----------------|----------|----------------------|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
| u_meter1_number | activities.definitions.getActivitySchema | String | BadgeNumber | MeterInfoRow | String | | | |
| | | | SerialNumber | MeterInfoRow | String | | | |
| u_status_left | activities.definitions.getActivitySchema | enumeration | OnOffStatus | MeterInfoRow | String | OFSCCCB_DeviceStatus | OFSC_DeviceStatus | CCB_DeviceStatus |
| | | | DateReceived | MeterInfoRow | date | | | |
| | | | DateRetired | MeterInfoRow | date | | | |
| | | | LongDescription | MeterInfoRow | String | | | |
| | | | RetireReasonCode | MeterInfoRow | String | | | |
| | | | StockLocation | MeterInfoRow | String | | | |
| | | | InstallRemove MeterorItem | MeterInfoRow | String | | | |
| | | | MeterConfiguration EffectiveDateTime | MeterInfoRow | dateTime | | | |
| | | | MeterConfiguration Type | MeterInfoRow | String | | | |
| u_read_date_time | activities.definitions.getActivitySchema | String | ReadDateTime | MeterInfoRow | dateTime | OFSC_TimeZone | TimeZone | Offset |
| u_use_on_bill | activities.definitions.getActivitySchema | | UseOnBill | MeterInfoRow | boolean | | | |
| | | | MeterReadSource | MeterInfoRow | String | | | |
| | | | MeterReader | MeterInfoRow | String | | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | | DVM Mapping | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
|--|--|-------------------------|--|----------------|-------------------|-----|-------------|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | | | |
| | | DateReceived | MeterInfoRow | | date | | | | |
| | | Registers | MeterInfoRow | | Complex Type | | | | |
| | | RegistersRow | Registers | | Complex List Type | | | | |
| | | RegisterID | RegistersRow | | String | | | | |
| | | MeterID | RegistersRow | | String | | | | |
| | | EffectiveDateTime | RegistersRow | | dateTime | | | | |
| | | DateReceived | RegistersRow | | date | | | | |
| u_existing_meter_read_seq | activities.definitions.getActivitySchema | Integer | Seq | RegistersRow | decimal | | | | |
| u_existing_meter_uom | activities.definitions.getActivitySchema | String | UnitofMeasure | RegistersRow | String | | | | |
| u_existing_meter_TOU | activities.definitions.getActivitySchema | String | TimeofUse | RegistersRow | String | | | | |
| | | RegisterConstant | RegistersRow | | decimal | | | | |
| | | Consumptive Subtractive | RegistersRow | | String | | | | |
| | | HowToUse | RegistersRow | | String | | | | |
| | | NumberofDigitsLeft | RegistersRow | | decimal | | | | |
| | | NumberofDigitsRight | RegistersRow | | decimal | | | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | | DVM Mapping | |
|--|----------------|---------------------------|--|----------------|----------|-----|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
| | | FullScale | RegistersRow | | decimal | | | |
| | | ReadOutType | RegistersRow | | String | | | |
| | | Protocol | RegistersRow | | Protocol | | | |
| | | Tolerance | RegistersRow | | decimal | | | |
| | | Version | RegistersRow | | decimal | | | |
| | | ChannelID | RegistersRow | | String | | | |
| | | IntervalRegisterType | RegistersRow | | String | | | |
| | | UnitofMeasure Description | RegistersRow | | String | | | |
| | | TimeofUse Description | RegistersRow | | String | | | |
| | | IntvDescription | RegistersRow | | String | | | |
| | | Interval | RegistersRow | | boolean | | | |
| | | RegistryType | RegistersRow | | String | | | |
| | | RegisterInformation | RegistersRow | | String | | | |
| | | ProtocolDescription | RegistersRow | | String | | | |
| | | ReadOutType Description | RegistersRow | | String | | | |
| | | RegisterID | RegistersRow | | String | | | |
| | | MeterID | RegistersRow | | String | | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | | DVM Mapping | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
|--|--|---------|--|----------------|----------|-----|-------------|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | | | |
| | | | EffectiveDateTime | RegistersRow | dateTime | | | | |
| | | | DateReceived | RegistersRow | date | | | | |
| u_existing_meter_read_seq2 | activities.definitions.getActivitySchema | Integer | Seq | RegistersRow | decimal | | | | |
| u_existing_meter_uom2 | activities.definitions.getActivitySchema | String | UnitofMeasure | RegistersRow | String | | | | |
| u_existing_meter_TOU2 | activities.definitions.getActivitySchema | String | TimeofUse | RegistersRow | String | | | | |
| | | | RegisterConstant | RegistersRow | decimal | | | | |
| | | | Consumptive Subtractive | RegistersRow | String | | | | |
| | | | HowToUse | RegistersRow | String | | | | |
| | | | NumberofDigitsLeft | RegistersRow | decimal | | | | |
| | | | NumberofDigitsRight | RegistersRow | decimal | | | | |
| | | | FullScale | RegistersRow | decimal | | | | |
| | | | ReadOutType | RegistersRow | String | | | | |
| | | | Protocol | RegistersRow | Protocol | | | | |
| | | | Tolerance | RegistersRow | decimal | | | | |
| | | | Version | RegistersRow | decimal | | | | |
| | | | ChannelID | RegistersRow | String | | | | |
| | | | IntervalRegisterType | RegistersRow | String | | | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | DVM Mapping | | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
|--|---|---------|--|----------------|----------|-------------|--|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | | | |
| | | | UnitofMeasureDescription | RegistersRow | String | | | | |
| | | | TimeofUseDescription | RegistersRow | String | | | | |
| | | | IntvDescription | RegistersRow | String | | | | |
| | | | Interval | RegistersRow | boolean | | | | |
| | | | RegistryType | RegistersRow | String | | | | |
| | | | RegisterInformation | RegistersRow | String | | | | |
| | | | ProtocolDescription | RegistersRow | String | | | | |
| | | | ReadOutTypeDescription | RegistersRow | String | | | | |
| | | | RegisterID | RegistersRow | String | | | | |
| | | | MeterID | RegistersRow | String | | | | |
| | | | EffectiveDateTime | RegistersRow | dateTime | | | | |
| | | | DateReceived | RegistersRow | date | | | | |
| u_existing_meter_read_seq3 | activitiesdefinitions.getActivitySchema | Integer | Seq | RegistersRow | decimal | | | | |
| u_existing_meter_uom3 | activitiesdefinitions.getActivitySchema | String | UnitofMeasure | RegistersRow | String | | | | |
| u_existing_meter_TOU3 | activitiesdefinitions.getActivitySchema | String | TimeofUse | RegistersRow | String | | | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | | DVM Mapping | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
|--|----------------|------------------------------|--|----------------|----------|-----|-------------|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | | | |
| | | RegisterConstant | RegistersRow | | decimal | | | | |
| | | Consumptive Subtractive | RegistersRow | | String | | | | |
| | | HowToUse | RegistersRow | | String | | | | |
| | | NumberofDigitsLeft | RegistersRow | | decimal | | | | |
| | | NumberofDigitsRight | RegistersRow | | decimal | | | | |
| | | FullScale | RegistersRow | | decimal | | | | |
| | | ReadOutType | RegistersRow | | String | | | | |
| | | Protocol | RegistersRow | | Protocol | | | | |
| | | Tolerance | RegistersRow | | decimal | | | | |
| | | Version | RegistersRow | | decimal | | | | |
| | | ChannelID | RegistersRow | | String | | | | |
| | | IntervalRegisterType | RegistersRow | | String | | | | |
| | | UnitofMeasure Description | RegistersRow | | String | | | | |
| | | TimeofUse Description | RegistersRow | | String | | | | |
| | | IntvDescription | RegistersRow | | String | | | | |
| | | Interval | RegistersRow | | boolean | | | | |
| | | RegistryType | RegistersRow | | String | | | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | | DVM Mapping | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
|--|---|---------|--|----------------|----------|-----|-------------|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | | | |
| | | | RegisterInformation | RegistersRow | String | | | | |
| | | | ProtocolDescription | RegistersRow | String | | | | |
| | | | ReadOutType Description | RegistersRow | String | | | | |
| | | | RegisterID | RegistersRow | String | | | | |
| | | | MeterID | RegistersRow | String | | | | |
| | | | EffectiveDateTime | RegistersRow | dateTime | | | | |
| | | | DateReceived | RegistersRow | date | | | | |
| u_existing_meter_read_seq4 | activitiesdefinitions. getActivitySchema | Integer | Seq | RegistersRow | decimal | | | | |
| u_existing_meter_uom4 | activitiesdefinitions. getActivitySchema | String | UnitofMeasure | RegistersRow | String | | | | |
| u_existing_meter_TOU4 | activitiesdefinitions. getActivitySchema | String | TimeofUse | RegistersRow | String | | | | |
| | | | RegisterConstant | RegistersRow | decimal | | | | |
| | | | ConsumptiveSubtract ive | RegistersRow | String | | | | |
| | | | HowToUse | RegistersRow | String | | | | |
| | | | NumberofDigitsLeft | RegistersRow | decimal | | | | |
| | | | NumberofDigitsRight | RegistersRow | decimal | | | | |
| | | | FullScale | RegistersRow | decimal | | | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | | DVM Mapping | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
|--|----------------|------------------------------|--|----------------|----------|-----|-------------|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | | | |
| | | ReadOutType | RegistersRow | | String | | | | |
| | | Protocol | RegistersRow | | Protocol | | | | |
| | | Tolerance | RegistersRow | | decimal | | | | |
| | | Version | RegistersRow | | decimal | | | | |
| | | ChannelID | RegistersRow | | String | | | | |
| | | IntervalRegisterType | RegistersRow | | String | | | | |
| | | UnitofMeasure Description | RegistersRow | | String | | | | |
| | | TimeofUse Description | RegistersRow | | String | | | | |
| | | IntvDescription | RegistersRow | | String | | | | |
| | | Interval | RegistersRow | | boolean | | | | |
| | | RegistryType | RegistersRow | | String | | | | |
| | | RegisterInformation | RegistersRow | | String | | | | |
| | | ProtocolDescription | RegistersRow | | String | | | | |
| | | ReadOutType Description | RegistersRow | | String | | | | |
| | | RegisterID | RegistersRow | | String | | | | |
| | | MeterID | RegistersRow | | String | | | | |
| | | EffectiveDateTime | RegistersRow | | dateTime | | | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | DVM Mapping | | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
|--|---|---------|--|----------------|----------|-------------|--|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | | | |
| | | | DateReceived | RegistersRow | date | | | | |
| u_existing_meter_read_seq5 | activitiesdefinitions.getActivitySchema | Integer | Seq | RegistersRow | decimal | | | | |
| u_existing_meter_uom5 | activitiesdefinitions.getActivitySchema | String | UnitofMeasure | RegistersRow | String | | | | |
| u_existing_meter_TOU5 | activitiesdefinitions.getActivitySchema | String | TimeofUse | RegistersRow | String | | | | |
| | | | RegisterConstant | RegistersRow | decimal | | | | |
| | | | Consumptive Subtractive | RegistersRow | String | | | | |
| | | | HowToUse | RegistersRow | String | | | | |
| | | | NumberofDigitsLeft | RegistersRow | decimal | | | | |
| | | | NumberofDigitsRight | RegistersRow | decimal | | | | |
| | | | FullScale | RegistersRow | decimal | | | | |
| | | | ReadOutType | RegistersRow | String | | | | |
| | | | Protocol | RegistersRow | Protocol | | | | |
| | | | Tolerance | RegistersRow | decimal | | | | |
| | | | Version | RegistersRow | decimal | | | | |
| | | | ChannelID | RegistersRow | String | | | | |
| | | | IntervalRegisterType | RegistersRow | String | | | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | | DVM Mapping | |
|--|--|---------|--|--------------------|----------|-----|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
| | | | UnitofMeasureDescription | RegistersRow | String | | | |
| | | | TimeofUseDescription | RegistersRow | String | | | |
| | | | IntvDescription | RegistersRow | String | | | |
| | | | Interval | RegistersRow | boolean | | | |
| | | | RegistryType | RegistersRow | String | | | |
| | | | RegisterInformation | RegistersRow | String | | | |
| | | | ProtocolDescription | RegistersRow | String | | | |
| | | | ReadOutTypeDescription | RegistersRow | String | | | |
| | | | RegisterReading | MeterInfoRow | String | | | |
| | | | RegisterReadingRow | RegisterReading | String | | | |
| | | | RegisterReadingID | RegisterReadingRow | dateTime | | | |
| | | | MeterReadID | RegisterReadingRow | date | | | |
| u_existing_meter_read_seq | activities.definitions.getActivitySchema | Integer | Seq | RegisterReadingRow | decimal | | | |
| | | | RegisterID | RegisterReadingRow | String | | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | | DVM Mapping | |
|--|--|------------------------|--|--------------------|---------|------------------|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
| u_meter_read_type | activities.definitions.getActivitySchema | enumeration | ReadType | RegisterReadingRow | String | OFSCCCB_ReadType | OFSC_ReadType | CCB_ReadType |
| u_existing_meter_current_index | activities.definitions.getActivitySchema | String | RegisterReading | RegisterReadingRow | decimal | | | |
| | | LowLimit | RegisterReadingRow | RegisterReadingRow | decimal | | | |
| | | HighLimit | RegisterReadingRow | RegisterReadingRow | decimal | | | |
| | | ReviewHighLow | RegisterReadingRow | RegisterReadingRow | boolean | | | |
| | | Trended | RegisterReadingRow | RegisterReadingRow | boolean | | | |
| | | Version | RegisterReadingRow | RegisterReadingRow | decimal | | | |
| | | MeterConfigurationID | RegisterReadingRow | RegisterReadingRow | String | | | |
| | | RegisterReadingMessage | RegisterReadingRow | RegisterReadingRow | String | | | |
| | | RegisterInformation | RegisterReadingRow | RegisterReadingRow | String | | | |
| | | PrevRegistryReadInfo | RegisterReadingRow | RegisterReadingRow | String | | | |
| | | PrevMeterreadID | RegisterReadingRow | RegisterReadingRow | String | | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | | DVM Mapping | |
|--|---|-------------|--|---------------------|---------|------------------|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
| | | | ReadOutsideLimit | RegisterReading Row | boolean | | | |
| | | | RegisterReadingID | RegisterReading Row | String | | | |
| | | | MeterReadID | RegisterReading Row | String | | | |
| u_existing_meter_read_seq2 | activitiesdefinitions.getActivitySchema | Integer | Seq | RegisterReading Row | decimal | | | |
| | | | RegisterID | RegisterReading Row | String | | | |
| u_meter_read_type | activitiesdefinitions.getActivitySchema | enumeration | ReadType | RegisterReading Row | String | OFSCCCB_ReadType | OFSC_ReadType | CCB_ReadType |
| u_existing_meter_current_index2 | activitiesdefinitions.getActivitySchema | String | RegisterReading | RegisterReading Row | decimal | | | |
| | | | LowLimit | RegisterReading Row | decimal | | | |
| | | | HighLimit | RegisterReading Row | decimal | | | |
| | | | ReviewHighLow | RegisterReading Row | boolean | | | |
| | | | Trended | RegisterReading Row | boolean | | | |
| | | | Version | RegisterReading Row | decimal | | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | | DVM Mapping | |
|--|---|------------------------|--|--------------------|---------|------------------|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
| | | MeterConfigurationID | RegisterReadingRow | | String | | | |
| | | RegisterReadingMessage | RegisterReadingRow | | String | | | |
| | | RegisterInformation | RegisterReadingRow | | String | | | |
| | | PrevRegistryReadInfo | RegisterReadingRow | | String | | | |
| | | PrevMeterreadID | RegisterReadingRow | | String | | | |
| | | ReadOutsideLimit | RegisterReadingRow | | boolean | | | |
| | | RegisterReadingID | RegisterReadingRow | | String | | | |
| | | MeterReadID | RegisterReadingRow | | String | | | |
| u_existing_meter_read_seq3 | activitiesdefinitions.getActivitySchema | Integer | Seq | RegisterReadingRow | decimal | | | |
| | | | RegisterID | RegisterReadingRow | String | | | |
| u_meter_read_type | activitiesdefinitions.getActivitySchema | enumeration | ReadType | RegisterReadingRow | String | OFSCCCB_ReadType | OFSC_ReadType | CCB_ReadType |
| u_existing_meter_current_index3 | activitiesdefinitions.getActivitySchema | String | RegisterReading | RegisterReadingRow | decimal | | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | | DVM Mapping | |
|--|----------------|-------------------------|--|----------------|---------|-----|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
| | | LowLimit | RegisterReading Row | | decimal | | | |
| | | HighLimit | RegisterReading Row | | decimal | | | |
| | | ReviewHighLow | RegisterReading Row | | boolean | | | |
| | | Trended | RegisterReading Row | | boolean | | | |
| | | Version | RegisterReading Row | | decimal | | | |
| | | MeterConfiguration ID | RegisterReading Row | | String | | | |
| | | RegisterReading Message | RegisterReading Row | | String | | | |
| | | RegisterInformation | RegisterReading Row | | String | | | |
| | | PrevRegistryReadInfo | RegisterReading Row | | String | | | |
| | | PrevMeterreadID | RegisterReading Row | | String | | | |
| | | ReadOutsideLimit | RegisterReading Row | | boolean | | | |
| | | RegisterReadingID | RegisterReading Row | | String | | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | | DVM Mapping | |
|--|---|-------------|--|---------------------|---------|------------------|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
| | | | MeterReadID | RegisterReading Row | String | | | |
| u_existing_meter_read_seq4 | activitiesdefinitions.getActivitySchema | Integer | Seq | RegisterReading Row | decimal | | | |
| | | | RegisterID | RegisterReading Row | String | | | |
| u_meter_read_type | activitiesdefinitions.getActivitySchema | enumeration | ReadType | RegisterReading Row | String | OFSCCCB_ReadType | OFSCCCB_ReadType | CCB_ReadType |
| u_existing_meter_current_index4 | activitiesdefinitions.getActivitySchema | String | RegisterReading | RegisterReading Row | decimal | | | |
| | | | LowLimit | RegisterReading Row | decimal | | | |
| | | | HighLimit | RegisterReading Row | decimal | | | |
| | | | ReviewHighLow | RegisterReading Row | boolean | | | |
| | | | Trended | RegisterReading Row | boolean | | | |
| | | | Version | RegisterReading Row | decimal | | | |
| | | | MeterConfiguration ID | RegisterReading Row | String | | | |
| | | | RegisterReading Message | RegisterReading Row | String | | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | | DVM Mapping | |
|--|---|-------------|--|---------------------|---------|------------------|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
| | | | RegisterInformation | RegisterReading Row | String | | | |
| | | | PrevRegistryReadInfo | RegisterReading Row | String | | | |
| | | | PrevMeterreadID | RegisterReading Row | String | | | |
| | | | ReadOutsideLimit | RegisterReading Row | boolean | | | |
| | | | RegisterReadingID | RegisterReading Row | String | | | |
| | | | MeterReadID | RegisterReading Row | String | | | |
| u_existing_meter_read_seq5 | activitiesdefinitions.getActivitySchema | Integer | Seq | RegisterReading Row | decimal | | | |
| | | | RegisterID | RegisterReading Row | String | | | |
| u_meter_read_type | activitiesdefinitions.getActivitySchema | enumeration | ReadType | RegisterReading Row | String | OFSCCCB_ReadType | OFSC_ReadType | CCB_ReadType |
| u_existing_meter_current_index5 | activitiesdefinitions.getActivitySchema | String | RegisterReading | RegisterReading Row | decimal | | | |
| | | | LowLimit | RegisterReading Row | decimal | | | |
| | | | HighLimit | RegisterReading Row | decimal | | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | | DVM Mapping | |
|--|----------------|------|--|---------------------|-------------------|-----|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
| | | | ReviewHighLow | RegisterReading Row | boolean | | | |
| | | | Trended | RegisterReading Row | boolean | | | |
| | | | Version | RegisterReading Row | decimal | | | |
| | | | MeterConfiguration ID | RegisterReading Row | String | | | |
| | | | RegisterReading Message | RegisterReading Row | String | | | |
| | | | RegisterInformation | RegisterReading Row | String | | | |
| | | | PrevRegistryReadInfo | RegisterReading Row | String | | | |
| | | | PrevMeterreadID | RegisterReading Row | String | | | |
| | | | ReadOutsideLimit | RegisterReading Row | boolean | | | |
| | | | MeterInfoRow | MeterInfo | Complex List Type | | | |
| | | | MeterType | MeterInfoRow | String | | | |
| | | | MeterStatus | MeterInfoRow | String | | | |
| | | | Manufacturer | MeterInfoRow | String | | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | DVM Mapping | | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
|--|--|-------------|--|----------------|----------|----------------------|-------------------|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | | | |
| | | | Model | MeterInfoRow | String | | | | |
| u_meter2_number | activities.definitions.getActivitySchema | String | BadgeNumber | MeterInfoRow | String | | | | |
| | | | SerialNumber | MeterInfoRow | String | | | | |
| u_new_meter_status_left | activities.definitions.getActivitySchema | enumeration | OnOffStatus | MeterInfoRow | String | OFSCCCB_DeviceStatus | OFSC_DeviceStatus | CCB_DeviceStatus | |
| | | | DateReceived | MeterInfoRow | date | | | | |
| | | | DateRetired | MeterInfoRow | date | | | | |
| | | | LongDescription | MeterInfoRow | String | | | | |
| | | | RetireReasonCode | MeterInfoRow | String | | | | |
| | | | StockLocation | MeterInfoRow | String | | | | |
| | | | InstallRemoveMeterBarItem | MeterInfoRow | String | | | | |
| | | | MeterConfigurationEffectiveDateTime | MeterInfoRow | dateTime | | | | |
| | | | MeterConfigurationType | MeterInfoRow | String | | | | |
| u_new_read_date_time | activities.definitions.getActivitySchema | String | ReadDateTime | MeterInfoRow | dateTime | | | | |
| u_use_on_bill | activities.definitions.getActivitySchema | | UseOnBill | MeterInfoRow | boolean | | | | |
| | | | MeterReadSource | MeterInfoRow | String | | | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | | DVM Mapping | |
|--|---|-------------|--|----------------|-------------------|-------------|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
| | | | MeterReader | MeterInfoRow | String | | | |
| | | | DateReceived | MeterInfoRow | date | | | |
| | | | Registers | MeterInfoRow | Complex Type | | | |
| | | | RegistersRow | Registers | Complex List Type | | | |
| | | | RegisterID | RegistersRow | String | | | |
| | | | MeterID | RegistersRow | String | | | |
| | | | EffectiveDateTime | RegistersRow | dateTime | | | |
| | | | DateReceived | RegistersRow | date | | | |
| u_meter1_read_seq | activitiesdefinitions.getActivitySchema | Integer | Seq | RegistersRow | decimal | | | |
| u_meter1_uom | activitiesdefinitions.getActivitySchema | enumeration | UnitofMeasure | RegistersRow | String | CCBOFSC_UOM | OFSC_UOM | CCB_UOM |
| u_meter1_TOU1 | activitiesdefinitions.getActivitySchema | enumeration | TimeofUse | RegistersRow | String | CCBOFSC_TOU | OFSC_TOU | CCB_TOU |
| | | | RegisterConstant | RegistersRow | decimal | | | |
| | | | ConsumptiveSubtractive | RegistersRow | String | | | |
| | | | HowToUse | RegistersRow | String | | | |
| | | | NumberofDigitsLeft | RegistersRow | decimal | | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | | DVM Mapping | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
|--|----------------|------|--|----------------|---------|-----|-------------|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | | | |
| | | | NumberofDigitsRight | RegistersRow | decimal | | | | |
| | | | FullScale | RegistersRow | decimal | | | | |
| | | | ReadOutType | RegistersRow | String | | | | |
| | | | Protocol | RegistersRow | String | | | | |
| | | | Tolerance | RegistersRow | decimal | | | | |
| | | | Version | RegistersRow | decimal | | | | |
| | | | ChannelID | RegistersRow | String | | | | |
| | | | IntervalRegisterType | RegistersRow | String | | | | |
| | | | UnitofMeasure Description | RegistersRow | String | | | | |
| | | | TimeofUse Description | RegistersRow | String | | | | |
| | | | IntvDescription | RegistersRow | String | | | | |
| | | | Interval | RegistersRow | boolean | | | | |
| | | | RegistryType | RegistersRow | String | | | | |
| | | | RegisterInformation | RegistersRow | String | | | | |
| | | | ProtocolDescription | RegistersRow | String | | | | |
| | | | ReadOutTypeDescrip tion | RegistersRow | String | | | | |
| | | | RegisterID | RegistersRow | String | | | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | DVM Mapping | | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
|--|---|-------------|--|----------------|----------|-------------|----------|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | | | |
| | | | MeterID | RegistersRow | String | | | | |
| | | | EffectiveDateTime | RegistersRow | dateTime | | | | |
| | | | DateReceived | RegistersRow | date | | | | |
| u_meter1_read_seq2 | activitiesdefinitions.getActivitySchema | Integer | Seq | RegistersRow | decimal | | | | |
| u_meter1_uom2 | activitiesdefinitions.getActivitySchema | enumeration | UnitofMeasure | RegistersRow | String | CCBOFSC_UOM | OFSC_UOM | CCB_UOM | |
| u_meter1_TOU2 | activitiesdefinitions.getActivitySchema | enumeration | TimeofUse | RegistersRow | String | CCBOFSC_TOU | OFSC_TOU | CCB_TOU | |
| | | | RegisterConstant | RegistersRow | decimal | | | | |
| | | | ConsumptiveSubtractive | RegistersRow | String | | | | |
| | | | HowToUse | RegistersRow | String | | | | |
| | | | NumberofDigitsLeft | RegistersRow | decimal | | | | |
| | | | NumberofDigitsRight | RegistersRow | decimal | | | | |
| | | | FullScale | RegistersRow | decimal | | | | |
| | | | ReadOutType | RegistersRow | String | | | | |
| | | | Protocol | RegistersRow | String | | | | |
| | | | Tolerance | RegistersRow | decimal | | | | |
| | | | Version | RegistersRow | decimal | | | | |
| | | | ChannelID | RegistersRow | String | | | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | DVM Mapping | | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
|--|---|-------------|--|----------------|----------|-------------|----------|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | | | |
| | | | IntervalRegisterType | RegistersRow | String | | | | |
| | | | UnitofMeasureDescription | RegistersRow | String | | | | |
| | | | TimeofUseDescription | RegistersRow | String | | | | |
| | | | IntvDescription | RegistersRow | String | | | | |
| | | | Interval | RegistersRow | boolean | | | | |
| | | | RegistryType | RegistersRow | String | | | | |
| | | | RegisterInformation | RegistersRow | String | | | | |
| | | | ProtocolDescription | RegistersRow | String | | | | |
| | | | ReadOutTypeDescription | RegistersRow | String | | | | |
| | | | RegisterID | RegistersRow | String | | | | |
| | | | MeterID | RegistersRow | String | | | | |
| | | | EffectiveDateTime | RegistersRow | dateTime | | | | |
| | | | DateReceived | RegistersRow | date | | | | |
| u_meter1_read_seq3 | activitiesdefinitions.getActivitySchema | Integer | Seq | RegistersRow | decimal | | | | |
| u_meter1_uom3 | activitiesdefinitions.getActivitySchema | enumeration | UnitofMeasure | RegistersRow | String | CCBOFSC_UOM | OFSC_UOM | CCB_UOM | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | DVM Mapping | | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
|--|--|-------------|--|----------------|---------|-------------|----------|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | | | |
| u_meter1_TOU3 | activities.definitions.getActivitySchema | enumeration | TimeofUse | RegistersRow | String | CCBOFSC_TOU | OFSC_TOU | CCB_TOU | |
| | | | RegisterConstant | RegistersRow | decimal | | | | |
| | | | Consumptive Subtractive | RegistersRow | String | | | | |
| | | | HowToUse | RegistersRow | String | | | | |
| | | | NumberofDigitsLeft | RegistersRow | decimal | | | | |
| | | | NumberofDigitsRight | RegistersRow | decimal | | | | |
| | | | FullScale | RegistersRow | decimal | | | | |
| | | | ReadOutType | RegistersRow | String | | | | |
| | | | Protocol | RegistersRow | String | | | | |
| | | | Tolerance | RegistersRow | decimal | | | | |
| | | | Version | RegistersRow | decimal | | | | |
| | | | ChannelID | RegistersRow | String | | | | |
| | | | IntervalRegisterType | RegistersRow | String | | | | |
| | | | UnitofMeasure Description | RegistersRow | String | | | | |
| | | | TimeofUse Description | RegistersRow | String | | | | |
| | | | IntvDescription | RegistersRow | String | | | | |
| | | | Interval | RegistersRow | boolean | | | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | | DVM Mapping | |
|--|---|-----------------|--|----------------|----------|-------------|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
| | | | RegistryType | RegistersRow | String | | | |
| | | | RegisterInformation | RegistersRow | String | | | |
| | | | ProtocolDescription | RegistersRow | String | | | |
| | | | ReadOutType Description | RegistersRow | String | | | |
| | | | RegisterID | RegistersRow | String | | | |
| | | | MeterID | RegistersRow | String | | | |
| | | | EffectiveDateTime | RegistersRow | dateTime | | | |
| | | | DateReceived | RegistersRow | date | | | |
| u_meter1_read_seq4 | activitiesdefinitions. getActivitySchema | Integer | Seq | RegistersRow | decimal | | | |
| u_meter1_uom4 | activitiesdefinitions. getActivitySchema | enumerat ion | UnitofMeasure | RegistersRow | String | CCBOFSC_UOM | OFSC_UOM | CCB_UOM |
| u_meter1_TOU4 | activitiesdefinitions. getActivitySchema | enumerat ion | TimeofUse | RegistersRow | String | CCBOFSC_TOU | OFSC_TOU | CCB_TOU |
| | | | RegisterConstant | RegistersRow | decimal | | | |
| | | | Consumptive Subtractive | RegistersRow | String | | | |
| | | | HowToUse | RegistersRow | String | | | |
| | | | NumberofDigitsLeft | RegistersRow | decimal | | | |
| | | | NumberofDigitsRight | RegistersRow | decimal | | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | | DVM Mapping | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
|--|----------------|------------------------------|--|----------------|---------|-----|-------------|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | | | |
| | | FullScale | RegistersRow | | decimal | | | | |
| | | ReadOutType | RegistersRow | | String | | | | |
| | | Protocol | RegistersRow | | String | | | | |
| | | Tolerance | RegistersRow | | decimal | | | | |
| | | Version | RegistersRow | | decimal | | | | |
| | | ChannelID | RegistersRow | | String | | | | |
| | | IntervalRegisterType | RegistersRow | | String | | | | |
| | | UnitofMeasure Description | RegistersRow | | String | | | | |
| | | TimeofUse Description | RegistersRow | | String | | | | |
| | | IntvDescription | RegistersRow | | String | | | | |
| | | Interval | RegistersRow | | boolean | | | | |
| | | RegistryType | RegistersRow | | String | | | | |
| | | RegisterInformation | RegistersRow | | String | | | | |
| | | ProtocolDescription | RegistersRow | | String | | | | |
| | | ReadOutType Description | RegistersRow | | String | | | | |
| | | RegisterID | RegistersRow | | String | | | | |
| | | MeterID | RegistersRow | | String | | | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | | DVM Mapping | |
|--|--|-------------|--|----------------|----------|-------------|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
| | | | EffectiveDateTime | RegistersRow | dateTime | | | |
| | | | DateReceived | RegistersRow | date | | | |
| u_meter1_read_seq5 | activities.definitions.getActivitySchema | Integer | Seq | RegistersRow | decimal | | | |
| u_meter1_uom5 | activities.definitions.getActivitySchema | enumeration | UnitofMeasure | RegistersRow | String | CCBOFSC_UOM | OFSC_UOM | CCB_UOM |
| u_meter1_TOU5 | activities.definitions.getActivitySchema | enumeration | TimeofUse | RegistersRow | String | CCBOFSC_TOU | OFSC_TOU | CCB_TOU |
| | | | RegisterConstant | RegistersRow | decimal | | | |
| | | | Consumptive Subtractive | RegistersRow | String | | | |
| | | | HowToUse | RegistersRow | String | | | |
| | | | NumberofDigitsLeft | RegistersRow | decimal | | | |
| | | | NumberofDigitsRight | RegistersRow | decimal | | | |
| | | | FullScale | RegistersRow | decimal | | | |
| | | | ReadOutType | RegistersRow | String | | | |
| | | | Protocol | RegistersRow | String | | | |
| | | | Tolerance | RegistersRow | decimal | | | |
| | | | Version | RegistersRow | decimal | | | |
| | | | ChannelID | RegistersRow | String | | | |
| | | | IntervalRegisterType | RegistersRow | String | | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | | DVM Mapping | |
|--|--|---------|--|--------------------|----------|-----|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
| | | | UnitofMeasureDescription | RegistersRow | String | | | |
| | | | TimeofUseDescription | RegistersRow | String | | | |
| | | | IntvDescription | RegistersRow | String | | | |
| | | | Interval | RegistersRow | boolean | | | |
| | | | RegistryType | RegistersRow | String | | | |
| | | | RegisterInformation | RegistersRow | String | | | |
| | | | ProtocolDescription | RegistersRow | String | | | |
| | | | ReadOutTypeDescription | RegistersRow | String | | | |
| | | | RegisterReading | MeterInfoRow | String | | | |
| | | | RegisterReadingRow | RegisterReading | String | | | |
| | | | RegisterReadingID | RegisterReadingRow | dateTime | | | |
| | | | MeterReadID | RegisterReadingRow | date | | | |
| u_meter1_read_seq | activities.definitions.getActivitySchema | Integer | Seq | RegisterReadingRow | decimal | | | |
| | | | RegisterID | RegisterReadingRow | String | | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | | DVM Mapping | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
|--|--|------------------------|--|--------------------|---------|-----|-------------|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | | | |
| u_new_meter_read_type | activities.definitions.getActivitySchema | enumeration | ReadType | RegisterReadingRow | String | | | | |
| u_meter1_current_index | activities.definitions.getActivitySchema | String | RegisterReading | RegisterReadingRow | decimal | | | | |
| | | LowLimit | RegisterReadingRow | RegisterReadingRow | decimal | | | | |
| | | HighLimit | RegisterReadingRow | RegisterReadingRow | decimal | | | | |
| | | ReviewHighLow | RegisterReadingRow | RegisterReadingRow | boolean | | | | |
| | | Trended | RegisterReadingRow | RegisterReadingRow | boolean | | | | |
| | | Version | RegisterReadingRow | RegisterReadingRow | decimal | | | | |
| | | MeterConfigurationID | RegisterReadingRow | RegisterReadingRow | String | | | | |
| | | RegisterReadingMessage | RegisterReadingRow | RegisterReadingRow | String | | | | |
| | | RegisterInformation | RegisterReadingRow | RegisterReadingRow | String | | | | |
| | | PrevRegistryReadInfo | RegisterReadingRow | RegisterReadingRow | String | | | | |
| | | PrevMeterreadID | RegisterReadingRow | RegisterReadingRow | String | | | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | | DVM Mapping | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
|--|--|-------------|--|---------------------|---------|-----|-------------|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | | | |
| | | | ReadOutsideLimit | RegisterReading Row | boolean | | | | |
| | | | RegisterReadingID | RegisterReading Row | String | | | | |
| | | | MeterReadID | RegisterReading Row | String | | | | |
| u_meter1_read_seq2 | activities.definitions.getActivitySchema | Integer | Seq | RegisterReading Row | decimal | | | | |
| | | | RegisterID | RegisterReading Row | String | | | | |
| u_new_meter_read_type | activities.definitions.getActivitySchema | enumeration | ReadType | RegisterReading Row | String | | | | |
| u_meter1_current_index2 | activities.definitions.getActivitySchema | String | RegisterReading | RegisterReading Row | decimal | | | | |
| | | | LowLimit | RegisterReading Row | decimal | | | | |
| | | | HighLimit | RegisterReading Row | decimal | | | | |
| | | | ReviewHighLow | RegisterReading Row | boolean | | | | |
| | | | Trended | RegisterReading Row | boolean | | | | |
| | | | Version | RegisterReading Row | decimal | | | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | DVM Mapping | | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
|--|---|------------------------|--|--------------------|---------|-------------|--|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | | | |
| | | MeterConfigurationID | RegisterReadingRow | | String | | | | |
| | | RegisterReadingMessage | RegisterReadingRow | | String | | | | |
| | | RegisterInformation | RegisterReadingRow | | String | | | | |
| | | PrevRegistryReadInfo | RegisterReadingRow | | String | | | | |
| | | PrevMeterreadID | RegisterReadingRow | | String | | | | |
| | | ReadOutsideLimit | RegisterReadingRow | | boolean | | | | |
| | | RegisterReadingID | RegisterReadingRow | | String | | | | |
| | | MeterReadID | RegisterReadingRow | | String | | | | |
| u_meter1_read_seq3 | activitiesdefinitions. getActivitySchema | Integer | Seq | RegisterReadingRow | decimal | | | | |
| | | | RegisterID | RegisterReadingRow | String | | | | |
| u_new_meter_read_type | activitiesdefinitions. getActivitySchema | enumeration | ReadType | RegisterReadingRow | String | | | | |
| u_meter1_current_index3 | activitiesdefinitions. getActivitySchema | String | RegisterReading | RegisterReadingRow | decimal | | | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | | DVM Mapping | |
|--|----------------|-------------------------|--|----------------|---------|-----|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
| | | LowLimit | RegisterReading Row | | decimal | | | |
| | | HighLimit | RegisterReading Row | | decimal | | | |
| | | ReviewHighLow | RegisterReading Row | | boolean | | | |
| | | Trended | RegisterReading Row | | boolean | | | |
| | | Version | RegisterReading Row | | decimal | | | |
| | | MeterConfiguration ID | RegisterReading Row | | String | | | |
| | | RegisterReading Message | RegisterReading Row | | String | | | |
| | | RegisterInformation | RegisterReading Row | | String | | | |
| | | PrevRegistryReadInfo | RegisterReading Row | | String | | | |
| | | PrevMeterreadID | RegisterReading Row | | String | | | |
| | | ReadOutsideLimit | RegisterReading Row | | boolean | | | |
| | | RegisterReadingID | RegisterReading Row | | String | | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | | DVM Mapping | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
|--|---|-------------|--|---------------------|---------|-----|-------------|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | | | |
| | | | MeterReadID | RegisterReading Row | String | | | | |
| u_meter1_read_seq4 | activitiesdefinitions.getActivitySchema | Integer | Seq | RegisterReading Row | decimal | | | | |
| | | | RegisterID | RegisterReading Row | String | | | | |
| u_new_meter_read_type | activitiesdefinitions.getActivitySchema | enumeration | ReadType | RegisterReading Row | String | | | | |
| u_meter1_current_index4 | activitiesdefinitions.getActivitySchema | String | RegisterReading | RegisterReading Row | decimal | | | | |
| | | | LowLimit | RegisterReading Row | decimal | | | | |
| | | | HighLimit | RegisterReading Row | decimal | | | | |
| | | | ReviewHighLow | RegisterReading Row | boolean | | | | |
| | | | Trended | RegisterReading Row | boolean | | | | |
| | | | Version | RegisterReading Row | decimal | | | | |
| | | | MeterConfiguration ID | RegisterReading Row | String | | | | |
| | | | RegisterReading Message | RegisterReading Row | String | | | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | DVM Mapping | | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
|--|---|-------------|--|---------------------|---------|-------------|--|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | | | |
| | | | RegisterInformation | RegisterReading Row | String | | | | |
| | | | PrevRegistryReadInfo | RegisterReading Row | String | | | | |
| | | | PrevMeterreadID | RegisterReading Row | String | | | | |
| | | | ReadOutsideLimit | RegisterReading Row | boolean | | | | |
| | | | RegisterReadingID | RegisterReading Row | String | | | | |
| | | | MeterReadID | RegisterReading Row | String | | | | |
| u_meter1_read_seq5 | activitiesdefinitions.getActivitySchema | Integer | Seq | RegisterReading Row | decimal | | | | |
| | | | RegisterID | RegisterReading Row | String | | | | |
| u_new_meter_read_type | activitiesdefinitions.getActivitySchema | enumeration | ReadType | RegisterReading Row | String | | | | |
| u_meter1_current_index5 | activitiesdefinitions.getActivitySchema | String | RegisterReading | RegisterReading Row | decimal | | | | |
| | | | LowLimit | RegisterReading Row | decimal | | | | |
| | | | HighLimit | RegisterReading Row | decimal | | | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | DVM Mapping | | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
|--|--|--------|--|-------------------------------------|---------|-------------|--|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | | | |
| | | | ReviewHighLow | RegisterReading Row | boolean | | | | |
| | | | Trended | RegisterReading Row | boolean | | | | |
| | | | Version | RegisterReading Row | decimal | | | | |
| | | | MeterConfiguration ID | RegisterReading Row | String | | | | |
| | | | RegisterReading Message | RegisterReading Row | String | | | | |
| | | | RegisterInformation | RegisterReading Row | String | | | | |
| | | | PrevRegistryReadInfo | RegisterReading Row | String | | | | |
| | | | PrevMeterreadID | RegisterReading Row | String | | | | |
| | | | ReadOutsideLimit | RegisterReading Row | boolean | | | | |
| | | | ItemInfo | C1FACCompletionE xtSysStructDetails | String | | | | |
| | | | ItemInfoRow | ItemInfo | String | | | | |
| u_item_type | activities.definitions.getActivitySchema | String | ItemType | ItemInfoRow | String | | | | |
| | | | Status | ItemInfoRow | String | | | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | | DVM Mapping | |
|--|---|-------------|--|----------------|----------------------|----------------------|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
| u_item_manufacturer | activitiesdefinitions.getActivitySchema | enumeration | Manufacturer | ItemInfoRow | String | CCBOFSC_Manufacturer | OFSC_Manufacturer | CCB_Manufacturer |
| u_item_model | activitiesdefinitions.getActivitySchema | enumeration | Model | ItemInfoRow | String | CCBOFSC_Model | OFSC_Model | CCB_Model |
| u_item_nbr | activitiesdefinitions.getActivitySchema | String | BadgeNumber | ItemInfoRow | String | | | |
| | | | SerialNumber | ItemInfoRow | String | | | |
| u_item_status_Left | activitiesdefinitions.getActivitySchema | enumeration | OnOffStatus | ItemInfoRow | String | | | |
| | | | DateReceived | ItemInfoRow | date | | | |
| | | | DateRetired | ItemInfoRow | date | | | |
| | | | LongDescription | ItemInfoRow | String | | | |
| | | | RetireReasonCode | ItemInfoRow | String | | | |
| | | | StockLocation | ItemInfoRow | String | | | |
| | | | InstallRemove MeterorItem | ItemInfoRow | String | | | |
| | | | ItemInfoRow | ItemInfo | Complex List Type | | | |
| u_new_item_type | activitiesdefinitions.getActivitySchema | String | ItemType | ItemInfoRow | String | | | |
| | | | Status | ItemInfoRow | String | | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | | DVM Mapping | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
|--|---|-------------|--|------------------------------|-----------------|-----|-------------|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | | | |
| u_newitem_manufacturer | activitiesdefinitions.getActivitySchema | enumeration | Manufacturer | ItemInfoRow | String | | | | |
| u_newitem_model | activitiesdefinitions.getActivitySchema | enumeration | Model | ItemInfoRow | String | | | | |
| u_new_item_nbr | activitiesdefinitions.getActivitySchema | String | BadgeNumber | ItemInfoRow | String | | | | |
| | | | SerialNumber | ItemInfoRow | String | | | | |
| u_new_item_status_left | activitiesdefinitions.getActivitySchema | enumeration | OnOffStatus | ItemInfoRow | String | | | | |
| | | | DateReceived | ItemInfoRow | date | | | | |
| | | | DateRetired | ItemInfoRow | date | | | | |
| | | | LongDescription | ItemInfoRow | String | | | | |
| | | | RetireReasonCode | ItemInfoRow | String | | | | |
| | | | StockLocation | ItemInfoRow | String | | | | |
| | | | InstallRemove MeterorItem | ItemInfoRow | String | | | | |
| | | | completion Information | C1FACCompletion FieldWork | Complex Type | | | | |
| timeOfBooking | activitiesdefinitions.getActivitySchema | String | dispatchDateTime | completion Information | dateTime | | | | |
| | | | enrouteDateTime | completion Information | dateTime | | | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | | DVM Mapping | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
|--|--|--------|--|--------------------------------|-------------------|-----|-------------|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | | | |
| startTime | activities.definitions.getActivitySchema | String | onsiteDateTime | completion Information | dateTime | | | | |
| | | | toDoMessage | completion Information | String | | | | |
| u_activity_notes | activities.definitions.getActivitySchema | String | comments | completion Information | String | | | | |
| | | | customerContact Details | completion Information | Complex Type | | | | |
| | | | customerContact Type | customerContact Details | String | | | | |
| | | | customerContactComments | customerContact Details | String | | | | |
| | | | remarkTypes | completion Information | Complex Type | | | | |
| | | | remarkTypesList | remarkTypes | Complex List Type | | | | |
| | | | remarkType | remarkTypesList | String | | | | |
| | | | utilityCompletion Information | C1FACCompletion FieldWork | Complex Type | | | | |
| | | | servicePoint CompletionDetails | utilityCompletion Information | Complex Type | | | | |
| | | | servicePointData Details | servicePoint CompletionDetails | Complex Type | | | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | | DVM Mapping | |
|--|---|-------------|--|-------------------------------|--------------|--------------------------------|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
| u_SP_instructions | activitiesdefinitions.getActivitySchema | enumeration | serviceInstructions | servicePointCompletionDetails | String | CCBOFSC_ServiceInstructions | OFSC_ServiceInstructions | CCB_ServiceInstructions |
| u_SP_warnings | activitiesdefinitions.getActivitySchema | enumeration | serviceWarnings | servicePointCompletionDetails | String | CCBOFSC_ServiceWarnings | OFSC_ServiceWarnings | CCB_ServiceWarnings |
| u_SP_instruction_details | activitiesdefinitions.getActivitySchema | String | instructionDetails | servicePointCompletionDetails | String | | | |
| | | | existingDevice | utilityCompletionInformation | Complex Type | | | |
| | | | meterCompletionDetails | existingDevice | Complex Type | | | |
| | | | meterDataDetails | meterCompletionDetails | Complex Type | | | |
| u_meter1_mfg | activitiesdefinitions.getActivitySchema | enumeration | deviceManufacturer | meterDataDetails | String | CCBOFSC_Manufacturer | OFSC_Manufacturer | CCB_Manufacturer |
| u_meter1_model | activitiesdefinitions.getActivitySchema | enumeration | deviceModel | meterDataDetails | String | CCBOFSC_Model | OFSC_Model | CCB_Model |
| u_meter1_number | activitiesdefinitions.getActivitySchema | String | badgeNumber | meterDataDetails | String | | | |
| u_meter_config_type1 | activitiesdefinitions.getActivitySchema | enumeration | meterConfigurationType | meterDataDetails | String | CCBOFSC_MeterConfigurationType | OFSC_MeterConfigurationType | CCB_MeterConfigurationType |
| u_meter1_location | activitiesdefinitions.getActivitySchema | enumeration | meterLocation | meterDataDetails | String | CCBOFSC_MeterLocation | OFSC_MeterLocation | CCB_MeterLocation |
| | | | readingCompletionDetails | meterCompletionDetails | any Type | | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | DVM Mapping | | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
|--|---|---------|--|--------------------------|----------|-------------|--|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | | | |
| | | | readingDetails | readingCompletionDetails | any Type | | | | |
| | | | readingDetailsList | readingDetails | any Type | | | | |
| u_existing_meter_read_s eq | activitiesdefinitions. getActivitySchema | Integer | readSequence | readingDetailsList | decimal | | | | |
| u_existing_meter_uom | activitiesdefinitions. getActivitySchema | String | unitOfMeasure | readingDetailsList | String | | | | |
| u_existing_meter_dials | activitiesdefinitions.get ActivitySchema | Integer | numberOfDials | readingDetailsList | decimal | | | | |
| u_existing_meter_number ofDecimals | activitiesdefinitions.get ActivitySchema | Integer | numberOfDecimals | readingDetailsList | decimal | | | | |
| u_existing_meter_upper_ limit | activitiesdefinitions.get ActivitySchema | String | upperLimit | readingDetailsList | String | | | | |
| u_existing_meter_lower_ limit | activitiesdefinitions.get ActivitySchema | String | lowerLimit | readingDetailsList | String | | | | |
| u_existing_meter_current_ index | activitiesdefinitions.get ActivitySchema | String | reading | readingDetailsList | String | | | | |
| u_existing_meter_TOU | activitiesdefinitions.get ActivitySchema | String | timeOfUse | readingDetailsList | String | | | | |
| u_existing_meter_overrid e_reading | activitiesdefinitions.get ActivitySchema | String | overrideReading | readingDetailsList | String | | | | |
| | | | readingDetailsList | readingDetails | any Type | | | | |
| u_existing_meter_read_s eq2 | activitiesdefinitions.get ActivitySchema | Integer | readSequence | readingDetailsList | decimal | | | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | DVM Mapping | | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
|--|--|---------|--|--------------------|----------|-------------|--|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | | | |
| u_existing_meter_uom2 | activities.definitions.getActivitySchema | String | unitOfMeasure | readingDetailsList | String | | | | |
| u_existing_meter_dials2 | activities.definitions.getActivitySchema | Integer | numberOfDials | readingDetailsList | decimal | | | | |
| u_existing_meter_numberOfDecimals2 | activities.definitions.getActivitySchema | Integer | numberOfDecimals | readingDetailsList | decimal | | | | |
| u_existing_meter_upper_limit2 | activities.definitions.getActivitySchema | String | upperLimit | readingDetailsList | String | | | | |
| u_existing_meter_lower_limit2 | activities.definitions.getActivitySchema | String | lowerLimit | readingDetailsList | String | | | | |
| u_existing_meter_current_index2 | activities.definitions.getActivitySchema | String | reading | readingDetailsList | String | | | | |
| u_existing_meter_TOU2 | activities.definitions.getActivitySchema | String | timeOfUse | readingDetailsList | String | | | | |
| u_existing_meter_overridden_reading2 | activities.definitions.getActivitySchema | String | overrideReading | readingDetailsList | String | | | | |
| | | | readingDetailsList | readingDetails | any Type | | | | |
| u_existing_meter_read_seq3 | activities.definitions.getActivitySchema | Integer | readSequence | readingDetailsList | decimal | | | | |
| u_existing_meter_uom3 | activities.definitions.getActivitySchema | String | unitOfMeasure | readingDetailsList | String | | | | |
| u_existing_meter_dials3 | activities.definitions.getActivitySchema | Integer | numberOfDials | readingDetailsList | decimal | | | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | | DVM Mapping | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
|--|--|---------|--|--------------------|----------|-----|-------------|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | | | |
| u_existing_meter_numberOfDecimals3 | activities.definitions.getActivitySchema | Integer | numberOfDecimals | readingDetailsList | decimal | | | | |
| u_existing_meter_upper_limit3 | activities.definitions.getActivitySchema | String | upperLimit | readingDetailsList | String | | | | |
| u_existing_meter_lower_limit3 | activities.definitions.getActivitySchema | String | lowerLimit | readingDetailsList | String | | | | |
| u_existing_meter_current_index3 | activities.definitions.getActivitySchema | String | reading | readingDetailsList | String | | | | |
| u_existing_meter_TOU3 | activities.definitions.getActivitySchema | String | timeOfUse | readingDetailsList | String | | | | |
| u_existing_meter_override_reading3 | activities.definitions.getActivitySchema | String | overrideReading | readingDetailsList | String | | | | |
| | | | readingDetailsList | readingDetails | any Type | | | | |
| u_existing_meter_read_seq4 | activities.definitions.getActivitySchema | Integer | readSequence | readingDetailsList | decimal | | | | |
| u_existing_meter_uom4 | activities.definitions.getActivitySchema | String | unitOfMeasure | readingDetailsList | String | | | | |
| u_existing_meter_dials4 | activities.definitions.getActivitySchema | Integer | numberOfDials | readingDetailsList | decimal | | | | |
| u_existing_meter_numberOfDecimals4 | activities.definitions.getActivitySchema | Integer | numberOfDecimals | readingDetailsList | decimal | | | | |
| u_existing_meter_upper_limit4 | activities.definitions.getActivitySchema | String | upperLimit | readingDetailsList | String | | | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | | DVM Mapping | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
|--|--|---------|--|--------------------|----------|-----|-------------|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | | | |
| u_existing_meter_lower_limit4 | activities.definitions.getActivitySchema | String | lowerLimit | readingDetailsList | String | | | | |
| u_existing_meter_current_index4 | activities.definitions.getActivitySchema | String | reading | readingDetailsList | String | | | | |
| u_existing_meter_TOU4 | activities.definitions.getActivitySchema | String | timeOfUse | readingDetailsList | String | | | | |
| u_existing_meter_overrid e_reading4 | activities.definitions.getActivitySchema | String | overrideReading | readingDetailsList | String | | | | |
| | | | readingDetailsList | readingDetails | any Type | | | | |
| u_existing_meter_read_s eq5 | activities.definitions.getActivitySchema | Integer | readSequence | readingDetailsList | decimal | | | | |
| u_existing_meter_uom5 | activities.definitions.getActivitySchema | String | unitOfMeasure | readingDetailsList | String | | | | |
| u_existing_meter_dials5 | activities.definitions.getActivitySchema | Integer | numberOfDials | readingDetailsList | decimal | | | | |
| u_existing_meter_numbe rofDecimals5 | activities.definitions.getActivitySchema | Integer | numberOfDecimals | readingDetailsList | decimal | | | | |
| u_existing_meter_upper_limit5 | activities.definitions.getActivitySchema | String | upperLimit | readingDetailsList | String | | | | |
| u_existing_meter_lower_limit5 | activities.definitions.getActivitySchema | String | lowerLimit | readingDetailsList | String | | | | |
| u_existing_meter_current_index5 | activities.definitions.getActivitySchema | String | reading | readingDetailsList | String | | | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | DVM Mapping | | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
|--|--|-------------|--|------------------------------|--------------|----------------------|-------------------|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | | | |
| u_existing_meter_TOU5 | activities.definitions.getActivitySchema | String | timeOfUse | readingDetailsList | String | | | | |
| u_existing_meter_current_index5 | activities.definitions.getActivitySchema | String | overrideReading | readingDetailsList | String | | | | |
| | | | itemCompletionDetails | existingDevice | Complex Type | | | | |
| | | | itemDataDetails | itemCompletionDetails | Complex Type | | | | |
| u_item_nbr | activities.definitions.getActivitySchema | String | badgeNumber | itemDataDetails | String | | | | |
| u_item_manufacturer | activities.definitions.getActivitySchema | String | deviceManufacturer | itemDataDetails | String | | | | |
| u_item_model | activities.definitions.getActivitySchema | String | deviceModel | itemDataDetails | String | | | | |
| | | | newDevice | utilityCompletionInformation | Complex Type | | | | |
| | | | meterCompletionDetails | newDevice | Complex Type | | | | |
| | | | meterDataDetails | meterCompletionDetails | Complex Type | | | | |
| u_newmeter_manufacturer | activities.definitions.getActivitySchema | enumeration | deviceManufacturer | meterDataDetails | String | CCBOFSC_Manufacturer | OFSC_Manufacturer | CCB_Manufacturer | |
| u_newmeter_model | activities.definitions.getActivitySchema | enumeration | deviceModel | meterDataDetails | String | CCBOFSC_Model | OFSC_Model | CCB_Model | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | DVM Mapping | | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
|--|--|-------------|--|--------------------------|----------|--------------------------------|-----------------------------|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | | | |
| u_meter2_number | activities.definitions.getActivitySchema | String | badgeNumber | meterDataDetails | String | | | | |
| u_new_meter_type | activities.definitions.getActivitySchema | enumeration | meterConfigurationType | meterDataDetails | String | CCBOFSC_MeterConfigurationType | OFSC_MeterConfigurationType | CCB_MeterConfigurationType | |
| u_newmeter_location | activities.definitions.getActivitySchema | enumeration | meterLocation | meterDataDetails | String | CCBOFSC_MeterLocation | OFSC_MeterLocation | CCB_MeterLocation | |
| | | | readingCompletionDetails | meterCompletionDetails | any Type | | | | |
| | | | readingDetails | readingCompletionDetails | any Type | | | | |
| | | | readingDetailsList | readingDetails | any Type | | | | |
| u_meter1_read_seq | activities.definitions.getActivitySchema | Integer | readSequence | readingDetailsList | decimal | | | | |
| u_meter1_uom | activities.definitions.getActivitySchema | enumeration | unitOfMeasure | readingDetailsList | String | CCBOFSC_UOM | OFSC_UOM | CCB_UOM | |
| u_meter1_dials | activities.definitions.getActivitySchema | Integer | numberOfDials | readingDetailsList | decimal | | | | |
| u_meter1_numberofDecimals | activities.definitions.getActivitySchema | Integer | numberOfDecimals | readingDetailsList | decimal | | | | |
| u_meter1_upper_limit | activities.definitions.getActivitySchema | String | upperLimit | readingDetailsList | String | | | | |
| u_meter1_lower_limit | activities.definitions.getActivitySchema | String | lowerLimit | readingDetailsList | String | | | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | DVM Mapping | | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
|--|---|-------------|--|--------------------|---------|-------------|----------|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | | | |
| u_meter1_TOU1 | activitiesdefinitions.getActivitySchema | enumeration | timeofUse | readingDetailsList | String | CCBOFSC_TOU | OFSC_TOU | CCB_TOU | |
| u_meter1_current_index | activitiesdefinitions.getActivitySchema | String | reading | readingDetailsList | String | | | | |
| u_meter1_override_reading | activitiesdefinitions.getActivitySchema | enumeration | overrideReading | readingDetailsList | String | | | | |
| u_meter1_read_seq2 | activitiesdefinitions.getActivitySchema | Integer | readSequence | readingDetailsList | decimal | | | | |
| u_meter1_uom2 | activitiesdefinitions.getActivitySchema | enumeration | unitOfMeasure | readingDetailsList | String | CCBOFSC_UOM | OFSC_UOM | CCB_UOM | |
| u_meter1_dials2 | activitiesdefinitions.getActivitySchema | Integer | numberOfDials | readingDetailsList | decimal | | | | |
| u_meter1_numberofDecimals2 | activitiesdefinitions.getActivitySchema | Integer | numberOfDecimals | readingDetailsList | decimal | | | | |
| u_meter1_upper_limit2 | activitiesdefinitions.getActivitySchema | String | upperLimit | readingDetailsList | String | | | | |
| u_meter1_lower_limit2 | activitiesdefinitions.getActivitySchema | String | lowerLimit | readingDetailsList | String | | | | |
| u_meter1_TOU2 | activitiesdefinitions.getActivitySchema | enumeration | timeofUse | readingDetailsList | String | CCBOFSC_TOU | OFSC_TOU | CCB_TOU | |
| u_meter1_current_index2 | activitiesdefinitions.getActivitySchema | String | reading | readingDetailsList | String | | | | |
| u_meter1_override_reading2 | activitiesdefinitions.getActivitySchema | enumeration | overrideReading | readingDetailsList | String | | | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | DVM Mapping | | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
|--|---|-------------|--|--------------------|---------|-------------|----------|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | | | |
| u_meter1_read_seq3 | activitiesdefinitions.getActivitySchema | Integer | readSequence | readingDetailsList | decimal | | | | |
| u_meter1_uom3 | activitiesdefinitions.getActivitySchema | enumeration | unitOfMeasure | readingDetailsList | String | CCBOFSC_UOM | OFSC_UOM | CCB_UOM | |
| u_meter1_dials3 | activitiesdefinitions.getActivitySchema | Integer | numberOfDials | readingDetailsList | decimal | | | | |
| u_meter1_numberofDecimals3 | activitiesdefinitions.getActivitySchema | Integer | numberOfDecimals | readingDetailsList | decimal | | | | |
| u_meter1_upper_limit3 | activitiesdefinitions.getActivitySchema | String | upperLimit | readingDetailsList | String | | | | |
| u_meter1_lower_limit3 | activitiesdefinitions.getActivitySchema | String | lowerLimit | readingDetailsList | String | | | | |
| u_meter1_TOU3 | activitiesdefinitions.getActivitySchema | enumeration | timeofUse | readingDetailsList | String | CCBOFSC_TOU | OFSC_TOU | CCB_TOU | |
| u_meter1_current_index3 | activitiesdefinitions.getActivitySchema | String | reading | readingDetailsList | String | | | | |
| u_meter1_override_reading3 | activitiesdefinitions.getActivitySchema | enumeration | overrideReading | readingDetailsList | String | | | | |
| u_meter1_read_seq4 | activitiesdefinitions.getActivitySchema | Integer | readSequence | readingDetailsList | decimal | | | | |
| u_meter1_uom4 | activitiesdefinitions.getActivitySchema | enumeration | unitOfMeasure | readingDetailsList | String | CCBOFSC_UOM | OFSC_UOM | CCB_UOM | |
| u_meter1_dials4 | activitiesdefinitions.getActivitySchema | Integer | numberOfDials | readingDetailsList | decimal | | | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | DVM Mapping | | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
|--|---|-------------|--|--------------------|---------|-------------|----------|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | | | |
| u_meter1_numberofDecimals4 | activitiesdefinitions.getActivitySchema | Integer | numberOfDecimals | readingDetailsList | decimal | | | | |
| u_meter1_upper_limit4 | activitiesdefinitions.getActivitySchema | String | upperLimit | readingDetailsList | String | | | | |
| u_meter1_lower_limit4 | activitiesdefinitions.getActivitySchema | String | lowerLimit | readingDetailsList | String | | | | |
| u_meter1_TOU4 | activitiesdefinitions.getActivitySchema | enumeration | timeofUse | readingDetailsList | String | CCBOFSC_TOU | OFSC_TOU | CCB_TOU | |
| u_meter1_current_index4 | activitiesdefinitions.getActivitySchema | String | reading | readingDetailsList | String | | | | |
| u_meter1_override_reading4 | activitiesdefinitions.getActivitySchema | enumeration | overrideReading | readingDetailsList | String | | | | |
| u_meter1_read_seq5 | activitiesdefinitions.getActivitySchema | Integer | readSequence | readingDetailsList | decimal | | | | |
| u_meter1_uom5 | activitiesdefinitions.getActivitySchema | enumeration | unitOfMeasure | readingDetailsList | String | CCBOFSC_UOM | OFSC_UOM | CCB_UOM | |
| u_meter1_dials5 | activitiesdefinitions.getActivitySchema | Integer | numberOfDials | readingDetailsList | decimal | | | | |
| u_meter1_numberofDecimals5 | activitiesdefinitions.getActivitySchema | Integer | numberOfDecimals | readingDetailsList | decimal | | | | |
| u_meter1_upper_limit5 | activitiesdefinitions.getActivitySchema | String | upperLimit | readingDetailsList | String | | | | |
| u_meter1_lower_limit5 | activitiesdefinitions.getActivitySchema | String | lowerLimit | readingDetailsList | String | | | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | | DVM Mapping | |
|--|--|-------------|--|-----------------------|--------------|----------------------|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
| u_meter1_TOU5 | activities.definitions.getActivitySchema | enumeration | timeofUse | readingDetailsList | String | CCBOFSC_TOU | OFSC_TOU | CCB_TOU |
| u_meter1_current_index5 | activities.definitions.getActivitySchema | String | reading | readingDetailsList | String | | | |
| u_meter1_override_reading5 | activities.definitions.getActivitySchema | enumeration | overrideReading | readingDetailsList | String | | | |
| | | | itemCompletionDetails | newDevice | Complex Type | | | |
| | | | itemDataDetails | itemCompletionDetails | Complex Type | | | |
| u_new_item_nbr | activities.definitions.getActivitySchema | String | badgeNumber | itemDataDetails | String | | | |
| u_newitem_manufacturer | activities.definitions.getActivitySchema | enumeration | deviceManufacturer | itemDataDetails | String | CCBOFSC_Manufacturer | OFSC_Manufacturer | CCB_Manufacturer |
| u_newitem_model | activities.definitions.getActivitySchema | enumeration | deviceModel | itemDataDetails | String | CCBOFSC_Model | OFSC_Model | CCB_Model |

Activity Creation

This section describes data mapping for the following:

- Activity Creation Request Mapping
- Activity Creation Response Mapping

Activity Creation Request Mapping

Request Mapping for Activity Creation integration point are as shown in the table below:

| Oracle Field Service Cloud Request Message | | | | Oracle Utilities Customer Care and Billing Interim Status Request | | | DVM Mapping | |
|--|---|--------------|-----------------------|--|--------------|---|-----------------------------------|---|
| Element Name | Parent Element | Type | Attribute Name | Parent Element | Type | DVM | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
| activities.definitions.getActivitySchema | | Complex Type | | C1AddFAandCustomer Contact | Complex Type | | | |
| | | | | C1AddFAandCustomer Contact/ C1AddFAandCustomer ContactService | Complex Type | | | |
| | | | | C1AddFAandCustomer ContactService/ C1AddFAandCustomer ContactDetails | Complex Type | | | |
| u_service_pt_id | events.definitions.activity Event/activityChanges | String | ServicePointID | C1AddFAandCustomer ContactDetails | String | | | |
| activityType | events.definitions.activity Event/activityChanges | String | ActivityType | C1AddFAandCustomer ContactDetails | String | CCBOFSC_ActivityType | OFSC_ActivityType | CCB_FAType |
| timeOfBooking | events.definitions.activity Event/activityChanges | String | ScheduleDateTimeStart | C1AddFAandCustomer ContactDetails | dateTime | OFSCCCB_TimeZone CCBOFSC_ConfigProps | TimeZone PropertyName | Offset Value |
| | | | DispatchGroup | C1AddFAandCustomer ContactDetails | String | CCBOFSC_ConfigProps | PropertyName | Value |

| Oracle Field Service Cloud Request Message | | | | Oracle Utilities Customer Care and Billing Interim Status Request | | | DVM Mapping | |
|--|---|--------|----------------------------|---|---------|-----|-----------------------------------|---|
| Element Name | Parent Element | Type | Attribute Name | Parent Element | Type | DVM | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
| activityId | events.definitions.activity Event/activityChanges | String | ExternalID | C1AddFAandCustomerContactDetails | String | | | |
| u_fa_comments | events.definitions.activity Event/activityChanges | String | DetailedDescription | C1AddFAandCustomerContactDetails | String | | | |
| | | | LongDescription | C1AddFAandCustomerContactDetails | String | | | |
| | | | AddCustomerContact | C1AddFAandCustomerContactDetails | boolean | | | |
| | | | ContactType | C1AddFAandCustomerContactDetails | String | | | |
| | | | ContactClass | C1AddFAandCustomerContactDetails | String | | | |
| | | | CustomerContactDescription | C1AddFAandCustomerContactDetails | String | | | |
| | | | ToDoRole | C1AddFAandCustomerContactDetails | String | | | |

Activity Creation Response Mapping

Response Mapping for Activity Creation integration point are as shown in the table below:

| Oracle Utilities Customer Care and Billing Interim Status Request | | | Oracle Field Service Cloud Request Message | | | DVM Mapping | | |
|---|---------------------------|------|--|----------------|------|-------------|-----------------------------------|---|
| Attribute Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
| | C1AddFAandCustomerContact | | updateActivitySchema | | | | | |

| Oracle Utilities Customer Care and Billing Interim Status Request | | Oracle Field Service Cloud Request Message | | | DVM Mapping | | | | |
|---|---------------------------------------|--|--------------|----------------------|-------------|---------------------|-----------------------------------|---|--|
| Attribute Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column | |
| | C1AddFAandCustomer Contact/ | | | | | | | | |
| | C1AddFAandCustomer ContactService | | | | | | | | |
| | C1AddFAandCustomer ContactService/ | | | | | | | | |
| | C1AddFAandCustomer ContactDetails | | | | | | | | |
| FieldActivityID | C1AddFAandCustomer ContactDetails | String | apptNumber | updateActivitySchema | String | | | | |
| | | | u_xa_product | updateActivitySchema | String | CCBOFSC_ConfigProps | PropertyName | Value | |

Cancel Activity

This section describes data mapping for the following:

- [Cancel Activity Request Mapping](#)
- [Cancel Activity Response Mapping](#)

Cancel Activity Request Mapping

Request mapping details for Cancel Activity integration point are as shown in the table below:

| Oracle Utilities Customer Care and Billing Request Message | | | Oracle Field Service Cloud Request Message | | | DVM Mapping | | |
|--|-------------------|---------------|---|----------------|---------------|-------------|---|-----------------------------------|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Utilities Customer Care and Billing Column | Oracle Field Service Cloud Column |
| sendDetails | C1-FACancelOutMsg | Outermost Tag | bulkUpdate_POST | | Outermost Tag | | | |
| | | | activities.definitions.custom ActionActivityBulk UpdateSchema | | | | | |
| | | | updateParameters | | | | | |
| | | | identifyActivityBy | | | | | |
| | | | ifInFinalStatusThen | | | | | |
| | | | activities | | | | | |
| fieldActivityId | sendDetails | String | apptNumber | activities | string | | | |
| externalId | | String | | | | | | |
| fieldActivityStatus | | String | | | | | | |
| cancelReason | | String | | | | | | |
| cancelReason Description | | String | | | | | | |
| cancellationDateTime | | dateTime | | | | | | |
| | | | status | activities | string | | | |

| Oracle Utilities Customer Care and Billing Request Message | | | Oracle Field Service Cloud Request Message | | | DVM Mapping | | |
|--|----------------|------|--|----------------|--------|-------------------------|---|-----------------------------------|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Utilities Customer Care and Billing Column | Oracle Field Service Cloud Column |
| | | | u_xa_cn | activities | string | CCBOFSC_ConfigProps_dvm | PropertyName | Value |

Cancel Activity Response Mapping

Response mapping details for Cancel Activity integration point are as shown in the table below:

| Oracle Field Service Cloud bulkUpdate Response Message | | | Oracle Utilities Customer Care and Billing Response Message | | | DVM Mapping | | |
|---|---|---------------|---|-------------------|---------------|-------------|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
| bulkUpdate_POSTResponse | | Outermost Tag | sendDetails | C1-FACancelOutMsg | Outermost Tag | | | |
| activitiesdefinitionscustomActionActivityBulkUpdateSchemaResponse | bulkUpdate_POSTResponse | | | | | | | |
| results | activitiesdefinitionscustomActionActivityBulkUpdateSchemaResponse | | | | | | | |
| activityKeys | results | | | | | | | |
| activityId | activityKeys | String | externalId | sendDetails | Field | | | |
| | | | fieldActivityId | sendDetails | Field | | | |

| Oracle Field Service Cloud bulkUpdate Response Message | | | Oracle Utilities Customer Care and Billing Response Message | | | | DVM Mapping | | | |
|--|----------------|------|---|----------------|-------|-----|-----------------------------------|---|--|--|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column | | |
| | | | fieldActivityStatus | sendDetails | Field | | | | | |
| | | | cancelReason | sendDetails | Field | | | | | |
| | | | cancelReason Description | sendDetails | Field | | | | | |
| | | | cancellation DateTime | sendDetails | Field | | | | | |

Create/Update Activity

This section describes data mapping for the following:

- Create/Update Activity Request Mapping
- Create/Update Activity Response Mapping

Create/Update Activity Request Mapping

Request mapping details for Create/Update Activity integration point are as shown in the table below:

| Oracle Utilities Customer Care and Billing Request Message | | | | Oracle Field Service Cloud Request Message | | | DVM Mapping | |
|--|----------------------|--------------|---|---|--------|-------------------------|---|-----------------------------------|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Utilities Customer Care and Billing Column | Oracle Field Service Cloud Column |
| sendDetails | C1-FASendOutMsg | Complex Type | bulkUpdate_POST | | | Outermost Tag | | |
| | | | activities.definitions.customActionActivityBulkUpdateSchema | bulkUpdate_POST | | Group | | |
| | | | updateParameters | activities.definitions.customActionActivityBulkUpdateSchema | | | | |
| | | | identifyActivityBy | updateParameters | | | | |
| | | | ifInFinalStatusThen | updateParameters | | | | |
| | | | activities | activities.definitions.customActionActivityBulkUpdateSchema | List | | | |
| | | | resourceId | activities | string | CCBOFSC_ConfigProps.dvm | PropertyName | Value |
| fieldActivityId | sendDetails | String | apptNumber | activities | string | | | |
| fieldActivityExtract | sendDetails | String | | | | | | |
| fieldActivityId | fieldActivityExtract | String | | | | | | |
| excludeFinancialInfo | fieldActivityExtract | boolean | | | | | | |

| Oracle Utilities Customer Care and Billing Request Message Oracle Field Service Cloud Request Message | | | | | | | DVM Mapping | |
|---|----------------------------------|-------------------|--------------|----------------|--------|--------------------------|---|-----------------------------------|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Utilities Customer Care and Billing Column | Oracle Field Service Cloud Column |
| fieldActivityType | fieldActivityExtract | String | activityType | activities | string | CCBOFSC_ActivityType.dvm | CCB_FAType | OFSC_ActivityType |
| isEligibleForDispatch | fieldActivityExtract | boolean | | | | | | |
| fieldServiceClass | fieldActivityExtract | | | | | | | |
| fieldActivityPriority | fieldActivityExtract | | | | | | | |
| shouldDisplayAsAlert | fieldActivityExtract | | | | | | | |
| numberOfDaysAlertActive | fieldActivityExtract | | | | | | | |
| appointmentSetup | fieldActivityExtract | | | | | | | |
| businessObject | fieldActivityExtract | | | | | | | |
| externalServiceRequest | fieldActivityExtract | | | | | | | |
| fieldActivityLanguage | fieldActivityExtract | | | | | | | |
| fieldActivityDescr | fieldActivityExtract | | | | | | | |
| alertInformationText | fieldActivityExtract | | | | | | | |
| fieldActivityTypeCharacteristics | fieldActivityExtract | Complex List Type | | | | | | |
| fieldActivityType | fieldActivityTypeCharacteristics | String | | | | | | |
| characteristicType | fieldActivityTypeCharacteristics | String | | | | | | |
| sequence | fieldActivityTypeCharacteristics | decimal | | | | | | |
| characteristicValueFK2 | fieldActivityTypeCharacteristics | String | | | | | | |
| characteristicValueFK3 | fieldActivityTypeCharacteristics | String | | | | | | |

| Oracle Utilities Customer Care and Billing Request Message Oracle Field Service Cloud Request Message | | | | | DVM Mapping | | | |
|---|-----------------------------------|----------|-----------------|----------------|-------------|-----|---|-----------------------------------|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Utilities Customer Care and Billing Column | Oracle Field Service Cloud Column |
| characteristicValueFK4 | fieldActivityType Characteristics | String | | | | | | |
| characteristicValueFK5 | fieldActivityType Characteristics | String | | | | | | |
| characteristicValue ForeignKey1 | fieldActivityType Characteristics | String | | | | | | |
| adhocCharacteristic Value | fieldActivityType Characteristics | String | | | | | | |
| characteristicValue | fieldActivityType Characteristics | String | | | | | | |
| characteristicTypeFlg | fieldActivityType Characteristics | String | | | | | | |
| characteristicValue Description | fieldActivityType Characteristics | String | | | | | | |
| characteristicValue ForeignKeys | fieldActivityType Characteristics | String | | | | | | |
| characteristicValue ForeignKeyInformation | fieldActivityType Characteristics | String | | | | | | |
| isCompoundPrimary Key | fieldActivityType Characteristics | boolean | | | | | | |
| characteristicValuePk | fieldActivityType Characteristics | String | | | | | | |
| servicePointId | fieldActivityExtract | String | u_service_pt_id | activities | string | | | |
| createdBy | fieldActivityExtract | String | | | | | | |
| scheduleDateTimeStart | fieldActivityExtract | dateTime | date | activities | string | | | |
| dispatchGroup | fieldActivityExtract | String | | | | | | |
| fieldOrder | fieldActivityExtract | String | | | | | | |
| creationDateTime | fieldActivityExtract | dateTime | | | | | | |

| Oracle Utilities Customer Care and Billing Request Message Oracle Field Service Cloud Request Message | | | | | DVM Mapping | | | |
|---|----------------------|-------------------|---------------------|----------------|-------------|-----|---|-----------------------------------|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Utilities Customer Care and Billing Column | Oracle Field Service Cloud Column |
| testSelectionId | fieldActivityExtract | String | | | | | | |
| user | fieldActivityExtract | String | | | | | | |
| instructions | fieldActivityExtract | String | u_site_instructions | activities | string | | | |
| longDescription | fieldActivityExtract | String | u_activity_comments | activities | string | | | |
| cancelReason | fieldActivityExtract | String | | | | | | |
| appointmentScheduleId | fieldActivityExtract | String | | | | | | |
| externalId | fieldActivityExtract | String | | | | | | |
| intermediateStatus | fieldActivityExtract | String | | | | | | |
| fieldActivityDataArea | fieldActivityExtract | String | | | | | | |
| fieldworkRescheduleReason | fieldActivityExtract | String | | | | | | |
| isFieldActivityTypeChanged | fieldActivityExtract | boolean | | | | | | |
| chgAlgCalledTime | fieldActivityExtract | boolean | | | | | | |
| fieldActivityStatusDescription | fieldActivityExtract | String | | | | | | |
| fieldActivityCancelReasonDescription | fieldActivityExtract | String | | | | | | |
| fieldActivitySteps | fieldActivityExtract | Complex List Type | | | | | | |
| fieldActivityId | fieldActivitySteps | String | | | | | | |
| stepSequence | fieldActivitySteps | decimal | | | | | | |
| faStepTypeAction | fieldActivitySteps | String | | | | | | |
| spawnedFaId | fieldActivitySteps | String | | | | | | |
| accountId | fieldActivitySteps | String | | | | | | |
| customerContactId | fieldActivitySteps | String | customerPhone | activities | string | | | |

| Oracle Utilities Customer Care and Billing Request Message Oracle Field Service Cloud Request Message | | | | | DVM Mapping | | | |
|---|-------------------------------|-------------------|-----------------|----------------|-------------|--------|---|-----------------------------------|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Utilities Customer Care and Billing Column | Oracle Field Service Cloud Column |
| stepUpdateEntity | fieldActivitySteps | String | | | | | | |
| spItemHistoryId | fieldActivitySteps | String | | | | | | |
| spMeterHistoryId | fieldActivitySteps | String | | | | | | |
| servicePointId | fieldActivitySteps | String | | | | | | |
| itemId | fieldActivitySteps | String | | | | | | |
| meterReadId | fieldActivitySteps | String | | | | | | |
| meterConfigMeterId | fieldActivitySteps | String | | | | | | |
| meterId | fieldActivitySteps | String | u_meter1_serial | activities | | string | | |
| deviceTestId | fieldActivitySteps | String | | | | | | |
| fieldActivityTypeT | fieldActivitySteps | String | | | | | | |
| fAStatusBeforeT | fieldActivitySteps | String | | | | | | |
| faStepTypeInformation | fieldActivitySteps | String | | | | | | |
| stepIdLabel | fieldActivitySteps | String | | | | | | |
| stepId | fieldActivitySteps | String | | | | | | |
| faStepInformation | fieldActivitySteps | String | | | | | | |
| fieldActivityCharacteristi cs | fieldActivityExtract | Complex List Type | | | | | | |
| fieldActivityId | fieldActivity Characteristics | String | | | | | | |
| characteristicType | fieldActivity Characteristics | String | | | | | | |
| sequence | fieldActivity Characteristics | decimal | | | | | | |
| characteristicValueFK5 | fieldActivity Characteristics | String | | | | | | |

| Oracle Utilities Customer Care and Billing Request Message Oracle Field Service Cloud Request Message | | | | | | DVM Mapping | | |
|---|-------------------------------|----------|--------------|----------------|--------|-----------------------------|---|-----------------------------------|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Utilities Customer Care and Billing Column | Oracle Field Service Cloud Column |
| characteristicValueFK4 | fieldActivity Characteristics | String | | | | | | |
| characteristicValueFK3 | fieldActivity Characteristics | String | | | | | | |
| characteristicValueFK2 | fieldActivity Characteristics | String | | | | | | |
| characteristicValueForeignKey1 | fieldActivity Characteristics | String | | | | | | |
| adhocCharacteristicValue | fieldActivity Characteristics | String | | | | | | |
| characteristicValue | fieldActivity Characteristics | String | | | | | | |
| characteristicTypeFlg | fieldActivity Characteristics | String | | | | | | |
| characteristicValueDescription | fieldActivity Characteristics | String | | | | | | |
| characteristicValueForeignKeys | fieldActivity Characteristics | String | | | | | | |
| characteristicValueForeignKeyInformation | fieldActivity Characteristics | String | | | | | | |
| isCompoundPrimaryKey | fieldActivity Characteristics | boolean | | | | | | |
| characteristicValuePk | fieldActivity Characteristics | String | | | | | | |
| characteristicTypeDescription | fieldActivity Characteristics | String | | | | | | |
| startDateTime | fieldActivityExtract | dateTime | timeSlot | activities | string | OFSCCCB_App t_TimeSlots.dvm | CCB_TimeSlot | OFSC_Label |
| endDateTime | fieldActivityExtract | dateTime | timeSlot | activities | string | | | |

| Oracle Utilities Customer Care and Billing Request Message Oracle Field Service Cloud Request Message | | | | | DVM Mapping | | | |
|---|-----------------------|----------------------|----------------------|----------------|-------------|-------------------------------|---|-----------------------------------|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Utilities Customer Care and Billing Column | Oracle Field Service Cloud Column |
| maximumAppointments | fieldActivityExtract | decimal | | | | | | |
| spType | fieldActivityExtract | String | u_service_point_type | activities | enumeration | CCBOFSC_ServicePoint_Type.dvm | CCB_SPType | OFSC_SPType |
| serviceType | fieldActivityExtract | String | | | | | | |
| trendClass | fieldActivityExtract | String | | | | | | |
| servicePointSubType | fieldActivityExtract | String | | | | | | |
| fieldActivityTypeProfile | fieldActivityExtract | String | | | | | | |
| isMeterReadRoute Allowed | fieldActivityExtract | boolean | | | | | | |
| identifyingGeographic Type | fieldActivityExtract | String | | | | | | |
| multipleRouteUsage | fieldActivityExtract | String | | | | | | |
| spTypeLanguage | fieldActivityExtract | String | | | | | | |
| spTypeDescr | fieldActivityExtract | String | | | | | | |
| spTypeCharacteristics | fieldActivityExtract | Complex List Type | | | | | | |
| spType | spTypeCharacteristics | String | | | | | | |
| characteristicType | spTypeCharacteristics | String | | | | | | |
| characteristicValue | spTypeCharacteristics | String | | | | | | |
| sequence | spTypeCharacteristics | decimal | | | | | | |
| adhocCharacteristic Value | spTypeCharacteristics | String | | | | | | |
| characteristicValueForei gnKey1 | spTypeCharacteristics | String | | | | | | |
| characteristicValueFK2 | spTypeCharacteristics | String | | | | | | |

| Oracle Utilities Customer Care and Billing Request Message Oracle Field Service Cloud Request Message | | | | DVM Mapping | | | | |
|---|-----------------------|---------|--------------|----------------|--------|-----|---|-----------------------------------|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Utilities Customer Care and Billing Column | Oracle Field Service Cloud Column |
| characteristicValueFK3 | spTypeCharacteristics | String | | | | | | |
| characteristicValueFK4 | spTypeCharacteristics | String | | | | | | |
| characteristicValueFK5 | spTypeCharacteristics | String | | | | | | |
| characteristicValueDescr | spTypeCharacteristics | String | | | | | | |
| characteristicTypeFlg | spTypeCharacteristics | String | | | | | | |
| characteristicValue Description | spTypeCharacteristics | String | | | | | | |
| characteristicValue ForeignKeys | spTypeCharacteristics | String | | | | | | |
| characteristicValue ForeignKeyInformation | spTypeCharacteristics | String | | | | | | |
| isCompoundPrimaryKe y | spTypeCharacteristics | boolean | | | | | | |
| characteristicValuePk | spTypeCharacteristics | String | u_premise_id | activities | string | | | |
| formatted CharacteristicValue Descr | spTypeCharacteristics | String | | | | | | |
| premiseId | fieldActivityExtract | String | | | | | | |
| servicePointStatus | fieldActivityExtract | String | | | | | | |
| installationDate | fieldActivityExtract | date | | | | | | |
| abolishedDate | fieldActivityExtract | date | | | | | | |
| servicePointSource Status | fieldActivityExtract | String | | | | | | |
| disconnectLocation | fieldActivityExtract | String | | | | | | |
| meterReadCycle | fieldActivityExtract | String | | | | | | |
| meterReadRoute | fieldActivityExtract | String | | | | | | |

| Oracle Utilities Customer Care and Billing Request Message Oracle Field Service Cloud Request Message | | | | | | DVM Mapping | |
|---|----------------------|---------|-------------------|----------------|-------------|---|-----------------------------------|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | Oracle Utilities Customer Care and Billing Column | Oracle Field Service Cloud Column |
| meterReadCycleRouteSequence | fieldActivityExtract | decimal | | | | | |
| meterLocation | fieldActivityExtract | String | u_meter1_location | activities | enumeration | CCB_MeterLocation | OFSC_MeterLocation |
| meterLocationDetails | fieldActivityExtract | String | | | | | |
| facilityLevel1 | fieldActivityExtract | String | | | | | |
| facilityLevel2 | fieldActivityExtract | String | | | | | |
| facilityLevel3 | fieldActivityExtract | String | | | | | |
| premiseDescrlong | fieldActivityExtract | String | | | | | |
| overridePremFieldInfo | fieldActivityExtract | String | | | | | |
| meterReadInstruction | fieldActivityExtract | String | | | | | |
| meterReadWarning | fieldActivityExtract | String | | | | | |
| isKey | fieldActivityExtract | boolean | | | | | |
| key | fieldActivityExtract | String | | | | | |
| isOkToEnter | fieldActivityExtract | boolean | | | | | |
| meterReadInstructionID | fieldActivityExtract | String | | | | | |
| spDataArea | fieldActivityExtract | String | | | | | |
| servicePointStatusDescriptor | fieldActivityExtract | String | | | | | |
| spSrcStatusDescr | fieldActivityExtract | String | | | | | |
| spDiscLocDescr | fieldActivityExtract | String | | | | | |
| spLocDescr | fieldActivityExtract | String | | | | | |
| facilityLevelName1 | fieldActivityExtract | String | | | | | |
| facilityLevelName2 | fieldActivityExtract | String | | | | | |

| Oracle Utilities Customer Care and Billing Request Message Oracle Field Service Cloud Request Message | | | | | DVM Mapping | | | |
|---|------------------------|-------------------|--------------|----------------|-------------|-----|---|-----------------------------------|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Utilities Customer Care and Billing Column | Oracle Field Service Cloud Column |
| facilityLevelName3 | fieldActivityExtract | String | | | | | | |
| operationsArea | fieldActivityExtract | String | | | | | | |
| spOperationsAreaDescr | fieldActivityExtract | String | | | | | | |
| servicePointMulti | fieldActivityExtract | Complex List Type | | | | | | |
| servicePointId | servicePointMulti | String | | | | | | |
| effectiveDate | servicePointMulti | date | | | | | | |
| servicePointMultiItem | servicePointMulti | Complex List Type | | | | | | |
| servicePointId | servicePointMultiItem | String | | | | | | |
| itemType | servicePointMultiItem | String | | | | | | |
| effectiveDate | servicePointMultiItem | date | | | | | | |
| itemCount | servicePointMultiItem | decimal | | | | | | |
| itemDescr | servicePointMultiItem | String | | | | | | |
| servicePointEquipments | fieldActivityExtract | Complex List Type | | | | | | |
| servicePointId | servicePointEquipments | String | | | | | | |
| equipmentId | servicePointEquipments | String | | | | | | |
| installationDate | servicePointEquipments | date | | | | | | |
| removalDate | servicePointEquipments | date | | | | | | |
| equipmentCount | servicePointEquipments | decimal | | | | | | |
| comment | servicePointEquipments | String | | | | | | |
| badgeNumber | servicePointEquipments | String | | | | | | |
| description | servicePointEquipments | String | | | | | | |

| Oracle Utilities Customer Care and Billing Request Message Oracle Field Service Cloud Request Message | | | | | DVM Mapping | | | |
|---|---------------------------------|----------------------|--------------|----------------|-------------|-----|---|-----------------------------------|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Utilities Customer Care and Billing Column | Oracle Field Service Cloud Column |
| <!-- <xsd:attributename="ac tion" type="ouaf:listActi on"/>--> | | Field | | | | | | |
| servicePointCharacteristi cs | fieldActivityExtract | Complex List Type | | | | | | |
| servicePointId | servicePoint Characteristics | String | | | | | | |
| characteristicType | servicePoint Characteristics | String | | | | | | |
| effectiveDate | servicePoint Characteristics | date | | | | | | |
| characteristicValue | servicePoint Characteristics | String | | | | | | |
| adhocCharacteristicValu e | servicePoint Characteristics | String | | | | | | |
| characteristicValue ForeignKey1 | servicePoint Characteristics | String | | | | | | |
| characteristicValueFK2 | servicePoint Characteristics | String | | | | | | |
| characteristicValueFK3 | servicePoint Characteristics | String | | | | | | |
| characteristicValueFK4 | servicePoint Characteristics | String | | | | | | |
| characteristicValueFK5 | servicePoint Characteristics | String | | | | | | |
| sortSequence | servicePoint Characteristics | decimal | | | | | | |

| Oracle Utilities Customer Care and Billing Request Message Oracle Field Service Cloud Request Message | | | | | DVM Mapping | | | |
|---|------------------------------|-------------------|--------------|----------------|-------------|-----|---|-----------------------------------|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Utilities Customer Care and Billing Column | Oracle Field Service Cloud Column |
| characteristicTypeFlg | servicePoint Characteristics | String | | | | | | |
| characteristicValue Description | servicePoint Characteristics | String | | | | | | |
| characteristicValue ForeignKeys | servicePoint Characteristics | String | | | | | | |
| characteristicValue ForeignKeyInformation | servicePoint Characteristics | String | | | | | | |
| isCompoundPrimary Key | servicePoint Characteristics | boolean | | | | | | |
| characteristicValuePk | servicePoint Characteristics | String | | | | | | |
| characteristicType Description | servicePoint Characteristics | String | | | | | | |
| servicePoint Geographics | fieldActivityExtract | Complex List Type | | | | | | |
| servicePointId | servicePoint Geographics | String | | | | | | |
| geographicType | servicePoint Geographics | String | | | | | | |
| geographicValue | servicePoint Geographics | String | | | | | | |
| geographicValueFormat | servicePoint Geographics | String | | | | | | |
| servicePointOperationA reas | fieldActivityExtract | Complex List Type | | | | | | |
| servicePointId | servicePointOperation Areas | String | | | | | | |

| Oracle Utilities Customer Care and Billing Request Message Oracle Field Service Cloud Request Message | | | | | DVM Mapping | | | |
|---|-----------------------------|---------|----------------------|----------------|-------------|---------------------|---|-----------------------------------|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Utilities Customer Care and Billing Column | Oracle Field Service Cloud Column |
| fieldServiceClass | servicePointOperation Areas | String | | | | | | |
| operationsArea | servicePointOperation Areas | String | | | | | | |
| description | servicePointOperation Areas | String | | | | | | |
| premiseType | fieldActivityExtract | String | u_premise_type_combo | activities | enumeration | CCBOFSC_PremiseType | CCB_PremiseType | OFSC_PremiseType |
| cisDivision | fieldActivityExtract | String | | | | | | |
| landLord | fieldActivityExtract | String | | | | | | |
| trendArea | fieldActivityExtract | String | | | | | | |
| address1 | fieldActivityExtract | String | streetAddress | activities | string | | | |
| address2 | fieldActivityExtract | String | streetAddress | activities | string | | | |
| address3 | fieldActivityExtract | String | streetAddress | activities | string | | | |
| address4 | fieldActivityExtract | String | streetAddress | activities | string | | | |
| city | fieldActivityExtract | String | city | activities | string | | | |
| state | fieldActivityExtract | String | stateProvince | activities | string | | | |
| isMailingAddress | fieldActivityExtract | boolean | | | | | | |
| streetNumber1 | fieldActivityExtract | String | | | | | | |
| streetNumber2 | fieldActivityExtract | String | | | | | | |
| county | fieldActivityExtract | String | | | | | | |
| postal | fieldActivityExtract | String | postalCode | activities | string | | | |
| houseType | fieldActivityExtract | String | | | | | | |
| taxVendorGeographical Code | fieldActivityExtract | String | | | | | | |
| isInCityLimit | fieldActivityExtract | boolean | | | | | | |

| Oracle Utilities Customer Care and Billing Request Message Oracle Field Service Cloud Request Message | | | | | | DVM Mapping | | |
|---|----------------------|-------------------|----------------|----------------|-------------|-------------------------|---|-----------------------------------|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Utilities Customer Care and Billing Column | Oracle Field Service Cloud Column |
| country | fieldActivityExtract | String | country_code | activities | string | CCBOFSC_CountryCode.dvm | CCB_Country | OFSC_CountryCode |
| premiseDataArea | fieldActivityExtract | String | | | | | | |
| timeZone | fieldActivityExtract | String | timeZone | activities | string | CCBOFSC_TimeZone.dvm | CCB_TimeZone | OFSC_TimeZone |
| lifeSupportSensitiveLoan | fieldActivityExtract | String | u_life_support | activities | enumeration | CCBOFSC_LifeSupport.dvm | CCB_LSSL | OFSC_LSS |
| lifeSupportSensitiveLoanDescription | fieldActivityExtract | String | | | | | | |
| parentPremiseId | fieldActivityExtract | String | | | | | | |
| addressUppercase | fieldActivityExtract | String | | | | | | |
| cityUppercase | fieldActivityExtract | String | | | | | | |
| premiseTypeDescription | fieldActivityExtract | String | | | | | | |
| mrWarnDescr | fieldActivityExtract | String | | | | | | |
| mrInstrDescr | fieldActivityExtract | String | | | | | | |
| lifeSupportSensitiveLoanDescriptor | fieldActivityExtract | String | | | | | | |
| alternateAddress | fieldActivityExtract | Complex List Type | | | | | | |
| premiseAlternateAddressId | alternateAddress | String | | | | | | |
| premiseId | alternateAddress | String | | | | | | |
| country | alternateAddress | String | | | | | | |
| state | alternateAddress | String | | | | | | |
| houseType | alternateAddress | String | | | | | | |

| Oracle Utilities Customer Care and Billing Request Message Oracle Field Service Cloud Request Message | | | | | DVM Mapping | | | |
|---|----------------------|-------------------|--------------|----------------|-------------|-----|---|-----------------------------------|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Utilities Customer Care and Billing Column | Oracle Field Service Cloud Column |
| streetNumber1 | alternateAddress | String | | | | | | |
| streetNumber2 | alternateAddress | String | | | | | | |
| isInCityLimit | alternateAddress | boolean | | | | | | |
| postal | alternateAddress | String | | | | | | |
| taxVendorGeographicalCode | alternateAddress | String | | | | | | |
| address1 | alternateAddress | String | | | | | | |
| addressUppercase | alternateAddress | String | | | | | | |
| address2 | alternateAddress | String | | | | | | |
| address3 | alternateAddress | String | | | | | | |
| address4 | alternateAddress | String | | | | | | |
| city | alternateAddress | String | | | | | | |
| cityUppercase | alternateAddress | String | | | | | | |
| county | alternateAddress | String | | | | | | |
| landlordDescription | fieldActivityExtract | String | | | | | | |
| landlordEntityName | fieldActivityExtract | String | | | | | | |
| personPhones | fieldActivityExtract | Complex List Type | | | | | | |
| personId | personPhones | String | | | | | | |
| sequence | personPhones | decimal | | | | | | |
| internationalPrefix | personPhones | String | | | | | | |
| phone | personPhones | String | | | | | | |
| extension | personPhones | String | | | | | | |
| phoneType | personPhones | String | | | | | | |

| Oracle Utilities Customer Care and Billing Request Message Oracle Field Service Cloud Request Message | | | | | DVM Mapping | | | |
|---|----------------------|-------------------|--------------|----------------|-------------|-----|---|-----------------------------------|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Utilities Customer Care and Billing Column | Oracle Field Service Cloud Column |
| phoneTypeFlg | personPhones | String | | | | | | |
| personContactDetails | fieldActivityExtract | Complex List Type | | | | | | |
| contactDetail | personContactDetails | String | | | | | | |
| contactDetailValue | personContactDetails | String | | | | | | |
| contactDetailValueExtensi | personContactDetails | String | | | | | | |
| personContactType | personContactDetails | String | | | | | | |
| contactDetailStatus | personContactDetails | String | | | | | | |
| dndEnd | personContactDetails | time | | | | | | |
| contactDetailPrimary | personContactDetails | String | | | | | | |
| dndStart | personContactDetails | time | | | | | | |
| personId | personContactDetails | String | | | | | | |
| contactDetailActiveInacti | personContactDetails | String | | | | | | |
| contactNickname | personContactDetails | String | | | | | | |
| personContactTypeDescr | personContactDetails | String | | | | | | |
| allowDoNotDisturb | personContactDetails | String | | | | | | |
| phoneFormat | personContactDetails | String | | | | | | |
| primaryFlag | personContactDetails | boolean | | | | | | |
| contactRouting | personContactDetails | String | | | | | | |
| contactRoutingDescr | personContactDetails | String | | | | | | |
| allowPersonContactStatu | personContactDetails | String | | | | | | |
| us | | | | | | | | |

| Oracle Utilities Customer Care and Billing Request Message Oracle Field Service Cloud Request Message | | | | | DVM Mapping | | | |
|---|------------------------|-------------------|--------------|----------------|-------------|-----|---|-----------------------------------|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Utilities Customer Care and Billing Column | Oracle Field Service Cloud Column |
| statusControlledByProcess | personContactDetails | String | | | | | | |
| enableIfPersonHasAccount | personContactDetails | String | | | | | | |
| personHasAccount | personContactDetails | String | | | | | | |
| optInButtonLabel | personContactDetails | String | | | | | | |
| initOptInScriptCode | personContactDetails | String | | | | | | |
| premiseCharacteristics | fieldActivityExtract | Complex List Type | | | | | | |
| premiseId | premiseCharacteristics | String | | | | | | |
| characteristicType | premiseCharacteristics | String | | | | | | |
| effectiveDate | premiseCharacteristics | date | | | | | | |
| adhocCharacteristicValue | premiseCharacteristics | String | | | | | | |
| characteristicValueForeignKey1 | premiseCharacteristics | String | | | | | | |
| characteristicValueFK2 | premiseCharacteristics | String | | | | | | |
| characteristicValueFK3 | premiseCharacteristics | String | | | | | | |
| characteristicValueFK4 | premiseCharacteristics | String | | | | | | |
| characteristicValueFK5 | premiseCharacteristics | String | | | | | | |
| characteristicTypeFlg | premiseCharacteristics | String | | | | | | |
| characteristicValueDescriptorOption | premiseCharacteristics | String | | | | | | |
| characteristicValueForeignKeys | premiseCharacteristics | String | | | | | | |

| Oracle Utilities Customer Care and Billing Request Message Oracle Field Service Cloud Request Message | | | | | DVM Mapping | | | |
|---|------------------------|-----------|-----------------|----------------|-------------------------------------|-----------------|---|-----------------------------------|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Utilities Customer Care and Billing Column | Oracle Field Service Cloud Column |
| characteristicValueForeignKeyInformation | premiseCharacteristics | String | | | | | | |
| isCompoundPrimaryKey | premiseCharacteristics | boolean | | | | | | |
| characteristicValuePk | premiseCharacteristics | String | | | | | | |
| premiseGeographicType | fieldActivityExtract | Complex | | | | | | |
| | | List Type | | | | | | |
| premiseId | premiseGeographicType | String | | | | | | |
| geographicType | premiseGeographicType | String | | | | | | |
| geographicValue | premiseGeographicType | String | | | | | | |
| geographicValueFormat | premiseGeographicType | String | | | | | | |
| meterId | fieldActivityExtract | String | u_meter1_serial | activities | string | | | |
| badgeNumber | fieldActivityExtract | String | u_meter1_number | activities | string | | | |
| meterType | fieldActivityExtract | String | | | | | | |
| meterStatus | fieldActivityExtract | String | | | | | | |
| manufacturer | fieldActivityExtract | String | u_meter1_mfg | activities | enumeration CCBOFSC_Manufaturer.dvm | CCB_Manufaturer | OFSC_Manufaturer | |
| model | fieldActivityExtract | String | u_meter1_model | activities | enumeration CCBOFSC_Model.dvm | CCB_Model | OFSC_Model | |
| serialNumber | fieldActivityExtract | String | | | | | | |
| receivedDate | fieldActivityExtract | date | | | | | | |
| retiredDate | fieldActivityExtract | date | | | | | | |
| meterDescr | fieldActivityExtract | String | | | | | | |

| Oracle Utilities Customer Care and Billing Request Message Oracle Field Service Cloud Request Message | | | | | DVM Mapping | | | |
|---|----------------------|-------------------|--------------|----------------|-------------|-----|---|-----------------------------------|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Utilities Customer Care and Billing Column | Oracle Field Service Cloud Column |
| meterDataArea | fieldActivityExtract | String | | | | | | |
| retireReason | fieldActivityExtract | String | | | | | | |
| deviceType | fieldActivityExtract | String | | | | | | |
| mtrStatusDescr | fieldActivityExtract | String | | | | | | |
| mtrMfgDescr | fieldActivityExtract | String | | | | | | |
| mtrModelDescr | fieldActivityExtract | String | | | | | | |
| meterIds | fieldActivityExtract | Complex List Type | | | | | | |
| meterId | meterIds | String | | | | | | |
| meterIdType | meterIds | String | | | | | | |
| meterIdNumber | meterIds | String | | | | | | |
| meterCharacteristics | fieldActivityExtract | Complex List Type | | | | | | |
| meterId | meterCharacteristics | String | | | | | | |
| characteristicType | meterCharacteristics | String | | | | | | |
| characteristicValue | meterCharacteristics | String | | | | | | |
| effectiveDate | meterCharacteristics | date | | | | | | |
| adhocCharacteristicValue | meterCharacteristics | String | | | | | | |
| characteristicValueForeignKey1 | meterCharacteristics | String | | | | | | |
| characteristicValueFK2 | meterCharacteristics | String | | | | | | |
| characteristicValueFK3 | meterCharacteristics | String | | | | | | |
| characteristicValueFK4 | meterCharacteristics | String | | | | | | |
| characteristicValueFK5 | meterCharacteristics | String | | | | | | |

| Oracle Utilities Customer Care and Billing Request Message Oracle Field Service Cloud Request Message | | | | | DVM Mapping | | | |
|---|----------------------|----------------------|--------------|----------------|-------------|-----|---|-----------------------------------|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Utilities Customer Care and Billing Column | Oracle Field Service Cloud Column |
| sortSequence | meterCharacteristics | decimal | | | | | | |
| characteristicTypeFlg | meterCharacteristics | String | | | | | | |
| characteristicValueDescr ption | meterCharacteristics | String | | | | | | |
| characteristicValueForei gnKeys | meterCharacteristics | String | | | | | | |
| characteristicValueForei gnKeyInformation | meterCharacteristics | String | | | | | | |
| isCompoundPrimaryKe y | meterCharacteristics | boolean | | | | | | |
| characteristicValuePk | meterCharacteristics | String | | | | | | |
| characteristicTypeDescri ption | meterCharacteristics | String | | | | | | |
| meterEquipments | fieldActivityExtract | Complex List Type | | | | | | |
| meterId | meterEquipments | String | | | | | | |
| equipmentId | meterEquipments | String | | | | | | |
| installationDate | meterEquipments | date | | | | | | |
| removalDate | meterEquipments | date | | | | | | |
| equipmentCount | meterEquipments | decimal | | | | | | |
| comment | meterEquipments | String | | | | | | |
| badgeNumber | meterEquipments | String | | | | | | |
| description | meterEquipments | String | | | | | | |
| meterConfigurationId | fieldActivityExtract | String | | | | | | |
| meterConfigMeterId | fieldActivityExtract | String | | | | | | |

| Oracle Utilities Customer Care and Billing Request Message Oracle Field Service Cloud Request Message | | | | | DVM Mapping | | | |
|---|----------------------|-------------------|-----------------------------------|----------------|-------------|-------------------------|---|-----------------------------------|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Utilities Customer Care and Billing Column | Oracle Field Service Cloud Column |
| effectiveDateTime | fieldActivityExtract | dateTime | | | | | | |
| meterConfigurationType | fieldActivityExtract | String | u_meter_config_type1 | activities | enumeration | CCBOFSC_MeterConfigType | CCB_MeterConfigurationType | OFSC_MeterConfigurationType.dvm |
| meterConfigDataArea | fieldActivityExtract | String | | | | | | |
| meterInstallDateTime | fieldActivityExtract | String | | | | | | |
| registers | fieldActivityExtract | Complex List Type | | | | | | |
| registerId | registers | String | | | | | | |
| meterId | registers | String | | | | | | |
| effectiveDateTime | registers | dateTime | | | | | | |
| seq | registers | decimal | u_existing_meter_read_seq | activities | Integer | | | |
| unitOfMeasure | registers | String | u_existing_meter_read_sq | activities | string | | | |
| timeOfUse | registers | String | u_existing_meter_uom | activities | string | | | |
| highLimit | registers | decimal | u_existing_meter_TOU | activities | string | | | |
| lowLimit | registers | decimal | u_existing_meter_upper_limit | activities | string | | | |
| numberOfDigitsRight | registers | decimal | u_existing_meter_lower_limit | activities | Integer | | | |
| | | | u_existing_meter_numberofDecimals | activities | Integer | | | |
| seq | registers | decimal | u_existing_meter_dials | activities | Integer | | | |
| unitOfMeasure | registers | String | u_existing_meter_read_sq2 | activities | string | | | |
| timeOfUse | registers | String | u_existing_meter_uom2 | activities | string | | | |

| Oracle Utilities Customer Care and Billing Request Message Oracle Field Service Cloud Request Message | | | | | | DVM Mapping | | |
|---|----------------|---------|---------------------------|-------------------------|------------|-------------|---|-----------------------------------|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Utilities Customer Care and Billing Column | Oracle Field Service Cloud Column |
| highLimit | registers | decimal | u_existing_meter_TOU2 | activities | string | | | |
| lowLimit | registers | decimal | u_existing_meter_upper_li | activities | string | | | |
| mit2 | | | | | | | | |
| numberOfDigitsRight | registers | decimal | u_existing_meter_lower_li | activities | Integer | | | |
| | | | mit2 | | | | | |
| | | | | u_existing_meter_number | activities | Integer | | |
| | | | ofDecimals2 | | | | | |
| seq | registers | decimal | u_existing_meter_dials2 | activities | Integer | | | |
| unitOfMeasure | registers | String | u_existing_meter_read_se | activities | string | | | |
| q3 | | | | | | | | |
| timeOfUse | registers | String | u_existing_meter_uom3 | activities | string | | | |
| highLimit | registers | decimal | u_existing_meter_TOU3 | activities | string | | | |
| lowLimit | registers | decimal | u_existing_meter_upper_li | activities | string | | | |
| mit3 | | | | | | | | |
| numberOfDigitsRight | registers | decimal | u_existing_meter_lower_li | activities | Integer | | | |
| | | | mit3 | | | | | |
| | | | | u_existing_meter_number | activities | Integer | | |
| | | | ofDecimals3 | | | | | |
| seq | registers | decimal | u_existing_meter_dials3 | activities | Integer | | | |
| unitOfMeasure | registers | String | u_existing_meter_read_se | activities | string | | | |
| q4 | | | | | | | | |
| timeOfUse | registers | String | u_existing_meter_uom4 | activities | string | | | |
| highLimit | registers | decimal | u_existing_meter_TOU4 | activities | string | | | |
| lowLimit | registers | decimal | u_existing_meter_upper_li | activities | string | | | |
| mit4 | | | | | | | | |
| numberOfDigitsRight | registers | decimal | u_existing_meter_lower_li | activities | Integer | | | |
| | | | mit4 | | | | | |

| Oracle Utilities Customer Care and Billing Request Message Oracle Field Service Cloud Request Message | | | | | | DVM Mapping | | |
|---|----------------|---------|--|----------------|------|-------------|---|-----------------------------------|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Utilities Customer Care and Billing Column | Oracle Field Service Cloud Column |
| | | | u_existing_meter_number ofDecimals4 | activities | | Integer | | |
| seq | registers | decimal | u_existing_meter_dials4 | activities | | Integer | | |
| unitOfMeasure | registers | String | u_existing_meter_read_se q5 | activities | | string | | |
| timeOfUse | registers | String | u_existing_meter_uom5 | activities | | string | | |
| highLimit | registers | decimal | u_existing_meter_TOU5 | activities | | string | | |
| lowLimit | registers | decimal | u_existing_meter_upper_li mit5 | activities | | string | | |
| numberOfDigitsRight | registers | decimal | 5u_existing_meter_lower_1 imit4 | activities | | Integer | | |
| | | | u_existing_meter_number ofDecimals5 | activities | | Integer | | |
| registerConstant | registers | decimal | u_existing_meter_dials5 | activities | | Integer | | |
| consumptionType | registers | String | | | | | | |
| howToUse | registers | String | | | | | | |
| numberOfDigitsLeft | registers | decimal | | | | | | |
| fullScale | registers | decimal | | | | | | |
| readOutType | registers | string | | | | | | |
| protocol | registers | string | | | | | | |
| tolerance | registers | decimal | | | | | | |
| channelId | registers | string | | | | | | |
| intervalRegisterType | registers | string | | | | | | |
| unitOfMeasure2 | registers | string | | | | | | |
| timeOfUse2 | registers | string | | | | | | |

| Oracle Utilities Customer Care and Billing Request Message Oracle Field Service Cloud Request Message | | | | | DVM Mapping | | | |
|---|-------------------------|-------------------|--------------|----------------|-------------|-----|---|-----------------------------------|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Utilities Customer Care and Billing Column | Oracle Field Service Cloud Column |
| protocolDescr | registers | string | | | | | | |
| readOutTypeDescr | registers | string | | | | | | |
| intvDescr | registers | string | | | | | | |
| isInterval | registers | boolean | | | | | | |
| regType | registers | string | | | | | | |
| registerInformation | registers | string | | | | | | |
| registryCharacteristics | registers | Complex List Type | | | | | | |
| registerId | registryCharacteristics | string | | | | | | |
| characteristicType | registryCharacteristics | string | | | | | | |
| sequence | registryCharacteristics | decimal | | | | | | |
| characteristicValue | registryCharacteristics | string | | | | | | |
| adhocCharacteristicValue | registryCharacteristics | string | | | | | | |
| characteristicValueForeignKey1 | registryCharacteristics | string | | | | | | |
| characteristicValueFK2 | registryCharacteristics | string | | | | | | |
| characteristicValueFK3 | registryCharacteristics | string | | | | | | |
| characteristicValueFK4 | registryCharacteristics | string | | | | | | |
| characteristicValueFK5 | registryCharacteristics | string | | | | | | |
| characteristicTypeDescriptorOption | registryCharacteristics | string | | | | | | |
| characteristicTypeFlag | registryCharacteristics | string | | | | | | |
| characteristicValueDescription | registryCharacteristics | string | | | | | | |

| Oracle Utilities Customer Care and Billing Request Message | | | | Oracle Field Service Cloud Request Message | | | | DVM Mapping | |
|--|-------------------------|-------------------|--------------|--|------|-----|---|-----------------------------------|--|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Utilities Customer Care and Billing Column | Oracle Field Service Cloud Column | |
| characteristicValueForeignKeys | registryCharacteristics | string | | | | | | | |
| characteristicValueForeignKeyInformation | registryCharacteristics | string | | | | | | | |
| isCompoundPrimaryKey | registryCharacteristics | boolean | | | | | | | |
| characteristicValuePk | registryCharacteristics | string | | | | | | | |
| meterReadId | fieldActivityExtract | string | | | | | | | |
| readDateTime | fieldActivityExtract | dateTime | | | | | | | |
| canUseOnBill | fieldActivityExtract | boolean | | | | | | | |
| meterReadDataArea | fieldActivityExtract | string | | | | | | | |
| meterReadSource | fieldActivityExtract | string | | | | | | | |
| meterReaderId | fieldActivityExtract | string | | | | | | | |
| registerReading | fieldActivityExtract | Complex List Type | | | | | | | |
| registerReadingId | registerReading | string | | | | | | | |
| meterReadId | registerReading | string | | | | | | | |
| seq | registerReading | decimal | | | | | | | |
| registerId | registerReading | string | | | | | | | |
| readType | registerReading | string | | | | | | | |
| registerReading | registerReading | decimal | | | | | | | |
| lowLimit | registerReading | decimal | | | | | | | |
| highLimit | registerReading | decimal | | | | | | | |
| isHighLowReviewed | registerReading | boolean | | | | | | | |
| isTrended | registerReading | boolean | | | | | | | |

| Oracle Utilities Customer Care and Billing Request Message Oracle Field Service Cloud Request Message | | | | | DVM Mapping | | | |
|---|----------------------|---------|---------------------|----------------|-------------|--------------------------|---|-----------------------------------|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Utilities Customer Care and Billing Column | Oracle Field Service Cloud Column |
| meterConfigurationIdT | registerReading | string | | | | | | |
| registerReadingMessage | registerReading | string | | | | | | |
| registerInformation | registerReading | string | | | | | | |
| previousRegisterReadInfo | registerReading | string | | | | | | |
| previousMeterReadId | registerReading | string | | | | | | |
| isReadOutsideLimit | registerReading | boolean | | | | | | |
| itemId | fieldActivityExtract | string | u_item_id | activities | String | | | |
| itemBadgeNumber | fieldActivityExtract | string | u_item_nbr | activities | String | | | |
| itemType | fieldActivityExtract | Field | | | | | | |
| itemStatus | fieldActivityExtract | Field | | | | | | |
| itemManufacturingCode | fieldActivityExtract | string | u_item_manufacturer | activities | enumeration | CCBOFSC_Manufacturer.dvm | CCB_Manufacturer | OFSC_Manufacturer |
| itemModelCode | fieldActivityExtract | string | u_item_model | activities | enumeration | CCBOFSC_Model.dvm | CCB_Model | OFSC_Model |
| itemSerialNumber | fieldActivityExtract | string | | | | | | |
| itemReceiveDate | fieldActivityExtract | date | | | | | | |
| itemRetireDate | fieldActivityExtract | date | | | | | | |
| itemRetireReasonCode | fieldActivityExtract | string | | | | | | |
| itemDescr | fieldActivityExtract | string | | | | | | |
| itemTypDescr | fieldActivityExtract | string | | | | | | |
| itemStatusDescr | fieldActivityExtract | string | | | | | | |
| itemMfgDescr | fieldActivityExtract | string | | | | | | |
| itemModelDescr | fieldActivityExtract | string | | | | | | |

| Oracle Utilities Customer Care and Billing Request Message Oracle Field Service Cloud Request Message | | | | | DVM Mapping | | | |
|---|----------------------|-------------------|--------------|----------------|-------------|-----|---|-----------------------------------|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Utilities Customer Care and Billing Column | Oracle Field Service Cloud Column |
| itemCharacteristics | fieldActivityExtract | Complex List Type | | | | | | |
| itemId | itemCharacteristics | string | | | | | | |
| characteristicType | itemCharacteristics | string | | | | | | |
| effectiveDate | itemCharacteristics | date | | | | | | |
| characteristicValue | itemCharacteristics | string | | | | | | |
| adhocCharacteristicValue | itemCharacteristics | string | | | | | | |
| characteristicValueForeignKey1 | itemCharacteristics | string | | | | | | |
| characteristicValueFK2 | itemCharacteristics | string | | | | | | |
| characteristicValueFK3 | itemCharacteristics | string | | | | | | |
| characteristicValueFK4 | itemCharacteristics | string | | | | | | |
| characteristicValueFK5 | itemCharacteristics | string | | | | | | |
| sortSequence | itemCharacteristics | decimal | | | | | | |
| characteristicTypeFlg | itemCharacteristics | string | | | | | | |
| characteristicValueDescription | itemCharacteristics | string | | | | | | |
| characteristicValueForeignKey2 | itemCharacteristics | string | | | | | | |
| characteristicValueForeignKeyInformation | itemCharacteristics | string | | | | | | |
| isCompoundPrimaryKey | itemCharacteristics | boolean | | | | | | |
| characteristicValuePk | itemCharacteristics | string | | | | | | |
| characteristicTypeDescription | itemCharacteristics | string | | | | | | |

| Oracle Utilities Customer Care and Billing Request Message Oracle Field Service Cloud Request Message | | | | | DVM Mapping | | | |
|---|----------------------|-------------------|--------------|----------------|-------------|-----|---|-----------------------------------|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Utilities Customer Care and Billing Column | Oracle Field Service Cloud Column |
| itemEquipments | fieldActivityExtract | Complex List Type | | | | | | |
| itemId | itemEquipments | string | | | | | | |
| equipmentId | itemEquipments | string | | | | | | |
| installationDate | itemEquipments | date | | | | | | |
| removalDate | itemEquipments | date | | | | | | |
| equipmentCount | itemEquipments | decimal | | | | | | |
| comment | itemEquipments | string | | | | | | |
| badgeNumber | itemEquipments | string | | | | | | |
| itemTypeDescr | itemEquipments | string | | | | | | |
| saInformation | fieldActivityExtract | Complex List Type | | | | | | |
| serviceAgreement | saInformation | string | | | | | | |
| cisDivision | saInformation | string | | | | | | |
| saType | saInformation | string | | | | | | |
| accountId | saInformation | string | | | | | | |
| status | saInformation | string | | | | | | |
| startDate | saInformation | date | | | | | | |
| endDate | saInformation | date | | | | | | |
| customerRead | saInformation | string | | | | | | |
| rateSchedule | saInformation | string | | | | | | |
| servicePointId | saInformation | string | | | | | | |
| saSPId | saInformation | string | | | | | | |
| serviceAgreementId | saInformation | string | | | | | | |
| startDateTTime | saInformation | dateTime | | | | | | |

| Oracle Utilities Customer Care and Billing Request Message Oracle Field Service Cloud Request Message | | | | | DVM Mapping | | | |
|---|----------------------|-------------------|----------------|----------------|-------------|-----|---|-----------------------------------|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Utilities Customer Care and Billing Column | Oracle Field Service Cloud Column |
| startMeterRead | saInformation | string | | | | | | |
| stopDateTime | saInformation | dateTime | | | | | | |
| howToUseRead | saInformation | string | | | | | | |
| stopMeterRead | saInformation | string | | | | | | |
| usePercent | saInformation | decimal | | | | | | |
| servicePointSubType | saInformation | string | | | | | | |
| callOrigFMT | saInformation | string | | | | | | |
| accountInfo | fieldActivityExtract | Complex List Type | | | | | | |
| accountId | accountInfo | string | customerNumber | activities | string | | | |
| billCycle | accountInfo | string | | | | | | |
| setUpDate | accountInfo | date | | | | | | |
| currency | accountInfo | string | | | | | | |
| accountManagementGr oup | accountInfo | string | | | | | | |
| alertInformation | accountInfo | string | | | | | | |
| billAfter | accountInfo | date | | | | | | |
| shouldProtectBillCycle | accountInfo | boolean | | | | | | |
| cisDivision | accountInfo | string | | | | | | |
| mailingPremise | accountInfo | string | | | | | | |
| shouldProtectMailingPre mise | accountInfo | boolean | | | | | | |
| collectionClass | accountInfo | string | | | | | | |
| lastCreditReviewDate | accountInfo | date | | | | | | |

| Oracle Utilities Customer Care and Billing Request Message Oracle Field Service Cloud Request Message | | | | | DVM Mapping | | | |
|---|----------------|----------------------|--------------|----------------|-------------|-----|---|-----------------------------------|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Utilities Customer Care and Billing Column | Oracle Field Service Cloud Column |
| postponeCreditReviewU ntil | accountInfo | date | | | | | | |
| isInternalCreditReview | accountInfo | boolean | | | | | | |
| customerClass | accountInfo | string | | | | | | |
| billPrintIntercept | accountInfo | string | | | | | | |
| doNotReviewDeposit | accountInfo | boolean | | | | | | |
| budgetPlan | accountInfo | string | | | | | | |
| shouldProtectDivision | accountInfo | boolean | | | | | | |
| accessGroup | accountInfo | string | | | | | | |
| accountDataArea | accountInfo | string | | | | | | |
| canQuickAddT | accountInfo | boolean | | | | | | |
| mainPersonId | accountInfo | string | | | | | | |
| accountName | accountInfo | string | customerName | activities | string | | | |
| personOrBusiness | accountInfo | string | | | | | | |
| personLifeSupportSensit iveLoadFlg | accountInfo | string | | | | | | |
| personLifeSupportSensit iveLoadFlgDescr | accountInfo | string | | | | | | |
| personLifeSupportSensit iveLoadDescr | accountInfo | string | | | | | | |
| personPhones | accountInfo | Complex List Type | | | | | | |
| personId | personPhones | string | | | | | | |
| sequence | personPhones | decimal | | | | | | |
| internationalPrefix | personPhones | string | | | | | | |
| phone | personPhones | string | | | | | | |

| Oracle Utilities Customer Care and Billing Request Message Oracle Field Service Cloud Request Message | | | | | DVM Mapping | | | |
|---|----------------------|-------------------|--------------|----------------|-------------|-----|---|-----------------------------------|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Utilities Customer Care and Billing Column | Oracle Field Service Cloud Column |
| extension | personPhones | string | | | | | | |
| phoneType | personPhones | string | | | | | | |
| phoneTypeFlg | personPhones | string | | | | | | |
| personContactDetails | accountInfo | Complex List Type | | | | | | |
| contactDetail | personContactDetails | string | | | | | | |
| contactDetailValue | personContactDetails | string | | | | | | |
| contactDetailValueExte nsion | personContactDetails | string | | | | | | |
| personContactType | personContactDetails | string | | | | | | |
| contactDetailStatus | personContactDetails | string | | | | | | |
| dndEnd | personContactDetails | time | | | | | | |
| contactDetailPrimary | personContactDetails | string | | | | | | |
| dndStart | personContactDetails | time | | | | | | |
| personId | personContactDetails | string | | | | | | |
| contactDetailActiveInact ive | personContactDetails | string | | | | | | |
| contactNickname | personContactDetails | string | | | | | | |
| personContactTypeDesc riptor | personContactDetails | string | | | | | | |
| allowDoNotDisturb | personContactDetails | string | | | | | | |
| phoneFormat | personContactDetails | string | | | | | | |
| primaryFlag | personContactDetails | boolean | | | | | | |
| contactRouting | personContactDetails | string | | | | | | |
| contactRoutingDescr | personContactDetails | string | | | | | | |

| Oracle Utilities Customer Care and Billing Request Message Oracle Field Service Cloud Request Message | | | | | DVM Mapping | | | |
|---|----------------------|----------------------|------------------|----------------|-------------|-----|---|-----------------------------------|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Utilities Customer Care and Billing Column | Oracle Field Service Cloud Column |
| allowPersonContactStat us | personContactDetails | string | | | | | | |
| statusControlledByProce ss | personContactDetails | string | | | | | | |
| enableIfPersonHas Account | personContactDetails | string | | | | | | |
| personHasAccount | personContactDetails | string | | | | | | |
| optInButtonLabel | personContactDetails | string | | | | | | |
| initOptInScriptCode | personContactDetails | string | | | | | | |
| affectCreditRatingBy | accountInfo | decimal | | | | | | |
| cashOnlyPoints | accountInfo | decimal | | | | | | |
| currentAmount | accountInfo | ouaf:money | currentAmount | activities | string | | | |
| payOffAmount | accountInfo | ouaf:money | payOffAmount | activities | string | | | |
| disputedAmount | accountInfo | decimal | | | | | | |
| arrearsAmountDisputed | accountInfo | decimal | | | | | | |
| arrearsAmount0ToXDa ys | accountInfo | decimal | | | | | | |
| arrearsAmountXTo30D ays | accountInfo | decimal | thirtyDaysAmount | activities | string | | | |
| arrearsAmount3160Day s | accountInfo | decimal | | | | | | |
| arrearsAmount61Older Days | accountInfo | decimal | over60DaysAmt | activities | string | | | |
| billInformation | accountInfo | Complex List Type | | | | | | |
| billId | billInformation | string | | | | | | |
| billDate | billInformation | date | | | | | | |

| Oracle Utilities Customer Care and Billing Request Message Oracle Field Service Cloud Request Message | | | | | DVM Mapping | | | |
|---|--------------------------------|-------------------|--------------|----------------|-------------|-------------------------|---|-----------------------------------|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Utilities Customer Care and Billing Column | Oracle Field Service Cloud Column |
| paymentInfo | accountInfo | Complex List Type | | | | | | |
| paymentId | paymentInfo | string | | | | | | |
| paymentEventId | paymentInfo | string | | | | | | |
| paymentDate | paymentInfo | date | | | | | | |
| cancelReason | paymentInfo | string | | | | | | |
| cancelReasonDescr | paymentInfo | string | | | | | | |
| featureConfigurationOperations | fieldActivityExtract | Complex List Type | | | | | | |
| optionType | featureConfigurationOperations | string | | | | | | |
| sequence | featureConfigurationOperations | decimal | | | | | | |
| value | featureConfigurationOperations | string | | | | | | |
| miscInfo | sendDetails | Complex Type | | | | | | |
| latitude | miscInfo | decimal | latitude | activities | double | | | |
| longitude | miscInfo | decimal | longitude | activities | double | | | |
| miscInfoCM | sendDetails | Group | | | | | | |
| | | | u_xa_product | activities | string | CCBOFSC_ConfigProps.dvm | PropertyName | Value |

Create/Update Activity Response Mapping

The Response mapping details for Create/Update Activity integration point are as shown in the table below:

| Oracle Field Service Cloud bulkUpdate Response Message | | | Oracle Utilities Customer Care and Billing Response Message | | | DVM Mapping | | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
|---|---|---------------|---|-----------------|---------------|-------------|--|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | | | |
| bulkUpdate_POSTResponse | | Outermost Tag | responseDetails | C1-FASendOutMsg | Outermost Tag | | | | |
| activities.definitions.customActionActivityBulkUpdateSchemaResponse | bulkUpdate_POSTResponse | | | | | | | | |
| results | activities.definitions.customActionActivityBulkUpdateSchemaResponse | | | | | | | | |
| activityKeys | results | | | | | | | | |
| activityId | activityKeys | String | String | responseDetails | String | | | | |

Device Verification

This section describes data mapping for the following:

- Device Verification Request Mapping

Device Verification Request Mapping

The request mapping details for Device Verification integration point are as shown in the table below:

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Request Message | | | DVM Mapping | | |
|--|-----------------|--------|--|--|------|-------------|---|-----------------------------------|
| Element Name | Parent Element | Type | Attribute Name | Parent Element | Type | DVM | Oracle Utilities Customer Care and Billing Column | Oracle Field Service Cloud Column |
| QueryParameters | | | MeterItemFlag | ValidateMeterItemService/ ValidateMeterItemHeader | | String | | |
| u_meter2_number | QueryParameters | String | BadgeNumber | ValidateMeterItemHeader | | String | | |
| u_service_pt_id | QueryParameters | String | ServicePointID | ValidateMeterItemHeader | | String | | |
| u_new_item_nbr | QueryParameters | String | BadgeNumber | ValidateMeterItemHeader | | String | | |
| u_service_pt_id | QueryParameters | String | ServicePointID | ValidateMeterItemHeader | | String | | |

Device Verification Response Mapping

The response mapping details for Device Verification integration point are as shown in the table below:

| Oracle Utilities Customer Care and Billing Response Message | | | Oracle Field Service Cloud Response Message | | | DVM Mapping | | |
|---|----------------|------|---|----------------|------|-------------|---|-----------------------------------|
| Element Name | Parent Element | Type | Attribute Name | Parent Element | Type | DVM | Oracle Utilities Customer Care and Billing Column | Oracle Field Service Cloud Column |
| | | | response-wrapper | | | | | |

| Oracle Utilities Customer Care and Billing Response Message | | Oracle Field Service Cloud Response Message | | | DVM Mapping | | Oracle Utilities Customer Care and Billing Column | Oracle Field Service Cloud Column |
|---|---|---|---------------------------|------------------|-------------|--------------------------------|---|-----------------------------------|
| Element Name | Parent Element | Type | Attribute Name | Parent Element | Type | DVM | | |
| MeterConfigurationType | ValidateMeterItemResponse/ValidateMeterItemService/ValidateMeterItemDetails | String | u_meter1_type | response-wrapper | enumeration | CCBOFSC_MeterConfigurationType | CCB_MeterConfigurationType | OFSC_MeterConfigurationType |
| MeterConfigurationType | ValidateMeterItemDetails | String | u_new_item_type | response-wrapper | String | | | |
| Registers | | Complex Type | | | | | | |
| RegistersRow | Registers | Complex List Type | | | | | | |
| Seq | RegistersRow | Integer | u_meter1_read_seq | response-wrapper | Integer | | | |
| UnitofMeasure | RegistersRow | String | u_meter1_uom | response-wrapper | enumeration | CCBOFSC_UOM | CCB_UOM | OFSC_UOM |
| NumberofDigitsLeft + NumberofDigitsRight | RegistersRow | | u_meter1_dials | response-wrapper | Integer | | | |
| LowLimit | RegistersRow | decimal | u_meter1_lower_limit | response-wrapper | String | | | |
| HighLimit | RegistersRow | decimal | u_meter1_upper_limit | response-wrapper | string | | | |
| TimeofUse | RegistersRow | String | u_meter1_TOU1 | response-wrapper | enumeration | CCBOFSC_TOU | CCB_TOU | OFSC_TOU |
| NumberofDigitsRight | RegistersRow | Integer | u_meter1_numberofDecimals | response-wrapper | Integer | | | |
| Seq | RegistersRow | Integer | u_meter1_read_seq2 | response-wrapper | Integer | | | |
| UnitofMeasure | RegistersRow | String | u_meter1_uom2 | response-wrapper | enumeration | CCBOFSC_UOM | CCB_UOM | OFSC_UOM |
| NumberofDigitsLeft + NumberofDigitsRight | RegistersRow | | u_meter1_dials2 | response-wrapper | Integer | | | |
| LowLimit | RegistersRow | decimal | u_meter1_lower_limit2 | response-wrapper | String | | | |

| Oracle Utilities Customer Care and Billing Response Message | | | Oracle Field Service Cloud Response Message | | | DVM Mapping | | |
|---|----------------|---------|---|------------------|-------------|-------------|---|-----------------------------------|
| Element Name | Parent Element | Type | Attribute Name | Parent Element | Type | DVM | Oracle Utilities Customer Care and Billing Column | Oracle Field Service Cloud Column |
| HighLimit | RegistersRow | decimal | u_meter1_upper_limit2 | response-wrapper | String | | | |
| TimeofUse | RegistersRow | String | u_meter1_TOU2 | response-wrapper | enumeration | CCBOFSC_TOU | CCB_TOU | OFSC_TOU |
| NumberofDigitsRight | RegistersRow | Integer | u_meter1_numberofDecimals2 | response-wrapper | Integer | | | |
| Seq | RegistersRow | Integer | u_meter1_read_seq3 | response-wrapper | Integer | | | |
| UnitofMeasure | RegistersRow | String | u_meter1_uom3 | response-wrapper | enumeration | CCBOFSC_UOM | CCB_UOM | OFSC_UOM |
| NumberofDigitsLeft + NumberofDigitsRight | RegistersRow | | u_meter1_dials3 | | Integer | | | |
| LowLimit | RegistersRow | decimal | u_meter1_lower_limit3 | | String | | | |
| HighLimit | RegistersRow | decimal | u_meter1_upper_limit3 | | String | | | |
| TimeofUse | RegistersRow | String | u_meter1_TOU3 | | enumeration | CCBOFSC_TOU | CCB_TOU | OFSC_TOU |
| NumberofDigitsRight | RegistersRow | Integer | u_meter1_numberofDecimals3 | | Integer | | | |
| Seq | RegistersRow | Integer | u_meter1_read_seq4 | | Integer | | | |
| UnitofMeasure | RegistersRow | String | u_meter1_uom4 | | enumeration | CCBOFSC_UOM | CCB_UOM | OFSC_UOM |
| NumberofDigitsLeft + NumberofDigitsRight | RegistersRow | | u_meter1_dials4 | | Integer | | | |
| LowLimit | RegistersRow | decimal | u_meter1_lower_limit4 | | String | | | |
| HighLimit | RegistersRow | decimal | u_meter1_upper_limit4 | | string | | | |
| TimeofUse | RegistersRow | String | u_meter1_TOU4 | | enumeration | CCBOFSC_TOU | CCB_TOU | OFSC_TOU |
| NumberofDigitsRight | RegistersRow | Integer | u_meter1_numberofDecimals4 | | Integer | | | |

| Oracle Utilities Customer Care and Billing Response Message | | Oracle Field Service Cloud Response Message | | | DVM Mapping | | | |
|---|----------------|---|----------------------------|----------------|-------------|-------------|---|-----------------------------------|
| Element Name | Parent Element | Type | Attribute Name | Parent Element | Type | DVM | Oracle Utilities Customer Care and Billing Column | Oracle Field Service Cloud Column |
| Seq | RegistersRow | Integer | u_meter1_read_seq5 | | Integer | | | |
| UnitofMeasure | RegistersRow | String | u_meter1_uom5 | | enumeration | CCBOFSC_UOM | CCB_UOM | OFSC_UOM |
| NumberofDigitsLeft + NumberofDigitsRight | RegistersRow | | u_meter1_dials5 | | Integer | | | |
| LowLimit | RegistersRow | decimal | u_meter1_lower_limit5 | | String | | | |
| HighLimit | RegistersRow | decimal | u_meter1_upper_limit5 | | string | | | |
| TimeofUse | RegistersRow | String | u_meter1_TOU5 | | enumeration | CCBOFSC_TOU | CCB_TOU | OFSC_TOU |
| NumberofDigitsRight | RegistersRow | Integer | u_meter1_numberofDecimals5 | | Integer | | | |
| If ValidationStatus is equal to Y then hardcode with Verification Successful else map MessageText | RegistersRow | | u_verify_status_flag | | String | | | |

Get Appointment

This section describes data mapping for the following:

- [Get Appointment Request Mapping](#)
- [Get Appointment Response Mapping](#)

Get Appointment Request Mapping

The request mapping details for Get Appointment integration point are as shown in the table below:

| Oracle Utilities Customer Care and Billing Request Message | | | | Oracle Field Service Cloud Request Message | | | DVM Mapping | |
|--|----------------|--------------|-----------------|--|--------|----------------------|---|-----------------------------------|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Utilities Customer Care and Billing Column | Oracle Field Service Cloud Column |
| sendDetails | C1-GETAPPTS | Complex Type | QueryParameters | | | Outermost Tag | | |
| startDateTime | sendDetails | dateTime | dates | QueryParameters | String | | | |
| endDateTime | sendDetails | dateTime | dates | QueryParameters | String | | | |
| spType | sendDetails | String | | | | | | |
| maximumAppointments | sendDetails | String | | | | | | |
| timeZone | sendDetails | String | | | | | | |
| fieldActivityId | sendDetails | String | | | | | | |
| fieldActivityType | sendDetails | String | activityType | QueryParameters | String | CCBOFSC_ActivityType | CCB_FAType | OFSC_ActivityType |
| address1 | sendDetails | String | | | | | | |
| address2 | sendDetails | String | | | | | | |
| address3 | sendDetails | String | | | | | | |
| address4 | sendDetails | String | | | | | | |
| isMailingAddress | sendDetails | boolean | | | | | | |
| city | sendDetails | String | | | | | | |
| streetNumber1 | sendDetails | String | | | | | | |

| Oracle Utilities Customer Care and Billing Request Message | | | | Oracle Field Service Cloud Request Message | | | DVM Mapping | |
|--|-----------------|-------------------|--------------|--|--------|-----|---|-----------------------------------|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Utilities Customer Care and Billing Column | Oracle Field Service Cloud Column |
| streetNumber2 | sendDetails | String | | | | | | |
| county | sendDetails | String | | | | | | |
| postal | sendDetails | String | postalCode | QueryParameters | String | | | |
| houseType | sendDetails | String | | | | | | |
| taxVendorGeographicalCode | sendDetails | String | | | | | | |
| isInCityLimit | sendDetails | boolean | | | | | | |
| state | sendDetails | String | | | | | | |
| country | sendDetails | String | | | | | | |
| udfCriteria | sendDetails | Complex Type | | | | | | |
| udfCriteriaList | udfCriteria | Complex List Type | | | | | | |
| sequence | udfCriteriaList | decimal | | | | | | |
| udfCriteriaValue | udfCriteriaList | String | | | | | | |

Get Appointment Response Mapping

The response mapping details for Get Appointment integration point are as shown in the table below:

| Oracle Field Service Cloud Activity Booking Options Response Message | | | Oracle Utilities Customer Care and Billing Appointment Request-Response Message | | | DVM Mapping | | |
|--|------------------|-------------------|---|-------------------------|-------------------|----------------------------|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
| executeResponse | | Complex Type | responseDetails | C1-GETAPPTS | Complex Type | | | |
| response-wrapper | executeResponse | | | | | | | |
| dates | response-wrapper | Complex List Type | | | | | | |
| areas | dates | List Type | | | | | | |
| timeSlots | areas | List Type | appointmentBookingsList | responseDetails | Complex List Type | | | |
| label | timeSlots | String | shiftId | appointmentBookingsList | String | | | |
| reason | timeSlots | String | | | | | | |
| originalQuota | reason | double | | | | | | |
| remainingQuota | reason | double | | | | | | |
| date | dates | String | arrivalDateTime | appointmentBookingsList | dateTime | OFSCCCB_Appt_TimeSlots.dvm | OFSC_label | CCB_TimeSlot |
| | | | | | | | PropertyName | Value |
| | | | | | | CCBOFSC_ConfigProps.dvm | | |
| date | dates | String | completionDateTime | appointmentBookingsList | dateTime | OFSCCCB_Appt_TimeSlots.dvm | OFSC_label | CCB_TimeSlot |
| | | | | | | | PropertyName | Value |
| | | | | | | CCBOFSC_ConfigProps.dvm | | |
| | | | rank | appointmentBookingsList | String | | | |

| Oracle Field Service Cloud Activity Booking Options Response Message | | | Oracle Utilities Customer Care and Billing Appointment Request-Response Message | | | DVM Mapping | | |
|--|----------------|--------|---|-------------------------|-------------------|----------------------------|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
| date | dates | String | appointmentWindow DateTime | appointmentBookingsList | dateTime | OFSCCCB_Appt_TimeSlots.dvm | OFSC_label | CCB_TimeSlot |
| | | | | | | CCBOFSC_ConfigProps.dvm | PropertyName | Value |
| date | dates | String | appointmentWindow Duration | appointmentBookingsList | decimal | OFSCCCB_Appt_TimeSlots.dvm | OFSC_label | Duration_InSeconds |
| | | | udfValues | appointmentBookingsList | Complex Type | | | |
| | | | udfValueList | udfValues | Complex List Type | | | |
| | | | sequence | udfCriteriaList | decimal | | | |
| | | | udfCriteriaValue | udfCriteriaList | String | | | |
| | | | messageText | appointmentBookingsList | String | | | |
| | | | messageCategory | appointmentBookingsList | String | | | |
| | | | messageNumber | appointmentBookingsList | decimal | | | |
| | | | messageParameters | appointmentBookingsList | Complex Type | | | |
| | | | parameters | messageParameters | Complex List Type | | | |
| | | | parameterType | parameters | String | | | |
| | | | parameterValue | parameters | String | | | |

Interim Status

This section describes data mapping for the following:

- Interim Status Activity ID Mapping
- Interim Status Request Mapping

Interim Status Activity ID Mapping

The request mapping details for Interim Status integration point are as shown in the table below:

| Oracle Field Service Cloud Request Message | | | Oracle Field Service Cloud Get Activity Request Message | | | DVM Mapping | | |
|--|-----------------|--------|---|----------------|------|-------------|---|-----------------------------------|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Utilities Customer Care and Billing Column | Oracle Field Service Cloud Column |
| events.definitions.activityEvent | | | TemplateParameters | | | | | |
| activityId | activityDetails | String | activityId | | | String | | |

Interim Status Request Mapping

The request mapping details for Interim Status integration point are as shown in the table below:

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Interim Status Request Message | | | DVM Mapping | | |
|--|----------------|------|---|----------------------------|--|-------------|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
| activities.definitions.getActivitySchema | | | C1FieldActivityMaintenance | | | | | |
| | | | | C1FieldActivityMaintenance | Complex eService/C1FieldActivity Maintenance | Type | | |

| Oracle Field Service Cloud Request Message | | | Oracle Utilities Customer Care and Billing Interim Status Request Message | | | DVM Mapping | | |
|--|--|--------|---|---|--------------|----------------------|-----------------------------------|---|
| Element Name | Parent Element | Type | Element Name | Parent Element | Type | DVM | Oracle Field Service Cloud Column | Oracle Utilities Customer Care and Billing Column |
| | | | | C1FieldActivity MaintenanceService | Complex Type | | | |
| apptNumber | activities.definitions.getActivitySchema | String | FieldActivityID | C1FieldActivityMaintenanceHeader/C1FieldActivity MaintenanceService | String | | | |
| | | | C1FieldActivityMaintenance Details | C1FieldActivity MaintenanceService | Complex Type | | | |
| activityId | activities.definitions.getActivitySchema | String | ExternalID | C1FieldActivity MaintenanceDetails | String | | | |
| status | activities.definitions.getActivitySchema | String | IntermediateStatus | C1FieldActivity MaintenanceDetails | String | OFSCCB_InterimStatus | OFSC_InterimStatus | CCB_InterimStatus |