



FOR

ORACLE CUSTOMER CLOUD SERVICE TO ORACLE FIELD SERVICE CLOUD

(ALSO APPLICABLE TO ORACLE UTILITIES CUSTOMER TO METER)

V19.1



#### Disclaimer

Oracle Field Service Cloud Configurations for Oracle Customer Cloud Service Integration to Oracle Field Service Cloud

July 2019

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## Preface

Welcome to the Oracle Field Service Cloud Configuration Guide for Oracle Utilities Customer Cloud Service Integration with Oracle Field Service Cloud. This document focuses on the configuration and administration information of Oracle Field Service Cloud for the integration.

The preface includes the following:

- <u>Audience</u>
- Documentation and Accessibility
- Abbreviations

## Audience

This document is intended for anyone implementing the Oracle Utilities Integration for Customer Cloud Service and Oracle Field Service Cloud.

## Documentation and Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <a href="http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc">http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc</a>.

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## Abbreviations

Term	Expanded Form				
OFSC	Oracle Field Service Cloud				
C2N4	Over ele Utilities Customente Mater				
CZIVI	Oracle Utilities Customer to Meter				
OIC	Oracle Integration Cloud Service				
SA	Service Agreement				
SP	Service Point				
CCS	Customer Cloud Service				

# **Chapter 1: Accelerator Overview**

This chapter focuses on software requirements, Oracle Field Service Cloud, and provides an overview of the configuration. It includes the following:

- <u>Configuration Overview</u>
- <u>Accelerator Package</u>
- <u>Accelerator Activity Types</u>

## Configuration Overview

This section covers basic Oracle Field Service Cloud configurations, such as Activity Types, User Types, Properties, UI screens, validations for these UIs, plugins, and resource configurations.

## Accelerator Package

The accelerator package includes various user types, properties, and plugins. This document explains the configurations for other elements such as activity types, work zones, work skills, work conditions and outbound channel.

The package helps customers configure and set up Oracle Field Service Cloud to be used in the Oracle Utilities Customer Cloud Service Integration with Oracle Field Service Cloud integration as the integration package contains only Oracle Utilities Customer Cloud Service and Oracle Integration Cloud configuration files and instructions. It is used in addition to the integration package which provides a complete end-to-end set up for the integration.

The contents of package are:

- User Types It is used to define layouts and UI screens. The new UIs of Service Point Details, New Meter Details, Existing Meter Details are linked to user types. The details are discussed in UI Validations section.
- Properties The properties are used for creating layouts and mapping.
- Plugins The Device Verification and Unrelated Pickup query (service point query) plugins are part
  of the package, where the earlier takes in badge number and returns the device details if a
  corresponding device exists and the later gets the service points based on the search criteria. Further
  details about enabling plugins are given in later chapter.

## Accelerator Activity Types

This accelerator is a sample and supports only ten Activity Types in this release. The customers should create UIs, described in Customization section, for additional activity types or customize the existing UIs for the supported Activity Types.

- Install Meter
- Disconnect SP Meter and Remove Meter
- Read Meter
- Exchange Meter

- Connect SP at Device (not item)
- Disconnect SP at Device and Remove Device
- Disconnect Warning
- Item Exchange
- Turn on pilot light
- Trim Tree
- Service Investigation

# Chapter 2: Installing Basic Accelerator Package

This chapter takes us through the import of the files that come as a part of the package and configuring them in the Oracle Field Service Cloud environment for the integration to run successfully. Make sure to follow the same sequence in order to walk on happy-path scenario.

The chapter expands on the following configurations:

- <u>Activity Types</u>
- Properties
- Forms and Plugins
- User Types

## **Activity Types**

The activity types are used to define the categories of the activity that are supported by the Oracle Field Service Cloud and in this case, Oracle Utilities Customer Cloud Service Integration with Oracle Field Service Cloud. In the activity type, there are various fields such as time slots, activity status denoted using colors and features that each activity type supports and these can be customized for each activity type.

- 1. Navigate to Configurations.
- 2. On the Configuration page, select Activity Type.
- 3. Select 'Customer' from the list.

<	Cor	nfigurati	on Activity Types					
				Add Group Add Activity Ty	pe V	liew -		
Cus	Customer (ID: -1) Rename							
	ID	Status	Activity Type Name 📥	Activity Type Label	Acti	ons		
	66	×	Commercial Facility Maintenance	05	Modify	Clone		
	74	×	Connect SP at Device (Item)	Connect SP at Item	Modify	Clone		
	62	×	Cooling Maintenance	01	Modify	Clone		
	77	×	Disconnect SP	Disconnect SP	Modify	Clone		
	75	×	Disconnect SP at Device and Remove Device (Item)	Disc SP Dev Rem Dev	Modify	Clone		
	76	×	Disconnect SP at Meter and Remove Meter	Disc SP Met Rem Met	Modify	Clone		
	78	×	Disconnect Warning	Disconnect Warning	Modify	Clone		
	67	×	Estimate	06	Modify	Clone		
	80	×	Item Exchange	Item Exchange	Modify	Clone		
	84	×	Meter Disconnect	Meter Disconnect	Modify	Clone		
	81	×	Meter Exchange	Meter Exchange	Modify	Clone		

If it does not exist, create the group as follows.

a. Click Add Group.

	iervice Cloud	俞	<b>99</b>	<b>\$</b> Q	, 📮 🙆
Configuration Activity	Types				
Customer (ID: -1) Rename			Add Group	Add Activity Ty	View -
D Status	Activity Type Name 📥	Activit	y Type Label		Actions

b. Enter the group name. Example: Customer

#### 4. Click Add Activity Type.

п

5. Enter the name and other activity type details. Click **Add**.

Activity type info				Features		
	* Label * Name * English SpanishLA	Disconnect Warr	ning	<ul> <li>Teamwork</li> <li>Multi-day activity</li> <li>Allow move between resources</li> <li>Allow creation in buckets</li> </ul>		
	Portuguese (Brazil) Active Group * Default Duration	Customer 48	▼ minutes	<ul> <li>Allow reschedule</li> <li>Support of not-ordered activities</li> <li>Allow non-scheduled</li> <li>Support of work zones</li> <li>Support of work skills</li> </ul>		
	Color scheme			<ul> <li>Support of time slots</li> <li>Support of inventory</li> <li>Support of links</li> </ul>		
Copy from Pending Completed		▼ FFDE00 79B6EB		<ul> <li>Support of preferred resources</li> <li>Allow mass activities</li> <li>Allow Repeating Activities</li> <li>Calculate travel</li> </ul>		
	Warning	FFAAAA				
Suspended Not Done Not Ordered	99FFFF 60CECE 1 FFCC99		₽ Ca ₽ AI ₽ AI Er	alculate activity duration using statistics llow to search llow to create from Incoming interface nable 'day before' trigger		
Started	5DBE3F 80FF80		Er	nable 'reminder' and 'change' triggers nable 'not started' trigger nable 'SW warning' trigger		
<ul> <li>Availabl</li> <li>08-10 (0</li> </ul>	le time slots 8:00 AM - 10:00 AM)		<ul> <li>✓ Ca</li> <li>✓ SL</li> <li>✓ (red)</li> </ul>	alculate delivery window LA and Service window use customer time zone equired for routing)		
<ul> <li>10-12 (1</li> <li>13-15 (0</li> </ul>	0:00 AM - 12:00 PM) 1:00 PM - 03:00 PM)		🖉 Su	upport of required inventory		
<ul> <li>15-17 (0</li> <li>All-Day</li> </ul>	3:00 PM - 05:00 PM) (All-day time slot)					
Lunch b	oreak (12:00 PM - 12:30 PM)					

6. For other Activity Types listed earlier (*Install Meter, Disconnect SP Meter and Remove Meter, Meter Read,* Meter Exchange, Connect SP at Item, Disconnect SP Device and Remove Device, Disconnect Warning, Item Exchange, Service Investigation, Turn on Pilot light and Trim Tree) you can just clone and modify the name and details as required.

**Note**: Make sure the label names are exactly the same as given below other wise the new name should be updated in the activity type lookup of OIC.

7. Make sure you have corresponding lookup values in the SOMOFSC\_ActivityType lookup for all activity types in OIC.

For example: D1-InstallMeter (SOM Task Type) corresponding to Meter Install (OFSC Activity Type)

8. Only those Activity Types needed for and specific to the customers are to be added from the above mentioned list.

Activity Type Name	Activity Type Label
Turn on Pilot light	Turn on Pilot light
Service Investigation	Service Investigation
Trim Tree	Trim Tree
Disconnect SP at Device and Remove Device (Item)	Disc SP Dev Rem Dev
Item Exchange	Item Exchange
Connect SP at Item	Connect SP at Item
Meter Exchange	Meter Exchange
Meter Read	Meter Read
Disconnect SP at Meter and Remove Meter	Disc SP Met Rem Met
Connect SP	Connect SP
Meter Install	Meter Install
Disconnect Warning	Disconnect Warning

### Properties

The properties are used to enable the Utility Integration specific UIs created and they are used to map the Oracle Field Service Cloud UI element with a property. Each property can be classified into types such as field, integer, enumeration, string on the basis of requirements and need to be addressed using this property.

This section deals with importing the property file that comes as a part of the accelerator package.

1. Click the **Properites** icon on the **Configuration** page.

#### 2. Click Import.

<	Configuration Properties										
					ew Export	Export Import					
	ID	Property name 🔺	Property Label	Туре	Entity	GUI	Actions				
	509	Activity status	astatus	field	Activity	text	Modify				
	662	# Ports	no_ports	integer	Activity	text	Modify				

3. Browse to the location of the file to be imported and click Import.



4. Verify the successful import of the file.



## Forms and Plugins

The plugins are used to make changes to screen and data, based on their type and status of target and parent object. Here we are using plugins to invoke the response for badge number input from Oracle Utilities Customer Cloud Service in the device verification plugin and to retrieve the service points from Oracle Utilities Customer Cloud Service based on the search criteria by the crew in Oracle Field Service Cloud so as to create unrelated pickup activity using unrelated pickup activity plugin.

The device verification plugin accepts the badge number of the device and in response sends various parameters from Oracle Utilities Customer Cloud Service, such as unit of meter, time of use, read sequence, dials, and decimals after verifying the badge number in the Oracle Utilities Customer Cloud Service environment.

The crew has to populate the search criteria in the unrelated pickup activity then this plugin fetches the service points from Oracle Utilities Customer Cloud Service and displays this information in Oracle Field Service Cloud, crew can select the service point that needs to create an unrelated pickup activity.

### Device Verification Plugin

To configure a device verification plugin

- 1. On the Configuration page, navigate to Forms and Plugins.
- 2. Click the Import icon to import the Device Verification plugin provided in the package.

< c	onfiguration Forms & Plugins			Add Form	Add Plugin	Export Plugins	Import Plugins	View -
	Test Form test_form1	Size: Created: Updated: User:	1.41 KB 02/19/19 07:58 AM 02/19/19 08:01 AM Admin			2 Configured links		Ξ
	Hit EQ mobile_inventory_request#2#	Size: Created: Updated: User:	0.93 KB 02/07/19 01:30 AM 02/07/19 01:30 AM			6 Configured links		Ξ
	Send Request mobile_provider_request#4#	Size: Created: Updated: User:	0.97 KB 02/07/19 01:30 AM 02/07/19 01:30 AM			3 Configured links		Ξ

- 3. On the **Plugin Settings** page, do the following:
  - a. Enter the OIC username and password.
  - b. Select VerifyDevice in plugin XML file.
  - c. Select "HTML5" from the **Type** drop-down list.

Forms & Plugir	Modify plugin				
General Information		Plugin settings			
*Name (English)	Device Verification	Туре	HTML5 app	lication 🔻	
Name (Portuguese (Brazil))		Use Plugin API			
Name (SpanishLA)		Hosted plugin	<ul> <li>Image: A start of the start of</li></ul>	_	
*l abol	VorifyDovico	Plugin archive	Choose File	No file chosen	Info
Label	VehiyDevice	Disable plugin in offline	e 🔲		
Entity	Activity •	Secure parameters			
Visibility rules similar to	•	Duplicate names are no	ot allowed. Overal	I size should not excee	d 5 KB.
		uri		Value	
		uname		Value	
		pwd		Value	
		Version history			
		User Mod	ification time		Archive
		Admin 02/2	1/19 05:25 AM		Download
		Admin 02/2	1/19 04:30 AM		Download

4. Ensure that the **Available Properties** tab is populated with all the properties shown below.

Available Prop	erties					
Add properties that n	nust be available t	hrough Plugin API				
Activity						
1Current Index 1	Meter Dials 1Me	ter Dials 4 1Meter D	Dials 5 1Meter Dia	als2 1Meter Dial	s3 1Meter I	Lower Limit
1Meter Lower Limit	2 1Meter Lower	Limit 3 1Meter Low	er Limit 4 1Meter	Lower Limit 5	Meter Read §	Beq
1Meter Read Seq 2	1Meter Read s	eq 3 1Meter Read s	eq 4 1Meter Rea	d seq 5 1Meter	Upper Limit	
1Meter Upper Limit	2 1Meter Upper	Limit 3 1Meter Upp	er Limit 4 1Meter	Upper Limit 5	MeterNumbe	rOfDecimals
1MeterNumberOfDe	ecimals2 1Meter	NumberOfDecimals3	1MeterNumberOf	fDecimals4 1Me	terNumberOf	Decimals5
2Current Index 2	Meter # 3Currer	t Index 4Current Ind	dex 5Current Inde	Activity type	Meter Confi	guration
New Item Number	Service Point ID	Status Time Of U	se Time Of Use	Time Of Use	Time Of Use	Time Of Use
Unit Of Measure	Unit Of Measure	Unit Of Measure U	nit Of Measure	Init Of Measure		

- 5. Click **Device Verification** to configure the plugin.
- 6. On the **User Type** screen configurations, select **Device Verification** to connect it to the specific field on the UI in the **Mobility** page.

Meter Details		[Section name is empty]	Device Details
VerifyDevice		Remove item	Device Verification
I Plugins		2	Status:
Visibility	values	Add new	
<ul> <li>Translations</li> </ul>			

Select screen			×
	Plugins	T	
	Filter by name or label	Q	
Screen	Navigation [NAV_AND] [instance_id_placeholder] [[instan Navigate [navigation_native_app Device Verification1 [DeviceVerif autogenerated plugin (1) [plugin_ autogenerated plugin (2) [plugin_ Device Verification Test [plugin_ Device Verification 19A [DeviceV Device Verification [VerifyDevice Device Verification11 [VerifyDevice	nce_id_placeholder]] i] ication] 1] 2] _4] /erification19A] ] ce1]	*
Cancel			ОК

Until the previous release, crew could verify the existence of a device using the Device Verification feature where the search was based only on Badge Number. Also, the crew had to enter Manufacturer and Model details manually. In this release, Serial Number is included as one of the search criteria along with Badge Number. Manufacturer and Model are part of Device Verification response from Oracle Utilities Customer Cloud Service and gets auto-populated in the respective fields.

To use this feature, select Install **Meter Activity > New Meter Details**. Click **Verify Device** to view the existence of the device.

Service Point Details		
Service Point ID:	016352720152	
Warnings:		r
instructions:		r
instruction Details :		
Life Support:	None	
Meter Information		
New Meter Details		
New Meter Details Verify Device Manual Entry:	No	
New Meter Details Verify Device Manual Entry:	● No ○ Yes	
New Meter Details Verify Device Manual Entry: Badge Number:	● No ○ Yes	
New Meter Details Verify Device Manual Entry: Badge Number:	● No ○ Yes	
New Meter Details Verify Device Manual Entry: Badge Number: Configuration Type:	● No ○ Yes	-
New Meter Details Verify Device Manual Entry: Badge Number: Configuration Type:	● No ○ Yes	-
New Meter Details Verify Device Manual Entry: Badge Number: Configuration Type: Meter Location:	No O Yes	
New Meter Details Verify Device Manual Entry: Badge Number: Configuration Type: Meter Location:	No O Yes	
New Meter Details Verify Device Manual Entry: Badge Number: Configuration Type: Meter Location: Manufacturer:	No O Yes	
New Meter Details Verify Device Manual Entry: Badge Number: Configuration Type: Meter Location: Manufacturer:	No O Yes	
New Meter Details Verify Device Manual Entry: Badge Number: Configuration Type: Meter Location: Manufacturer: Model:	No O Yes	
New Meter Details Verify Device Manual Entry: Badge Number: Configuration Type: Meter Location: Manufacturer: Model:	No O Yes	

The **Device Details** page displays both Badge Number (mandatory) Serial Number (optional).

vice Deta	ails		
Device Type N	leter		
Badge Number	Badge Number		
Serial Number	Serial Number		
		Dismiss	

If the device exists based on the search criteria, the **New Meter Details** page is displayed with autopopulated details including the register information sent by Oracle Utilities Customer Cloud Service.

New Meter Details						
Verify Device						
Manual Entry:	● No ○ Yes					
Badge Number:	KN_001					
Status:	Verification Successful					
Configuration Type:	Default five Registers	•				
Meter Location:		-				
Manufacturer:	Accumeter	•				
Model:	IND1300	-				
Status Left*:		•				

### Unrelated Pickup Activity

To configure an unrelated pickup activity:

- 1. On the Configuration page, navigate to Forms & Plugins.
- 2. Click the Import icon to import the Unrelated Pickup plugin provided in the package.

< c	onfiguration Forms & Plugins			Add Form	Add Plugin	Export Plugins	Import Plugins	View -
	Test Form test_form1	Size: Created: Updated: User:	1.41 KB 021919 07:58 AM 021919 08:01 AM Admin			2 Configured links		Ξ
	Hit EQ mobile_inventory_request#2#	Size: Created: Updated: User:	0.93 KB 02/07/19 01:30 AM 02/07/19 01:30 AM			6 Configured links		Ξ
	Send Request mobile_provider_request#4#	Size: Created: Updated: User:	0.97 KB 02/07/19 01:30 AM 02/07/19 01:30 AM			3 Configured links		Ξ

- 3. Select the unrelated pickup plugin and enter the following details:
  - a. URL Oracle Integration Cloud integration point URL for service point query
  - b. uname/password Oracle Integration Cloud username/password

where, ofscuname/password are username@ofscinstanceid/password

< Forms & Plugi	ns Modify plugin				
General Information	1	Plugin settings			
*Name (English)     Unrelated Pickup     Type     HTML5 application •       Name (Portuguese (Brazill)     Use Plugin API     Image: Compare the second seco					
Visibility rules similar to	Ţ	Duplicate names are not allowed. Overall size	should not exceed 5 KB.	-	
		url	Value	// -	
		uname	Value	// -	
		pwd	Value	// -	
		ofscuname	Value		
		ofscpwd	Value	1	
Cancel					Save

c. Click **Configuration** and select the user type. Navigate to the **Screen Configuration** tab.

General	Screen configuration	Restrictions and Filters		
				Copy or share screen configuration
Applica	tion screens			
		Configuration *		<u>^</u>
		ſ	Schedule booked activity	Deinstall Equipment
			Inventory grid  Start Activity	Install Equipment     Parts details
		Print Route	Cancel Activity	Edit Required Inventory
		Add Activity	End Activity	Add/Details inventory
Activity	list	Book new activity	Suspend Activity	
		1	Not Done Activity	-

- d. Click Application screens to display the structure. Click Activity list.
- e. On the left pane, click **Click to add** and select the unrelated plugin.

Add button		×
	Standard action screen	
* Screen type	Plugins	
	Custom forms	
unr		
Available:		
Unrelated Pickup UnrelatedPickup		~
Selected:		
Add before selected		
Close		ОК

#### f. On the right pane, add new visibility.

	lickup							
English	h		Unrelated Pickup	lenup				
Spanis	shLA							
Portug	juese (Brazil)							
	Save	e name Use original name						
	[Unrelated Pickup] visibility							
Add n	Add new visibility							
	Access		Conditions	Action				
	Read-only		×	Modify				

#### g. Make sure the Available Properties tab displays all the properties as shown in the figure below.

Available P	roperties						
Add properties t	hat must be av	ailable thro	ugh Plu	gin API			1
Activity							
Activity Notes	Activity type	Address	City	Service Point ID	Service Point Source Status Code		
Service Point S	Source Status E	escription	Servi	ce Point Status Cod	le Service Point Status Description	Service Point Type	
Service Point T	Type Description	n State	ZIP/Po	ostal Code			

h. After the plugin is configured, select the XML file in the **User Type Screen Configurations** field to connect it to the specific field on the UI in the **Mobility** page.

In this release, crew can specify search criteria and send request to Oracle Utilities Customer Cloud Service for service points. From the retrieved service points, crew can select a service point and raise a service investigation activity. The search criteria include address, city, postal code, latitude, and longitude.

$\equiv$ ORACLE	Field Service Cloud				
	Idle time	8:53	My Route		<b>₽</b>
		Deactivate Queue	0%	1 Completed	
			Activities	Add Activity	
			F+ Start Activity	Options	
			Unrelated Pickup		

1. On the **Mobility** page, select **Unrelated Pickup** to use this feature.

2. On the Unrelated Pickup page, search for service points.

< Back		Unrelated Pickup	Q
Search f	or Service Point		
Street Address	Enter Address		
City	Enter City		
Postal Code	Enter PostalCode		
Latitude	Provide Latitude. Range: +/- 0.000000 to 90.000000		
Longitude	Provide Longitude. Range: +/- 0.000000 to 180.000000		
			Search
List of Se	ervice Points		

ack		Unrelated Pickup		Q
Search fo	or Service Point			
Street Address	404			
City	stark			
Postal Code	Enter PostalCode			
_atitude	Provide Latitude. Range: +/- 0.000000 to 90.000000			
Longitude	Provide Longitude. Range: +/- 0.000000 to 180.000000			
				Search
_ist of Se	rvice Points			Search
List of Se		Service Point Type	SP Source Status	Search

- 3. Select the desired service point from the list and click **Select**.
- 4. Click **Add Activity** to create the activity.

After successful creation of the activity in Oracle Field Service Cloud, the corresponding activity is created in Oracle Utilities Customer Cloud Service.

Add Activity	1
Activity Type	Service Investigation $\sim$
Address	404, Not Found Drive, Error Road
City	Stark
State	OH
Country	US
Postal Code	44720
Service Point Type	Electric Residential
Service Point ID	618303598544
Activity Notes	
Activity has been creat	led succesfully. OFSC Activity ID: 4224311

## User Types

The user types are used to manage permissions for all users. Each user type has a profile that defines security and display permissions, such as the user's login method, the ability to use certain functions, and access to menu items and properties. Screen configuration settings define the screens, windows, pop-up windows and other elements visible to a certain user type. They also support the context layout editor, in which the content, arrangement, and visibilities of each context are set.

Create custom screen context layouts for Oracle Customer Cloud Service Integration to Oracle Field Service Cloud by accessing the screen configuration settings in the specific user types.

Prerequisites: make sure to load the Properties, Activity Types, and Plugins before getting started.

To create a user type:

- 1. On the **Configuration** screen click the **User Types** icon.
- 2. Click Import to import the user types.



3. Browse to the location and click Validate.

mport user types	×
* Choose file	Browse
Cancel	Validato

4. After successful validation, click **Import** to import the file.

	<ul> <li>Output to the second sec</li></ul>	Import
cessfully imported	1	
orted with warnings		
imported		
dation Details		

5. Verify the successful import.

Results	Validation	Import
Successfully imported	1	1 🗸
Imported with warnings		
Not imported		
Validation Details		

# Chapter 3: Additional OFSC Configurations

This chapter elaborates on the additional configuration of organization, work zones, outbound channels, and UI validations in user types. It includes the following:

- <u>Checklist</u>
- Organization
- Work Zones
- Work Skills
- <u>Resource and Bucket Info</u>
- Outbound Channel
- UI Validations

## Checklist

Before getting started with Oracle Field Service Cloud configuration, verify that the following files and data are available:

- All the Activity Types specific to customer are created
- Properties are imported
- User Types are imported
- Plugins are configured
- Quota is allocated and does not need to be configured
- Name of Organization
- Work Skills to be created
- Name of the resources, work zones
- Details of Oracle Integration Cloud to be used to create the Outbound Channel

## Organization

An Organization can have buckets, organization units (Org Units), field resources, tools or vehicle associations. Create an organization before adding any type of resource.

To create an organization:

- 1. On the **Configuration** page, click **Organization**.
- 2. Click Add New to add a new Organization.

			Â	<b>.</b>	diii	≣	Q	P	•
Configuration Organizations									
Sumrise Cable Organization Units: 18   Buckets: 9	257 Resources	2 Vehicles						A	dd new

3. Enter the name of the Organization and click Submit to save it.

Edit Organization		×
* English	Sunrise Utilities	
Portuguese (Brazil)		
SpanishLA		
* Label	Sunrise Utilities	
Туре	In-house V	
Discard changes		Submit

## Work Zones

Work zone is used to divide area in different zones for better scheduling of crews. Work zone keys are used to give ZIP/ Postal code to better facilitate the division through the Service Point information that comes from Oracle Utilities Customer Cloud Service.

- 1. On the **Configuration** page, click **Work Zone**.
- 2. Make sure the **Work Zone Key** (top-left corner) displays the ZIP/Postal Code.

<	Config	guration	Work Zones				
Wor	Zone Ke	y: ZIP/Posta	I Code(5, case insensitive) Modify		Add New Travel Areas	Export	nport View -
	ID	Status	Work zone name 🐨	Work Zone Keys		Actions	Shapes
	10	×	WINTER SPRINGS	32708		Modify	Shape
	13	×	STARK	44720		Modify	

3. On the **Work Zones** page, click **Add New** to add the required postal codes as the work zone keys.

* Work zone name	Stark	
* Work zone label	Stark	
Status	Active	T
Delimiter	new line	T
Travel Area	Sunrise Ente	Y
Work Zone Keys	32704 44720	

4. Click **Add** to save the new work zone.

## Work Skills

The work skills are used to assign activities to workers. Incoming activities are also assigned work skills based on certain conditions being met, and are matched up with resources with corresponding skills during routing.

This integration includes only two skills:

- 1. On the **Configuration** page, click **Work Skills**.
- 2. Click Add New to add new work skill.
- 3. Enter the details of the work skill.
- 4. Add the work skills "*Meter Services, Ops and Maintenance*". (Replace "Electric" as shown in the figure below.)

A	dd work skill		×
*	Name		
*	English	Electric	
	SpanishLA		
	Portuguese (Brazil)		
*	Label	Electric	
	Sharing of the skill in teamwork	Maximal 🔻	
	Active		
	Close		Save

- 5. After adding the work skills, click **Work Skill Condition**.
- 6. Make sure "Meter Services" is included and configured as shown below. Click **Save**.

Edit work skill c	ondition: "Me	ter Services(1/1)	)"				2
* Work skill name	Meter Services	Y					
* Required level	1						
* Preferable level	1						
Activity type [awor	ktype]	·	In	<ul> <li>Meter Disconnect, Meter Exchange, Meter Install, Connect SP at Device (Item), Disconnect SP at Meter and Remove Meter, Disconnect SP at Device and Remove Device (Item), Meter Read, Item Exchange, Disconnect SP</li> </ul>	1	×	
*	_			Di			
Close							Save

## **Resource and Bucket Information**

Oracle Field Service Cloud uses bucket and resources to categorize the resources. Use the bucket as a resource type to route the entire meter service tasks to workers. In this bucket, create two resources - field workers assigned the field activities from Oracle Utilities Customer Cloud Service.

To configure resource and bucket information:

1. Click the icon on the top left corner of the title bar.



2. Select Resource & Bucket Info and click Add.

Resource &	Bucket Info > Sunri	se Cable	Add Child	Resource History
Resource Inform	nation			
External ID	Cable	Credence		
* Name	Sunrise Utilities			
Status	Active			
* Resource type	Group 🔻			
* Organization	Sunrise Utilities <b>v</b>			//
Time zone	Eastern 🔻			
* Time format	24-hour ▼			
* Date format	mm/dd/yy 🔻			
Work Skills				
Work Skills			+	

- 3. Add a new bucket by selecting **Bucket** in the **Resource type** on the **Add Child** page.
- 4. Enter the required details and click **OK**.
- 5. Click Add Child. Select Technician in the Resource type drop-down list.

New Resource, Bucket, or Gr	oup Info		×
* Name			
External ID			
Status	Active •		
Email address		Write	
Phone		Call	
Time format	24-hour 🔻		
Date format	mm/dd/yy 🔻		
* Resource type	Bucket •		
* Organization	Sunrise Utilities <b>•</b>		
Credence			
			1
Close			ОК

9. Add Work Skills for this Technician by selecting the various available work skills and click on Save button

Add Work Skills	×
✓ Electric	100
Install	
Meter Services	100
Non-Pay	
Ops and Maintenance	100
Preventive	
Restart/Reconnect	
Date From 10/12/18	Date To
Close	Save

## **Outbound Channel**

This element is used to create a channel to communicate with Oracle Utilities Customer Cloud Service through Oracle Integration Cloud. We can choose from various channel types but since Oracle Customer Cloud Service Integration to Oracle Field Service Cloud is through Oracle Integration Cloud, use Integration Cloud Service as a channel type.

To configure an outbound channel:

- 1. On the **Configuration** page, click the **Outbound Integration** icon.
- 2. Click Add Channel. Enter the necessary details and click OK.

Service •	
	ок

## Offline Vs Online Mode

In the field when the crew is enroute to perform an activity there can be chances that the location may not have the network which we call it as offline mode where as if the network exits the mode is online.

In the earlier case the crew cannot fetch device information as lack of network he/she cannot send a request for device verification. In order to overcome this the crew has to say the manual entry as 'Yes' and then select appropriate configuration type which will auto populate all the registers information.

### Offline Mode Configurations

- 1. As different customers may have various configurations in order to auto populate the registers information one has to do the following configuration.
- 2. Click on UOM in the new meter reading details section and expand default value and validation section.

			🟫 🕺 📠 🌣	Q 📮
Visual Form Editor > C2M OFSC > Edit/View activity			Clear Copy to - Undo	Validate Sav
Add new element Q		c2m_meter1_uom		Remove item
Section	Registers Information	🔺 Data binding		Â.
Tab	New Meter Reading Details	Activity field	c2m_meter1_uom	1
Text	Read Sequence:	Туре	Combobox v	
Button	Unit Of Measure:	Visibility		Add new
Input	Time Of Usage:	<b>RW</b> By default for all v	ralues	
Checkbox	Dials:	Value visibility (0	items)	
List	Decimals:	Default value and	l validation	
Image	Reading:	Default value	if(activity.c2m_new_meter_type= ('INT-OFSC-I MANUALMTR1'), 2,0 ) OR if(activity.c2m_new_meter_type= ('INT-OFSC-I	°C- <b>⊙</b> ≑
File element	Override Reading:	Validation	(activity.c2m_offline_mode_override='Yes')	
Signature	SQI:	Validation error me	essage	

- 3. The default value code is displayed as
- if(activity.c2m\_new\_meter\_type= ('INT-OFSC-DC-MANUALMTR1'), 2,0 ) OR if(activity.c2m\_new\_meter\_type= ('INT-OFSC-DC-MANUALMTR2'), 2,0 )
- 5. In the above code, if(activity.c2m\_new\_meter\_type= ('INT-OFSC-DC-MANUALMTR1'), 2,0 ) tells OFSC that if the meter type is ''INT-OFSC-DC-MANUALMTR1' then the UOM value is 2 otherwise it is 0.
- 6. In order to know what is 2 open respective property and see the index value 2 in the above code represents KHW as shown below.

**Note**: Users can extend values in the property of type enumeration and can have values in the index based on their requirement. For example: KWH can have an index KWH.

Modify Property		×
Property hint		-
English		
SpanishLA		
Portuguese (Brazil)		
Entity	Activity	
GUI	Combobox Radiogroup	
Clone property data on Reopen or Prework		
Enumeration values		.
* English		
SpanishLA		
Portuguese (Brazil)		- 1
Active	Add Change	
	KW[1] KWH[2]	

- 7. Same with the case TOU, SQI, Dials, Decimals for all registers.
- 8. No configurations required for online mode.

To perform the offline operations the user has to perform the following steps.

- 1. Login to the mobile application.
- 2. From the activities assigned to the crew, select **Install Meter**.
- 3. In the displayed user interface select 'Meter Details' to enter the information and if the crew finds that there is no network, then the crew has to first select Manual Entry as 'Yes' and then select the configuration type.

Service Point ID:	016352720152	
Warnings:		•
Instructions:		•
Instruction Details :		
Life Support:	None	
Meter Information		
Meter Information New Meter Details		
Meter Information New Meter Details	O No ⊛ Yes	
Meter Information New Meter Details Manual Entry: Badge Number:	O No ● Yes	
Meter Information New Meter Details Manual Entry: Badge Number: Configuration Type:	○ No ● Yes	~
Meter Information New Meter Details Manual Entry: Badge Number: Configuration Type: Meter Location:	○ No ● Yes	<b>v</b>
Meter Information New Meter Details Manual Entry: Badge Number: Configuration Type: Meter Location: Manufacturer:	O No Yes	• •
Meter Information New Meter Details Manual Entry: Badge Number: Configuration Type: Meter Location: Manufacturer: Model:	○ No	* * *

4. Once the above fields are selected based on the pre-configuration (as explained in the earlier section) the registers information is displayed as below. Crew needs to populate reading and submit.

Service Point D	etails		Registers Infor	mation	
ervice Point ID:	016352720152		New Meter Deeding D	3-4-11-	
arnings:		-	New Meter Reading L	Jetalis	
			Read Sequence:	1	
structions:		-	Unit Of Measure:	KWH	
struction Details :			Time Of Usage:	ON	
fe Support:	None		SQL	PEAK	
			Dials:	5	
			Decimals:	2	
leter Informatio	n		Reading*:		
lew Meter Deta	ails	L			
lanual Entry:	O No ● Yes				
adge Number:					
onfiguration Type:	Default Single Register	Ŧ			
leter Location:		Ŧ			
lanufacturer:		-			
lodel:		Ŧ			
tatus Left*:		Ŧ			

#### Meter Read Override

This functionality is applicable in online mode only.

Based on the type of activity the crew has to enter the meter readings and should be between the high/low boundaries received by Oracle Field Service Cloud from Oracle Utilities Customer Cloud Service upon device

verification. If the reading is outside of these limits then Oracle Field Service Cloud displays corresponding error messages and if crew thinks the meter reading is actually outside the limits then they need to select the override reading and submit the readings.

In order to perform the meter read override the user has to perform the following steps.

- 1. Login to mobile application.
- 2. In the displayed activities assigned to the crew select respective activity.
- 3. Select Meter Details and navigate to the user interface.

Service Point Details	Registers Information
Service Point ID:     618303598544       Warnings:     Instructions:       Instruction Details :     Instruction Details :       Life Support:     None	Keading Details       Read Sequence:     0       Unit Of Measure:     KWH       Dials:     7       Decimals:     2       Reading*:     Image: Comparison of Comparison
Meter Information         Existing Meter Details         Manufacturer:       Accumeter         Model:       IND1300	Override Reading: Override Reading: Override Reading: Overs Lower Limit: 0 Upper Limit: 28.00

- 4. In the above user interface the lower and upper limit is part of the message from Oracle Utilities Customer Cloud Service and it infers that reading should be ideally between these limits but a crew can always override the recommedations.
- 5. If the reading is not between these limits then application displays an error.

Service Point D	Service Point Details		mation
Service Point ID: Warnings: Instructions: Instruction Details : Life Support:	618303598544	Reading Details Read Sequence: Unit Of Measure: Dials: Decimals:	0 KWH 7 2 30
			Please double check and select override reading if needed
Meter Information	on	Override Reading:	● No ○ Yes
Existing Meter	Details	Lower Limit:	0
Manufacturer:	Accumeter	Upper Limit:	28.00
Model:	IND1300		
Status Found*:	~		

6. To submit the reading, select **Override Reading** as **Yes** and click **Submit**.

		_	
Service Point ID:	618303598544	Reading Details	
Warnings:	•	Read Sequence:	0
Instructions:	~	Unit Of Measure:	KWH
Instruction Dotails		Dials:	7
instruction Details .		Decimals:	2
Life Support:	None	Reading*:	30
Meter Informa	tion	Override Reading:	○ No ◉ Yes
		Lower Limit:	0
Existing Meter	Details	Upper Limit:	28.00
Manufacturer:	Accumeter		
Model:	IND1300		

## **Display Profile**

This section is applicable to users with display profile other than "UT16\_DISPLAY\_PROFILE".

Configuration Use	er Types				
+ -		General Scre	en configuration Restrictions and Filte	ers	
Privileged Administrator (UT 14)	3 Users	User type info		/	Access settings
UT14_DISPLAY_PROFILE		* Label	C2M OFSC	6	Allow access via web application
_Privileged CURED_5 (UT 13)	7 Users	* Name	C2M OFSC		Use Legacy Manage for Dispatch operations. This functionality is deprecated and is not recommended for new implementations
UT13_DISPLAY_PROFILE		Active	•		Allow access via installed application for Android
_Privileged soap (UT 15)	2				Allow access via installed application for iOS
UT15_DISPLAY_PROFILE	Users	Login Policy	Default policy	•	Allow legacy access via API using user login and password. This option is used for backward compatibility only. For new integrations
ADMINISTRATOR     UT16_DISPLAY_PROFILE	1 Users				configure the access using application credentials
C2M OFSC	1	Can create use	ers of the following user types:		
C2M OFSC	Users			F	Permissions
		ADMINISTRATOR	C2M OFSC	r .	✓ Maps
		-		6	Allow access to required inventory

If there is a need to change the display profile, then open the usertype.xml file search for manger and change the label based on the OFSC configuration. Also, make sure to change managed\_user\_type label.

Ę	<user_types></user_types>
Ę	<pre>  <user_type display="" label="C2M OFSC" login_policy="Default policy" profile="display5d17997f7623f" status="active"></user_type></pre>
Ę	<translations></translations>
	<translation lang="en" value="C2M OFSC"></translation>
-	
Ę	<pre></pre>
	<pre><manager label="UT16_DISPLAY_FROFILE"></manager></pre>
	<manager label="C2M OFSC"></manager>
	<pre></pre>
Ę	<pre></pre>
	<pre><managed_user_type label="UT16_DISPLAY_PROFILE"></managed_user_type></pre>
	<managed_user_type label="C2M OFSC"></managed_user_type>

# **Chapter 4: User Operations**

This chapter provides step by step instructions about user operations.

- Login to Oracle Field Service Cloud Mobility application, which can be derived by adding '/m' to Oracle Field Service Cloud link <ofsc\_link/m>
- 2) Access the mobility screen using worker/technician's credentials. The screen would show the activities in the queue of the worker as shown below.

Adams, Abigail		10/30/18 08:00 - 17:00
Adjust     Start       50 Park View Enclave, Stark, OH Meter Install     >	My Route	<ul> <li>1 Pending</li> <li>1 Completed</li> </ul>
	Activities	E+ Add Activity
	Options	

3) Click on the Activity (forward arrow) to see a screen with the options to Start, Book Activity. Click on Start to start the activity in the worker's queue.

< Home
Start Cancel Suspend Map Book Activity
Meter Details

4) Once you click on Start, fill in the Odometer details and click Submit.

< Details	Start Activity	Q ¢ 🕏
Work Order: Odometer: Physical Damage:	45680661965112 8922	
		Dismiss Submit

- 5) Click on the Meter Details button on the screen resulting after clicking on submit.
- 6) Once you see a screen similar to the one shown below, enter the badge number and click on submit button

Meter Information					
	Jetalis				
Status Founda:			•		
Status Left*:			•		
Device Verificati	on				
Verify					
Manual Entry:	No		•		
New Meter Deta	New Meter Details				
Badge Number:					
Configuration Type:			•		
Meter Location:			-		

ack		Device Verification	Q
Device Deta	ails		
Device Type M	leter		
Badge Number	Badge Number		
Serial Number	Serial Number		
			Dismiss

7) Again click on Meter Details and land on the same screen where you entered the badge number and click on the verify button below the badge number. You should be able to see a screen as shown below with Verification Successful message and Meter reading information in Registers Information section.

Details		Activity Details		Q 🗘 😫 🐼 🗛
Service Point I Service Point ID:	Details 003088735971	Regis	ters Information	
Warnings:		Read S	ter Reading Details auence: 2	
Instructions:		▼ Unit Of	leasure: KWH	
Instruction Details :		Dials:	7 5: 3	
Life Support:	None	Reading	•	
		New Me	ter Reading Details	
Meter Informat	ion	Read S	quence: 1	
New Meter De	tails	Unit Of	leasure: KVARH	
Badgo Numbor	PP 002	Dials:	6	
badge Number.	11_002	Decima	3	
Verify		Reading	•	
Status:	Verification Successful	New M	ter Reading Details	

- 8) Enter the information in all the fields of Meter Information Section and Registers Information and click Submit.
- 9) Click Complete.

< Home	Activity Details
Complete Adjust Time Not Done Suspend Mag	Book Activity Nearby Activities Knowledge In
Meter Details	
Service Information	
Go back to Activities list, wait 10 seconds and come	back to see newly populated information below
Activity Type:	Meter Install
Site Address:	50 Park View Enclave, Stark, OH
Work Order:	45680661965112
Status:	Started

10) After clicking on Complete, you should land on the page shown below. Fill in the required details and submit

< Details	End Activity	Q 🗘 🗣
Activity Notes:	Completed	
Customer Contact Type:	~	]
Customer Contact Comments:		e
Remarks:		e
		Dismiss Submit

# **Chapter 5: Customizations**

Many times the customer needs to add new properties according to their requirement. These additions and customizations help the customers using this integration to enhance the functionality of the integration and increase the usability too. The customizations need to be done in Oracle Integration Cloud, Oracle Field Service Cloud and Oracle Utilities Customer Cloud Service depending on what fields, elements or properties need to be added and whether they are available. Below are the cases that discuss the same.

This chapter includes the following:

- Adding New Fields to Field Activity
- Adding New Fields and Lookup to Field Activity

## Adding New Fields to Field Activity

In this step, we are adding new field to the field activity, which are already available but not present in the field activity

### Oracle Field Service Cloud Configurations

- 1. In Oracle Field Service Cloud, we first need to add the property as shown below, by navigating to configuration and opening the properties.
- 2. Select the entity, and type of GUI, text or combobox and add the enumeration values say customprop1 and customprop2.

Add New Property		×
Property type	Enumeration •	<b>A</b>
* Property name		
* English	Test Custom Property	
SpanishLA		
Portuguese (Brazil)		
* Property Label	test_customProperty	
Property hint		
English		
SpanishLA		
Portuguese (Brazil)		
Entity	Activity •	

3. Now navigate to user types and select the required user type, navigate to screen configurations for the user type and open the edit/view activity section as shown below.



4. Now, on the screen add a new element by dragging and dropping a new 'Input' from the 'Add New Element' section. Now, map the element to the 'Test Custom Property'. Save this screen configuration after mapping the field.

Service Point Deta	ails
Service Point ID:	
Warnings:	•
Instructions:	•
Instruction Details :	
Disconnect Location:	•
Life Support:	
Service Point Type:	-
Premise Type:	-
Not Done Reason:	<b>•</b>
Test Custom Property:	

#### **OIC Configurations**

For the OIC Configurations we would be using the xsl files and not the graphical mapper to include the new properties that need to be included. The xsl files after going through the following steps would be have the new field mappings needed to be added as properties in OFSC. Since the changes are being made in OFSC and the flow would be from OFSC to CCS we need to make changes to the .iar file for *Complete Activity*.

Follow the steps given below:

1. Extract the .iar file by logging into OIC and navigating to integrations and exporting the *Complete\_Activity\_OFSCToSOM* as shown in the image below.

Create_Activity_OFSCToSOM (1.0) APP DRIVEN ORCHESTRATION Sends Activity Create information from OFSC to SOM		TRACE	View Edit
Get_Appt_from_OFSC_SOAP (1.0) BASIC ROUTING	·C·		Clone Create Version Export
Get_ActivityStatus_SOMToOFSC (1.0) APP DRIVEN ORCHESTRATION Gets the Activity Status information from OFSC to SOM		TRACE	Download Artifacts Delete Deactivate
Complete_Activity_OFSCTOSOM (1.0) APP DRIVEN ORCHESTRATION Sends Activity Cancel/Completion information from OFSC to SOM			Tracing

2. Referring to the configuration guide's chapter 7 on customizations we can see that for OFSC response we need to use the following xsl file:

COMPLETE\_ACTIVITY\_OFSCTOSOM\_01.00.0000\icspackage\project\COMPLETE\_ACTIVITY\_OFSCTOSO M\_01.00.0000\resources\processor\_509\resourcegroup\_512\req\_358b3cdb3d5745fb8e082acdde65 so we navigate to file location and open it (For location of the file of other flows refer to table in the configuration guide's chapter 7).

~~	Hanne (English > Relations > Second + > icspackage > project > CC	OMPLETE_ACTIVITY_OFSCT	DSOM_01.00.0000	> resources > proc	:essor_509 > resourcegroup_512
	Name	Date modified	Туре	Size	
	@ req_358b3cdb3d5745fb8e082acdde659bb2.xsl	16-Nov-18 11:11 A	XSL Stylesheet	69 KB	
	req_358b3cdb3d5745fb8e082acdde659bb2_stateinfo.xml	16-Nov-18 11:11 A	XML File	2 KB	

- 3. Navigate to <xsl: template..> tags towards the end of the file
- Select the appropriate template tag based on where the new UI property has to be added in OFSC UI. For example, in case you need to add a new field on Service Point Details screen then choose the following xsl tag:

<xsl:template name="servicePointDataDetails\_Customizations">

📄 req_	358b3	cdb3d5745fb8e082acdde659bb2.xsl 🔀
660	-	
661		<xsl:value-of select="concat(\$SOMDateTime,\$SOMOffset)"></xsl:value-of>
662	-	
663	-	
664	-	
665	þ	<xsl:template name="customerContactDetails_Customizations"></xsl:template>
666		Add customerContactDetails related customizations here
667	-	
668	白	<pre><xsl:template name="completionInformation_Customizations"></xsl:template></pre>
669		Add completionInformation related customizations here
670	-	
671	¢	<pre><xsl:template name="servicePointDataDetails_Customizations"></xsl:template></pre>
672		Add servicePointDataDetails related customizations here
673	-	
674	白	<xsl:template name="servicePointCompletionDetails_Customizations"></xsl:template>
675		Add servicePointCompletionDetails related customizations here
676	-	

5. Add the new customized property in this tag. The sample custom property named u\_custom is as below:

<tns:custom1>

<xsl:value-of

select="\$invokeOFSCGetActivity/nsmpr0:canonical\_GETResponse/nsmpr0:activities.definitions.getAct
ivitySchema/nsmpr1:u\_custom"/>

</tns:custom1>



6. Once done editing, save the xsl and test the syntax by opening it in a web browser. It should open as shown without any errors.



7. To upload the xsl file in the OIC, deactivate the integration, open the flow and select the mapping icon. Click on the *More Actions* option and then on the *Import* option as shown below. Browse the .xsl file and import it.



## Adding New Fields and Lookup to Field Activity

In this step, we are adding new fields, which are not present, and hence we would be adding a lookup along with the new field that we need to add to the field activity

### Oracle Field Service Cloud Configurations

Perform the same steps as previous section. Add the property, then drag and drop it on the UI screen where it is needed and save the UI screen in the user types.

### Oracle Integration Cloud Configurations

- 1. For adding a customized lookup in Oracle Field Service Cloud, you need to follow similar steps as above, so extract .iar and navigate to required xsl tag (based on the location of the new lookup) in the xsl file you are editing as per your process flow.
- 2. Instead of adding the custom property as above, you make changes as follows:

<tns:customLookup> <xsl:value-of select="nsmpr2:lookupValue('tenant/resources/dvms/OFSCSOM\_customLookup', 'OFSC\_customLookup', \$invokeOFSCGetActivity/nsmpr0:canonical\_GETResponse/nsmpr0:activities.definitions.getActivitySch ema/nsmpr1:u\_Remarktypes, 'SOM\_customLookup', \$invokeOFSCGetActivity/nsmpr0:canonical\_GETResponse/nsmpr0:activities.definitions.getActivitySch ema/nsmpr1:u\_Remarktypes)"/> </tns:customLookup>

<xsl:template name="servicePointDataDetails_Customizations"></xsl:template>
<tns:customlookup></tns:customlookup>
<xs1:value-of select="nsmpr2:lookupValue('tenant/resources/dvms/OFSCSOM_customLookup','OFSC_customLookup',&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;\$invokeOFSCGetActivity/nsmpr0:canonical_GETResponse/nsmpr0:activities.definitions.getActivitySchema/nsmpr1:u_Remarktypes, 'SOM_customLookup',&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;pre&gt;\$invokeOFSCGetActivity/nsmpr0:canonical_GETResponse/nsmpr0:activities.definitions.getActivitySchema/nsmpr1:u_Remarktypes)"></xs1:value-of>

3. Perform the same steps of uploading the xsl file in OIC after verification in an internet browser.

### Oracle Utilities Customer Cloud Service Configurations

To configure Oracle Utilities Customer Cloud Service with a new schema element:

1. Navigate to the *D1-FieldActivityOBComm* business object and identify the data area to add the new schema element.

For example: To make changes to the **Service Point Details** section, the data area to be modified is a custom data area created for Oracle Field Service Cloud.

DATA A	DATA AREA D1-NewOFSCDataAreaExt			
DESCRI	PTION N	New OFSC DA added for extending the Service Point DA		
OWNER		Customer Modification		
Scher	na Desi	gner ()		
	View Mode			
	TREE	TEXT		
1	<schema< td=""><th>xmlosuiHint="http://oracle.com/ouafl/liHints"&gt;</th></schema<>	xmlosuiHint="http://oracle.com/ouafl/liHints">		
2	2 <customfield datatype="string" mdfield="D1_CUSTOM_FIELD"></customfield>			
3	<th>⇒</th>	⇒		
4				

#### 2. Extend the data area by adding the Service Point Details DA in the extended DA sections.

DATA AREA	D1-NewOFSCDataAreaExt Q	
DESCRIPTION	<ul> <li>New OFSC DA added for extending the Service Point DA</li> </ul>	
		~ 0
ETAILED DESCRIPTION		
TRIEED DESCRIPTION		
		>
XTENDED DATA AREA	D1-SOSPDataDetails Q SOM - Service Point Data Details	

3. New schema element should now be displayed in BO schema.

