Oracle Utilities Testing Accelerator for Cloud

Reference Guide for Rate Cloud Service



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Oracle Utilities Testing Accelerator for Cloud Reference Guide for Rate Cloud Service, Release 26.10

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Introduction

Welcome to the Oracle Utilities Testing Accelerator Reference Guide for Oracle Utilities Rate Cloud Service for release 26.10. This document describes the Oracle Utilities Rate Cloud Service components and function libraries used to create those components in Oracle Utilities Testing Accelerator. These components are used to build test flows in Oracle Utilities Testing Accelerator Workbench.

This document contains the following:

- Preface
- Component Reference
- Inbound Web Services
- Identifying Fields For a Web Service Request

For information about the other documentation included in this release, please refer to the Oracle Utilities Testing Accelerator for Cloud Services page on Oracle Help Center .

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2 Preface

The preface includes the following sections:

- Audience
- Related Documents
- Updates to Documentation
- Documentation Accessibility
- Conventions
- Abbreviations

Audience

This guide is intended for QA/Test Engineers and Automation Developers to understand the various components and libraries available for them to automate the business test flows for Oracle Utilities Rate Cloud Service using Oracle Utilities Testing Accelerator for Oracle Utilities Rate Cloud Service.

Related Documents

For more information, refer to the following Oracle resources.

- *Oracle Utilities Testing Accelerator User's Guide for Cloud*
- *Oracle Utilities Testing Accelerator Reference Guide for Core*
- *Oracle Utilities Testing Accelerator Reference Guide for Oracle Utilities Billing Cloud Service*
- *Oracle Utilities Testing Accelerator Reference Guide for Oracle Utilities Customer Care and Billing Cloud Service*
- *Oracle Utilities Testing Accelerator Reference Guide for Oracle Utilities Customer Cloud Service*
- *Oracle Utilities Testing Accelerator Reference Guide for Oracle Utilities Customer Program Management Cloud Service*
- *Oracle Utilities Testing Accelerator Reference Guide for Oracle Utilities Meter Solution Cloud Service*
- *Oracle Utilities Testing Accelerator Reference Guide for Oracle Utilities Rate Cloud Service*
- *Oracle Utilities Testing Accelerator Reference Guide for Oracle Utilities Work and Asset Cloud Service*

Also, see the following documentation libraries on Oracle Help Center:

- Oracle Utilities Customer Care and Billing
- Oracle Utilities Digital Asset Cloud Service
- Oracle Utilities Digital Asset Management

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Conventions

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

Abbreviations

Term	Expanded Form
OURCS/RCS	Oracle Utilities Rate Cloud Service
OUCCB/CCB	Oracle Utilities Customer Care and Billing
OUTA/UTA	Oracle Utilities Testing Accelerator

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Component Reference

This chapter lists the Oracle Utilities Rate Cloud Service starter components available to create flows in Oracle Utilities Testing Accelerator Workbench for testing the Oracle Utilities Rate Cloud Service applications. It includes the following sections:

- Overview
- Components

Overview

Oracle Utilities Testing Accelerator for Oracle Utilities Rate Cloud Service is a test starter pack built on top of Oracle Utilities Testing Accelerator that generates test automation scripts using Oracle Utilities Testing Accelerator Workbench.

Oracle Utilities Testing Accelerator for Oracle Utilities Rate Cloud Service contains out-of-the-box product-specific components used to build new test flows in Oracle Utilities Testing Accelerator Workbench to test the Oracle Utilities Rate Cloud Service applications. These out-of-the-box components correspond to specific business entities, such as business objects, service scripts, or business services used for interfacing with the application. Users can use these components as available or can extend them. Users can also create new components to be used to create flows. This starter pack also contains a set of function libraries that can be used for creating custom components.

Consider this pack to be a starter kit which can be expanded and built upon. A few sample flows are included as an example.

For more information about creating components and flows, refer to the Oracle Utilities Testing Accelerator User's Guide available on the Oracle Utilities Testing Accelerator for Cloud Services page on Oracle Help Center.

Components

This section lists the starter components available for Oracle Utilities Rate Cloud Service.

> **Note**
>
> The Inbound Web Service using the respective business object should be available in the application.
>
> Failure while creating, reading, or updating the component is logged in the test execution report, thus facilitating debugging/analysis of the problem.

The components are categorized under the following functional areas:

- Rate Schedule
- Usage

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Rate Schedule

Component	Description
C1-ApplyToAdd	Used to add a calculation using Apply To Calculation rule. This component invokes the ATC1ApplyTo Inbound Web Service using the C1-ApplyTo Business Object.
C1-ApplyToRead	Used to read a calculation using Apply To Calculation rule. This component invokes the ATC1ApplyTo Inbound Web Service using the C1-ApplyTo Business Object.
C1-ApplyToUpdate	Used to update a calculation using Apply To Calculation rule. This component invokes the ATC1ApplyTo Inbound Web Service using the C1-ApplyTo Business Object.
C1-ApplyToDelete	Used to delete a Bill Factor TOU Value. This component invokes the ATC1BillFactorTOUValue Inbound Web Service using the C1-BillFactorTOUValAdd Business Object.
C1-ApplyCCLChargesAdd	Used to add calculation using Calculate Climate Change Levy and Relief Charges Calculation Rule. This component invokes the ATC1ApplyCCLCharges Inbound Web Service using the C1-ApplyCCLCharges Business Object.
C1-ApplyCCLChargesRead	Used to read calculation using Calculate Climate Change Levy and Relief Charges Calculation Rule. This component invokes the ATC1ApplyCCLCharges Inbound Web Service using the C1-ApplyCCLCharges Business Object.
C1-ApplyCCLChargesUpdate	Used to update calculation using Calculate Climate Change Levy and Relief Charges Calculation Rule. This component invokes the ATC1ApplyCCLCharges Inbound Web Service using the C1-ApplyCCLCharges Business Object.
C1-ApplyCCLChargesDelete	Used to delete calculation using Calculate Climate Change Levy and Relief Charges Calculation Rule. This component invokes the ATC1ApplyCCLCharges Inbound Web Service using the C1-ApplyCCLCharges Business Object.
C1-ApplyVatToCrossRefChargeAdd	Used to add a calculation using Apply VAT to Cross Referenced Charges calculation rule. This component invokes the ATC1ApplyTo Inbound Web Service using the C1-ApplyVatToCrossRefCharge Business Object.
C1-ApplyVatToCrossRefChargeDelete	Used to delete a calculation using Apply To Calculation rule. This component invokes the ATC1ApplyVatToCrossRefCharge Inbound Web Service using the C1-ApplyVatToCrossRefCharge Business Object.
C1-ApplyVatToCrossRefChargeUpdate	Used to update a calculation using Apply To Calculation rule. This component invokes the ATC1ApplyVatToCrossRefCharge Inbound Web Service using the C1-ApplyVatToCrossRefCharge Business Object.

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Component	Description
C1-ApplyVatToCrossRefChargeRead	Used to read a calculation using Apply To Calculation Rule. This component invokes the ATC1ApplyVatToCrossRefCharge Inbound Web Service using the C1-ApplyVatToCrossRefCharge Business Object.
C1-BillFactorAdd	Used to add a Bill Factor Value. This component invokes the ATC1BillFactor Inbound Web Service using the C1-BillFactorPhysicalBO Physical Business Object.
C1-BillFactorDelete	Used to delete a Bill Factor Value. This component invokes the ATC1BillFactor Inbound Web Service using the C1-BillFactorPhysicalBO Physical Business Object.
C1-BillFactorUpdate	Used to update a Bill Factor Value. This component invokes the ATC1BillFactor Inbound Web Service using the C1-BillFactorPhysicalBO Physical Business Object.
C1-BillFactorRead	Used to read a Bill Factor Value. This component invokes the ATC1BillFactor Inbound Web Service using the C1-BillFactorPhysicalBO Physical Business Object.
C1-BillFactorValueAdd	Used to add a Bill Factor TOU Value. This component invokes the ATC1BillFactorValue Inbound Web Service using the C1-BillFactorValuePhysicalBO Physical Business Object.
C1-BillFactorValueDelete	Used to delete a Bill Factor TOU Value. This component invokes the ATC1BillFactorValue Inbound Web Service using the C1-BillFactorValuePhysicalBO Physical Business Object.
C1-BillFactorValueUpdate	Used to update a Bill Factor TOU Value. This component invokes the ATC1BillFactorValue Inbound Web Service using the C1-BillFactorValuePhysicalBO Physical Business Object.
C1-BillFactorValueRead	Used to read a Bill Factor TOU Value. This component invokes the ATC1BillFactorValue Inbound Web Service using the C1-BillFactorValuePhysicalBO Physical Business Object.
C1-BillFactorTOUValAdd	Used to add a Bill Factor TOU Value. This component invokes the ATC1BillFactorTOUValue Inbound Web Service using the C1-BillFactorTOUValAdd Business Object.
C1-BillFactorTOUValDelete	Used to delete a Bill Factor TOU Value. This component invokes the ATC1BillFactorTOUValue Inbound Web Service using the C1-BillFactorTOUValAdd Business Object.
C1-BillFactorTOUValUpdate	Used to update a Bill Factor TOU Value. This component invokes the ATC1BillFactorTOUValue Inbound Web Service using the C1-BillFactorTOUValAdd Business Object.

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Component	Description
C1-BillFactorTOUValRead	Used to read a Bill Factor TOU Value. This component invokes the ATC1BillFactorTOUValue Inbound Web Service using the C1-BillFactorTOUValAdd Business Object.
C1-BillFactorIntervalValueAdd	Used to add a Bill Factor Interval Value. This component invokes the ATC1IntervaValueSet Inbound Web Service using the C1-IntervalValueSetPhysicalBO Business Object.
C1-BillFactorIntervalValueDelete	Used to delete a Bill Factor Interval Value. This component invokes the ATC1IntervaValueSet Inbound Web Service using the C1-IntervalValueSetPhysicalBO Business Object.
C1-BillFactorIntervalValueUpdate	Used to update a Bill Factor Interval Value. This component invokes the ATC1IntervaValueSet Inbound Web Service using the C1-IntervalValueSetPhysicalBO Business Object.
C1-BillFactorIntervalValueRead	Used to read a Bill Factor Interval Value. This component invokes the ATC1IntervaValueSet Inbound Web Service using the C1-IntervalValueSetPhysicalBO Business Object.
C1-CalculateServiceQuantityAdd	Used to add Calculate Service Quantity record. This component invokes the ATC1CalculateServiceQuantity Inbound Web Service using the C1-CalculateServiceQuantity Business Object.
C1-CalculateServiceQuantityDelete	Used to delete a Calculate Service Quantity record. This component invokes the ATC1CalculateServiceQuantity Inbound Web Service using the C1-CalculateServiceQuantity Business Object.
C1-ServiceQuantityUpdate	Used to update a Service Quantity charge record. This component invokes the ATC1ServiceQuantity Inbound Web Service using the Business Object.
C1-SimpleSummaryAdd	Used to add a Simple Summary charge record. This component invokes the ATC1SimpleSummary Inbound Web Service using the Business Object.
C1-SimpleSummaryDelete	Used to delete a Simple Summary charge record. This component invokes the ATC1SimpleSummary Inbound Web Service using the Business Object.
C1-SimpleSummaryRead	Used to read a Simple Summary charge record. This component invokes the ATC1SimpleSummary Inbound Web Service using the Business Object.
C1-SimpleSummaryUpdate	Used to update a Simple Summary charge record. This component invokes the ATC1SimpleSummary Inbound Web Service using the Business Object.
C1-SteppedSQAdd	Used to add a Stepped SQ charge record. This component invokes the ATC1SteppedSQ Inbound Web Service using the Business Object.
C1-SteppedSQDelete	Used to add read a Stepped SQ charge record. This component invokes the ATC1SteppedSQ Inbound Web Service using the Business Object.
C1-SteppedSQRead	Used to read a Stepped SQ charge record. This component invokes the ATC1SteppedSQ Inbound Web Service using the Business Object.

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Component	Description
C1-SteppedSQUpdate	Used to update a Stepped SQ charge record. This component invokes the ATC1SteppedSQ Inbound Web Service using the Business Object.
C1-SummaryAdd	Used to add a Summary charge record. This component invokes the ATC1Summary Inbound Web Service using the Business Object.
C1-SummaryDelete	Used to delete a Summary charge record. This component invokes the ATC1Summary Inbound Web Service using the Business Object.
C1-SummaryRead	Used to read a Summary charge record. This component invokes the ATC1Summary Inbound Web Service using the Physical Business Object.
C1-SummaryUpdate	Used to update a Summary charge record. This component invokes the ATC1Summary Inbound Web Service using the Business Object.

Usage

Component	Description
X1-UsageAndChargeRequestAdd	Used to add a Usage and Charge Request record. This component invokes the ATX1UsageAndChargeRequest Inbound Web Service using the X1-UsageAndChargeRequest Business Object.
X1-UsageAndChargeRequestDelete	Used to delete a Usage and Charge Request record. This component invokes the ATX1UsageAndChargeRequest Inbound Web Service using the X1-UsageAndChargeRequest Business Object.
X1-UsageAndChargeRequestRead	Used to read a Usage and Charge Request record. This component invokes the ATX1UsageAndChargeRequest Inbound Web Service using the X1-UsageAndChargeRequest Business Object.
X1-UsageAndChargeRequestUpdate	Used to update a Usage and Charge Request record. This component invokes the ATX1UsageAndChargeRequest Inbound Web Service using the X1-UsageAndChargeRequest Business Object.
X1-VectorMathNonMeterAdd	Used to add a Usage and Charge Request record. This component invokes the ATX1VectorMathNonMeter Inbound Web Service using the X1-VectorMathNonMeter Business Object.
X1-VectorMathNonMeterDelete	Used to delete a Usage and Charge Request record. This component invokes the ATX1VectorMathNonMeter Inbound Web Service using the X1-VectorMathNonMeter Business Object.
X1-VectorMathNonMeterRead	Used to read a Usage and Charge Request record. This component invokes the ATX1VectorMathNonMeter Inbound Web Service using the X1-VectorMathNonMeter Business Object.

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Component	Description
X1-VectorMathNonMeterUpdate	Used to update a Usage and Charge Request record. This component invokes the ATX1VectorMathNonMeter Inbound Web Service using the X1-VectorMathNonMeter Business Object.

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Inbound Web Services

The Oracle Utilities Rate Cloud Service components are developed using web services method, and these components require Inbound Web Services to be defined in the application.

For instructions to create, import, or search an Inbound Web Service, see *Setting Up Inbound Web Services in Oracle Utilities Testing Accelerator User's Guide* available on the Oracle Utilities Testing Accelerator for Cloud Services page on Oracle Help Center

The list of Inbound Web Services provided to use with the delivered components and flows is as follows:

- ATC1ApplyTo
- ATC1BillFactorTOUValue
- ATC1ApplyCCLCharges
- ATC1ApplyVatToCrossRefCharge
- ATC1BillFactor
- ATC1BillFactorValue
- ATC1BillFactorTOUValue
- ATC1IntervaValueSet
- ATC1CalculateServiceQuantity
- ATC1ServiceQuantity
- ATC1SimpleSummary
- ATC1SteppedSQ
- ATC1Summary

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5

Identifying Fields For a Web Service Request

The requisite fields need to be filled up with data in order to map the value on a given schema.

Example: When a person is added online, only the field description is shown, but the exact field mapping is hidden from the user.

Following are the methods you can use to identify fields for a web service request and add data in those fields:

- Debug Mode in the Application
- IE Development Tool Bar
- SOAP UI

Debug Mode in the Application

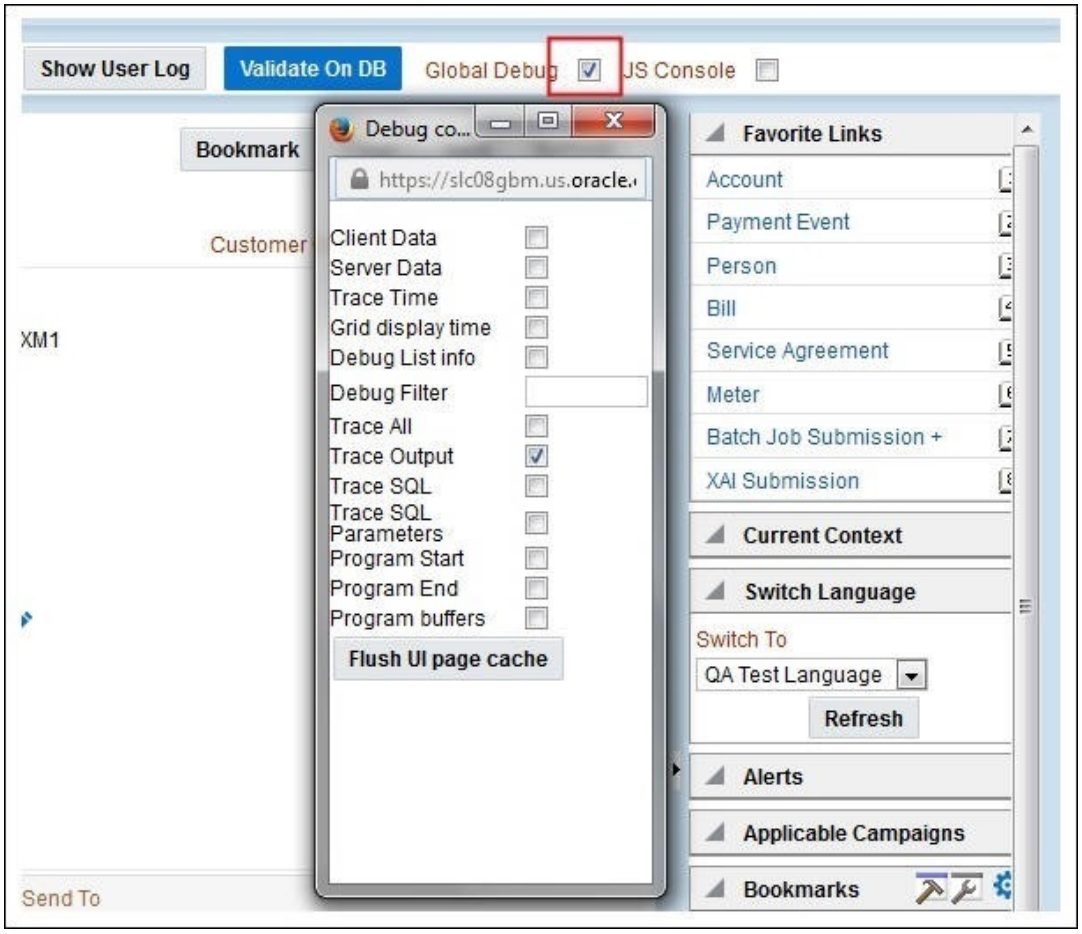
The debug mode enables users to check the field mapping on a given maintenance page. This is actually the easiest among the different possible ways; however some clients may have system restriction (such as access restriction) on using debug mode.

To enter test data in the requisite fields using the debug method:

1. Login to the application in the ‘debug’ mode.
2. Before clicking the Debug mode switch ensure to navigate first to the target page. Example: Person maintenance page

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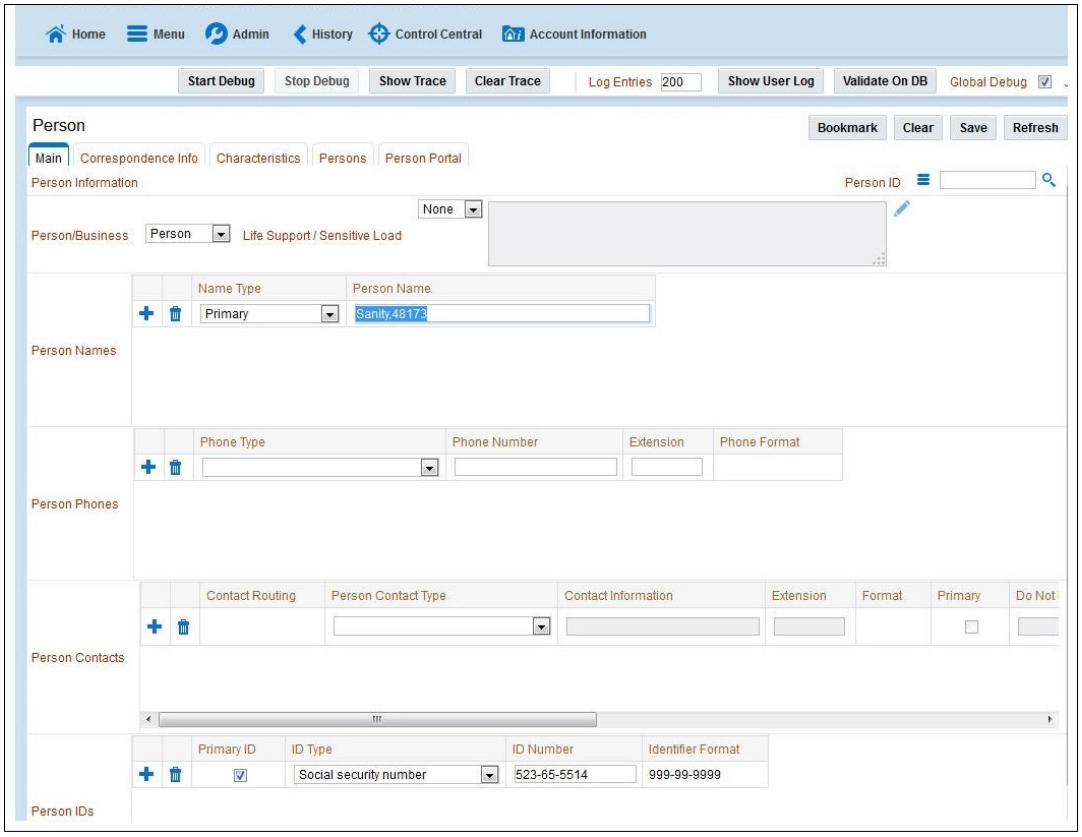
Figure 5-1 Debug Switch



3. Perform the required action and click **Save**.
Example: The figure below shows adding a person (person name, person phone, person contacts, Person IDs, etc) .

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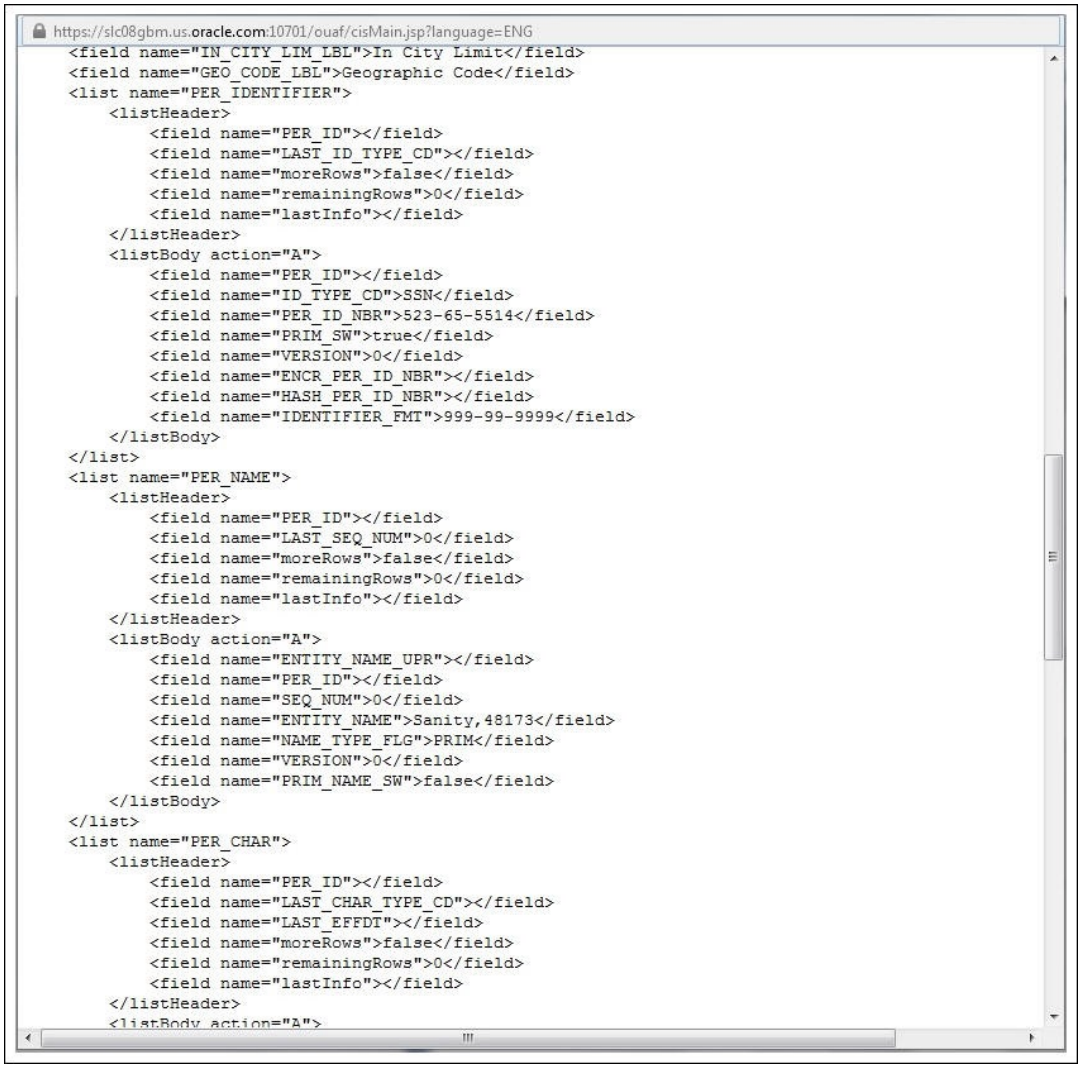
Figure 5-2 Add a person



The schema window showing the populated values is displayed.

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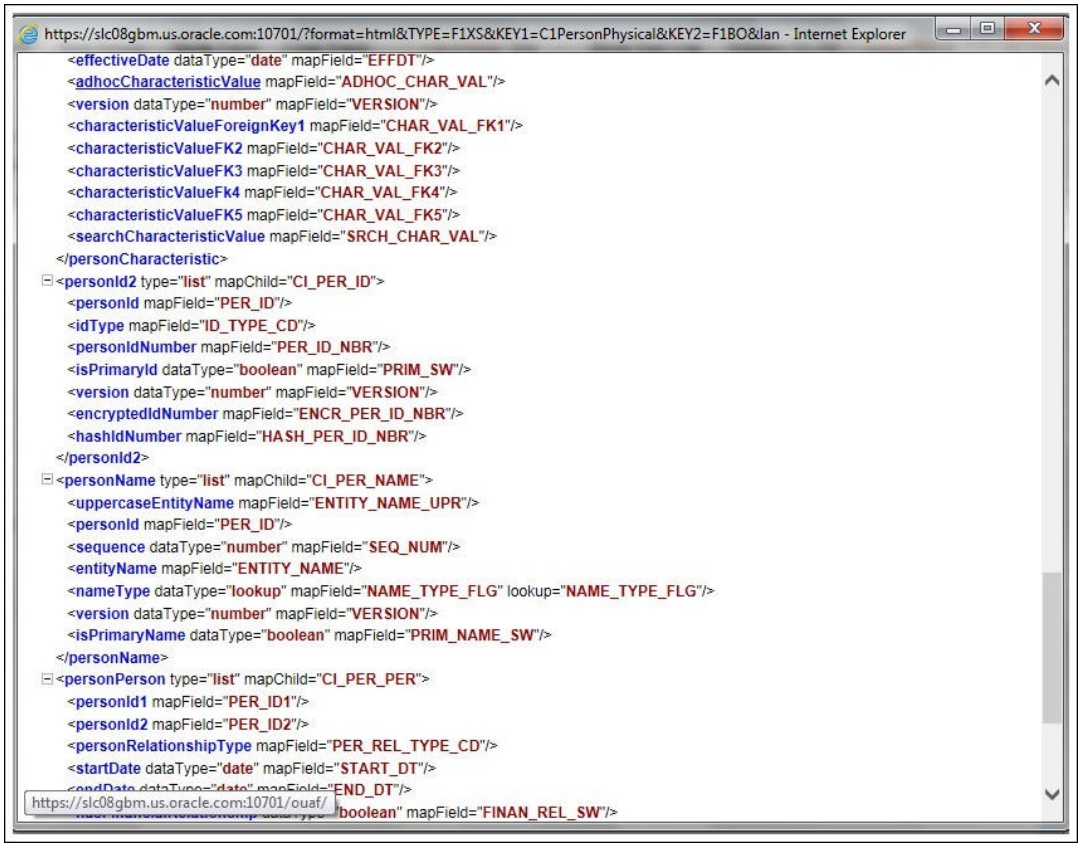
Figure 5-3 Schema window



4. Navigate to the Business Object or Business Service lookup window for the requisite field. Example: In the figure below, ENTITY_NAME is named as entityName.

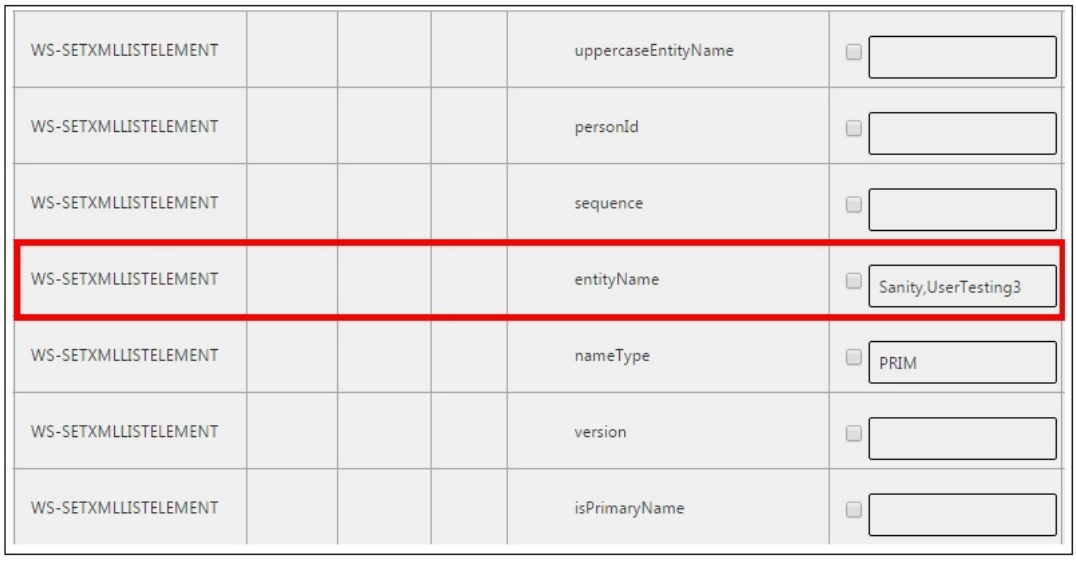
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Figure 5-4 Business Object Lookup window



5. In the flow, search for the requisite field and enter the component test data.

Figure 5-5 Component Test Data



6. Click **Save** to save the test data.

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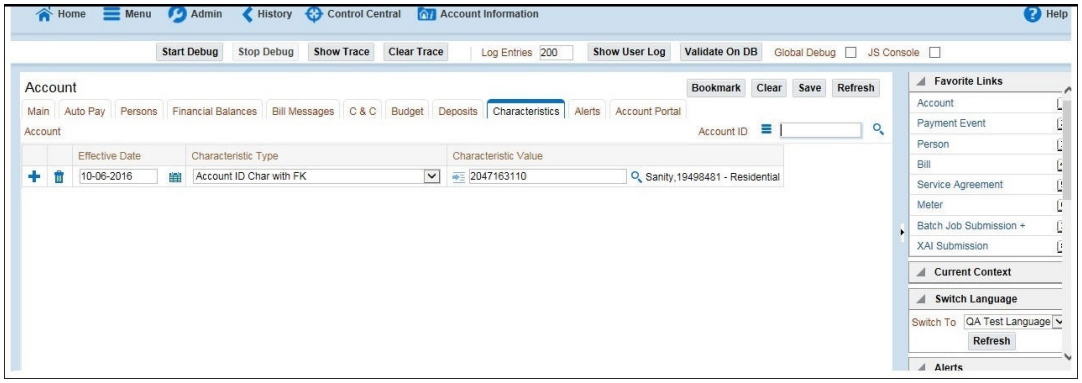
IE Development Tool Bar

The IE Development tool bar, available in IE11, enables users to inspect the page and its field mapping. It is on a 1:1 basis, meaning one inspect = one field.

To enter test data in the requisite fields using the IE Development tool bar:

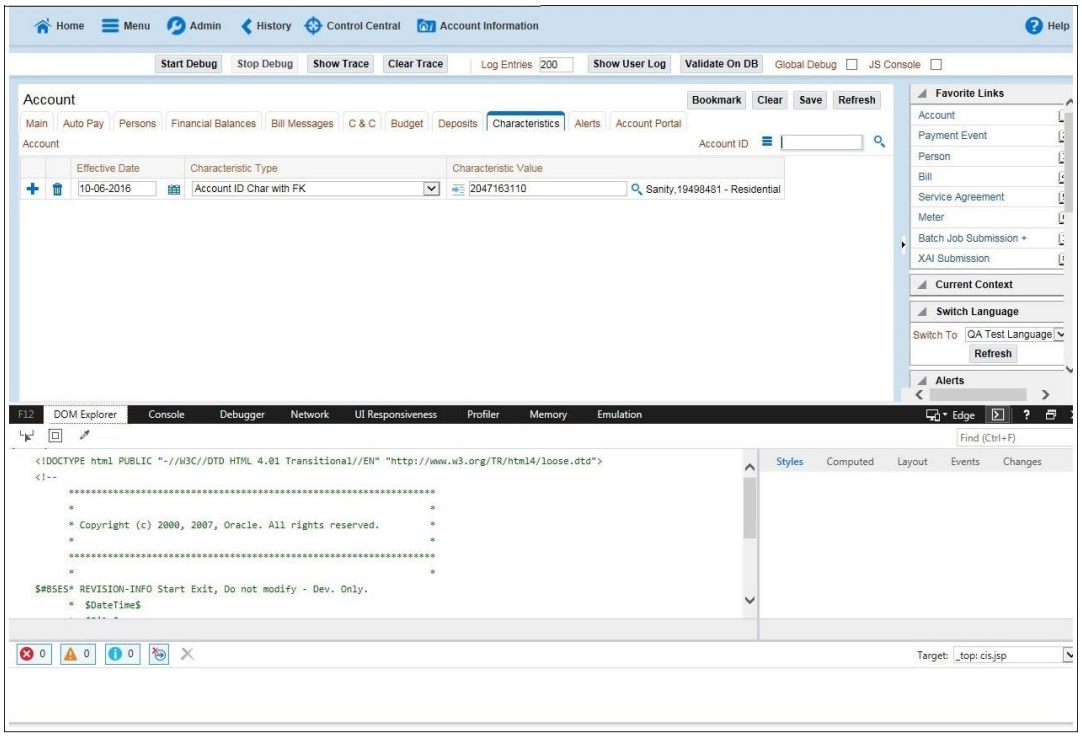
1. Login to Oracle Utilities Rate Cloud Service using Internet Explorer 11.
2. Navigate to the page where the requisite field needs to be updated with data.
   Example: The figure below shows the **Account** page where the **Characteristic Value** field on the **Characteristics** tab needs to be updated.

Figure 5-6 Accounts page



3. Press **F12**. The browser displays the F12 developer tools that help in building and debugging web pages.

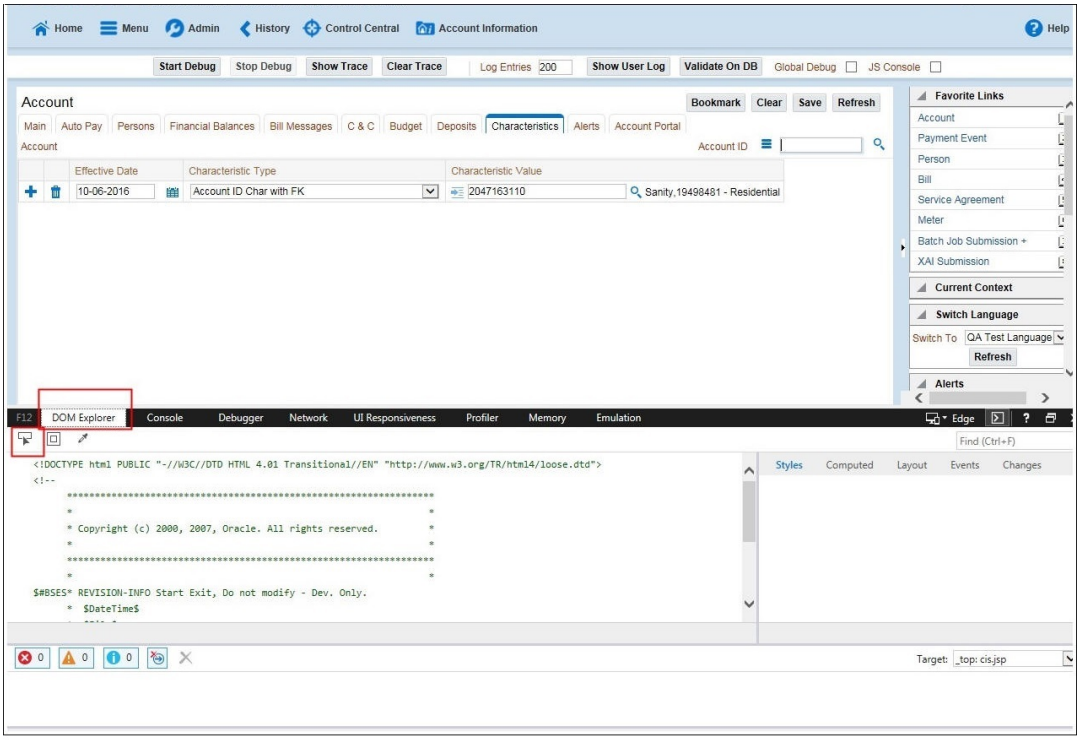
Figure 5-7 F12 Developer tools



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4. On the F12 tools menu, click the **DOM Explorer** tab, and then click the **Select element** icon.

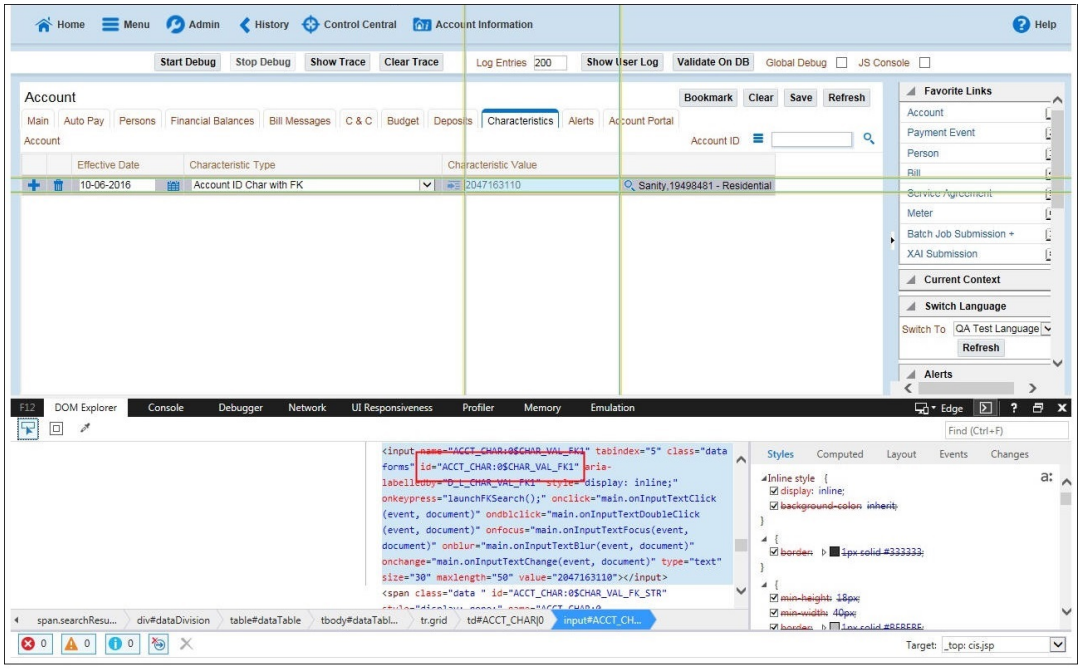
Figure 5-8 DOM Explorer



5. On the application page, click the field for which you need to enter the data. The DOM Explorer shows the HTML for the selected field.
Example: Click the **Characteristic Value** field on the **Account** page. The DOM Explorer shows the **ID** of that field.

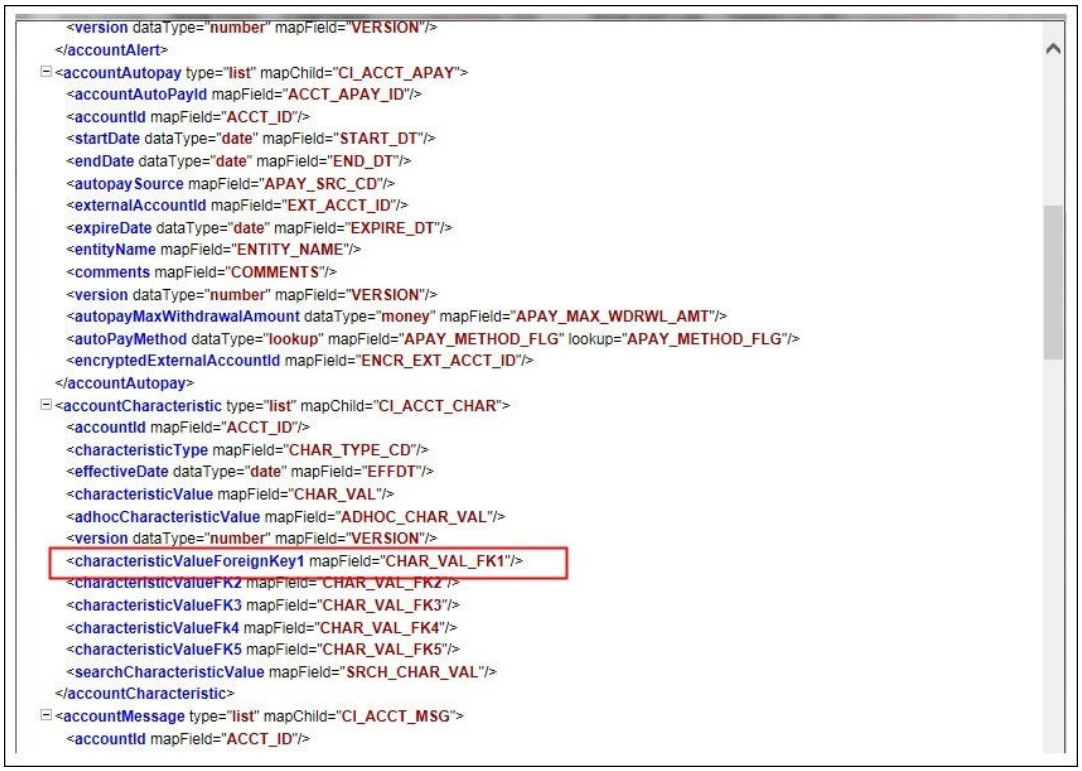
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Figure 5-9 DOM Explorer



6. On the object lookup window, search the requisite field.
Example: Search for CHAR_VAL_FK1.

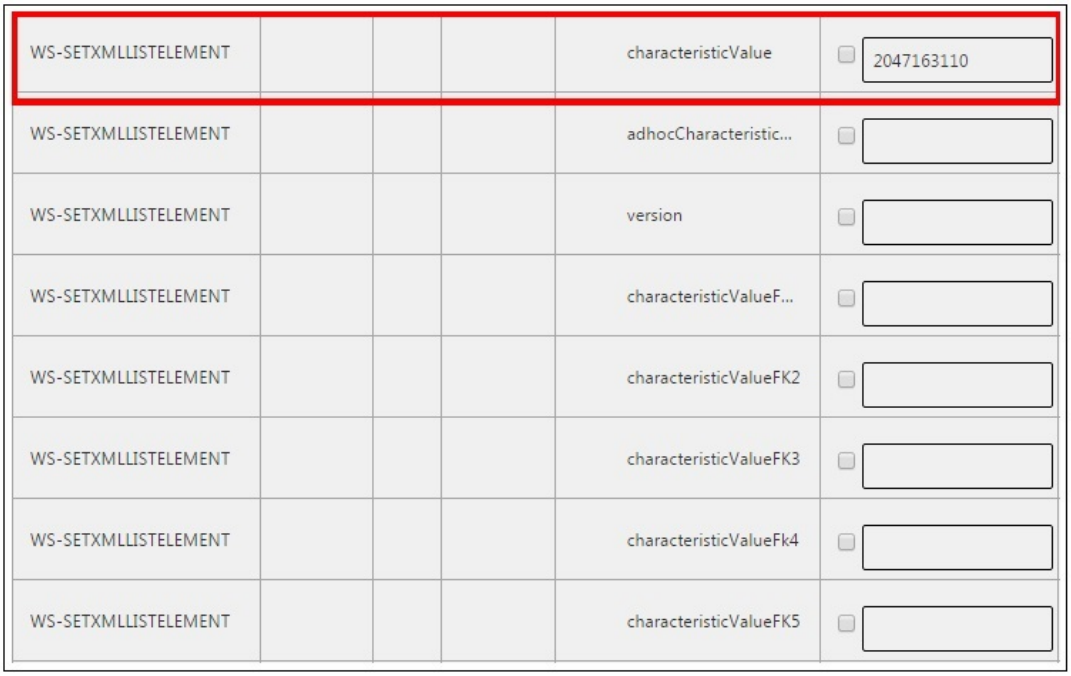
Figure 5-10 Object Lookup window



7. In the flow, add the necessary data into the field.

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Figure 5-11 Flow window



8. Click **Save** to save the data.

SOAP UI

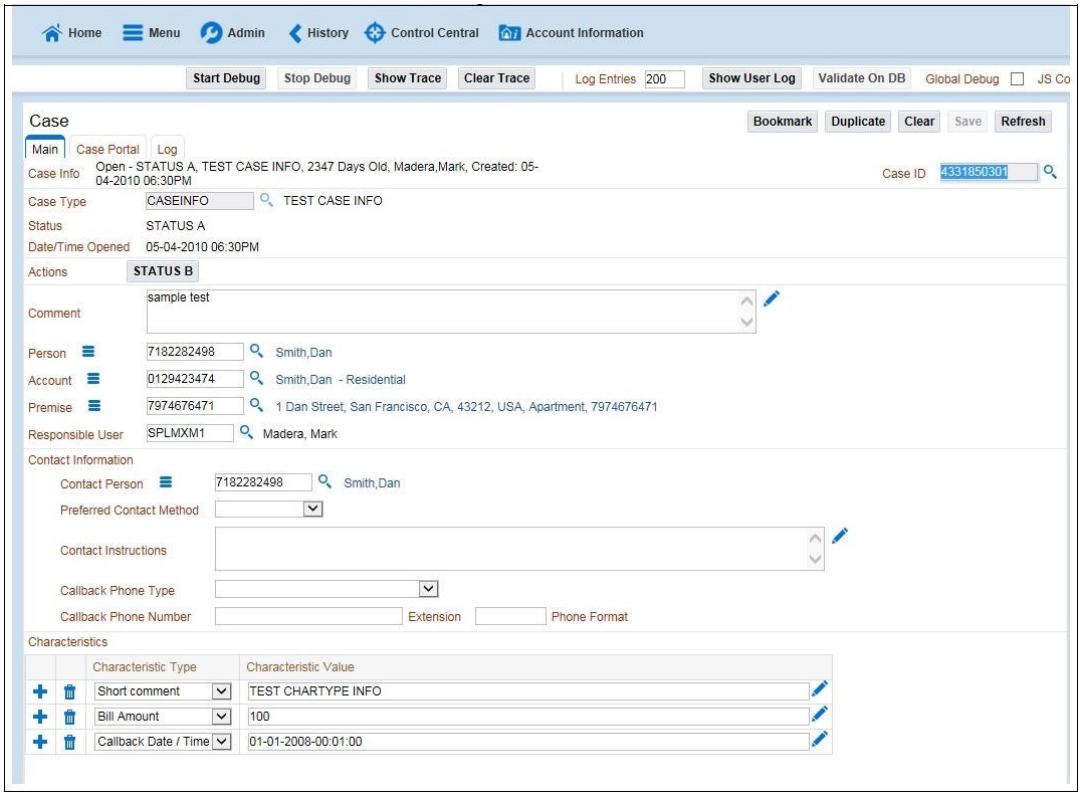
This method is an alternative to the other methods mentioned above if the user is familiar with SOAP UI.

To identify the requisite fields using SOAP UI:

1. Login to the Oracle Utilities Rate Cloud Service application.
2. Navigate to the page where the test data has to added. Add the data in the respective fields.
   Example: The figure below shows the **Case** page where **Characteristics Type** and **Characteristic Value** are added in the **Characteristics** section.

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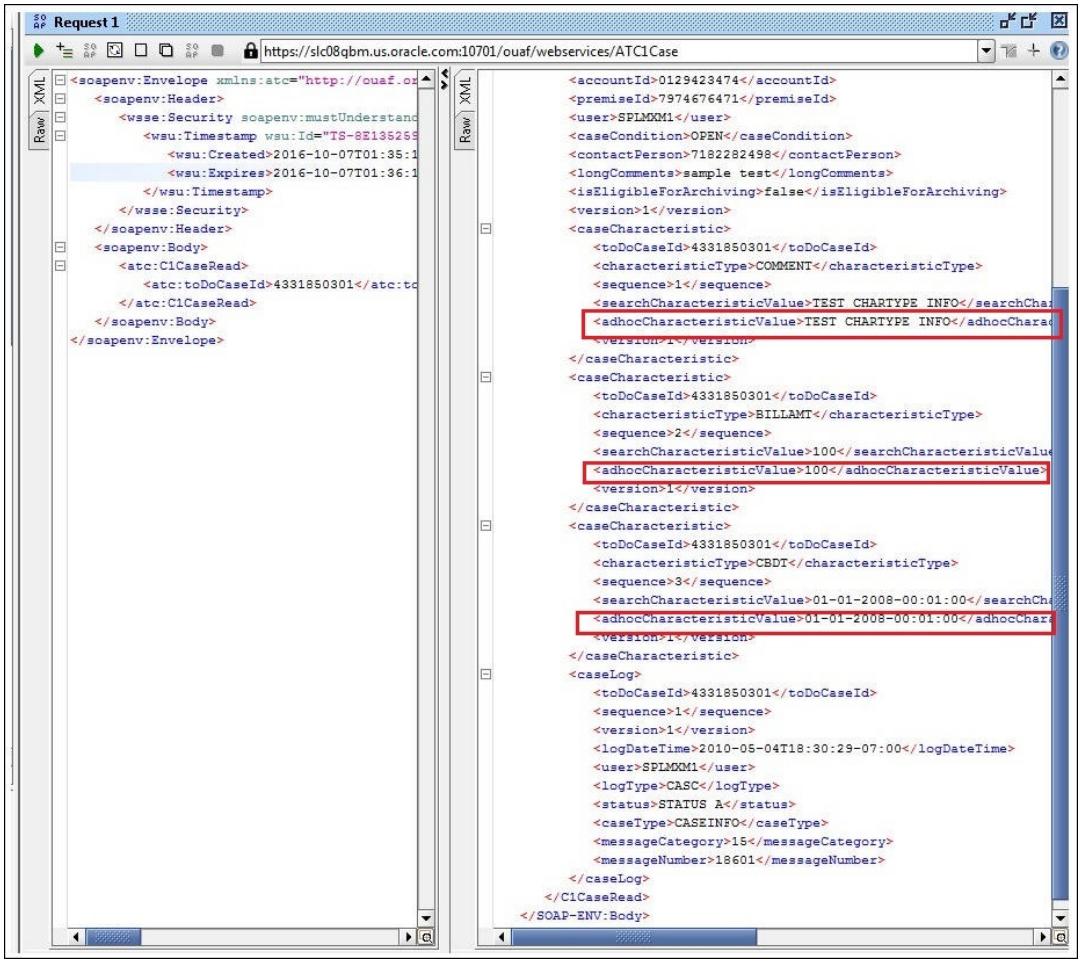
Figure 5-12 Case page



3. On the SOAP UI, perform a Read using the data that has been added on the **Case** page (in step 2). The result is displayed in the right pane.

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Figure 5-13 Performing a read

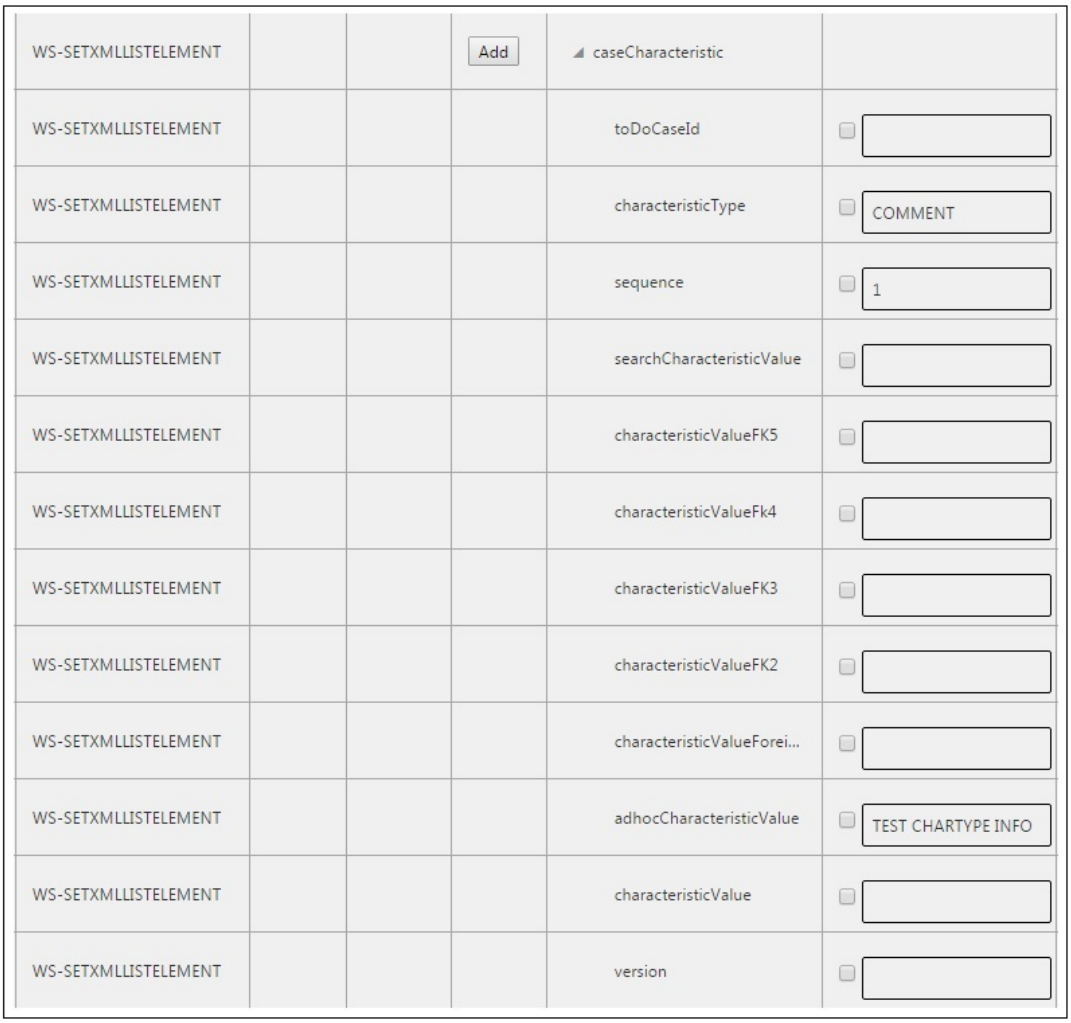


4. Copy the values and paste them in the respective fields on the flow. Example: COMMENT and TEST CHARTYPE INFO are the values for **characteristicType** and **adhocCharacteristicValue** fields.

> **Note**
>
> Not all fields populated on the SOAP response needs to be populated on the flow. (Example: version, info, other type of description, etc).

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Figure 5-14 Copy values



5. Click **Save** to save the data.

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