Oracle Utilities Testing Accelerator

Reference Guide for Oracle Utilities Customer To Meter v2.7.0.1

Release 6.0.0.1

F17459-01

March 2019
(Updated November 2019)

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Oracle Utilities Testing Accelerator Reference Guide for Oracle Utilities Customer To Meter v2.7.0.1, Release 6.0.0.1

F17459-01

Contents

Preface

Welcome to the Oracle Utilities Testing Accelerator Reference Guide for Oracle Utilities Customer To Meter v2.7.0.1.

This guide describes the Oracle Utilities Customer To Meterv2.7.0.1 components and function libraries used to create those components in Oracle Utilities Testing Accelerator (OUTA) 6.0.0.1. These components are used to build test flows in Oracle Utilities Testing Accelerator Workbench.

The preface includes the following sections:

* Audience

* Related Documents

* 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 Customer To Meter using Oracle Utilities Testing Accelerator (OUTA) for Oracle Utilities Customer To Meter.

Related Documents

For more information, refer to the following Oracle resources.

Release Notes

- *Oracle Utilities Testing Accelerator Release Notes*

Installation and Administration Guide

- *Oracle Utilities Testing Accelerator Installation and Administration Guide*
- *Oracle Utilities Testing Accelerator Upgrade Guide*

User and Reference Guides

- *Oracle Utilities Testing Accelerator User's Guide*
- *Oracle Utilities Testing Accelerator Licensing Information User Manual*
- *Oracle Utilities Testing Accelerator Reference Guide for Core*

See also:

- Oracle Utilities Customer To Meter Documentation Library
- Oracle Utilities Customer Care and Billing Documentation Library
- Oracle Utilities Meter Data Management Library

Conventions

The following text conventions are used in this document:

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

The following terms are used in this document:

Term	Expanded Form
MDM	Oracle Utilities Meter Data Management
SGG	Oracle Utilities Smart Grid Gateway

Term	Expanded Form
CCB	Oracle Utilities Customer Care and Billing
ODM	Oracle Utilities Operational Device Management
C2M	Oracle Utilities Customer To Meter
UTA	Oracle Utilities Testing Accelerator

Chapter 1

Component Reference

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

- Overview

- Components

Overview

Oracle Utilities Testing Accelerator for Oracle Utilities Customer To Meter 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 Customer To Meter contains out-of-the-box product-specific components used to build new test flows in Oracle Utilities Testing Accelerator Workbench to test the Customer To Meter 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.

For more information about using these function libraries, refer to Chapter 2: Function Library Reference.

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.*

> **Note**: For component details related to Oracle Utilities Customer Care and Billing and Oracle Utilities Meter Data Management refer to *Oracle Utilities Testing Accelerator Reference Guide for Oracle Utilities Customer Care and Billing v2.7.0.1* and *Oracle Utilities Testing Accelerator Reference Guide for Oracle Utilities Meter Data Management/Oracle Utilities Smart Grid Gateway v2.3.0.1.*

Components

This section lists the starter components available for Oracle Utilities Customer To Meter.

> **Pre-requisites:** The Inbound Web Service using the respective business object should be available in the application.

> **Additional Notes:** 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:

- Admin
- Asset Management
- Credit and Collection
- Customer Information
- Data Synchronization
- Extendable Lookup
- Financial
- General
- Master Configuration
- Service Order Management
- Letter Template
- SMDF_Master Data

- [Integration](#)
- [Bill Determinants](#)
- [Data Model](#)
- [Initial Measurement Data](#)
- [VEE](#)
- [Service and Measurement Data Foundation](#)
- [Itron Openway](#)
- [Usage](#)

Admin

Component	Description
C1-IdentifierTypeAdd	Used to create a Identifier Type record.
	This component invokes the ATC1IdentifierType Inbound Web Service using C1-IdentifierTypePhysicalBO Business Object.
C1-IdentifierTypeDelete	Used to delete an existing Identifier Type record.
	This component invokes the ATC1IdentifierType Inbound Web Service using C1-IdentifierTypePhysicalBO Business Object.
C1-IdentifierTypeRead	Used to query an existing Identifier Type record.
	This component invokes the ATC1IdentifierType Inbound Web Service using C1-IdentifierTypePhysicalBO Business Object.
C1-IdentifierTypeUpdate	Used to update an existing Identifier Type record.
	This component invokes the ATC1IdentifierType Inbound Web Service using C1-IdentifierTypePhysicalBO Business Object.
C1-PremiseTypeAdd	Used to create a Premise Type record.
	This component invokes the ATC1PremiseType Inbound Web Service using the C1-PremiseTypePhysicalBO business object.
C1-PremiseTypeDelete	Used to delete an existing Premise Type record.
	This component invokes the ATC1PremiseType Inbound Web Service using the C1-PremiseTypePhysicalBO business object.
C1-PremiseTypeRead	Used to query an existing Premise Type record.
	This component invokes the ATC1PremiseType Inbound Web Service using the C1-PremiseTypePhysicalBO business object.

Component	Description
C1-PremiseTypeUpdate	Used to update an existing Premise Type record.
	This component invokes the ATC1PremiseType Inbound Web Service using the C1-PremiseTypePhysicalBO business object.
W1-AssetLocationTypeAdd	Used to create an Asset Location Type record.
	This component invokes the ATW1AssetLocationType Inbound Web Service using the W1-AssetLocationType business object.
W1-AssetLocationTypeDelete	Used to delete an existing Asset Location Type record.
	This component invokes the ATW1AssetLocationType Inbound Web Service using the W1-AssetLocationType business object.
W1-AssetLocationTypeRead	Used to query an existing Asset Location Type record.
	This component invokes the ATW1AssetLocationType Inbound Web Service using the W1-AssetLocationType business object.
W1-AssetLocationTypeUpdate	Used to update an existing Asset Location Type record.
	This component invokes the ATW1AssetLocationType Inbound Web Service using W1-AssetLocationType business object.
W1-AssetTypeAdd	Used to create an Asset Type record.
	This component invokes the ATW1AssetType Inbound Web Service using the W1-AssetType business object.
W1-AssetTypeDelete	Used to delete an existing Asset Type record.
	This component invokes the ATW1AssetType Inbound Web Service using the W1-AssetType business object.
W1-AssetTypeRead	Used to query an existing Asset Type record.
	This component invokes the ATW1AssetType Inbound Web Service using the W1-AssetType business object.
W1-AssetTypeUpdate	Used to update an existing Asset Type record.
	This component invokes the ATW1AssetType Inbound Web Service using W1-AssetType business object.

Component	Description
W1-ContactTypeRead	Used to query an existing Contact Type record. This component invokes the ATW1ContactType Inbound Web Service using the W1-ContactType business object.
W1-ComponentTypeAdd	Used to create an Operational Device Component Type record. This component invokes the ATW1ComponentType Inbound Web Service using the W1-ComponentType business object.
W1-ComponentTypeDelete	Used to delete an existing Operational Device Component Type record. This component invokes the ATW1ComponentType Inbound Web Service using the W1-ComponentType business object.
W1-ComponentTypeRead	Used to query an existing Operational Device Component Type record. This component invokes the ATW1ComponentType Inbound Web Service using the W1-ComponentType business object.
W1-ComponentTypeUpdate	Used to update an existing Operational Device Component Type record. This component invokes the ATW1ComponentType Inbound Web Service using W1-ComponentType business object.
W1-OrganizationAdd	Used to create an Organization record. This component invokes the ATW1Organization Inbound Web Service using the W1-Organization business object.
W1-OrganizationDelete	Used to delete an existing Organization record. This component invokes the ATW1Organization Inbound Web Service using the W1-Organization business object.
W1-OrganizationRead	Used to query an existing Organization record. This component invokes the ATW1Organization Inbound Web Service using the W1-Organization business object.
W1-OrganizationUpdate	Used to update an existing Organization record. This component invokes the ATW1Organization Inbound Web Service using W1-Organization business object.

Component	Description
W1-OrganizationTypeAdd	Used to create an Organization Type record. This component invokes the ATW1OrganizationType Inbound Web Service using the W1-OrganizationType business object.
W1-OrganizationTypeDelete	Used to delete an existing Organization Type record. This component invokes the ATW1OrganizationType Inbound Web Service using the W1-OrganizationType business object.
W1-OrganizationTypeRead	Used to query an existing Organization Type record. This component invokes the ATW1OrganizationType Inbound Web Service using the W1-OrganizationType business object.
W1-OrganizationTypeUpdate	Used to update an existing Organization Type record. This component invokes the ATW1OrganizationType Inbound Web Service using W1-OrganizationType business object.
W1-ServiceHistoryAdd	Used to create an Operational Device Service History record. This component invokes the ATW1ServiceHistory Inbound Web Service using the W1-ServiceHistory business object.
W1-ServiceHistoryDelete	Used to delete an existing Operational Device Service History record. This component invokes the ATW1ServiceHistory Inbound Web Service using the W1-ServiceHistory business object.
W1-ServiceHistoryRead	Used to query an existing Operational Device Service History record. This component invokes the ATW1ServiceHistory Inbound Web Service using the W1-ServiceHistory business object.
W1-ServiceHistoryUpdate	Used to update an existing Operational Device Service History record. This component invokes the ATW1ServiceHistory Inbound Web Service using W1-ServiceHistory business object.

Component	Description
W1-StorageLocationAdd	Used to create an Out of Service Location record. This component invokes the ATW1StorageLocation Inbound Web Service using the W1-StorageLocation business object.
W1-StorageLocationDelete	Used to delete an existing Out of Service Location record. This component invokes the ATW1StorageLocation Inbound Web Service using the W1-StorageLocation business object.
W1-StorageLocationRead	Used to query an existing Out of Service Location record. This component invokes the ATW1StorageLocation Inbound Web Service using the W1-StorageLocation business object.
W1-StorageLocationUpdate	Used to update an existing Out of Service Location record. This component invokes the ATW1StorageLocation Inbound Web Service using W1-StorageLocation business object.
W1-StorageLocationTypeAdd	Used to create an Out of Service Location Type record. This component invokes the ATW1StorageLocationType Inbound Web Service using the W1-StorageLocationType business object.
W1-StorageLocationTypeDelete	Used to delete an existing Out of Service Location Type record. This component invokes the ATW1StorageLocationType Inbound Web Service using the W1-StorageLocationType business object.
W1-StorageLocationTypeRead	Used to query an existing Out of Service Location Type record. This component invokes the ATW1StorageLocationType Inbound Web Service using the W1-StorageLocationType business object.
W1-StorageLocationTypeUpdate	Used to update an existing Out of Service Location Type record. This component invokes the ATW1StorageLocationType Inbound Web Service using W1-StorageLocationType business object.

Component	Description
W2-ServicePointRead	Used to query an existing Service Point record.
	This component invokes the ATW2ServicePoint Inbound Web Service using the W2-ServicePoint business object.
W2-VehicleAdd	Used to create a Vehicle record.
	This component invokes the ATW2Vehicle Inbound Web Service using the W2-Vehicle business object.
W1-VehicleDelete	Used to delete an existing Vehicle record.
	This component invokes the ATW2Vehicle Inbound Web Service using the W2-Vehicle business object.
W1-VehicleRead	Used to query an existing Vehicle record.
	This component invokes the ATW2Vehicle Inbound Web Service using the W2-Vehicle business object.
W1-VehicleUpdate	Used to update an existing Vehicle record.
	This component invokes the ATW2Vehicle Inbound Web Service using W2-Vehicle business object.
X1-AssetLocationTypeAdd	Used to create a Service Point Type - ODM record.
	This component invokes the ATX1AssetLocationType Inbound Web Service using the X1-AssetLocationType business object.
X1-AssetLocationTypeDelete	Used to delete an existing Service Point Type - ODM record.
	This component invokes the ATX1AssetLocationType Inbound Web Service using the X1-AssetLocationType business object.
X1-AssetLocationTypeRead	Used to query an existing Service Point Type - ODM record.
	This component invokes the ATX1AssetLocationType Inbound Web Service using the X1-AssetLocationType business object.
X1-AssetLocationTypeUpdate	Used to update an existing Service Point Type - ODM record.
	This component invokes the ATX1AssetLocationType Inbound Web Service using X1-AssetLocationType business object.

Component	Description
X1-ServicePointTypeAdd	Used to create a Service Point Type - CCB record. This component invokes the ATX1ServicePointType Inbound Web Service using the X1-ServicePointType business object.
X1-ServicePointTypeDelete	Used to delete an existing Service Point Type - CCB record. This component invokes the ATX1ServicePointType Inbound Web Service using the X1-ServicePointType business object.
X1-ServicePointTypeRead	Used to query an existing Service Point Type - CCB record. This component invokes the ATX1ServicePointType Inbound Web Service using the X1-ServicePointType business object.
X1-ServicePointTypeUpdate	Used to update an existing Service Point Type - CCB record. This component invokes the ATX1ServicePointType Inbound Web Service using X1-ServicePointType business object.
X1-ServiceTypeAdd	Used to create a Service Type - CCB record. This component invokes the ATX1ServiceType Inbound Web Service using the X1-ServiceType business object.
X1-ServiceTypeDelete	Used to delete an existing Service Type - CCB record. This component invokes the ATX1ServiceType Inbound Web Service using the X1-ServiceType business object.
X1-ServiceTypeRead	Used to query an existing Service Type - CCB record. This component invokes the ATX1ServiceType Inbound Web Service using the X1-ServiceType business object.
X1-ServiceTypeUpdate	Used to update an existing Service Type - CCB record. This component invokes the ATX1ServiceType Inbound Web Service using X1-ServiceType business object.

Component	Description
X1D-ServicePointTypeAdd	Used to create a Service Point Type - MDM record.
	This component invokes the ATXD1ServicePointType Inbound Web Service using the X1D-ServicePointType business object.
X1D-ServicePointTypeDelete	Used to delete an existing Service Point Type - MDM record.
	This component invokes the ATXD1ServicePointType Inbound Web Service using the X1D-ServicePointType business object.
X1D-ServicePointTypeRead	Used to query an existing Service Point Type - MDM record.
	This component invokes the ATXD1ServicePointType Inbound Web Service using the X1D-ServicePointType business object.
X1D-ServicePointTypeUpdate	Used to update an existing Service Point Type - MDM record.
	This component invokes the ATXD1ServicePointType Inbound Web Service using X1D-ServicePointType business object.

Asset Management

Component	Description
W1-AssetLocationAdd	Used to add an Operational Device Asset Location record.
	This component invokes the Inbound Web Service ATW1AssetLocation using the W1-AssetLocation Business Object.
W1-AssetLocationDelete	Used to delete an Operational Device Asset Location record.
	This component invokes the Inbound Web Service ATW1AssetLocation using the W1-AssetLocation Business Object.
W1-AssetLocationRead	Used to read an Operational Device Asset Location record.
	This component invokes the Inbound Web Service ATW1AssetLocation using the W1-AssetLocation Business Object.

Component	Description
W1-AssetLocationUpdate	Used to update an Operational Device Asset Location record. This component invokes the Inbound Web Service ATW1AssetLocation using the W1-AssetLocation Business Object.
W1-BasicTestAdd	Used to add an Operational Device Basic Test record. This component invokes the Inbound Web Service ATW1BasicTest using the W1-BasicTest business object.
W1-BasicTestDelete	Used to delete an Operational Device Basic Test record. This component invokes the Inbound Web Service ATW1BasicTest using the W1-BasicTest business object.
W1-BasicTestRead	Used to read an Operational Device Basic Test record. This component invokes the Inbound Web Service ATW1BasicTest using the W1-BasicTest business object.
W1-BasicTestUpdate	Used to update an Operational Device Basic Test record. This component invokes the Inbound Web Service ATW1BasicTest using the W1-BasicTest business object.
W1-ServiceHistoryAdd	Used to add a Service History record. This component invokes the Inbound Web Service ATW1ServiceHistory using the W1-ServiceHistory business object.
W1-ServiceHistoryDelete	Used to delete a Service History record. This component invokes the Inbound Web Service ATW1ServiceHistory using the W1-ServiceHistory business object.
W1-ServiceHistoryRead	Used to read a Service History record. This component invokes the Inbound Web Service ATW1ServiceHistory using the W1-ServiceHistory business object.

Component	Description
W1-ServiceHistoryUpdate	Used to update a Service History record. This component invokes the Inbound Web Service ATW1ServiceHistory using the W1-ServiceHistory business object.
W2-CommComponentAdd	Used to add a Communication Component record. This component invokes the Inbound Web Service ATW2CommunicationComponent using the W2-CommunicationComponent Business Object.
W2-CommComponentDelete	Used to delete a Communication Component record. This component invokes the Inbound Web Service ATW2CommunicationComponent using the W2-CommunicationComponent Business Object.
W2-CommComponentRead	Used to read a Communication Component record. This component invokes the Inbound Web Service ATW2CommunicationComponent using the W2-CommunicationComponent Business Object.
W2-CommComponentUpdate	Used to update a Communication Component record. This component invokes the Inbound Web Service ATW2CommunicationComponent using the W2-CommunicationComponent Business Object.
W2-CommCompSpecificationAdd	Used to add a Comm Comp Specification record. This component invokes the Inbound Web Service ATW2CommunicationComponentSpec using the W2-CommunicationComponentSpec Business Object.
W2-CommCompSpecificationDelete	Used to delete a Comm Comp Specification record. This component invokes the Inbound Web Service ATW2CommunicationComponentSpec using the W2-CommunicationComponentSpec Business Object.
W2-CommCompSpecificationRead	Used to read a Comm Comp Specification record. This component invokes the Inbound Web Service ATW2CommunicationComponentSpec using the W2-CommunicationComponentSpec Business Object.

Component	Description
W2-CommCompSpecificationUpdate	Used to update a Comm Comp Specification record. This component invokes the Inbound Web Service ATW2CommunicationComponentSpec using the W2-CommunicationComponentSpec Business Object.
W2-CommRelaySpecificationAdd	Used to add a Comm Relay Specification record. This component invokes the Inbound Web Service ATW2CommunicationRelaySpec using the W2-CommunicationRelaySpec Business Object.
W2-CommRelaySpecificationDelete	Used to delete a Comm Relay Specification record. This component invokes the Inbound Web Service ATW2CommunicationRelaySpec using the W2-CommunicationRelaySpec Business Object.
W2-CommRelaySpecificationRead	Used to read a Comm Relay Specification record. This component invokes the Inbound Web Service ATW2CommunicationRelaySpec using the W2-CommunicationRelaySpec Business Object.
W2-CommRelaySpecificationUpdate	Used to update a Comm Relay Specification record. This component invokes the Inbound Web Service ATW2CommunicationRelaySpec using the W2-CommunicationRelaySpec Business Object.
W2-CommunicationRelayAdd	Used to add a Communication Relay record. This component invokes the Inbound Web Service ATW2CommunicationRelay using the W2-CommunicationRelay Business Object.
W2-CommunicationRelayDelete	Used to delete a Communication Relay record. This component invokes the Inbound Web Service ATW2CommunicationRelay using the W2-CommunicationRelay Business Object.
W2-CommunicationRelayRead	Used to read a Communication Relay record. This component invokes the Inbound Web Service ATW2CommunicationRelay using the W2-CommunicationRelay Business Object.
W2-CommunicationRelayUpdate	Used to update a Communication Relay record. This component invokes the Inbound Web Service ATW2CommunicationRelay using the W2-CommunicationRelay Business Object.

Component	Description
W2-FirmwareSpecificationAdd	Used to add a Firmware Specification record.
	This component invokes the Inbound Web Service ATW2FirmwareSpecification using the W2-FirmwareSpecification Business Object.
W2-FirmwareSpecificationDelete	Used to delete a Firmware Specification record.
	This component invokes the Inbound Web Service ATW2FirmwareSpecification using the W2-FirmwareSpecification Business Object.
W2-FirmwareSpecificationRead	Used to read a Firmware Specification record.
	This component invokes the Inbound Web Service ATW2FirmwareSpecification using the W2-FirmwareSpecification Business Object.
W2-FirmwareSpecificationUpdate	Used to update a Firmware Specification record.
	This component invokes the Inbound Web Service ATW2FirmwareSpecification using the W2-FirmwareSpecification Business Object.
W2-FirmwareVersionAdd	Used to add a Firmware Version record.
	This component invokes the Inbound Web Service ATW2FirmwareVersion using the W2-FirmwareVersion Business Object.
W2-FirmwareVersionDelete	Used to delete a Firmware Version record.
	This component invokes the Inbound Web Service ATW2FirmwareVersion using the W2-FirmwareVersion Business Object.
W2-FirmwareVersionRead	Used to read a Firmware Version record.
	This component invokes the Inbound Web Service ATW2FirmwareVersion using the W2-FirmwareVersion Business Object.
W2-FirmwareVersionUpdate	Used to update a Firmware Version record.
	This component invokes the Inbound Web Service ATW2FirmwareVersion using the W2-FirmwareVersion Business Object.
W2-ManualMeterAdd	Used to add an Analog Meter record.
	This component invokes the Inbound Web Service ATW2ManualMeter using the W2-ManualMeter Business Object.

Component	Description
W2-ManualMeterDelete	Used to delete an existing Analog Meter record.
	This component invokes the Inbound Web Service ATW2ManualMeter using the W2-ManualMeter Business Object.
W2-ManualMeterRead	Used to read an existing Analog Meter record.
	This component invokes the Inbound Web Service ATW2ManualMeter using the W2-ManualMeter Business Object.
W2-ManualMeterUpdate	Used to update an existing Analog Meter record.
	This component invokes the Inbound Web Service ATW2ManualMeter using the W2-ManualMeter Business Object.
W2-ManualMeterSpecificationAdd	Used to add an Analog Meter Specification record.
	This component invokes the Inbound Web Service ATW2ManualMeterSpecification using the W2-ManualMeterSpecification Business Object.
W2-ManualMeterSpecificationDelete	Used to delete an Analog Meter Specification record.
	This component invokes the Inbound Web Service ATW2ManualMeterSpecification using the W2-ManualMeterSpecification Business Object.
W2-ManualMeterSpecificationRead	Used to read an Analog Meter Specification record.
	This component invokes the Inbound Web Service ATW2ManualMeterSpecification using the W2-ManualMeterSpecification Business Object.
W2-ManualMeterSpecificationUpdate	Used to update an Analog Meter Specification record.
	This component invokes the Inbound Web Service ATW2ManualMeterSpecification using the W2-ManualMeterSpecification Business Object.
W2-SmartMeterAdd	Used to add a Smart Meter record.
	This component invokes the Inbound Web Service ATW2SmartMeter using the W2-SmartMeter Business Object.
W2-SmartMeterDelete	Used to delete an existing Smart Meter record.
	This component invokes the Inbound Web Service ATW2SmartMeter using the W2-SmartMeter Business Object.

Component	Description
W2-SmartMeterRead	Used to read an existing Smart Meter record. This component invokes the Inbound Web Service ATW2SmartMeter using the W2-SmartMeter Business Object.
W2-SmartMeterUpdate	Used to update an existing Smart Meter record. This component invokes the Inbound Web Service ATW2SmartMeter using the W2-SmartMeter Business Object.
W2-SmartMeterSpecificationAdd	Used to add a Smart Meter Specification record. This component invokes the Inbound Web Service ATW2SmartMeterSpecification using the W2-SmartMeterSpecification Business Object.
W2-SmartMeterSpecificationDelete	Used to delete a Smart Meter Specification record. This component invokes the Inbound Web Service ATW2ManualMeterSpecification using the W2-ManualMeterSpecification Business Object.
W2-SmartMeterSpecificationRead	Used to read a Smart Meter Specification record. This component invokes the Inbound Web Service ATW2SmartMeterSpecification using the W2-SmartMeterSpecification Business Object.
W2-SmartMeterSpecificationUpdate	Used to update a Smart Meter Specification record. This component invokes the Inbound Web Service ATW2SmartMeterSpecification using the W2-SmartMeterSpecification Business Object.
W2-SmartTestAdd	Used to add a Smart Device Test record. This component invokes the Inbound Web Service ATW2SmartTest using the W2-SmartTest Business Object.
W2-SmartTestDelete	Used to delete an existing Smart Device Test record. This component invokes the Inbound Web Service ATW2SmartTest using the W2-SmartTest Business Object.
W2-SmartTestRead	Used to query an existing Smart Device Test record. This component invokes the Inbound Web Service ATW2SmartTest using the W2-SmartTest Business Object.

Component	Description
W2-SmartTestUpdate	Used to update an existing Smart Device Test record.
	This component invokes the Inbound Web Service ATW2SmartTest using the W2-SmartTest Business Object.

Credit and Collection

Component	Description
C1-CollectionProcessAdd	Used to add a Collection Process record.
	This component invokes the Inbound Web Service ATC1CollectionProcess using the C1CollectionProcAdd Business Service.
C1-CollectionProcessRead	Used to read a Collection Process record.
	This component invokes the Inbound Web Service ATC1CollectionProcess using the C1CollectionProcRead Business Service.
C1-CollectionProcessUpdate	Used to update a Collection Process record.
	This component invokes the Inbound Web Service ATC1CollectionProcess using the C1CollectionProcUpdate Business Service.
C1-CutProcessRead	Used to read a Cut Process record.
	This component invokes the ATC1CutProcess Inbound Web Service using the C1CutProcRead Business Service.
C1-CutProcessUpdate	Used to update a Cut Process record.
	This component invokes the Inbound Web Service ATC1CutProcess using the C1CutProcUpdate Business Service.
C1-OverdueProcessRead	Used to read an Overdue Process record.
	This component invokes the Inbound Web Service ATC1OverdueProcess using the C1OverdueProcessRead Business Service.
C1-OverdueProcessUpdate	Used to update an Overdue Process record.
	This component invokes the Inbound Web Service ATC1OverdueProcess using the C1OverdueProcessUpdate Business Service.

Component	Description
C1-PayPlanAdd	Used to create a Pay Plan record. This component invokes the Inbound Web Service ATC1PayPlan using the C1PayPlanAdd Business Service.
C1-PayPlanRead	Used to read a Pay Plan record. This component invokes the Inbound Web Service ATC1PayPlan using the C1PayPlanRead Business Service.
C1-PayPlanUpdate	Used to update a Pay Plan record. This component invokes the Inbound Web Service ATC1PayPlan using the C1PayPlanUpdate Business Service.
C1-SeveranceProcessRead	Used to read a Severance Process record. This component invokes the Inbound Web Service ATC1SeveranceProcess using the C1SeveranceProcessRead Business Service.
C1-SeveranceProcessUpdate	Used to update a Severance Process record. This component invokes the Inbound Web Service ATC1SeveranceProcess using the C1SeveranceProcessUpdate Business Service.
C1-WriteOffRead	Used to read a Write Off record. This component invokes the Inbound Web Service ATC1WriteOff using the C1WriteOffRead Business Service.
C1-WriteOffUpdate	Used to update a Write Off record. This component invokes the Inbound Web Service ATC1WriteOff using the C1WriteOffUpdate Business Service.
C1-WriteOffProcessAdd	Used to create a Write Off Process record. This component invokes the Inbound Web Service ATC1WriteOffProcess using the C1WriteOffProcessAdd Business Service.
C1-WriteOffProcessRead	Used to read a Write Off Process record. This component invokes the Inbound Web Service ATC1WriteOffProcess using the C1WriteOffProcessRead Business Service.

Component	Description
C1-WriteOffProcessUpdate	Used to update a Write Off Process record. This component invokes the Inbound Web Service ATC1WriteOffProcess using the C1WriteOffProcessUpdate Business Service.
C1-CollAgencyReferralAdd	Used to create a Collection Agency Referral record. This component invokes the Inbound Web Service ATC1CollectionAgencyReferral using the C1CollAgencyRefAdd Business Service.
C1-CollAgencyReferralDelete	Used to update a Collection Agency Referral record. This component invokes the Inbound Web Service ATC1CollectionAgencyReferral using the C1CollAgencyRefDelete Business Service.
C1-CollAgencyReferralRead	Used to read a Collection Agency Referral record. This component invokes the Inbound Web Service ATC1CollectionAgencyReferral using the C1CollAgencyRefRead Business Service.
C1-CollAgencyReferralUpdate	Used to update a Collection Agency Referral record. This component invokes the Inbound Web Service ATC1CollectionAgencyReferral using the C1CollAgencyRefUpdate Business Service.
C1-PayArrangementByBillAdd	Used add a Payment Arrangement by Bill record. This component invokes the Inbound Web Service ATC1PaymentArrangementByBill using the C1PayArrangeByBillAdd Business Service.
C1-PayArrangementByBillRead	Used to read a Payment Arrangement by Bill record. This component invokes the Inbound Web Service ATC1PayArrangeByBill using the C1PayArrangeByBillRead Business Service.
C1-PayArrangementByBillUpdate	Used to update a Payment Arrangement by Bill record. This component invokes the Inbound Web Service ATC1PayArrangeByBill using the C1PayArrangeByBillUpdate Business Service.
C1-PaymentArrangementAdd	Used to add a Payment Arrangement record. This component invokes the Inbound Web Service ATC1PayArrangement using the C1PayArrangementAdd Business Service.

Component	Description
C1-PaymentArrangementRead	Used to read a Payment Arrangement record. This component invokes the Inbound Web Service ATC1PayArrangement using the C1PayArrangementRead Business Service.
C1-PaymentArrangementUpdate	Used to update a Payment Arrangement record. This component invokes the Inbound Web Service ATC1PayArrangement using the C1PayArrangementUpdate Business Service.

Customer Information

Component	Description
C1-AccountAdd	Used to create an Account record. This component invokes the ATC1Account Inbound Web Service using the C1AccountPhysical Business Object.
C1-AccountUpdate	Used to update an existing Account record. This component invokes the ATC1Account Inbound Web Service using the C1AccountPhysical Business Object.
C1-AccountDelete	Used to delete an existing Account record. This component invokes the ATC1Account Inbound Web Service using the C1AccountPhysical Business Object.
C1-AccountRead	Used to read an existing Account record. This component invokes the ATC1Account Inbound Web Service using the C1AccountPhysical Business Object.
C1-AccountBSRead	Used to read an existing Account record. This component invokes the ATC1AccountBS Inbound Web Service using the C1-AccountRead Business Service.
C1-AccountBSUpdate	Used to update an existing Account record. This component invokes the ATC1AccountBS Inbound Web Service using the C1-AccountUpdate Business Service.

Component	Description
C1-ContractOptionAdd	Used to create a Contract Option record. This component invokes the ATC1ContractOption Inbound Web Service using the C1ContractOptionPhysical Business Object.
C1-ContractOptionDelete	Used to delete an existing Contract Option record. This component invokes the ATC1ContractOption Inbound Web Service using the C1ContractOptionPhysical Business Object.
C1-ContractOptionUpdate	Used to update (Update, Freeze and Cancel) an existing Contract Option record. This component invokes the ATC1ContractOption Inbound Web Service using the C1ContractOptionPhysical Business Object.
C1-ContractOptionRead	Used to read an existing Contract Option record. This component invokes the ATC1ContractOption Inbound Web Service using the C1ContractOptionPhysical Business Object.
C1-ContractOptEventAdd	Used to create a Contract Option Event record. This component invokes the ATC1ContractOptEvent Inbound Web Service using the C1-ContractOptEventAdd Business Service.
C1-ContractOptEventDelete	Used to delete an existing Contract Option Event record. This component invokes the ATC1ContractOptEvent Inbound Web Service using the C1-ContractOptEventDelete Business Service.
C1-ContractOptEventRead	Used to query an existing Contract Option Event record. This component invokes the ATC1ContractOptEvent Inbound Web Service using the C1-ContractOptEventRead Business Service.
C1-ContractOptEventUpdate	Used to update an existing Contract Option Event record. This component invokes the ATC1ContractOptEvent Inbound Web Service using the C1-ContractOptEventUpdate Business Service.

Component	Description
C1-PersonAdd	Used to create a Person record. This component invokes the ATC1Person Inbound Web Service using the C1PersonPhysical Business Object.
C1-PersonUpdate	Used to update an existing Person record. This component invokes the ATC1Person Inbound Web Service using the C1PersonPhysical Business Object.
C1-PersonDelete	Used to delete an existing Person record. This component invokes the ATC1Person Inbound Web Service using the C1PersonPhysical Business Object.
C1-PersonRead	Used to read an existing Person record. This component invokes the ATC1Person Inbound Web Service using the C1PersonPhysical Business Object.
C1-PersonBSAdd	Used to create a Person record. This component invokes the ATC1PersonBS Inbound Web Service using the C1-PersonAdd Business Service.
C1-PersonBSRead	Used to read a Person record. This component invokes the ATC1PersonBS Inbound Web Service using the C1-PersonRead Business Service.
C1-PersonBSUpdate	Used to update a Person record. This component invokes the ATC1PersonBS Inbound Web Service using the C1-PersonUpdate Business Service.
C1-PremiseAdd	Used to create a Premise record. This component invokes the ATC1Premise Inbound Web Service using the C1PremisePhysical Business Object.
C1-PremiseUpdate	Used to update an existing Premise record. This component invokes the ATC1Premise Inbound Web Service using the C1PremisePhysical Business Object.

Component	Description
C1-PremiseDelete	Used to delete an existing Premise record. This component invokes the ATC1Premise Inbound Web Service using the C1PremisePhysical Business Object.
C1-PremiseRead	Used to read an existing Premise record. This component invokes the ATC1Premise Inbound Web Service using the C1PremisePhysical Business Object.
C1-SARelationshipAdd	Used to create an SA Relationship record. This component invokes the ATC1SARelationship Inbound Web Service using the C1SARelationshipAdd Business Service.
C1-SARelationshipUpdate	Used to update (update, activate, cancel, create sub SA) an existing SA Relationship record. This component invokes the ATC1SARelationship Inbound Web Service using the C1SARelationshipUpdate Business Service.
C1-SARelationshipRead	Used to read an existing SA Relationship record. This component invokes the ATC1SARelationship Inbound Web Service using the C1SARelationshipRead Business Service.
C1-ServiceAgreementAdd	Used to create a Service Agreement record. This component invokes the ATC1ServiceAgreement Inbound Web Service using the C1ServiceAgreementPhysical Business Object.
C1-ServiceAgreementRead	Used to read an existing Service Agreement record. This component invokes the ATC1ServiceAgreement Inbound Web Service using the C1ServiceAgreementPhysical Business Object.
C1-ServiceAgreementUpdate	Used to update (activate, apply new start option, cancel, close, cancel proposal SA, accept proposal SA, decline proposal SA, activate proposal SA, reactivate, stop) an existing Service Agreement record. This component invokes the ATC1ServiceAgreementUpdate Inbound Web Service using the C1ServiceAgreementUpdate Business Service.

Component	Description
C1-StartStopUpdate	Used to invoke the Start Stop functionality including the cancel, stop and start actions.
	This component invokes the ATC1StartStop Inbound Web Service using the C1StartStopUpdate Business Service.
C1-StartStopRead	Used to read a Start Stop record.
	This component invokes the ATC1StartStop Inbound Web Service using the C1StartStopRead Business Service.
C1-StartStopBSUpdate	Used to invoke the Start Stop functionality including the cancel, stop and start actions.
	This component invokes the ATC1StartStopBS Inbound Web Service using the C1-StartStopMaintenanceRead Business Service.
C1-StartStopBSRead	Used to read a Start Stop record.
	This component invokes the ATC1StartStopBS Inbound Web Service using the C1-StartStopMaintenanceUpdate Business Service.
W1-BusinessRead	Used to query an existing ODM Business Contact record.
	This component invokes the ATW1Person Inbound Web Service using the W1-Business Business Object.
W1-PersonRead	Used to query an existing ODM Person Contact record.
	This component invokes the ATW1Person Inbound Web Service using the W1-Person Business Object.
X1-ServicePointAdd	Used to create a Service Point record.
	This component invokes the ATX1ServicePoint Inbound Web Service using the X1D-ServicePoint Business Object.
X1-ServicePointDelete	Used to delete an existing Service Point record.
	This component invokes the ATX1ServicePoint Inbound Web Service using the X1D-ServicePoint Business Object.
X1-ServicePointRead	Used to query an existing Service Point record.
	This component invokes the ATX1ServicePoint Inbound Web Service using the X1D-ServicePoint Business Object.

Component	Description
X1-ServicePointUpdate	Used to update an existing Service Point record.
	This component invokes the ATX1ServicePoint Inbound Web Service using the X1D-ServicePoint Business Object.
X1-SPCharacteristicsRead	User to query an existing C2M Service Point Characteristics record.
	This component invokes the ATD1ServicePointCharacteristics Inbound Web Service using the D1-SPReadCharacteristics Business Service.
X1-SPCharacteristicsUpdate	User to update an existing C2M Service Point Characteristics record.
	This component invokes the ATD1ServicePointCharacteristics Inbound Web Service using the D1-SPUpdateCharacteristics Business Service.

Data Synchronization

Component	Description
C1-FASyncRequestRead	Used to read an FA Sync Request record.
	This component invokes the ATC1FASyncRequestRead Inbound Web Service using the C1-FASyncRequest Business Object.

Component	Description
C1-GetSyncRequestId	Used to get the sync request ID of a given primary key ID (for example: Person, SP, SA, Contract Option, Contract Option Event, etc) using a specific query zone.
	The following zones can be used:
	• C1-GETSYNCU2 - Get Sync Req ID using Contract Option Event ID
	• C1-GETSYNCU3 - Get Sync Req ID using Contract Option ID
	• C1-GETPERSYN - Get Sync Request ID using Person ID
	• C1-GETSASYNC - Get Sync Request ID using Service Agreement ID
	• C1-GETFASYNC - Get Sync Request ID using Field Activity ID
	• C1-GETSYNCRQ - Get Sync Request ID using External ID
	This component invokes the ATC1GetSyncRequestId Inbound Web Service using the C1-GetSyncRequestId Business Service.
C1-MDM2ContOptEvtSyncReqRead	Used to read an MDM2 Contract Option Event Sync Request record.
	This component invokes the ATC1MDM2ContrOptEvtSyncReqRead Inbound Web Service using the C1-MDM2ContrOptEvtSyncRequest Business Object.
C1-MDM2ContractOptSyncReqRead	Used to read an MDM2 Contract Option Sync Request record.
	This component invokes the ATC1MDM2ContractOptSyncReqRead Inbound Web Service using the C1-MDM2ContractOptSyncRequest Business Object.
C1-MDM2PersonSyncRequestRead	Used to read an MDM2 Person Sync Request record.
	This component invokes the ATC1MDM2PersonSyncReqRead Inbound Web Service using the C1-MDM2PersonSyncRequest Business Object.
C1-MDM2SARelSyncRequestRead	Used to read an MDM2 SA Relationship Sync Request record.
	This component invokes the ATC1MDM2SARelSyncRequestRead Inbound Web Service using the C1-MDM2SARelSyncRequest Business Object.

Component	Description
C1-MDM2SASyncRequestRead	Used to read an MDM2 Service Agreement Sync Request record. This component invokes the ATC1MDM2SASyncRequestRead Inbound Web Service using the C1-MDM2SASyncRequest Business Object.
W1-MDMAssetSyncRequestRead	Used to read an MDM Asset Sync Request record. This component invokes the ATW1MDMAssetSyncRequestRead Inbound Web Service using the W1-MDMAssetSyncRequest Business Object.
W1-OngoingSyncRequestAssetNodeRead	Used to read an Asset-Node Ongoing Sync Request record. This component invokes the ATW1OngoingSyncRequestAssetNodeRead Inbound Web Service using the W1-OngoingSyncRequestAssetNode Business Object.
X1-GetInboundSyncRequestId	Used to retrieve the Inbound Sync Request Id depending on the query zone used. The following zones can be used: • X1-GETSYNCEX - Get Inbound Sync Request ID using External ID This component invokes the ATX1GetSyncRequestInId Inbound Web Service using the X1-GetSyncRequestInId Business Service.

Extendable Lookup

Component	Description
X1-C2MSATypeMappingAdd	Used to create a Customer to Meter SA Type mapping Extendable Lookup record. This component invokes the ATX1C2MSATypeMapping Inbound Web Service using the X1-C2MSATypeMapping Business Object.
X1-C2MSATypeMappingUpdate	Used to update an existing Customer to Meter SA Type mapping Extendable Lookup record. This component invokes the ATX1C2MSATypeMapping Inbound Web Service using the X1-C2MSATypeMapping Business Object.

Component	Description
X1-C2MSATypeMappingDelete	Used to delete an existing Customer to Meter SA Type mapping Extendable Lookup record. This component invokes the ATX1C2MSATypeMapping Inbound Web Service using the X1-C2MSATypeMapping Business Object.
X1-C2MSATypeMappingRead	Used to query an existing Customer to Meter SA Type mapping Extendable Lookup record. This component invokes the ATX1C2MSATypeMapping Inbound Web Service using the X1-C2MSATypeMapping Business Object.
X1-CCBMDM-MDMCCB-LookupAdd	Used to create the mapping values for each field that requires translation between CCB and MDM Maintenance Objects. The following lookup value can be used: • C1_HIGHLIGHT_TYPE_FLG - Highlight Type • C1_USG_RQST_SA_SKIP_RSN_FLG - SA Skip Reason • CONT_OPT_TYPE_CD - Contract Option Type • DISCON_LOC_CD - Disconnect Location • FA_TYPE_CD - Field Activity Type • KEY_SW - key • LS_SL_FLG - Life Support / Sensitive Load • OK_TO_ENTER_SW - OK to Enter • PER_OR_BUS_FLG - Contact Type This component invokes the ATX1CCBMDM-MDMCCB-Lookup Inbound Web Service using the X1-CCBMDM-MDMCCB-Lookup Business Object.

Component	Description
X1-CCBMDM-MDMCCB-LookupUpd	Used to update an existing mapping values for each field that requires translation between CCB and MDM Maintenance Objects. The following lookup value can be used: • C1_HIGHLIGHT_TYPE_FLG - Highlight Type • C1_USG_RQST_SA_SKIP_RSN_FLG - SA Skip Reason • CONT_OPT_TYPE_CD - Contract Option Type • DISCON_LOC_CD - Disconnect Location • FA_TYPE_CD - Field Activity Type • KEY_SW - key • LS_SL_FLG - Life Support / Sensitive Load • OK_TO_ENTER_SW - OK to Enter • PER_OR_BUS_FLG - Contact Type This component invokes the ATX1CCBMDM-MDMCCB-Lookup Inbound Web Service using the X1-CCBMDM-MDMCCB-Lookup Business Object.
X1-CCBMDM-MDMCCB-LookupDel	Used to delete an existing mapping values for each field that requires translation between CCB and MDM Maintenance Objects. The following lookup value can be used: • C1_HIGHLIGHT_TYPE_FLG - Highlight Type • C1_USG_RQST_SA_SKIP_RSN_FLG - SA Skip Reason • CONT_OPT_TYPE_CD - Contract Option Type • DISCON_LOC_CD - Disconnect Location • FA_TYPE_CD - Field Activity Type • KEY_SW - key • LS_SL_FLG - Life Support / Sensitive Load • OK_TO_ENTER_SW - OK to Enter • PER_OR_BUS_FLG - Contact Type This component invokes the ATX1CCBMDM-MDMCCB-Lookup Inbound Web Service using the X1-CCBMDM-MDMCCB-Lookup Business Object.

Component	Description
X1-CCBMDM-MDMCCB-LookupRead	Used to query an existing mapping values for each field that requires translation between CCB and MDM Maintenance Objects. The following lookup value can be used: • C1_HIGHLIGHT_TYPE_FLG - Highlight Type • C1_USG_RQST_SA_SKIP_RSN_FLG - SA Skip Reason • CONT_OPT_TYPE_CD - Contract Option Type • DISCON_LOC_CD - Disconnect Location • FA_TYPE_CD - Field Activity Type • KEY_SW - key • LS_SL_FLG - Life Support / Sensitive Load • OK_TO_ENTER_SW - OK to Enter • PER_OR_BUS_FLG - Contact Type This component invokes the ATX1CCBMDM-MDMCCB-Lookup Inbound Web Service using the X1-CCBMDM-MDMCCB-Lookup Business Object.

Component	Description
X1-ODMMDM-MDMODM-LookupAdd	Used to create the mapping values for each field that requires translation between ODM and MDM maintenance objects. The following lookup value can be used: • ASSET_STATUS (Asset/Device Status) • ASSET_TYPE_CD (Asset Type/Device Type) • CONTACT_BUS_OBJ_CD (Contact Business Object) • DISCONNECT_LOC_FLG (Disconnect Location) • KEY_SW (Key) • LIFE_SUPPORT_SENS_LOAD_FLG (Life Support/Sensitive Load) • MR_INSTR_CD (SP Instruction) • MR_WARN_CD (SP Warning) • MTR_LOC_CD (Site Location) • OK_TO_ENTER_FLG (OK to Enter, SVC_TYPE_FLG (Service Type) This component invokes the ATX1ODMMDM-MDMODM-Lookup Inbound Web Service using X1-ODMMDM-MDMODM-Lookup Business Object.

Component	Description
X1-ODMMDM-MDMODM-LookupDelete	Used to delete an existing mapping values for each field that requires translation between ODM and MDM maintenance objects. The following lookup value can be used: • ASSET_STATUS (Asset/Device Status) • ASSET_TYPE_CD (Asset Type/Device Type) • CONTACT_BUS_OBJ_CD (Contact Business Object) • DISCONNECT_LOC_FLG (Disconnect Location) • KEY_SW (Key) • LIFE_SUPPORT_SENS_LOAD_FLG (Life Support/Sensitive Load) • MR_INSTR_CD (SP Instruction) • MR_WARN_CD (SP Warning) • MTR_LOC_CD (Site Location) • OK_TO_ENTER_FLG (OK to Enter) • SVC_TYPE_FLG (Service Type) This component invokes the ATX1ODMMDM-MDMODM-Lookup Inbound Web Service using X1-ODMMDM-MDMODM-Lookup Business Object.

Component	Description
X1-ODMMDM-MDMODM-LookupUpd	Used to update and existing mapping values for each field that requires translation between ODM and MDM maintenance objects.

The following lookup value can be used:
- ASSET_STATUS (Asset/Device Status)
- ASSET_TYPE_CD (Asset Type/Device Type)
- CONTACT_BUS_OBJ_CD (Contact Business Object)
- DISCONNECT_LOC_FLG (Disconnect Location)
- KEY_SW (Key)
- LIFE_SUPPORT_SENS_LOAD_FLG (Life Support/Sensitive Load)
- MR_INSTR_CD (SP Instruction)
- MR_WARN_CD (SP Warning)
- MTR_LOC_CD (Site Location)
- OK_TO_ENTER_FLG (OK to Enter)
- SVC_TYPE_FLG (Service Type)

This component invokes the ATX1ODMMDM-MDMODM-Lookup Inbound Web Service using X1-ODMMDM-MDMODM-Lookup Business Object.

Component	Description
X1-ODMMDM-MDMODM-LookupRead	Used to query an existing mapping values for each field that requires translation between ODM and MDM maintenance objects. The following lookup value can be used: • ASSET_STATUS (Asset/Device Status) • ASSET_TYPE_CD (Asset Type/Device Type) • CONTACT_BUS_OBJ_CD (Contact Business Object) • DISCONNECT_LOC_FLG (Disconnect Location) • KEY_SW (Key) • LIFE_SUPPORT_SENS_LOAD_FLG (Life Support/Sensitive Load) • MR_INSTR_CD (SP Instruction) • MR_WARN_CD (SP Warning) • MTR_LOC_CD (Site Location) • OK_TO_ENTER_FLG (OK to Enter) • SVC_TYPE_FLG (Service Type) This component invokes the ATX1ODMMDM-MDMODM-Lookup Inbound Web Service using X1-ODMMDM-MDMODM-Lookup Business Object.

Financial

Component	Description
C1-AdjustmentAdd	Used to adding an Adjustment record. This component invokes the ATC1Adjustment Inbound Web Service using the C1AdjustmentAdd Business Service.
C1-AdjustmentDelete	Used to delete an Adjustment. This component invokes the ATC1Adjustment Inbound Web Service using the C1AdjustmentDelete Business Service.
C1-AdjustmentRead	Used to read an Adjustment. This component invokes the ATC1Adjustment Inbound Web Service using the C1AdjustmentRead Business Service.

Component	Description
C1-AdjustmentUpdate	Used to update an Adjustment record.
	This component invokes the ATC1Adjustment Inbound Web Service using the C1AdjustmentUpdate Business Service.
C1-StatementAdd	Used to create a Statement record.
	This component invokes the ATC1Statement Inbound Web Service using C1StatementAdd Business Service.
C1-StatementDelete	Used to delete a Statement record.
	This component invokes the ATC1Statement Inbound Web Service using C1StatementDelete Business Service.
C1-StatementRead	Used to read a Statement record.
	This component invokes the ATC1Statement Inbound Web Service using C1StatementRead Business Service.
C1-StatementUpdate	Used to update a Statement record.
	This component invokes the ATC1Statement Inbound Web Service using C1StatementUpdate Business Service.
C1-BillAdd	Used to add a Bill record.
	This component invokes the ATC1Bill Inbound Web Service using the C1BillAdd Business Service.
C1-BillDelete	Used to delete a Bill record
	This component invokes the ATC1Bill Inbound Web Service using the C1BillDelete Business Service.
C1-BillRead	Used to read a Bill record.
	This component invokes the ATC1Bill Inbound Web Service using the C1BillRead Business Service.
C1-BillUpdate	Used to update a Bill record.
	This component invokes the ATC1Bill Inbound Web Service using the C1BillUpdate Business Service.
C1-BillSegmentAdd	Used to add a Bill Segment record.
	This component invokes the ATC1BillSegment Inbound Web Service using the C1BillSegmentAdd Business Service.

Component	Description
C1-BillSegmentRead	Used to read a Bill Segment record. This component invokes the ATC1BillSegment Inbound Web Service using the C1BillSegmentRead Business Service.
C1-BillSegmentUpdate	Used to update a Bill Segment record. This component invokes the ATC1BillSegment Inbound Web Service using the C1BillSegmentUpdate Business Service.
C1-BillableChargeAdd	Used to add a Billable Charge record. This component invokes the ATC1BillableCharge Inbound Web Service using the C1BillableChargeAdd Business Service.
C1-BillableChargeRead	Used to read a Billable Charge record. This component invokes the ATC1BillableCharge Inbound Web Service using the C1BillableChargeRead Business Service.
C1-BillableChargeUpdate	Used to update a Billable Charge record. This component invokes the ATC1BillableCharge Inbound Web Service using the C1BillableChargeUpdate Business Service.
C1-DepositControlAdd	Used to add a Deposit Control record. This component invokes the ATC1DepositControl Inbound Web Service using the C1DepositControlAdd Business Service.
C1-DepositControlRead	Used to read a Deposit Control. This component invokes the ATC1DepositControl Inbound Web Service using the C1DepositControlRead Business Service.
C1-DepositControlUpdate	Used to update a Deposit Control record. This component invokes the ATC1DepositControl Inbound Web Service using the C1DepositControlUpdate Business Service.
C1-FTRead	Used to read a Financial Transaction record. This component invokes the ATC1FT Inbound Web Service using the C1FTRead Business Service.

Component	Description
C1-FTUpdate	Used to update a Financial Transaction record. This component invokes the ATC1FinancialTransaction Inbound Web Service using the C1FTUpdate Business Service.
C1-MatchEventAdd	Used to add a Match Event record. This component invokes the ATC1MatchEvent Inbound Web Service using the C1MatchEventAdd Business Service.
C1-MatchEventDelete	Used to delete a Match Event record. This component invokes the ATC1MatchEvent Inbound Web Service using the C1MatchEventDelete Business Service.
C1-MatchEventRead	Used to read a Match Event record. This component invokes the ATC1MatchEvent Inbound Web Service using the C1MatchEventRead Business Service.
C1-MatchEventUpdate	Used to update a Match Event record. This component invokes the ATC1MatchEvent Inbound Web Service using the C1MatchEventUpdate Business Service.
C1-MultiCancelRebillRead	Used to read a Multi Cancel Rebill record. This component invokes the ATC1MultiCancelRebill Inbound Web Service using the C1MultiCancelRebillRead Business Service.
C1-MultiCancelRebillUpdate	Used to update a Multi Cancel Rebill record. This component invokes the ATC1MultiCancelRebill Inbound Web Service using the C1MultiCancelRebillUpdate Business Service.
C1-OffCycleBillGeneratorAdd	Used to add an Off Cycle Bill Generator record. This component invokes the ATC1OffCycleBillGenerator Inbound Web Service using the C1OffCycleBillGeneratorAdd Business Service.
C1-OffCycleBillGeneratorDelete	Used to delete an Off Cycle Bill Generator record. This component invokes the ATC1OffCycleBillGenerator Inbound Web Service using the C1OffCycleBillGeneratorDelete Business Service.

Component	Description
C1-OffCycleBillGeneratorRead	Used to read an Off Cycle Bill Generator record.
	This component invokes the ATC1OffCycleBillGenerator Inbound Web Service using the C1OffCycleBillGeneratorRead Business Service.
C1-OffCycleBillGeneratorUpdate	Used to update an Off Cycle Bill Generator record.
	This component invokes the ATC1OffCycleBillGenerator Inbound Web Service using the C1OffCycleBillGeneratorUpdate Business Service.
C1-PaymentAdd	Used to add a Payment record.
	This component invokes the ATC1Payment Inbound Web Service using the C1PaymentAdd Business Service.
C1-PaymentDelete	Used to delete a Payment.
	This component invokes the ATC1Payment Inbound Web Service using the C1PaymentDelete Business Service.
C1-PaymentRead	Used to read a Payment.
	This component invokes the ATC1Payment Inbound Web Service using the C1PaymentRead Business Service.
C1-PaymentUpdate	Used to update a Payment record.
	This component invokes the ATC1Payment Inbound Web Service using the C1PaymentUpdate Business Service.
C1-PaymentEventAdd	Used to add a Payment Event record.
	This component invokes the ATC1PaymentEvent Inbound Web Service using the C1PaymentEventAdd Business Service.
C1-PaymentEventDelete	Used to delete a Payment Event record.
	This component invokes the ATC1PaymentEvent Inbound Web Service using the C1PaymentEventDelete Business Service.
C1-PaymentEventRead	Used to read a Payment Event record.
	This component invokes the ATC1PaymentEvent Inbound Web Service using the C1PaymentEventRead Business Service.

Component	Description
C1-PaymentEventUpdate	Used to update a Payment Event record. This component invokes the ATC1PaymentEvent Inbound Web Service using the C1PaymentEventUpdate Business Service.
C1-PaymentEventQuickAddAdd	Used to add a Payment Event Quick Add record. This component invokes the ATC1PaymentEventQuickAdd Inbound Web Service using the C1PaymentEventQuickAddAdd Business Service.
C1-PaymentQuickAddAdd	Used to add a Payment Quick Add record. This component invokes the ATC1PaymentEventQuickAdd Inbound Web Service using the C1PaymentQuickAddAdd Business Service.
C1-TenderControlAdd	Used to add a Tender Control record. This component invokes the ATC1TenderControl Inbound Web Service using the C1TenderControlAdd Business Service.
C1-TenderControlRead	Used to read a Tender Control record. This component invokes the ATC1TenderControl Inbound Web Service using the C1TenderControlRead Business Service.
C1-TenderControlUpdate	Used to update a Tender Control record. This component invokes the ATC1TenderControl Inbound Web Service using the C1TenderControlUpdate Business Service.
C1-TenderCtrlSearchByAllUser	Used to search an open Tender Control record. This component invokes the ATC1TenderCtrlSearchByAllUser Inbound Web Service using the C1TenderCtrlSearchByAllUser Business Service.

General

Component	Description
C1-CtrlCenSearchByAccountId	Used to search Control Central by Account ID. This component invokes the ATC1CtrlCenSearchByAccountId Inbound Web Service using the C1CtrlCenSearchByAccountId Business Service.
C1-CtrlCenSearchByAddress	Used to search Control Central by Address. This component invokes the ATC1CtrlCenSearchByAddress Inbound Web Service using the C1CtrlCenSearchByAddress Business Service.
C1-CtrlCenSearchByNameAddress	Used to search Control Central by Name and Address. This component invokes the ATC1CtrlCenSearchByNameAddress Inbound Web Service using the C1CtrlCenSearchByNameAddress Business Service.
X1-RetrieveAlerts	Used to retrieve Alerts. This component invokes the ATX1RetrieveAlerts Inbound Web Service using the X1RetrieveAlerts Business Service.
X1-RetrieveGlobalContexts	Used to retrieve Global Contexts. This component invokes the ATX1RetrieveGlobalContexts Inbound Web Service using the X1RetrieveGlobalContexts Business Service.

Master Configuration

Component	Description
X1-C2MMasterConfigurationAdd	Used to create a Customer to Meter Master Configuration record. This component invokes the ATX1C2MMasterConfiguration Inbound Web Service using the X1-C2MMasterConfiguration Business Object.

Component	Description
X1-C2MMasterConfigurationRead	Used to query an existing Customer to Meter Master Configuration record. This component invokes the ATX1C2MMasterConfiguration Inbound Web Service using the X1-C2MMasterConfiguration Business Object.
X1-C2MMasterConfigurationUpdate	Used to update an existing Customer to Meter Master Configuration record. This component invokes the ATX1C2MMasterConfiguration Inbound Web Service using the X1-C2MMasterConfiguration Business Object.

Service Order Management

Component	Description
C1-ActivityInformation	Used to read an Activity Information. This component invokes the ATC1ActivityInformation Inbound Web Service using the C1-ActvtyInf Service Script.
C1-DeviceInformation	Used to retrieving the Device Information. This component invokes the ATC1DeviceInformation Inbound Web Service using the C1-DeviceInf Service Script.
C1-FACompletionMessage	Used for the FA Completion Message. This component invokes the ATC1FACompletionMessage Inbound Web Service using the C1-FACmplMsg Service Script.
C1-PremiseFAGTT	Used for inserting the Premise Activities to GTT. This component invokes the ATC1PremFAGTT Inbound Web Service using the C1-PremFAGTT Service Script.
C1-ServiceRequestUpdate	Used for updating a SOM Request. This component invokes the ATC1ServiceRequestUpdate Inbound Web Service using the C1-SvcReqUpd Service Script.

Letter Template

Component	Description
C1-AdjLetterExtractAdd	Used to create an Adjustment Letter Extract record. This component invokes the ATC1AdjLetterExtract Inbound Web Service using C1-AdjLetterExtractRecord Business Object.
C1-AdjLetterExtractDel	Used to delete an existing Adjustment Letter Extract record. This component invokes the ATC1AdjLetterExtract Inbound Web Service using C1-AdjLetterExtractRecord Business Object.
C1-AdjLetterExtractRead	Used to query an existing Adjustment Letter Extract record. This component invokes the ATC1AdjLetterExtract Inbound Web Service using C1-AdjLetterExtractRecord Business Object.
C1-AdjLetterExtractAddUpd	Used to update an existing Adjustment Letter Extract record. This component invokes the ATC1AdjLetterExtract Inbound Web Service using C1-AdjLetterExtractRecord Business Object.
C1-SummaryLetterExtractAdd	Used to create a Summary Letter Extract record. This component invokes the ATC1SummaryLetterExtract Inbound Web Service using C1-SummaryLetterExtractRecord Business Object.
C1-SummaryLetterExtractDel	Used to delete an existing Summary Tender Letter Extract record. This component invokes the ATC1SummaryLetterExtract Inbound Web Service using C1-SummaryLetterExtractRecord Business Object.
C1-SummaryLetterExtractRad	Used to query an existing Summary Tender Letter Extract record. This component invokes the ATC1SummaryLetterExtract Inbound Web Service using C1-SummaryLetterExtractRecord Business Object.

Component	Description
C1-SummaryLetterExtractUpd	Used to update an existing Summary Tender Letter Extract record. This component invokes the ATC1SummaryLetterExtract Inbound Web Service using C1-SummaryLetterExtractRecord Business Object.
C1-WriteOffLetterExtractAdd	Used to create a Write-Off Letter Extract record. This component invokes the ATC1WriteOffLetterExtract Inbound Web Service using C1-WriteOffLetterExtractRecord Business Object.
C1-WriteOffLetterExtractDel	Used to delete an existing Severance Letter Extract record. This component invokes the ATC1WriteOffLetterExtract Inbound Web Service using C1-WriteOffLetterExtractRecord Business Object.
C1-WriteOffLetterExtractRead	Used to query an existing Severance Letter Extract record. This component invokes the ATC1WriteOffLetterExtract Inbound Web Service using C1-WriteOffLetterExtractRecord Business Object.
C1-WriteOffLetterExtractUpd	Used to update an existing Severance Letter Extract record. This component invokes the ATC1WriteOffLetterExtract Inbound Web Service using C1-WriteOffLetterExtractRecord Business Object.

SMDF_Master Data

Component	Description
D2- MtrCommTrckgDimScanner	Used to perform actions such as ADD, READ, UPDATE, and DELETE a MtrCommTrckgDimScanner. This component invokes the D2-MtrCommTrckgDimScanner Business Object using the ATD2MtrCommTrckgDimScanner Inbound Web Service.

Component	Description
D2- MtrCommTrckgDimScanner	Used to perform actions such as ADD, READ, UPDATE, and DELETE a MtrCommTrckgDimScanner. This component invokes the D2-MtrCommTrckgDimScanner Business Object using the ATD2MtrCommTrckgDimScanner Inbound Web Service.
D1-EstimationSuppression	Used to perform actions such as ADD, READ, UPDATE, and DELETE a EstimationSuppression. This component invokes the D2-EstimationSuppression Business Object using the ATD2EstimationSuppression Inbound Web Service.
D1-InitialLoadIMDSubtrInterval	Used to perform actions such as ADD, READ, UPDATE, and DELETE a InitialLoadIMDSubtrInterval. This component invokes the D1-InitialLoadIMDSubtrInterval Business Object using the ATD1InitialLoadIMDSubtrInterval Inbound Web Service.
D1-EstimationIMDSubtrInterval	Used to perform actions such as ADD, READ, UPDATE, and DELETE a EstimationIMDSubtrInterval. This component invokes the D1-EstimationIMDSubtrInterval Business Object using the ATD1EstimationIMDSubtrInterval Inbound Web Service.
D1-ManualIMDSubtrInterval	Used to perform actions such as ADD, READ, UPDATE, and DELETE a ManualIMDSubtrInterval. This component invokes the D1-ManualIMDSubtrInterval Business Object using the ATD1ManualIMDSubtrInterval Inbound Web Service.
D1-SystemIMDSubtrInterval	Used to perform actions such as ADD, READ, UPDATE, and DELETE a SystemIMDSubtrInterval. This component invokes the D1-SystemIMDSubtrInterval Business Object using the ATD1SystemIMDSubtrInterval Inbound Web Service.

Component	Description
D1-SubtractveIntvalMeasurement	Used to perform actions such as ADD, READ, UPDATE, and DELETE a SubtractveIntvalMeasurement. This component invokes the D1-SubtractveIntvalMeasurement Business Object using the ATD1SystemIMDSubtrInterval Inbound Web Service.
D1-IntrvlChanTypPhysSubtractiv	Used to perform actions such as ADD, READ, UPDATE, and DELETE a IntrvlChanTypPhysSubtractiv. This component invokes the D1-IntrvlChanTypPhysSubtractiv Business Object using the ATD1IntrvlChanTypPhysSubtractiv Inbound Web Service.
D1-IntervalChannelSubtractive	Used to perform actions such as ADD, READ, UPDATE, and DELETE a IntervalChannelSubtractive. This component invokes the D1-IntervalChannelSubtractive Business Object using the ATD1IntervalChannelSubtractive Inbound Web Service.

Integration

Component	Description
D1-OngoingSyncRequestContact	Used to perform actions such as ADD, READ, UPDATE, and DELETE a OngoingSyncRequestContact. This component invokes the D1-Ongoing SyncRequestContact Business Object using the ATD1OngoingSyncRequestContact Inbound Web Service.
D1-OngoingSyncRequestSP	Used to perform actions such as ADD, READ, UPDATE, and DELETE a OngoingSyncRequestSP. This component invokes the D1-OngoingSyncRequestSP Business Object using the ATD1OngoingSyncRequestSP Inbound Web Service.
D1-OngoingSyncRequestDevice	Used to perform actions such as ADD, READ, UPDATE, and DELETE a OngoingSyncRequestDevice. This component invokes the D1-OngoingSyncRequestDevice Business Object using the ATD1OngoingSyncRequestDevice Inbound Web Service.
D2-OngoingSyncRequestUS	Used to perform actions such as ADD, READ, UPDATE, and DELETE a OngoingSyncRequestUS. This component invokes the D2-OngoingSyncRequestUS Business Object using the ATD2OngoingSyncRequestUS Inbound Web Service.
D1-OngoingSyncRequestDC	Used to perform actions such as ADD, READ, UPDATE,and DELETE a OngoingSyncRequestDC. This component invokes the D2-OngoingSyncRequestDC Business Object using the ATD1OngoingSyncRequestDC Inbound Web Service.
D1-CompositeSyncRequestDC	Used to perform actions such as ADD, READ, UPDATE,and DELETE a CompositeSyncRequestDC. This component invokes the D1-CompositeSyncRequestDC Business Object using the ATD1CompositeSyncRequestDC Inbound Web Service.

Component	Description
D1-OngoingSyncRequestMC	Used to perform actions such as ADD, READ, UPDATE,and DELETE a OngoingSyncRequestMC. This component invokes the D1-OngoingSyncRequestMC Business Object using the ATD1OngoingSyncRequestMC Inbound Web Service.
D1-OngoingSyncReqScalarMtrRead	Used to perform actions such as ADD, READ, UPDATE,and DELETE a OngoingSyncReqScalarMtrRead. This component invokes the D1-OngoingSyncReqScalarMtrRead Business Object using the ATD1OngoingSyncReqScalarMtrRead Inbound Web Service.
D1-OngoingSyncRequestIE	Used to perform actions such as ADD, READ, UPDATE,and DELETE a OngoingSyncRequestIE. This component invokes the D1-OngoingSyncRequestIE Business Object using the ATD1OngoingSyncRequestIE Inbound Web Service.
D2-UsageTran_ValSQHighList	Used to perform actions such as READ on D2-UsageTransaction This component invokes the D2-UsageTransaction Business Object using the ATD2UsageTransactiion Inbound Web Service.
D2-UsageTran_ValUsgPeriod	Used to perform actions such as READ on D2-UsageTransaction This component invokes the D2-UsageTransaction Business Object using the ATD2UsageTransactiion Inbound Web Service.
D2-InitialSyncRequestDynOpt	Used to perform actions such as ADD, READ, UPDATE,and DELETE a InitialSyncRequestDynOpt. This component invokes the D2-InitialSyncRequestDynOpt Business Object using the ATD2InitialSyncRequestDynOpt Inbound Web Service.

Component	Description
D2-OngoingSyncRequestDynOpt	Used to perform actions such as ADD, READ, UPDATE,and DELETE a OngoingSyncRequestDynOpt. This component invokes the D2-OngoingSyncRequestDynOpt Business Object using the ATD2OngoingSyncRequestDynOpt Inbound Web Service.
D2-InitialSyncRequestDynOptEvt	Used to perform actions such as ADD, READ, UPDATE,and DELETE a InitialSyncRequestDynOptEvt. This component invokes the D2-InitialSyncRequestDynOptEvt Business Object using the ATD2InitialSyncRequestDynOptEvt Inbound Web Service.
D2-OngoingSyncRequestDynOptEvt	Used to perform actions such as ADD, READ, UPDATE,and DELETE a OngoingSyncRequestDynOptEvt. This component invokes the D2-OngoingSyncRequestDynOptEvt Business Object using the ATD2OngoingSyncRequestDynOptEvt Inbound Web Service.
D2-CCBContractOptionTypeLookup	Used to perform actions such as ADD, READ, UPDATE,and DELETE a CCBContractOptionTypeLookup. This component invokes the D2-CCBContractOptionTypeLookup Business Object using the ATD2CCBContractOptionTypeLookup Inbound Web Service.
D1-HowToTranslateExternalValue	Used to perform actions such as ADD, READ, UPDATE,and DELETE a HowToTranslateExternalValue. This component invokes the D1-HowToTranslateExternalValue Business Object using the ATD1HowToTranslateExternalValue Inbound Web Service.
D1-CCBContactTypeLookup	Used to perform actions such as ADD, READ, UPDATE,and DELETE a CCBContactTypeLookup. This component invokes the D1-CCBContactTypeLookup Business Object using the ATd1CCBContactTypeLookup Inbound Web Service.

Component	Description
D1-CCBLifeSupSensitiveLdLookup	Used to perform actions such as ADD, READ, UPDATE,and DELETE a CCBLifeSupSensitiveLdLookup. This component invokes the D1-CCBLifeSupSensitiveLdLookup Business Object using the ATD1CCBLifeSupSensitiveLdLookup Inbound Web Service.
D2-CCBSATypeLookup	Used to perform actions such as ADD, READ, UPDATE,and DELETE a CCBSATypeLookup. This component invokes the D2-CCBSATypeLookup Business Object using the ATD2CCBSATypeLookup Inbound Web Service.
D2-CCBSAStatusLookup	Used to perform actions such as ADD, READ, UPDATE,and DELETE a CCBSAStatusLookup. This component invokes the D2-CCBSAStatusLookup Business Object using the ATD2CCBSAStatusLookup Inbound Web Service.
D1-InitialSyncRequestDevice	Used to perform actions such as ADD, READ, UPDATE,and DELETE a InitialSyncRequestDevice. This component invokes the D2-InitialSyncRequestDevice Business Object using the ATD1InitialSyncRequestDevice Inbound Web Service.

Bill Determinants

Component	Description
D2-UsgTranSeeder	Used to perform actions such as ADD, READ, UPDATE, and DELETE a Usage Transaction Seeder. This component invokes the D2-UsgTranSeeder Business Object using the ATD2UsgTranSeeder Inbound Web Service.
D2-UsageTransaction	Used to perform actions such as ADD, READ, UPDATE, and DELETE a Usage Transaction. This component invokes the D2-UsageTransaction Business Object using the ATD2UsageTransaction Inbound Web Service.

Component	Description
D2-UsageSubscription	Used to create a Usage Subscription. This component invokes the D2-UsageSubscription Business Object using the ATD2UsageSubscription Inbound Web Service.
D2-TOUMap	Used to create a TOU Map. This component invokes the D2-TOUMap Business Object using the ATD2TOUMap Inbound Web Service.
D2-DynamicOption	Used to create a Dynamic Option. This component invokes the D2-DynamicOption Business Object using the ATD2DynamicOption Inbound Web Service.
D2-DynamicOptionEvent	Used to create a Dynamic Option Event. This component invokes the D2-DynamicOptionEvent Business Object using the ATD2DynamicOptionEvent Inbound Web Service.
D1-UsageGroup	Used to create a Usage Group This component invokes the D1-UsageGroup Business Object using the ATD1UsageGroup Inbound Web Service.
D2-GetScalar	Used to create a GetScalar Usage Rule. This component invokes the D2-GetScalar Business Object using the ATD2GetScalar Inbound Web Service.
D2-GetTOUUsage	Used to create a GetTOUUsage Usage Rule. This component invokes the D2-GetTOUUsage Business Object using the ATD2GetTOUUsage Inbound Web Service.
D2-DynamicOptionType	Describes the creation of Dynamic Option Type. This component invokes the D2-DynamicOptionType Business Object using the ATD2DynamicOptionType Inbound Web Service.
D2-GetIntervalData	Allows the configuration of interval data retrieval during usage transaction processing. The rule records service quantities per service point and measuring component - which means that interval curves for different measuring components. This component invokes the D2-GetIntervalData Business Object using the ATD2GetIntervalData Inbound Web Service.

Component	Description
D2-Math	Allows the configuration of interval data retrieval during usage transaction processing. The rule records service quantities per service point and measuring component - which means that interval curves for different measuring components. This component invokes the D2-Math Business Object using the ATD2Math Inbound Web Service.
D2-UsageSubscriptionType	Allows to create a usage subscription type for creating a usage subscription. This component invokes the D2-UsageSubscriptionType Business Object using the ATD2UsageSubscriptionType Inbound Web Service.
D2-TOUMapType	Describes Time Of Use Map Type. This component invokes the D2-TOUMapType Business Object using the ATD2TOUMapType Inbound Web Service.
D2-HowToCreateUSInformation	Describes how to create the Usage Subscription related information. This component invokes the D2-HowToCreateUSInformation Business Object using the ATD2HowToCreateUSInformation Inbound Web Service.
D2-ApplyMathInt	Describes the structure and rules applicable to Apply Math (Interval Data) usage rule. This component invokes the D2-ApplyMathInt Business Object using the ATD2ApplyMathInt Inbound Web Service.
D1-FactorNumber	Describes the Factor Number. This component invokes the D1-FactorNumber Business Object using the ATD1FactorNumber Inbound Web Service.
D1-FactorProfile	Used to create a FactorProfile Factor Value. This component invokes the D1-FactorProfile Business Object using the ATD1FactorProfile Inbound Web Service.
D1-FactorVEEGroup	Used to create a FactorVEEGroup Factor. This component invokes the D1- FactorVEEGroup Business Object using the ATD1FactorVEEGroup Inbound Web Service.

Component	Description
D2-GetItemCountsConsumption	Used to create a GetItemCountsConsumption Usage Rule. This component invokes the D2-GetItemCountsConsumption Business Object using the ATD2GetItemCountsConsumption Inbound Web Service.
D2-TOUMapTemplate	Used to create a TOU Map Template. This component invokes the D2-TOUMapTemplate Business Object using the ATD2TOUMapTemplate Inbound Web Service.
D2-ValAgainstTol	Used to create a Validate Against Tolerance usage rule. This component invokes the D2-ValAgainstTol Business Object using the ATD2ValAgainstTol Inbound Web Service.
D1-FactorValueNumber	Used to create a Factor Value Number. This component invokes the D1-FactorValueNumber Business Object using the ATD1FactorValueNumber Inbound Web Service.
D1-FactorValueVEEGroup	Describes the Factor Value VEE Group. This component invokes the D1-FactorValueVEEGroup Business Object using the ATD1FactorValueVEEGroup Inbound Web Service.
D1-FactorValueProfile	Used to create a FactorValueProfile Factor. This component invokes the D1-FactorValueProfile Business Object using the ATD1FactorValueProfile Inbound Web Service.

Data Model

Component	Description
D1-SmartMeter	Used to perform actions such as ADD, READ, UPDATE and DELETE a Smart Meter. This component invokes the D1-SmartMeter Business Object using the ATD1SmartMeter Inbound Web Service.

Component	Description
D1-ManualMeter	Used to perform actions such as ADD, READ, UPDATE and DELETE a Manual Meter. This component invokes the D1-ManualMeter Business Object using the ATD1ManualMeter Inbound Web Service.
D1-DeviceConfiguration	Used to add Device Configuration to a device. This component invokes the D1-DeviceConfiguration Business Object using the ATD1DeviceConfigurationSVC Inbound Web Service.
D1-IntervalChannel	Used to add interval measuring components to a device configuration. This component invokes the D1-IntervalChannel Business Object using the ATD1IntervalChannel Inbound Web Service.
D1-Register	Used to add scalar measuring components to a device configuration. This component invokes the D1-Register Business Object using the ATD1Register Inbound Web Service.
D1-ServicePoint	Used to create a Service Point. This component invokes the D1- ServicePoint Business Object using the ATD1ServicePoint Inbound Web Service.
D1-SmartMeterInstallEvent	Used to create an installation event for a Smart Meter. This component invokes the D1-SmartMeterInstallEvent Business Object using the ATD1SmartMeterInstallEvent Inbound Web Service.
D1-ManualMeterInstallEvent	Used to create an installation event for a Manual Meter. This component invokes the D1-ManualMeterInstallEvent Business Object using the ATD1ManualMeterInstallEvent Inbound Web Service.
D1-Transformer	Used to create a Facility (Transformer) for a service type. This component invokes the D1-Transformer Business Object using the ATD1Transformer Inbound Web Service.

Component	Description
D1-ElectricityNetworkLocation	Used to create an Electricity Network Location.
	This component invokes the D1-ElectricityNetworkLocation Business Object using the ATD1ElectricityNetworkLocation Inbound Web Service.
D1-IntervalScratchpad	Used to create Interval Scratchpad MC.
	This component invokes the D1-IntervalScratchpad Business Object using the ATD1IntervalScratchpad Inbound Web Service.
D1-Person	Used to create a Person.
	This component invokes the D1-Person Business Object using the ATD1Person Inbound Web Service.
D1-Business	Used to create a Business.
	This component invokes the D1-Business Business Object using the ATD1Business Inbound Web Service.
D1-RegisterAutoRead	Used to add register auto read measuring components to a device configuration.
	This component invokes the D1-RegisterAutoRead Business Object using the ATD1RegisterAutoRead Inbound Web Service.
D1-Item	Used to perform actions such as ADD, READ, UPDATE and DELETE an Item.
	This component invokes the D1-Item Business Object using the ATD1Item Inbound Web Service.
D1-ItemInstallEvent	Used to create an installation event for a Smart Meter.
	This component invokes the D1-ItemInstallEvent Business Object using the ATD1ItemInstallEvent Inbound Web Service.
D1-AutoReadRegisterType	Used to define the properties of measuring components automatically read on a regular basis, but for which only one measurement is received at a time, meaning one measurement per Initial Measurement.
	This component invokes the D1-AutoReadRegisterType Business Object using the ATD1AutoReadRegisterType Inbound Web Service.

Component	Description
D1-DeviceConfigurationType	Used to create a device configuration type used to create device configuration for a device.

This component invokes the D1-DeviceConfigurationType Business Object using the ATD1DeviceConfigurationType Inbound Web Service. |
| D1-ExceptionType | Used to set up VEE Exception Types.

This component invokes the D1-ExceptionType Business Object using the ATD1ExsceptionType Inbound Web Service. |
| D1-ExternalApplication | Used to create a Service Provider.

This component invokes the D1-ExternalApplication Business Object using the ATD1ExternalApplication Inbound Web Service. |
| D1-HeadEndSystem | Used to create a Head End system service provider.

This component invokes the D1-HeadEndSystem Business Object using the ATD1HeadEndSystem Inbound Web Service. |
| D1-ItemConfigurationType | Creates a configuration types for Item Types that can represent badged items.

This component invokes the D1-ItemConfigurationType Business Object using the ATD1ItemConfigurationType Inbound Web Service. |
| D1-ItemType | Creates an item type applicable to badged and unbadged non-meter devices.

This component invokes the D1-ItemType Business Object using the ATD1ItemType Inbound Web Service. |
| D1-ManualMeterType | Creates an item type applicable to badged and unbadged non-meter devices.

This component invokes the D1-ManualMeterType Business Object using the ATD1ManualMeterType Inbound Web Service. |
| D1-ServiceType | Used to create a Service Type.

This component invokes the D1-ServiceType Business Object using the ATD1ServiceType Inbound Web Service. |

Component	Description
D1-SmartMeterType	Used to create a Device of Smart Meter Type. This component invokes the D1-SmartMeterType Business Object using the ATD1SmartMeterType Inbound Web Service.
D1-TimeOfUse	Used to create a TOU. This component invokes the D1-TimeOfUse Business Object using the ATD1TimeOfUse Inbound Web Service.
D1-UnitOfMeasure	Used to create a Unit of Measure. This component invokes the D1-UnitOfMeasure Business Object using the ATD1 UnitOfMeasure Inbound Web Service.
D1-Manufacturer	Describes the structure and business rules applicable to manufacturers. This component invokes the D1-Manufacturer Business Object using the ATD1 Manufacturer Inbound Web Service.
D1-MeasurementCycle	Describes the Measurement Cycle creation. This component invokes the D1-MeasurementCycle Business Object using the ATD1MeasurementCycle Inbound Web Service.
D1-RegisterTypePhysical	Used to create Register Type component. This component invokes the D1-RegisterTypePhysical Business Object using the ATD1RegisterTypePhysical Inbound Web Service.
D1-ServicePointType	A generic component used to create Service point type. This component invokes the D1- ServicePointType Business Object using the ATD1ServicePointType Inbound Web Service.
D1-MeasurementCycleRoute	Used to create Measurement Cycle Route. This component invokes the D1-MeasurementCycleRoute Business Object using the ATD1MeasurementCycleRoute Inbound Web Service.

Component	Description
D1-HowToProcessDeviceInfo	Describes how to process the Device Related Information. This component invokes the D1-HowToProcessDeviceInfo Business Object using the ATD1HowToProcessDeviceInfo Inbound Web Service.
D1-HeadendSQILookup	A non-instantiable Extendable Lookup BO that provides translation between an external SQI sent in via a meter data source/provider, such as a head-end system and SQIs that have been configured within the application. SGG adapter products will deliver instantiable child BOs of this BO if SQI translation is needed. This component invokes the D1-HeadendSQILookup Business Object using the ATD1HeadendSQILookup Inbound Web Service.
D1-ServiceQuantityIdentifier	Describes the structure and business rules applicable to Service Quantity Identifier definitions. This component invokes the D1-ServiceQuantityIdentifier Business Object using the ATD1ServiceQuantityIdentifier Inbound Web Service.
D1-Market2	Valid Service Providers are Market Participants. This component invokes the D1-Market2 Business Object using the ATD1Market2 Inbound Web Service.
D1-ContactType	Describes Contact Type. This component invokes the D1-ContactType Business Object using the ATD1ContactType Inbound Web Service.
D2-DynCompValidation	Used to perform actions such as ADD, READ, UPDATE, and DELETE a DynCompValidation. This component invokes the D2-DynCompValidation Business Object using the ATD2DynCompValidation Inbound Web Service.

Initial Measurement Data

Component	Description
D1-IMDSeeder	Used to perform actions such as ADD, READ, UPDATE, and DELETE of an IMD Seeder.
	This component invokes the D1-IMDSeeder Business Object using the ATD1IMDSeeder Inbound Web Service.
D1-ManualIMDInterval	Used to perform actions such as ADD, READ, UPDATE, and DELETE of Manual IMD Interval records.
	This component invokes the D1-ManualIMDInterval Business Object using the ATD1ManualIMDInterval Inbound Web Service.
D1-ManualIMDScalar	Used to perform actions such as ADD, READ, UPDATE, and DELETE of Manual IMD Scalar records.
	This component invokes the D1-ManualIMDScalar Business Object using the ATD1ManualIMDScalar Inbound Web Service.
D1-InitialLoadIMDInterval	Used to perform actions such as ADD, READ, UPDATE, and DELETE of Initial Load IMD Interval records.
	This component invokes the D1-InitialLoadIMDInterval Business Object using the ATD1InitialLoadIMDInterval Inbound Web Service.
D1-InitialLoadIMDScalar	Used to perform actions such as ADD, READ, UPDATE, and DELETE of Initial Load IMD Scalar records.
	This component invokes the D1-InitialLoadIMDScalar Business Object using the ATD1InitialLoadIMDScalar Inbound Web Service.
D1-EstimationIMDInterval	Used to perform actions such as ADD, READ, UPDATE, and DELETE of Estimation IMD Interval records.
	This component invokes the D1-EstimationIMDInterval Business Object using the ATD1EstimationIMDInterval Inbound Web Service.

Component	Description
D1-EstimationIMDScalar	Used to perform actions such as ADD, READ, UPDATE, and DELETE of Estimation IMD Scalar records. This component invokes the D1-EstimationIMDScalar Business Object using the ATD1EstimationIMDScalar Inbound Web Service.

VEE

Component	Description
D1-VEEGroup	Used to create a VEE Group. This component invokes the D1-VEEGroup Business Object using the ATD1VEEGroup Inbound Web Service.
D2-NegativeConsumptionCheck	Used to create a Negative-Consumption Check VEE Rule. This component invokes the D2-NegativeConsumptionCheck Business Object using the ATD2NegativeConsumptionCheck Inbound Web Service.
D2-RegisterMultiplierCheck	Used to create a Multiplier Check VEE Rule. This component invokes the D2-RegisterMultiplierCheck Business Object using the ATD2RegisterMultiplierCheck Inbound Web Service.
D2-ScalarProfileEstimation	Used to create a ScalarProfileEstimation VEE Rule. This component invokes the D2-ScalarProfileEstimation Business Object using the ATD2ScalarProfileEstimation Inbound Web Service.
D2-SumCheck	Used to create a SumCheck VEE Rule. This component invokes the D2-SumCheck Business Object using the ATD2SumCheck Inbound Web Service.
D2-ScalarCalcFromInterval	Describes Scalar Calculation from Interval. This component invokes the D2-ScalarCalcFromInterval Business Object using the ATD2ScalarCalcFromInterval Inbound Web Service.

Component	Description
D2-ScalarEstimation	Describes the Describes Scalar Estimation VEE Rule. This component invokes the D2-ScalarEstimation Business Object using the ATD2ScalarEstimation Inbound Web Service.
D2-UOMCheck	Used to create UOM Check VEE rule. This component invokes the D2-UOMCheck Business Object using the ATD2UOMCheck Inbound Web Service.
D2-ZeroConsumptionCheck	Used to create Zero Consumption Check VEE rule. This component invokes the D2-ZeroConsumptionCheck Business Object using the ATD2ZeroConsumptionCheck Inbound Web Service.
D1-VEERuleExceptionHandler	Used to create a VEERuleExceptionHandler VEE Rule. This component invokes the D1-VEERuleExceptionHandler Business Object using the ATD1VEERuleExceptionHandler Inbound Web Service.
D2-EnsureIMDExistsForSibling	Used to create a EnsureIMDExistsForSibling VEE rule. This component invokes the D2-EnsureIMDExistsForSibling Business Object using the ATD2EnsureIMDExistsForSibling Inbound Web Service.
D2-IntervalAdjustmentFrmScalar	Used to create a IntervalAdjustmentFrmScalar VEE rule. This component invokes the D2-IntervalAdjustmentFrmScalar Business Object using the ATD2IntervalAdjustmentFrmScalar Inbound Web Service.
D2-IntervalInterpolationEst	Used to create an IntervalInterpolationEst VEE rule. This component invokes the D2-IntervalInterpolationEst Business Object using the ATD2IntervalInterpolationEst Inbound Web Service.

Component	Description
D2-IntervalReplacementRule	Used to create an IntervalReplacementRule VEE rule.
	This component invokes the D2-IntervalReplacementRule Business Object using the ATD2IntervalReplacementRule Inbound Web Service.
D2-IntervalSpikeCheck	Used to create an IntervalSpikeCheck VEE rule.
	This component invokes the D2-IntervalSpikeCheck Business Object using the ATD2IntervalSpikeCheck Inbound Web Service.
D2-ScalarReplacementRule	Used to create a ScalarReplacementRule VEE rule.
	This component invokes the D2-ScalarReplacementRule Business Object using the ATD2ScalarReplacementRule Inbound Web Service.
D1-VEERuleSuccessTermination	Used to create a VEERuleSuccessTermination VEE rule.
	This component invokes the D1-VEERuleSuccessTermination Business Object using the ATD1VEERuleSuccessTermination Inbound Web Service.
D1-DuplicateIMDCheck	Checks whether the current IMD is a duplicate of one already received for the same measuring component.
	This component produces a VEE exception of the type and severity defined on the rule when it is configured.
	It invokes the D1-DuplicateIMDCheck Business Object using the ATD1DuplicateIMDCheck Inbound Web Service.
D1-VEERuleGroupFactor	Describes the VEE Rule group factor.
	This component invokes the D1-VEERuleGroupFactor Business Object using the ATD1VEERuleGroupFactor Inbound Web Service.
D2-FinalMeasurementValidation	Describes the Final Measurement Validation.
	This component invokes the D2-FinalMeasurementValidation Business Object using the ATD2FinalMeasurementValidation Inbound Web Service.

Component	Description
D2-IntervalAveragingEstimation	Describes Interval Averaging Estimation. This component invokes the D2-IntervalAveragingEstimation Business Object using the ATD2IntervalAveragingEstimation Inbound Web Service.
D2-IntervalProfileEstimation	Describes Interval Profile Estimation. This component invokes the D2-IntervalProfileEstimation Business Object using the ATD2IntervalProfileEstimation Inbound Web Service.
D2-IntervalSizeValidation	Describes Interval Size Validation. This component invokes the D2-IntervalSizeValidation Business Object using the ATD2IntervalSizeValidation Inbound Web Service.
D2-RaiseMissingQuantityExcp	Describes Raise Missing Quantity Exception. This component invokes the D2-RaiseMissingQuantityExcp Business Object using the ATD2RaiseMissingQuantityExcp Inbound Web Service.
D1-VEERuleReferredVEEGroup	Calls the VEE processor to execute the rules for the VEE group configured on the rule. This component invokes the D1-VEERuleReferredVEEGroup Business Object using the ATD1VEERuleReferredVEEGroup Inbound Web Service.
D2-SSMeterReadTaskType	Holds the default values such as measurement condition, service provider, and data source used in self-service meter read creation. To Do type and role, if specified will be used when reporting errors that occur during IMD creation. This component invokes the D2-SSMeterReadTaskType Business Object using the ATD2SSMeterReadTaskType Inbound Web Service.
D2-ProlongedEstimationCheck	Describes ProlongedEstimationCheck. This component invokes the D2-ProlongedEstimationCheck Business Object using the ATD2 ProlongedEstimationCheck Inbound Web Service.

Service and Measurement Data Foundation

Component	Description
D1-CommandSet	Used to maintain command set for grouping command request business objects. This component invokes the D1-CommandSet Business Object using the ATD1CommandSet Inbound Web Service.
D1-DeviceDecommission	Used to perform actions such as ADD, READ, UPDATE and DELETE a Device Decommission record. This component invokes the D1-DeviceDecommission Business Object using the ATD1DeviceDecommission Inbound Web Service.
D1-OnDemandReadScalar	Used to perform actions such as ADD, READ, UPDATE and DELETE an On Demand Read Scalar record. This component invokes the D1-OnDemandReadScalar Business Object using the ATD1OnDemandReadScalar Inbound Web Service.
D1-RemoteConnect	Used to perform actions such as ADD, READ, UPDATE and DELETE a Remote Connect record. This component invokes the D1-RemoteConnect Business Object using the ATD1RemoteConnect Inbound Web Service.
D1-OnDemandReadInterval	Used to perform actions such as ADD, READ, UPDATE and DELETE a On Demand Read Interval record. This component invokes the D1-OnDemandReadInterval Business Object using the ATD1OnDemandReadInterval Inbound Web Service.
D1-RemoteDisconnect	Used to perform actions such as ADD, READ, UPDATE and DELETE a Remote Disconnect record. This component invokes the D1-RemoteDisconnect Business Object using the ATD1RemoteDisconnect Inbound Web Service.
D1-DeviceCommission	Used to perform actions such as ADD, READ, UPDATE and DELETE a Device Commission record. This component invokes the D1-DeviceCommission Business Object using the ATD1DeviceCommission Inbound Web Service.

Component	Description
D1-DeviceStatusCheck	Used to perform actions such as ADD, READ, UPDATE and DELETE a Device Status Check record. This component invokes the D1-DeviceStatusCheck Business Object using the ATD1DeviceStatusCheck Inbound Web Service.
D1-PayloadStatistics	Used to perform actions such as ADD, READ, UPDATE and DELETE a Payload Statistics record. This component invokes the D1-PayloadStatistics Business Object using the ATD1PayloadStatistics Inbound Web Service.
D1-PayloadErrorNotif	Used to perform actions such as ADD, READ, UPDATE and DELETE a Payload Error Notification record. This component invokes the D1-PayloadErrorNotif Business Object using the ATD1PayloadErrorNotif Inbound Web Service.
D1-BulkRequestHeader	Used to perform actions such as ADD, READ, UPDATE and DELETE a Bulk Request Header record. This component invokes the D1-BulkRequestHeader Business Object using the ATD1BulkRequestHeader Inbound Web Service.
D1-BulkResponse	Used to perform actions such as ADD, READ, UPDATE and DELETE a Bulk Response record. This component invokes the D1-BulkResponse Business Object using the ATD1BulkResponse Inbound Web Service.
D1-MultiDeviceStatusCheck	Used to perform actions such as ADD, READ, UPDATE and DELETE a Multi Device Status Check record. This component invokes the D1-MultiDeviceStatusCheck Business Object using the ATD1MultiDeviceStatusCheck Inbound Web Service.
D1-RemoteDisconnectType	Used to perform actions such as ADD, READ, UPDATE and DELETE a Remote Disconnect Type record. This component invokes the D1-RemoteDisconnectType Business Object using the ATD1RemoteDisconnectType Inbound Web Service.

Component	Description
D1-DeviceDecommissionType	Used to perform actions such as ADD, READ, UPDATE and DELETE a Device Decommission Type record. This component invokes the D1-DeviceDecommissionType Business Object using the ATD1DeviceDecommissionType Inbound Web Service.
D1-OnDemandReadScalarType	Used to perform actions such as ADD, READ, UPDATE and DELETE a On Demand Read Scalar Type record. This component invokes the D1-OnDemandReadScalarType Business Object using the ATD1OnDemandReadScalarType Inbound Web Service.
D1-OnDemandReadIntervalType	Used to perform actions such as ADD, READ, UPDATE and DELETE a On Demand Read Interval Type record. This component invokes the D1-OnDemandReadIntervalType Business Object using the ATD1OnDemandReadIntervalType Inbound Web Service.
D1-DeviceStatusCheckType	Used to perform actions such as ADD, READ, UPDATE and DELETE a Device Status Check Type record. This component invokes the D1-DeviceStatusCheckType Business Object using the ATD1DeviceStatusCheckType Inbound Web Service.
D1-DeviceCommissionType	Used to perform actions such as ADD, READ, UPDATE and DELETE a Device Commission Type record. This component invokes the D1-DeviceCommissionType Business Object using the ATD1DeviceCommissionType Inbound Web Service.
D1-PayloadNotifType	Used to perform actions such as ADD, READ, UPDATE and DELETE a Payload Notification Type record. This component invokes the D1-PayloadNotifType Business Object using the ATD1PayloadNotifType Inbound Web Service.

Component	Description
D1-BulkRequestHeaderType	Used to perform actions such as ADD, READ, UPDATE and DELETE a Bulk Request Header Type record.
	This component invokes the D1-BulkRequestHeaderType Business Object using the ATD1BulkRequestHeaderType Inbound Web Service.
D1-BulkResponseType	Used to perform actions such as ADD, READ, UPDATE and DELETE a Bulk Response Type record.
	This component invokes the D1-BulkResponseType Business Object using the ATD1BulkResponseType Inbound Web Service.
D1-MultiDeviceStatusCheckType	Used to perform actions such as ADD, READ, UPDATE and DELETE a Multi Device Status Check Type record.
	This component invokes the D1-MultiDeviceStatusCheckType Business Object using the ATD1MultiDeviceStatusCheckType Inbound Web Service.
D1-CommissionDevice	Used to perform actions such as ADD, READ, UPDATE and DELETE a Commission Device record.
	This component invokes the D1-CommissionDevice Business Object using the ATD1CommissionDevice Inbound Web Service.
D1-ConnectDevice	Used to perform actions such as ADD, READ, UPDATE and DELETE a Connect Device record.
	This component invokes the D1-ConnectDevice Business Object using the ATD1ConnectDevice Inbound Web Service.
D1-DisconnectDevice	Used to perform actions such as ADD, READ, UPDATE and DELETE a Disconnect Device record.
	This component invokes the D1-DisconnectDevice Business Object using the ATD1DisconnectDevice Inbound Web Service.
D1-DecommissionDevice	Used to perform actions such as ADD, READ, UPDATE and DELETE a Decommission Device record.
	This component invokes the D1-DecommissionDevice Business Object using the ATD1DecommissionDevice Inbound Web Service.

Component	Description
D1-CreateIMD	Used to perform actions such as ADD, READ, UPDATE and DELETE a Create IMD record.
	This component invokes the D1-CreateIMD Business Object using the ATD1CreateIMD Inbound Web Service.
D1-StandardDeviceEvent	Used to perform actions such as ADD, READ, UPDATE and DELETE a Standard Device Event record.
	This component invokes the D1-StandardDeviceEvent Business Object using the ATD1StandardDeviceEvent Inbound Web Service.
D1-DeviceEvtComResp	Used to perform actions such as ADD, READ, UPDATE and DELETE a DeviceEvtComResp record.
	This component invokes the D1-DeviceEvtComResp Business Object using the ATD1DeviceEvtComResp Inbound Web Service.
D1-DeviceEventComRespType	Used to perform actions such as ADD, READ, UPDATE and DELETE a DeviceEventComRespType record.
	This component invokes the D1-DeviceEventComRespType Business Object using the ATD1DeviceEventComRespType Inbound Web Service.
D1-HowToProcDvcEvtsInformation	Used to perform actions such as ADD, READ, UPDATE and DELETE a HowToProcDvcEvtsInformation record.
	This component invokes the D1-HowToProcDvcEvtsInformation Business Object using the ATD1HowToProcDvcEvtsInformation Inbound Web Service.
D1-HowToSendActivityResponse	Used to perform actions such as ADD, READ, UPDATE and DELETE a HowToSendActivityResponse record.
	This component invokes the D1-HowToSendActivityResponse Business Object using the ATD1HowToSendActivityResponse Inbound Web Service.

Component	Description
D1-HowToCreateActivityOBComm	Used to perform actions such as ADD, READ, UPDATE and DELETE a HowToCreateActivityOBComm record. This component invokes the D1-HowToCreateActivityOBComm Business Object using the ATD1HowToCreateActivityOBComm Inbound Web Service.
D1-StdEventNameLookup	Used to perform actions such as ADD, READ, UPDATE and DELETE a Standard Event Name Lookup record. This component invokes the D1-StdEventNameLookup Business Object using the ATD1StdEventNameLookup Inbound Web Service.
D1-DvcEventCategoryLookup	Used to perform actions such as ADD, READ, UPDATE and DELETE a Device Event Category Lookup record. This component invokes the D1-DvcEventCategoryLookup Business Object using the ATD1DvcEventCategoryLookup Inbound Web Service.
D1-DeviceEventMappingLookup	Used to perform actions such as ADD, READ, UPDATE and DELETE a Device Event Mapping Lookup record. This component invokes the D1-DeviceEventMappingLookup Business Object using the ATD1DeviceEventMappingLookup Inbound Web Service.
D1-SGGAdapterConfigSheet	Used to perform actions such as ADD, READ, UPDATE and DELETE a SGG Adapter Config Sheet record. This component invokes the D1-SGGAdapterConfigSheet Business Object using the ATD1SGGAdapterConfigSheet Inbound Web Service.
D1-SGGMasterConfiguration	Used to perform actions such as ADD, READ, UPDATE and DELETE a SGG Master Configuration record. This component invokes the D1-SGGMasterConfiguration Business Object using the ATD1SGGMasterConfiguration Inbound Web Service.

Component	Description
D1-OutboundMessage	Used to perform actions such as ADD, READ, UPDATE and DELETE an Outbound Message record.
	This component invokes the D1-OutboundMessage Business Object using the ATD1OutboundMessage Inbound Web Service.
D1-GetComplEvtIdFromCommId	Used to get Completion event from the SQL set in the AT-D1COMMDEV zone.
	This component invokes the D1-CommissionDevice Business Object using the ATCOMPEVTID Inbound Web Service.
	BS Used: AT-COMPEVTID
D1-DeviceDeregistrationType	Used to perform actions such as ADD, READ, UPDATE and DELETE a Device Deregistration Type.
	This component invokes the D1-DeviceDeregistrationType Business Object using the ATD1DeviceDeregistrationType Inbound Web Service.
D1-DeviceDeregistration	Used to perform actions such as ADD, READ, and UPDATE and DELETE Device Deregistration This component invokes the D1-DeviceDeregistration Business Object using the ATD1DeviceDeregistration Inbound Web Service.
D1-DeregisterDevice	Used to perform actions such as ADD, READ, UPDATE and DELETE a Deregister Device.
	This component invokes the D1- DeregisterDevice Business Object using the ATD1DeregisterDevice Inbound Web Service.

Itron Openway

Component	Description
K1-SignatureKeyRing	Used to create a Key Ring record for Payload Processing in the Cloud.
	This component invokes the K1-SignatureKeyRing Business Object using the ATK1SignatureKeyRing Inbound Web Service.

Component	Description
F1-FileStorage	Used to create an extendable lookup record for Payload Processing. This component invokes the F1-FileStorage Business Object using the ATF1FileStorage Inbound Web Service.
D1-SGGPayloadProcessing	Used to create an extendable lookup record for Payload Processing. This component invokes the D1-SGGPayloadProcessing Business Object using the ATD1SGGPayloadProcessing Inbound Web Service.
D8-ReadIntervalType	Used to perform actions such as ADD, READ, UPDATE and DELETE a Itron - Contingency Read Type (Interval) outbound communication type. This component invokes the D8-ReadIntervalType Business Object using the ATD8ReadIntervalType Inbound Web Service.
D8-ReadScalarType	Used to perform actions such as ADD, READ, UPDATE and DELETE an Itron - Contingency Read Type (Scalar) outbound communication type. This component invokes the D8-ReadScalarType Business Object using the ATD8ReadScalarType Inbound Web Service.
D8-ReadResultType	Used to perform actions such as ADD, READ, UPDATE and DELETE an Itron - Contingency Read Result Type inbound communication type. This component invokes the D8-ReadResultType Business Object using the ATD8ReadResultType Inbound Web Service.
D8-DeviceEventMappingLookup	Used to perform actions such as ADD, READ, UPDATE and DELETE a Value for Itron - Device Event Mapping extendable Lookup. This component invokes the D8-DeviceEventMappingLookup Business Object using the ATD8DeviceEventMappingLookup Inbound Web Service.
D8-HeadendUOMLookup	Used to perform actions such as ADD, READ, UPDATE and DELETE a Value for Itron UOM Code to Standard UOM Mapping extendable Lookup. This component invokes the D8-HeadendUOMLookup Business Object using the ATD8HeadendUOMLookup Inbound Web Service.

Component	Description
D8-ItronVersions	Used to perform actions such as ADD, READ, UPDATE and DELETE a Value for Itron - Versions Lookup extendable Lookup. This component invokes the D8-ItronVersions Business Object using the ATD8ItronVersions Inbound Web Service.
D8-JobStatusLookup	Used to perform actions such as ADD, READ, UPDATE and DELETE of an Itron OpenWay Job Status record. This component invokes the D8-JobStatusLookup Business Object using the ATD8JobStatusLookup Inbound Web Service.
D8-PingByEndpointsMDRespType	Used to perform actions such as ADD, READ, UPDATE and DELETE of an Itron OpenWay Ping By Endpoints MD Response Type record. This component invokes the D8-PingByEndpointsMDRespType Business Object using the ATD8PingByEndpointsMDRespType Inbound Web Service.
D8-PingByEndpointsResponseType	Used to perform actions such as ADD, READ, UPDATE and DELETE of an Itron OpenWay Ping By Endpoints Response Type record. This component invokes the D8-PingByEndpointsResponseType Business Object using the ATD8PingByEndpointsResponseType Inbound Web Service.
D8-PingByEndpointsMultiDvcType	Used to perform actions such as ADD, READ, UPDATE and DELETE of an Itron OpenWay Ping By Endpoints Multi Device Type record. This component invokes the D8-PingByEndpointsMultiDvcType Business Object using the ATD8PingByEndpointsMultiDvcType Inbound Web Service.
D8-PingByEndpointsType	Used to perform actions such as ADD, READ, UPDATE and DELETE of an Itron OpenWay Ping By Endpoints Type record. This component invokes the D8-PingByEndpointsType Business Object using the ATD8PingByEndpointsType Inbound Web Service.

Component	Description
D8-InitialLoadIMDInterval	Used to ADD Initial Measurement Interval Data for Itron OpenWay Adapter. This component invokes the D8-InitialLoadIMDInterval Business Object using the ATD8InitialLoadIMDInterval Inbound Web Service.
D8-InitialLoadIMDScalar	Used to ADD Initial Measurement Scalar Data for Itron OpenWay Adapter. This component invokes the D8-InitialLoadIMDScalar Business Object using the ATD8InitialLoadIMDScalar Inbound Web Service.
D8-AddMeterDefinitionsType	Used to perform actions such as ADD, READ, UPDATE and DELETE an Add Meter Definitions Type for Itron. This component invokes the D8-AddMeterDefinitionsType Business Object using the ATD8AddMeterDefinitionsType Inbound Web Service.
D8-AppGroupLookup	Used to perform actions such as ADD, READ, UPDATE and DELETE an App Group Lookup for Itron. This component invokes the D8-AppGroupLookup Business Object using the ATD8AppGroupLookup Inbound Web Service.
D8-DeregisterMeterType	Used to perform actions such as ADD, READ, UPDATE and DELETE an Deregister Meter Type for Itron. This component invokes the D8-DeregisterMeterType Business Object using the ATD8DeregisterMeterType Inbound Web Service.
D8-DetLoadSideVolBytMtrRsltTyp	Used to perform actions such as ADD, READ, UPDATE and DELETE an Detect Load Side Voltage By tMeter Result Type for Itron. This component invokes the D8-DetLoadSideVolBytMtrRsltTyp Business Object using the ATD8DetLoadSideVolBytMtrRsltTyp Inbound Web Service.

Component	Description
D8-DetectLoadSideVoltageMtrTyp	Used to perform actions such as ADD, READ, UPDATE and DELETE a Detect Load Side Voltage Meter Type for Itron. This component invokes the D8-DetectLoadSideVoltageMtrTyp Business Object using the ATD8DetectLoadSideVoltageMtrTyp Inbound Web Service.
D8-DisconnectMeterResultType	Used to perform actions such as ADD, READ, UPDATE and DELETE a Disconnect Meter Result Type for Itron. This component invokes the D8-DisconnectMeterResultType Business Object using the ATD8DisconnectMeterResultType Inbound Web Service.
D8-DisconnectMeterType	Used to perform actions such as ADD, READ, UPDATE and DELETE a Disconnect Meter Type for Itron. This component invokes the D8-DisconnectMeterType Business Object using the ATD8DisconnectMeterType Inbound Web Service.
D8-DisconnectSwitchStateLookup	Used to perform actions such as ADD, READ, UPDATE and DELETE a Disconnect Switch State Lookup for Itron. This component invokes the D8-DisconnectSwitchStateLookup Business Object using the ATD8DisconnectSwitchStateLookup Inbound Web Service.
D8-DvcStatusMappingLookup	Used to perform actions such as ADD, READ, UPDATE and DELETE a Device Status Mapping Lookup for Itron. This component invokes the D8-DvcStatusMappingLookup Business Object using the ATD8DvcStatusMappingLookup Inbound Web Service.
D8-FailureReasonLookup	Used to perform actions such as ADD, READ, UPDATE and DELETE a Failure Reason Lookup for Itron. This component invokes the D8-FailureReasonLookup Business Object using the ATD8FailureReasonLookup Inbound Web Service.

Component	Description
D8-IntStsCodeToCondMapLookup	Used to perform actions such as ADD, READ, UPDATE and DELETE a IntStsCodeToCondMapLookup for Itron. This component invokes the D8-IntStsCodeToCondMapLookup Business Object using the ATD8IntStsCodeToCondMapLookup Inbound Web Service.
D8-InterrogateByGroupRsltType	Used to perform actions such as ADD, READ, UPDATE and DELETE a Interrogate By Group Result Type for Itron. This component invokes the D8-InterrogateByGroupRsltType Business Object using the ATD8InterrogateByGroupRsltType Inbound Web Service.
D8-InterrogateByGroupType	Used to perform actions such as ADD, READ, UPDATE and DELETE a Interrogate By Group Type for Itron. This component invokes the D8-InterrogateByGroupType Business Object using the ATD8InterrogateByGroupType Inbound Web Service.
D8-ReadDisconStBytMtrRsltType	Used to perform actions such as ADD, READ, UPDATE and DELETE a Read Disconnect State By Meter Result Type for Itron. This component invokes the D8-ReadDisconStBytMtrRsltType Business Object using the ATD8ReadDisconStBytMtrRsltType Inbound Web Service.
D8-ReadDisconStateByMtrType	Used to perform actions such as ADD, READ, UPDATE and DELETE a Read Disconnect State By Meter Type for Itron. This component invokes the D8-ReadDisconStBytMtrType Business Object using the ATD8ReadDisconStBytMtrType Inbound Web Service.
D8-ReconnectMeterResultType	Used to perform actions such as ADD, READ, UPDATE and DELETE a Reconnect Meter Result Type for Itron. This component invokes the D8-ReconnectMeterResultType Business Object using the ATD8ReconnectMeterResultType Inbound Web Service.

Component	Description
D8-ReconnectMeterType	Used to perform actions such as ADD, READ, UPDATE and DELETE a Reconnect Meter Type for Itron. This component invokes the D8-ReconnectMeterType Business Object using the ATD8ReconnectMeterType Inbound Web Service.
D8-ResultLookup	Used to perform actions such as ADD, READ, UPDATE and DELETE a Result Lookup for Itron. This component invokes the D8-ResultLookup Business Object using the ATD8ResultLookup Inbound Web Service.
D8-ScheduleRead	Used to perform actions such as ADD, READ, UPDATE and DELETE a Schedule Read for Itron. This component invokes the D8-ScheduleRead Business Object using the ATD8ScheduleRead Inbound Web Service.
D8-ScheduleReadType	Used to perform actions such as ADD, READ, UPDATE and DELETE a Schedule Read Type for Itron. This component invokes the D8-ScheduleReadType Business Object using the ATD8ScheduleReadType Inbound Web Service.
D8-RptSelfReadOptionLookup	Used to perform actions such as ADD, READ, UPDATE and DELETE a RptSelfReadOptionLookup for Itron. This component invokes the D8-RptSelfReadOptionLookup Business Object using the ATD8RptSelfReadOptionLookup Inbound Web Service.
D8-AddMeterToHarness	Used to add a meter to the test harness.
D8-SetCommissionRequest	Used to set commission to True/False for a device.
D8-SetVoltage	Used to set voltage for a device.

Usage

Component	Description
C1-GetUsageId	Used to get the usage request ID of given a person name. This component invokes the ATC1GetUsageId Inbound Web Service using the C1-GetUsageId Business Service.
C1-UsageReqCyclicalBillingRead	Used to read a Usage Request Cyclical Billing record. This component invokes the ATC1UsageReqCyclicalBillingRead Inbound Web Service using the C1-UsageRequestCyclicalBilling Business Object.
C1-UsageRequestNonCyclicalRead	Used to read a Usage Request Non-Cyclical Billing record. This component invokes the ATC1UsageRequestNonCyclical Inbound Web Service using the C1-UsageRequestNonCyclical Business Object.

Chapter 2

Function Library Reference

This chapter lists the Oracle Utilities Customer Care and Billing function library OUCCBLIB and the functions available to create components and flows in Oracle Utilities Testing Accelerator Workbench for testing the Oracle Utilities Customer To Meter application.

OUCCBLIB

The OUCCBLIB library is a collection of actions, such as getting the element value in a XML or generating random number on a given string prefixes or suffix. This section provides a list of functions included in the library, along with their usage details.

verificationPoint

Checks if the actual result is the same with the expected result.

```
verificationPoint(String testTitle, String actualResult, String
expectedResult, String testType)
```

@param testTitle - Test title

@param actualResult - Actual Result

@param expectedResult - Expected Result

@param testType - Signify what type of test is to be performed.

```
@ValidTestTypeValue "WildCard" - Wild card, "Exact" - Exact match,
"Contains" - Actual value contains the expected result
```

Example:

```
verificationPoint("Verify if Generate switch is
disabled",sGenerateSW,"false","Exact");
verificationPoint("Verify if CIS Division is
populated",sCisDivision,"*","WildCard");

verificationPoint("Verify the correct Create Date/Time",sCreateDttm,
pst.format(currentDt),"Contains");

Input Parameters: String, String, String, String
```

editElementValue

Edits the value of a given element. This function is significant when trying to edit CLOB fields in a SOAP request.

```
editElementValue(String child, String subchild, String value)
```

@param child - element header of the soap response. This can be the root element

@param subchild - element of the child or sub child

@param value - new value to be supplied

@return edited XML

Example:

```
String strSOAP =
"<businessObjectDataArea>
    <environmentURL>http://www.sample.com</environmentURL>
    <emailBody>
        <messageCategory>11118</messageCategory>
        <messageNumber>12012</messageNumber>
    </emailBody>
</businessObjectDataArea>"

System.out.println(editElementValue("businessObjectDataArea","environm
entURL","www.oracle.com"));
        }
```

Output:

```
<businessObjectDataArea>
      <environmentURL>www.oracle.com</environmentURL>
      <emailBody>
      <messageCategory>11118</messageCategory>
      <messageNumber>12012</messageNumber>
      </emailBody>
     </businessObjectDataArea>

Input Parameters: String, String, String
Return Type: String[]
```

getElementValue

Gets the value of an element.

```
getElementValue(String sElement, String sSubElement)
```

@param sElement - group or list element name

@param sSubElement - element name under the group or list.

@return return a single element value. Returns "null value" if tag is missing.

Example:

```
<faInfo><faId>557162971576</faId></faInfo>
System.out.println("FA ID = " +getElementValue("faInfo","faId"));
```

Output:

```
FA ID = 557162971576
Input Parameters: String, String
Return Type: String
```

getElementValueByIndex

Gets the value of an element in a list.

```
getElementValueByIndex(String sElement, String sSubElement, String
sIndex)
```

@param sElement - group or list element name

@param sSubElement - element name under the group or list.

@param index - Record position. 1 for the first record, 2 for the second. Etc..

@return return a single element value. Returns "null value" if tag is missing.

Example:

```
<spUsagePeriods>
<serviceQty><seq>1</seq><qty>1317.000000</qty></serviceQty>
<serviceQty><seq>2</seq><qty>659.000000</qty></serviceQty>
</spUsagePeriods>
System.out.println("Quantity:"+ getElementValueByIndex("serviceQty",
"qty", 2));
```

Output:

```
Quantity: 659.00000
Input Parameters: String, String, String
Return Type: String[]
```

setPropertiesVariable

Populate c1Variables.properties. This function writes a temporary variable with key, value combination. If the key exists, it updates the value. If the key does not exist, it writes both the key and value. The value of the key can be retrieved by using the getPropertiesVariable.

```
setPropertiesVariable(String field, String value)
```

@parm field - variable name

@parm value - value

Example:

```
setPropertiesVariable("PersonName","Brazil,Mark");
Input Parameters: String, String
Return Type: None
```

> **Note**: To check the properties see directory outsp-function-libs\CCB (For
> Example: C:\OATSOU\outsp-function-libs\CCB).

getPropertiesVariable

Gets the value of the key from c1Variables.properties. To use this function, c1Variables.properties and the selected key should exist.

```
getPropertiesVariable(String field)
```

@parm field - Value of the field that is to be retrieved (field should exists on the property file)

Example:

```
Variable.properties's AdjId=409779332582
String sAdjId = getPropertiesVariable("AdjId");
info("Adj Id :"+sAdjId);
```

```
Input Parameters: String
Return Type: String
```

Note: To check the properties see directory outsp-function-libs\CCB (e.g. C:\OATSOU\outsp-function-libs\CCB).

autoFormatInput

Auto formats a given input string. For date conversion use the convertDateTimeFormat function.

```
autoFormatInput(String unformattedString, String format)
```

@param unformattedString - Raw Format

@param format - Desired Format

Example:

//Auto generated random number to conform with SSN format
autoFormatInput("521326648","999-99-9999");

```
Output: 521-32-6648
Input Parameters: String
Return Type: String
```

addDayMonthOrYear

Adds 'N' number of day, month, or year to a particular date and format.

```
addDayMonthOrYear(String sDate, String sDateFormat, String sMonth,
String sDay, String sYear)
```

@param sDate - Base date to be manupulated

@param sDateFormat - Define the format of sDate. (y = year, M = month, d = day, H = hours, m = minute, s = seconds)

@param sMonth - Number of months to be added

@param sDay - Number of days to be added

@param sYear - Number of year to be added

Example:

//Add one day to 01-01-2001

```
addDayMonthOrYear("01-01-2001","MM-dd-yyyy","0","1","0");
```

```
Input Parameters: String, String, String, String, String
Return Type: String
```

subtractDayMonthOrYear

Subtracts the number of days, months, or year to a particular date and format.

```
subtractDayMonthOrYear(String sDate, String sDateFormat, String
sMonth, String sDay, String sYear)
```

@param sDate - Base date to be manupulated

@param sDateFormat - Format of sDate. (y = year, M = month, d = day, H = hours, m = minute, s = seconds)

@param sMonth - Number of months to be subtracted

@param sDay - Number of days to be subtracted

@param sYear - Number of year to be subtracted

Example:

```
//Subtract one day to 01-01-2001
subtractDayMonthOrYear("01-01-2001","MM-dd-yyyy","0","1","0");

Input Parameters: String, String, String, String, String
Return Type: String
```

randomNumber

Generates random number of a given length.

```
randomNumber(String sLengthOfRandomNbr)
```

@param sLengthOfRandomNbr - desired length of the random number

Example:

```
randomNumber ("5");
```

Output:

```
53293
Input Parameters: String
Return Type: String
```

addRandomNbrAsPrefix

Generates a random number of a given length to a prefix.

```
addRandomNbrAsPrefix(String sLengthOfRandomNbr,String sField)
```

@parm sLengthOfRandomNbr - Number of Random Numbers to be generated.

@param sField - A prefix field

Example:

```
String strField = " Test Street"
info(addRandomNbrAsPrefix("5",strField);
```

Output:

```
99011 Test Street
Input Parameters: String
Return Type: String
```

addRandomNbrAsSuffix

Generates random number of a given length to a suffix.

```
addRandomNbrAsSuffix(String sLengthOfRandomNbr,String sField)
@parm sLengthOfRandomNbr - Length of Random Numbers to be generated.
```

@param sField - A suffix field

Example:

```
String strField = "E-TEST-"
info(addRandomNbrAsSuffix("5",strField);
```

Output:

```
E-TEST-52697
Input Parameters: String
Return Type: String
```

addBusinessDate

Adds 'N' number of business days on a given date. This does not include holidays, rest day is defaulted to Saturday and Sunday.

```
addBusinessDate(String startDate, String format, String
noOfBusinessDays)
```

@param startDate - Base date to be incremented

@param format - startDate format. (y = year, M = month, d = day, H = hours, m = minute, s = seconds)

@param noOfBusinessDays - Number of business days to be added

Example:

```
06-07-2013 (Fri) + 3 Business days = 06-12-2013
System.out.println(addBusinessDate("06-03-2013","MM-dd-yyyy",3)
```

Output:

```
06-12-2013
Input Parameters: String,String,String
Return Type: String
```

currentDateTimeZone

Gets current time to of a given time zone.

```
currentDateTimeZone(String sDateTimeFormat, String sTimeZone)
```

@param sTimeZone - Time zone to be used. (e.g PST, GMT)

@param sDateTimeFormat - New Format of the string.

@sDateTimeFormat y = year, M = month, d = day, H = hours, m = minute, s = seconds

Example:

```
currentDateTimeZone("yyyy-MM-dd","GMT");
```

Output:

```
2013-03-01
Input Parameters: String,String
Return Type: String
```

Chapter 3

Sample Work Flows

This chapter describes the Oracle Utilities Customer To Meter sample flows that illustrate common use cases for Oracle Utilities Customer To Meter. It also explains the procedure to execute these sample flows. It includes the following sections:

- Sample Flows
- Executing Sample Flows

Sample Flows

The sample flows delivered as part of Oracle Utilities Testing Accelerator for Oracle Utilities Customer To Meter demonstrate how flows can be created for Web services based testing and for a combination of Web services and UI based testing using the same framework.

These flows are designed to run using demo data, giving the user the ability to deploy Oracle Utilities Testing Accelerator for Oracle Utilities Customer To Meter and execute the sample flows immediately. The flows perform a part of the basic sanity testing required to certify that the Oracle Utilities Customer To Meter environment has been set up appropriately.

This section includes the following sample work flows:

- X1-CloudSanity Flow

- X1-CreatePremiseAndAccount Flow

- X1-EndToEndStartService Flow

- X1-CreateBill Flow

- X1-CreatePaymentEvent Flow

X1-CloudSanity Flow

The X1-CloudSanity flow creates a Person, then submits a VAL-PER batch.

> **Note**: The Timezone must be created manually first and added to the Installation Options-Framework.

An additional component that sends the execution results will be provided to be able to notify the user of the test results via an email.

The following table lists the tasks in this flow and their respective components in Oracle Utilities Customer To Meter:

Task	Component
Admin Setup (OUAF)	F1-Algorithm
Admin	C1-IdentifierTypeAdd
Admin Setup (OUAF)	F1-Installation Option
Admin Setup (OUAF)	F1-OutboundMessageType
Admin Setup (OUAF)	F1-ExternalSystem
Master Configuration	X1-C2MMasterConfigurationAdd
Master Configuration	CM-SyncCfgBO
Master Configuration	D1-SeederSyncMasterConfigAdd
Admin	D1-ContactTypeAdd
Extendable Lookup	X1-CCBMDM-MDMCCB-LookupAdd
Customer Information	C1-PersonAdd
Data Synchronization	C1-GetSyncRequestId
Data Synchronization	C1-MDM2PersonSyncRequestRead
Data Synchronization	X1-GetInboundSyncRequestId

Task	Component
Data Synchronization	D1-OngoingSyncReqContactRead
Customer Information	D1-PersonRead
Batch (OUAF)	F1-BatchSubmission
Batch (OUAF)	F1-BatchCompletionStatus
Admin Setup (OUAF)	F1-SendResultsMail

X1-CreatePremiseAndAccount Flow

The X1-CreatePremiseAndAccount flow creates a Premise, Service Point, Person, and Account, collectively referred to as 'V' objects.

An additional component that sends the execution results is provided to notify the user of the test results via an email.

The following table lists the tasks in this flow and their respective components in Oracle Utilities Customer To Meter:

Task	Component
Customer Information	C1-PremiseAdd
Customer Information	C1-ServicePointAdd
Customer Information	C1-PersonAdd
Customer Information	C1-AccountAdd
Admin Setup (OUAF)	F1-SendResultsMail

X1-EndToEndStartService Flow

The X1-EndToEndStartService flow creates a Premise, Service Point, Person, and Account; collectively referred to as "V" objects. This flow also creates a Smart Meter, Device Configuration, Measuring Component, Install Event, Register and starts and activates Service Agreement (which will create a Usage Subscription).

An additional component that sends the execution results will be provided to be able to notify the user of the test results via an email.

The following table lists the tasks in this flow and their respective components in Oracle Utilities Customer To Meter:

Task	Component
Customer Information	C1-PremiseAdd
Customer Information	X1-ServicePointAdd
Customer Information	C1-PersonAdd
Customer Information	C1-AccountAdd
Customer Information	C1-StartStopUpdate
Customer Information	C1-ServiceAgreementUpdate

Task	Component
Data Synchronization	X1-GetInboundSyncRequestId
Data Synchronization	D2-OngoingSyncReqUSRead
Device	D1-SmartMeterAdd
Device	D1-DeviceConfigurationAdd
Device	D1-SmartMeterInstallEventAdd
Device	D1-SmartMeterInstallEventUpd
Device	D1-SmartMeterInstallEventUpd
Device	D1-RegisterAdd
Device	D1-IMDSeederAdd
Device	D1-ManualIMDScalarUpdate
Device	D1-IMDSeederAdd
Device	D1-ManualIMDScalarUpdate
Admin Setup (OUAF)	F1-SendResultsMail

X1-CreateBill Flow

The X1-CreateBill flow generates, freezes, and completes a bill. It uses the C1-BillAdd and C1-BillUpdate components, and an additional F1-SendResultsMail component to be able to notify the user of the test results via an email.

The following table lists the tasks in this flow and their respective components in Oracle Utilities Customer To Meter:

Task	Component
Financial	C1-BillAdd
Financial	C1-BillUpdate
Admin Setup (OUAF)	F1-SendResultsMail

X1-CreatePaymentEvent Flow

The X1-CreatePaymentEvent flow creates a Payment Event, and then distributes and freezes the payments.

The flow uses C1-TenderCtrlSearchByAllUser, C1-PaymentEventAdd, and C1-PaymentEventUpdate components, and an additional F1-SendResultsMail component to be able to notify the user of the test results via an email.

The following table lists the tasks in this flow and their respective components in Oracle Utilities Customer To Meter.

Task	Component
Financial	C1-TenderCtrlSearchByAllUser
Financial	C1-PaymentEventAdd

Task	Component
Financial	C1-PaymentEventUpdate
Financial	C1-PaymentEventUpdate
Admin Setup (OUAF)	F1-SendResultsMail

Executing Sample Flows

This section describes the procedure to setup sample flows and execute them.

- Pre-requisites
- Setting Up Sample Flows

Pre-requisites

To execute the sample flow, ensure the following pre-requisites are met:

- Oracle Utilities Customer To Meter v2.7.0.1 is up and running with the demo data pack.

- Eclipse client for Oracle Utilities Testing Accelerator is installed in the local machine. Refer to *Oracle Utilities Testing Accelerator Installation and Administration Guide* for version details.

- Oracle Utilities Customer To Meter is installed and repository/directory is setup in the local machine appropriately. Refer to *Oracle Utilities Testing Accelerator Installation and Administration Guide* for more details.

Setting Up Sample Flows

To setup a sample flow, follow these steps:

1. Login to Oracle Utilities Customer To Meter.

2. Import the Inbound Web Services into the Oracle Utilities Customer To Meter application where the scenarios need to be executed.

   See **Importing Inbound Web Services** in the *Oracle Utilities Testing Accelerator User's Guide* for steps to import the Inbound Web Services.

3. Navigate to **Admin > Implementation Tools > Bundle Import > Add**.

4. Enter the **External Reference**, **Detailed Description**, and **Bundle Details** from the IWS Bundle Export Dump.

5. Click **Save** and then click **Apply bundle**.

6. Configure the **configuration.properties** file as follows:

   a. Provide the application URL for the parameter:

   ```
   gStrApplicationURL=https\://<%serverName%>\:<%portNumber%>/ouaf
   ```

   b. Provide an environment name for display in the results email:

   ```
   gStrEnvirontmentName=<%testEnvironmentName%>
   ```

   c. Provide the Java Keystore details:

   ```
   gStrJavaKeyStorePath=<%javaKeystorePath%>
   gStrJavaKeyStorePwd=<%javaKeystoreEncryptedPassword%>
   ```

d. Provide the application login user ID:

```
gStrApplicationUserName= <%userName%>
```

e. Provide the application login encrypted password:

```
gStrApplicationUserPassword= <%encryptedPassword%>
```

f. Provide the SMTP email server and e-mail ID:

```
gStrSMTP_HOST_NAME=<%SMTPServerName%>
gStrSMTP_PORT=<%portNumber%>
gStrTO_EMAIL_RECIPIENTS=<%e-mailId%>
```

g. Provide the application database details:

```
gStrApplicationDBConnectionString=<%jdbc Connectionstring%> eg:
jdbc\:oracle\:thin\:@<%DBserverName%>\:<%port%>\:<%DBSID%>
gStrApplicationDBUsername=<%DBUserID%>
gStrApplicationDBPassword=<%encryptedDBPassword%>
```

h. Provide the full directory path of Oracle Utilities Testing Accelerator repository directories in the local machine:

```
gStrOutputFilePath=<%logFilePath%>
Example: D:\\UTA\\Logs\\
gStrXSDFiles=<%XSDfolderPath%>
Example: D:\\UTA\\XSD\\
```

Appendix A

Inbound Web Services

The Oracle Utilities Customer To Meter 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.*

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

- ATC1IdentifierType
- ATC1PremiseType
- ATD1ContactType
- ATD1CutServiceForNonPayment
- ATD1DisableServiceType
- ATD1EnableServiceType
- ATD1ExternalApplication
- ATD1FieldActivityType
- ATD1HeadEndSystem
- ATD1MarketParticipant
- ATD1ServiceType
- ATW1AssetLocationType
- ATW1AssetType
- ATW1ComponentType
- ATW1ContactType
- ATW1Organization
- ATW1OrganizationType
- ATW1ServiceHistoryType
- ATW1StorageLocation
- ATW1StorageLocationType
- ATW2ServicePoint
- ATW2Vehicle
- ATX1AssetLocationType

- ATX1ServicePointType
- ATX1ServiceType
- ATX1DServicePointType
- ATW1AssetLocation
- ATW1BasicTest
- ATW1ServiceHistory
- ATW2CommunicationComponent
- ATW2CommunicationComponentSpec
- ATW2CommunicationRelay
- ATW2CommunicationRelaySpec
- ATW2FirmwareSpecification
- ATW2FirmwareVersion
- ATW2ManualMeter
- ATW2ManualMeterSpecification
- ATW2SmartMeter
- ATW2SmartMeterSpecification
- ATW2SmartTest
- ATD1CreateFAIMDRead
- ATD1CutServiceForNonPayment
- ATD1DeviceCommissionRead
- ATD1DisableService
- ATD1EnableService
- ATD1FieldActivity
- ATD1InstallDeviceRead
- ATD1RequestToDoRead
- ATD1UpdateDeviceRead
- ATD1UpdateSPRead
- ATC1CollectionAgencyReferral
- ATC1CollectionProcess
- ATC1CutProcess
- ATC1OverdueProcess
- ATC1PayArrangeByBill
- ATC1PayArrangement
- ATC1PayPlan
- ATC1SeveranceProcess
- ATC1WriteOffProcess
- ATC1WriteOff
- ATC1Account

- ATC1AccountBS
- ATC1ContractOptEvent
- ATC1ContractOption
- ATC1Person
- ATC1PersonBS
- ATC1SARelationship
- ATC1ServiceAgreement
- ATC1ServiceAgreementUpdate
- ATC1StartStop
- ATC1StartStopBS
- ATD1Business
- ATD1Person
- ATW1Business
- ATW1Person
- ATX1ServicePoint
- ATD1ServicePointCharacteristics
- ATC1FASyncRequestRead
- ATC1GetSyncRequestId
- ATC1MDM2ContractOptSyncReqRead
- ATC1MDM2ContrOptEvtSyncReqRead
- ATC1MDM2PersonSyncRequestRead
- ATC1MDM2SARelSyncRequestRead
- ATC1MDM2SASyncRequestRead
- ATD1InstallEventSyncRequestRead
- ATD1OngoingSyncRequestContactRead
- ATD1OngoingSyncRequestDeviceRead
- ATD2OngoingSyncRequestDynOptEvtRead
- ATD2OngoingSyncRequestDynOptRead
- ATD2OngoingSyncReqUSMktPartRead
- ATD2OngoingSyncRequestUSRead
- ATW1MDMAssetSyncRequestRead
- ATW1OngoingSyncRequestAssetNodeRead
- ATX1GetSyncRequestInId
- ATD1DeviceConfiguration
- ATD1IMDSeeder
- ATD1IntervalChannel
- ATD1ManualIMDInterval
- ATD1ManualIMDScalar

- ATD1ManualMeter

- ATD1Register

- ATD1SmartMeter

- ATD1SmartMeterInstallEvent

- ATX1C2MSATypeMapping

- ATX1CCBMDM-MDMCCB-Lookup

- ATX1ODMMDM-MDMODM-Lookup

- ATC1Adjustment

- ATC1BillableCharge

- ATC1Bill

- ATC1BillSegment

- ATC1DepositControl

- ATC1FT

- ATC1MatchEvent

- ATC1MultiCancelRebill

- ATC1OffCycleBillGenerator

- ATC1Payment

- ATC1PaymentEvent

- ATC1PaymentEventQuickAdd

- ATC1PaymentQuickAdd

- ATC1Statement

- ATC1TenderControl

- ATC1TenderCtrlSearchByAllUser

- ATC1CtrlCenSearchByAccountId

- ATC1CtrlCenSearchByAddress

- ATC1CtrlCenSearchByNameAddress

- ATX1RetrieveAlerts

- ATX1RetrieveGlobalContexts

- ATCMSyncCfgBO

- ATD1SeederSyncMasterConfig

- ATX1C2MMasterConfiguration

- ATC1ActivityInformation

- ATC1DeviceInformation

- ATC1FACompletionMessage

- ATC1PremFAGTT

- ATC1ServiceRequestUpdate

- ATC1GetUsageId

- ATC1UsageReqCyclicalBilling

- ATC1UsageRequestNonCyclical
- ATD1GetUsageFromExtID
- ATD2DynamicOption
- ATD2DynamicOptionEvent
- ATD2UsageSubscription
- ATD2UsageTransaction
- ATD2UsgSubsMarketParticipant
- ATD1OnDemandReadScalar
- ATD1OnDemandReadScalarType
- ATD1OnDemandReadInterval
- ATD1OnDemandReadIntervalType
- ATD1HowToCreateActivityOBComm
- ATD1HowToCreateMCInformation
- ATD1HowToProcessDeviceInfo
- ATD1UnitOfMeasure
- ATD1VEEGroup
- ATD1DeviceConfigurationType
- ATD1Manufacturer
- ATD1RegisterType
- ATD1ServicePoint
- ATD1ServicePointType
- ATD1SmartMeterType
- ATD1DvcEventCategoryLookup
- ATD1StdEventNameLookup
- ATD1SGGPayloadProcessing
- ATD1HowToCreateActivityOBComm
- ATD1HowToCreateMCInformation
- ATD1HowToProcessDeviceInfo
- ATD8DeviceEventMappingLookup
- ATD8HeadendUOMLookup
- ATD8ReadOnDemandReadResultType
- ATD8ReadResultType
- ATD8ReadScalarType
- ATD8StatusChangedType
- ATD8VersionMasterConfig

Appendix B

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. For 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, follow these steps:

1. Log in to the Oracle Utilities Customer To Meter application in the 'debug' mode.

2. Before clicking the Debug mode switch ensure to navigate first to the target page. For example: Person maintenance page
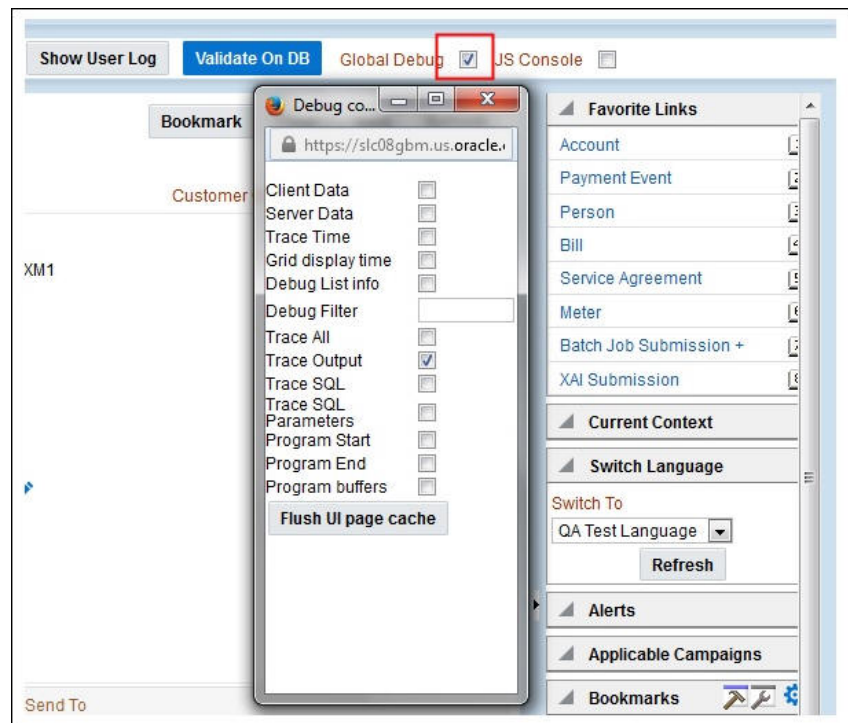
3. Perform the required action. Then, click **Save**.

For example: The figure below shows adding a person (person name, person phone, person contacts, Person IDs, etc)

The schema window showing the populated values is displayed.

4. Navigate to the Business Object or Business Service look up window for the requisite field.

For example: In the figure below, ENTITY_NAME is named as entityName.

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

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

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, follow these steps:

1. Login to Oracle Utilities Customer To Meter using Internet Explorer 11.

2. Navigate to the page where the requisite field needs to be updated with data.

For example: The figure below shows the Account page where the **Characteristic Value** field on the **Characteristics** tab needs to be updated.
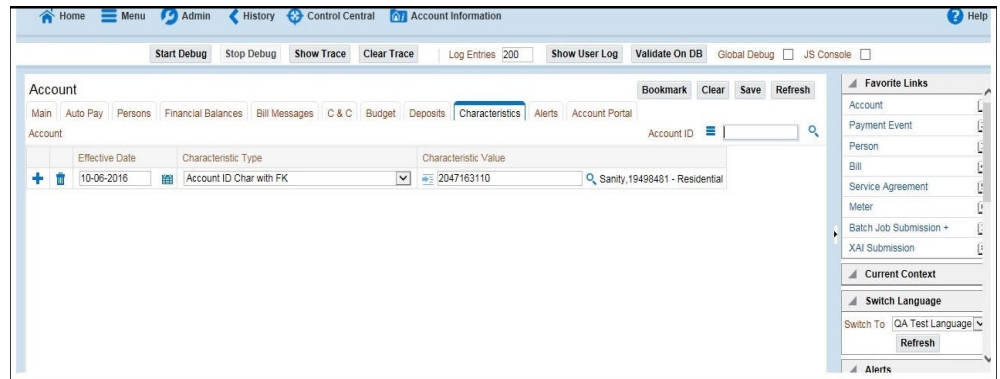
3. Press **F12**. The browser displays the F12 developer tools that help in building and debugging web pages.
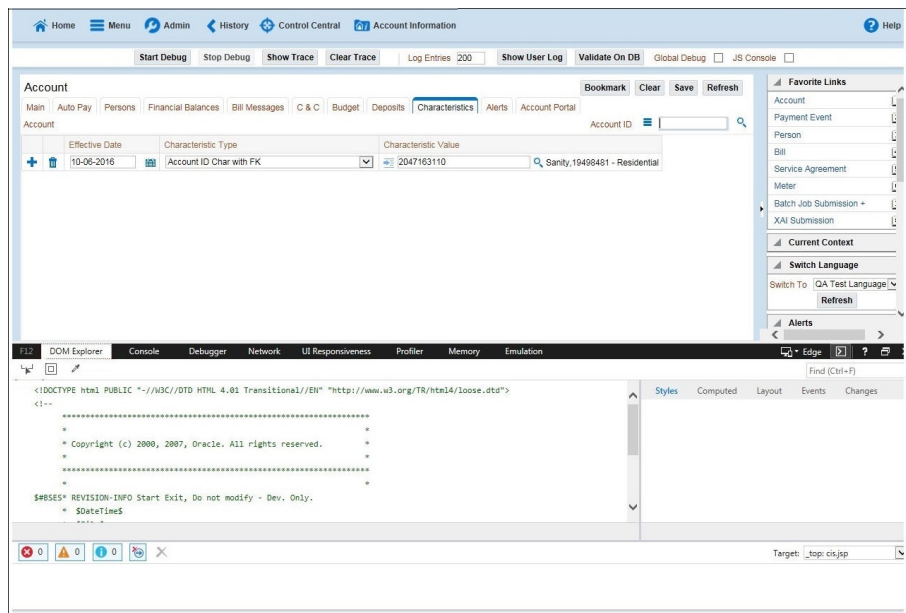
4. On the F12 tools menu, click the **DOM Explorer** tab, and then click the **Select element** icon.
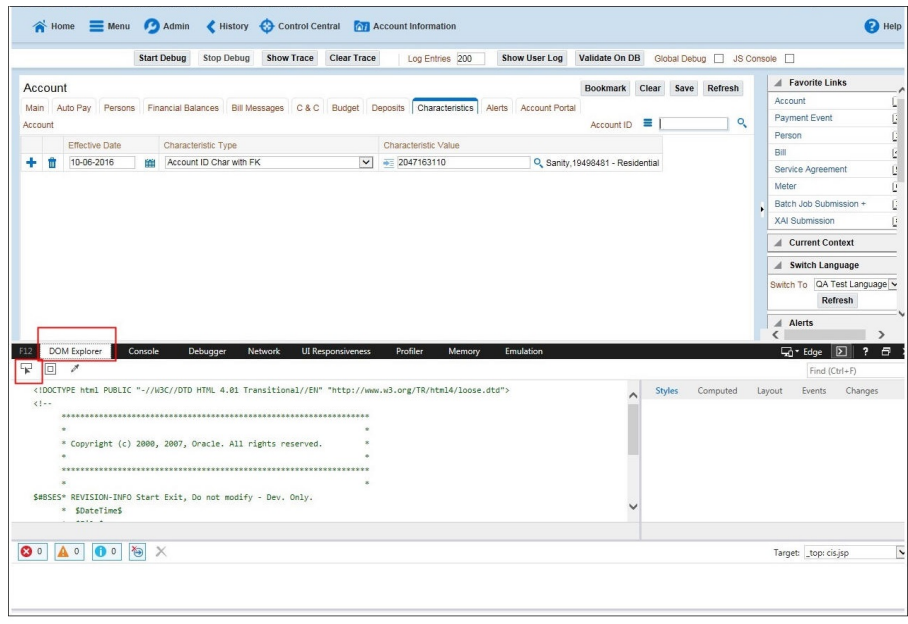
5. On the application page, click the field for which you need to enter the data. The DOM Explorer shows the HTML for the selected field.

    For example: Click the **Characteristic Value** field on the **Account** page. The DOM Explorer shows the **ID** of that field.
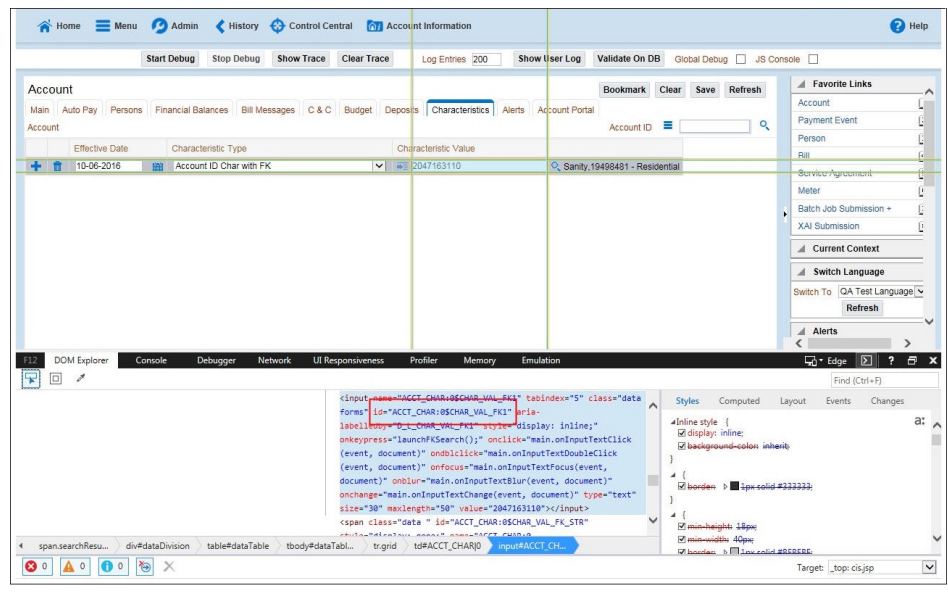
6. On the object lookup window, search the requisite field.

   For example: Search for CHAR_VAL_FK1.

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

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, follow these steps:

1. Log in to the Oracle Utilities Customer To Meter application.

2. Navigate to the page where the test data has to added. Add the data in the respective fields.

For example: The figure below shows the **Case** page where **Characteristics Type** and **Characteristic Value** are added in the **Characteristics** section.
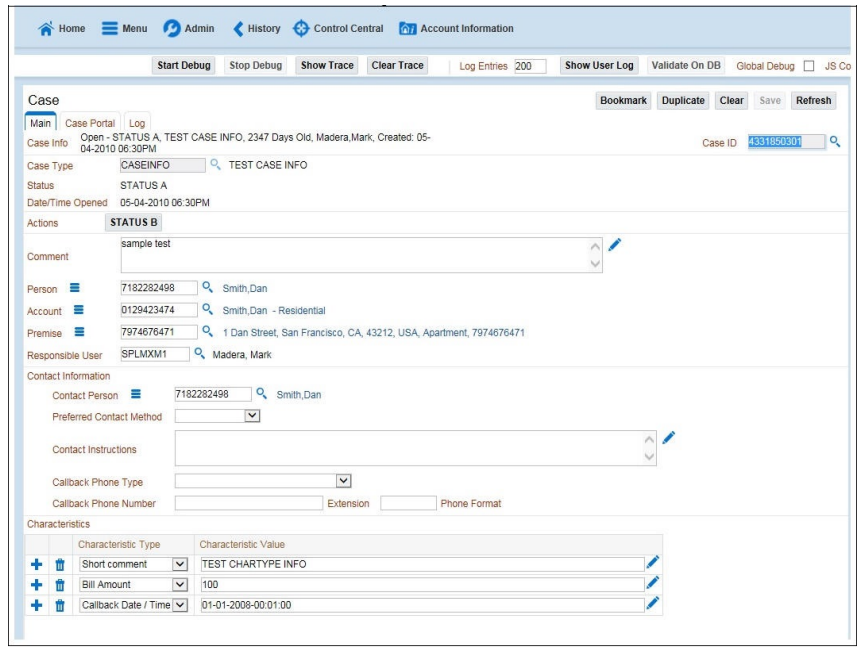
3. On the SOAP UI, perform a Read using the data that has been added on the **Case** page (in step 2). The result is displayed in the right pane.
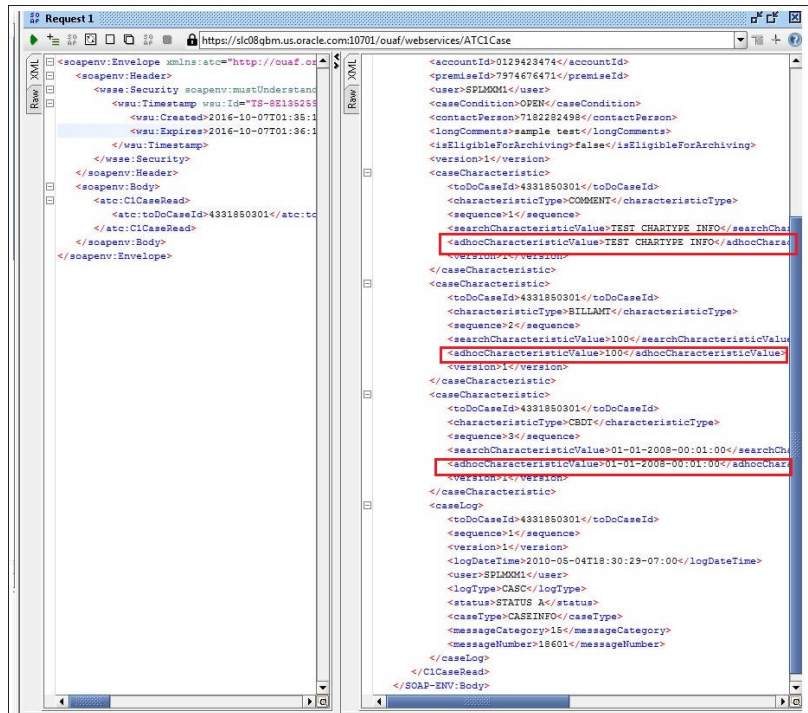
4. Copy the values and paste them in the respective fields on the flow.

For 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. (For example: version, info, other type of description, etc).

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