

Oracle Utilities Testing Accelerator

Release Notes

Release 6.0.0.3.0

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Oracle Utilities Testing Accelerator Release Notes, Release 6.0.0.3.0

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Preface

Welcome to the Oracle Utilities Testing Accelerator Release Notes.

The Release Notes describes the new features, enhancements, known issues, and other changes in Oracle Utilities Testing Accelerator v6.0.0.3.0.

The preface provides the following information:

- [Audience](#)
- [Abbreviations](#)
- [Related Documents](#)
- [Updates to the Documentation](#)
- [Documentation Accessibility](#)
- [Conventions](#)

Audience

This document is intended for anyone installing or using Oracle Utilities Testing Accelerator v6.0.0.3.0.

Abbreviations

The following terms are used in this document:

Term	Expanded Form
OUTA/UTA	Oracle Utilities Testing Accelerator

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*

User and Reference Guides

- *Oracle Utilities Testing Accelerator Security Guide*
- *Oracle Utilities Testing Accelerator User's Guide*
- *Oracle Utilities Testing Accelerator Upgrade Guide*
- *Oracle Utilities Testing Accelerator Licensing Information User Manual*

Updates to the Documentation

Documentation updates are posted on the [Oracle Technology Network](#) page as they become available.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the [Oracle's Accessibility Program](#) website.

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Oracle customers have access to electronic support through [My Oracle Support](#). If you are hearing impaired, visit the [Oracle Accessibility Learning and Support](#) website for more information.

Conventions

The following text conventions are used in this document:

Notation	Indicates
boldface	Graphical user interface elements associated with an action, terms defined in text, or terms defines in the glossary
<i>italic</i>	Book titles, emphasis, or placeholder variables for which you supply particular values
monospace	Commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter

Chapter 1

Release Notes

This document provides general information about Oracle Utilities Testing Accelerator v6.0.0.3.0, including new functionality, known issues, and other important aspects of the product.

Prior to installing this release, it is important that you review all of the release notes and your business processes as they relate to the new enhancements. There may be steps to complete or information to review before accepting the release.

For information about supported platforms and installation, refer to the *Oracle Utilities Testing Accelerator Installation and Administration Guide* included in this release.

The document includes the following:

- [Release Overview](#)
- [Supported Oracle Utilities Applications](#)
- [System Requirements](#)
- [New Features](#)
- [Deprecated Features](#)
- [Known Issues](#)

Release Overview

Oracle Utilities Testing Accelerator comprises test automation accelerators for automated testing of the Oracle Utilities applications.

Supported Oracle Utilities Applications

Oracle Utilities Testing Accelerator 6.0.0.3.0 release supports respective versions that each of the below listed Oracle Utilities product currently supports:

- Oracle Real-Time Scheduler
- Oracle Utilities Mobile Workforce Management
- Oracle Utilities Customer Care and Billing
- Oracle Utilities Customer To Meter
- Oracle Utilities Work and Asset Management
- Oracle Utilities Operational Device Management
- Oracle Utilities Meter Data Management
- Oracle Utilities Smart Grid Gateway

Refer to the *Certification Matrix for Oracle Utilities Products (Document ID 1454143.1)* on [My Oracle Support](#) to determine if support for newer versions of the listed products have been added.

System Requirements

For an updated list of system requirements and supported platforms, refer to the **System Requirements** section in *Oracle Utilities Testing Accelerator Installation and Administration Guide* included in this release.

New Features

This section focuses on the new features implemented in this release. While these notes provide high-level information, refer to the *Oracle Utilities Testing Accelerator Installation and Administration Guide* and *Oracle Utilities Testing Accelerator User's Guide* for comprehensive guidelines.

- [Highlight Flow on Component Updates](#)
- [Function Library Enhancements](#)
- [CM Content Upgrade Support for Integration Flows](#)
- [Flow Test Data Sets Selection in Flow Sets](#)
- [Test Component using Conversational Test Data Entry UI](#)
- [Conversational Test Data Entry](#)
- [Bulk Replace Test Data Feature](#)
- [Stop Flow Run on Failure](#)
- [Delete a Product Feature](#)
- [Stop Flow Run](#)
- [Support for Generic Web Service Operation Names](#)
- [Conditional Skipping of Components in Flow Run](#)

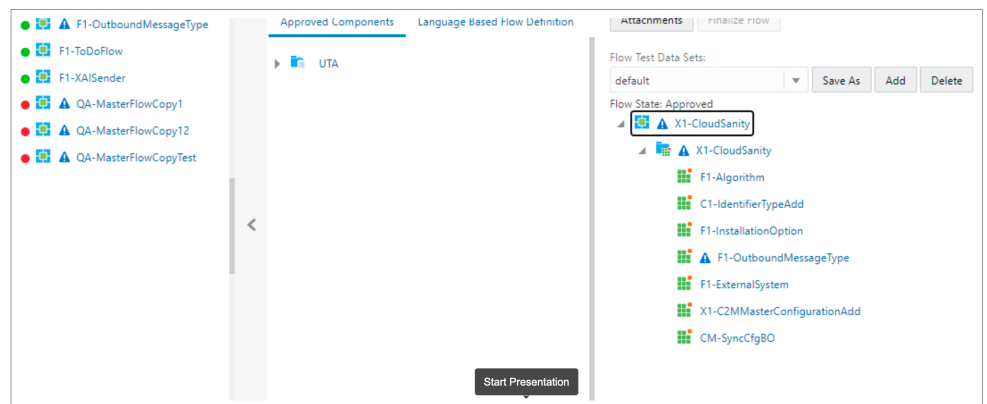
Highlight Flow on Component Updates

CM Content Upgrade process upgrades existing test flows to a newer version of the corresponding Oracle Utilities Testing Accelerator SaaS product pack where the flows are remapped to use the components provided in the newer version.

The Oracle Utilities Testing Accelerator components may get updated in the newer component pack, if there are any changes in the corresponding objects in the Oracle Utilities Enterprise SaaS applications. These changes may have an impact on the test flows in Oracle Utilities Testing Accelerator as the underlying component structure could have changed.

In the latest Oracle Utilities Testing Accelerator release, the CM Content Upgrade process checks to see if there are any changes in the component between the current/older and a newer version of the product pack and highlights a flow with a marker, if any component used in the flow has changed in its structure. The feature also highlights the component in the flow which caused the flow to be highlighted. This enables you to quickly identify and update the test data in the flows that may have been impacted because of the upgrade, without having to run the flows first. You can go to each of the highlighted flows, review it and update test data if necessary. Once test data is updated, the highlight marker can be cleared. Right-click the flow and select the option to clear the highlight marker. Alternately, the highlight marker can be cleared at the module or product level. Right-click the module/product in the flow tree in the frame and select the option.

This feature automates the process of assessing and identifying the impact that the changes Oracle Utilities Enterprise SaaS applications may have on test flows in Oracle Utilities Testing Accelerator, reducing the automated test management effort.

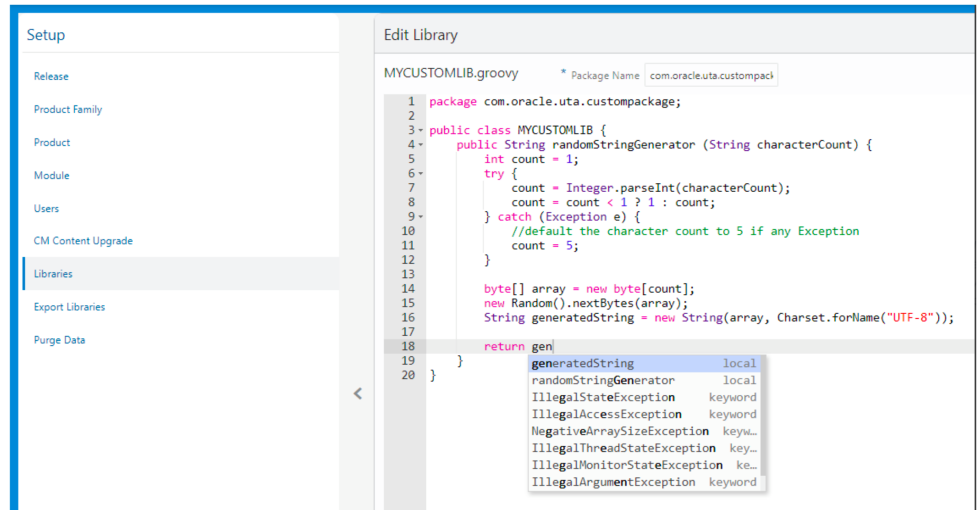


The figure shows highlighted flows along with the highlighted component within the flow.

Function Library Enhancements

Oracle Utilities Testing Accelerator includes a set of function libraries that can be plugged into components and flows to alter their behavior, along with the option to create a custom set of libraries to meet additional requirements. To aid the creation of a new custom Groovy function/library, a code editor has been added. Use it to edit the Function Library code within the Oracle Utilities Testing Accelerator workbench and update it as necessary. It removes the need to maintain custom library files externally.

In addition to the editor, custom function libraries can now be exported from one Oracle Utilities Testing Accelerator instance and imported to another, allowing you to migrate the function libraries that provide greater flexibility.



To enhance the usability of base libraries, a new set of libraries have been created by copying and refactoring the functions from old libraries and adding new functions. These new libraries are designed to replace the older libraries in the long term. But, in the short term, both the new and old libraries will continue to co-exist. You are advised to use the functions from the newer libraries, while developing components and flows. An upgrade function would be provided in a future release that will automatically migrate the component's/flow's function usage from old to new libraries.

The following new libraries are added:

- CoreDateTimeLib - Functions to generate DateTime for test data
- CoreDataGenLib - Functions to generate random numbers and strings for test data
- CoreStoreValues - Functions to set values to a variable
- CoreFileOps - Functions to read files in flow attachment
- CoreStringOps - Functions for string manipulations and comparisons
- CoreUTAOps - Functions to manage conditional constructs in Oracle Utilities Testing Accelerator

CM Content Upgrade Support for Integration Flows

Oracle Utilities Testing Accelerator supports integration test flows that verify the integration functionality between two supported Oracle Utilities Enterprise SaaS applications, such as Oracle Utilities Customer Cloud Service Integration to Oracle Utilities Work and Asset Cloud Service (CCS-WACS) or between supported Oracle Utilities Enterprise SaaS application and Oracle Utilities Enterprise application installed outside SaaS.

This feature allows you to upgrade the flows that use components from two or more product packs. If an integration flow uses components from two or more product packs, during the CM Content upgrade process, you can specify the destination product pack versions for each of the source product pack versions corresponding to those components. The CM Content Upgrade process upgrades and re-maps the components belonging to integration flows to the selected destination product pack versions appropriately.

The feature allows you to selectively upgrade integration flows inline with the products being upgraded.

Flow Test Data Sets Selection in Flow Sets

Oracle Utilities Testing Accelerator flow sets are a collection of flows that can be run together and in sequence. This feature allows you to add a flow that has multiple flow test data sets to a flow set by letting you select a flow test data set for a flow that is added to a flow set. You can add the same flow multiple times to a flow set by selecting different flow test data sets for each occurrence.

This feature gives you the ability to reuse a flow with multiple flow test data sets in a flow set and removes the need to create a new flow in cases where in only the test data is different.

The screenshot shows the 'Manage Flow Set' interface. At the top, there is a 'Back' button. Below it, the 'Flow Set: Flowset' and 'Description: test Flowset' are displayed. A 'View Flow List' section contains 'Delete', 'Add Flows', and 'Save' buttons. Below these buttons is a table with the following structure:

	<input type="checkbox"/>	Flow Name	Test Data Set	Release
1	<input checked="" type="checkbox"/>	AddPremise	Premise-Data-1 <input type="button" value="Change"/>	UTA
2	<input checked="" type="checkbox"/>	AddPremise	Premise-Data-2 <input type="button" value="Change"/>	UTA

The 'Test Data Set' column for the two rows is highlighted with a red box.

Test Component using Conversational Test Data Entry UI

To enhance the usability of the Conversational Test Data Entry (CTDE) feature as a means to unit test the usage of a component in a flow, a new navigation option has been added that allows you to go to the CTDE UI directly from the flow definition page.

To test a component in a flow as part of the flow development effort, you can navigate to the **Conversation Test Data Entry** UI. After a component is added to flow, provide the web service name and the transaction type in the flow component's test data UI. Right-click the component in the flow definition tree structure and select **Test Component** to navigate to the Conversational Test Data Entry UI and proceed with the unit testing of a component with requisite test data.

The screenshot shows the 'Flow Creation' interface. At the top, there are 'Attachments', 'Send To Inprogress', and 'Finalize Flow' buttons. Below these, the 'Flow Test Data Sets' section shows a dropdown menu with 'default' selected and 'Save As', 'Add', and 'Delete' buttons. The 'Flow State: Approved' section shows a tree structure with the following components:

- AddPremise
 - CM-PremiseAccount
 - C1-PremiseAdd
 - X1-ServicePointAd

A context menu is open over the 'C1-PremiseAdd' component, showing the following options:

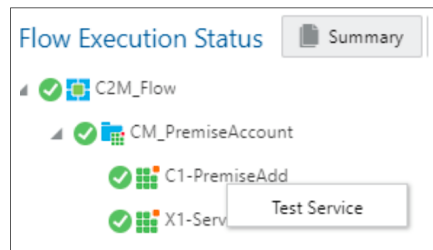
- Edit Test Data
- View Component
- Test Component**
- Update Component Description
- Copy Test Data
- Move Component
- Delete Component

Conversational Test Data Entry

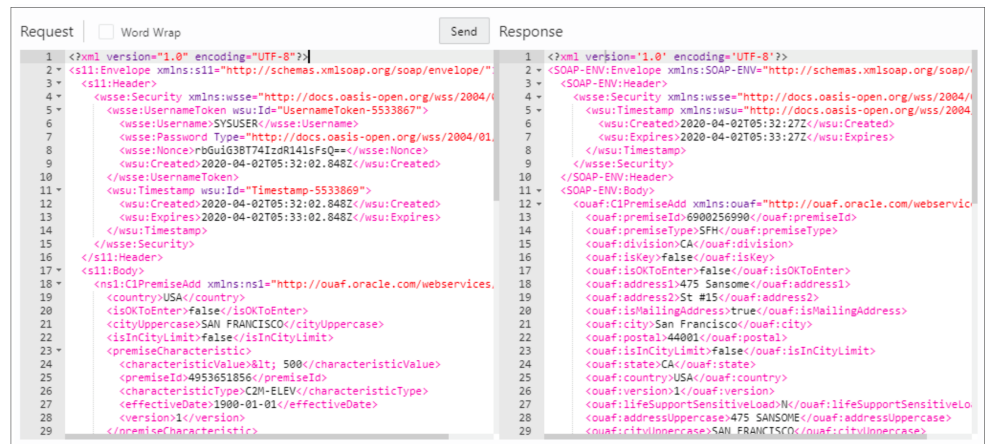
Appropriate test data needs to be set up against each of the component steps which form the building blocks of a test flow. The validity of a component step's test data values can be determined by unit testing the flow's component steps.

The Conversational Test Data Entry feature allows you to quickly and easily perform the testing and issue resolution for a given component step in a flow. You can update the test data while conversing through web services with the Oracle Utilities Enterprise SaaS cloud services for which the test flow is being developed. During the development of a test flow, as new component steps are added, run the flow to unit test and validate each component step. The flow run generates a request XML which is posted to the Oracle Utilities Enterprise SaaS cloud service application that returns a response.

Quite often, the first few runs result in identification of missing or incorrect test data values in a component step that requires correction of test data and re-run. To expedite unit testing and resolution of test data values, you can now navigate to the **Conversational Test Data Entry** page using **Edit Request** where you can update the request XML, re-post the updated XML and verify the response. Instead of updating the flow test data, the unit testing-issue resolution of the component step can be done by simply updating the request XML with different test data values and re-posting the request multiple times, until the desired response is obtained. After the unit testing of the component step is completed, the Conversational Test Data Management feature allows you to directly save the test data provided in the request XML in to the flow test data. Click **Save** on the conversational test data GUI.



The following figure shows the Conversational Test Data Management screen.

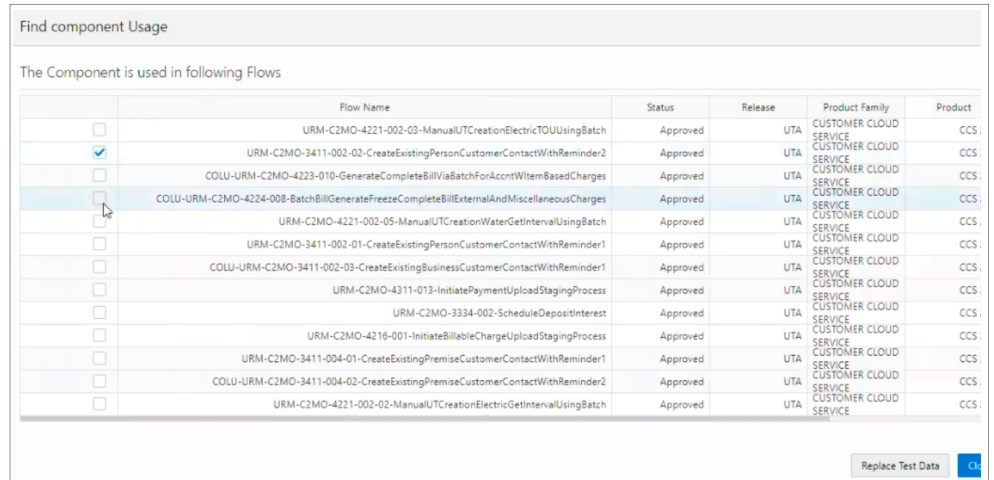


Bulk Replace Test Data Feature

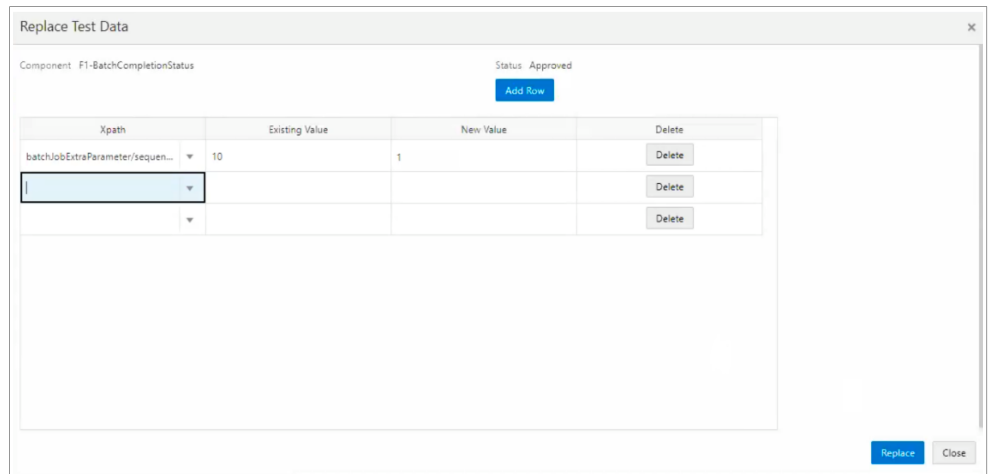
The Bulk Replace Test Data feature allows you to update/replace test data in multiple flows at once. It helps in cases where you need to update the admin test data type, such as premise type, asset type, etc that has been used in multiple flows and now needs correction/update. The feature has been specifically designed to help with the customization of the delivered Oracle Utility Reference Model based test flows, where you can update test data values, such as cis division or

premise type to suite the data in your environments. Instead of updating the test data for each flow to be customized, you can select the list of flows and bulk update the test data for a given component step.

To access this feature, right-click a component on the **Component** page and select **Find Component Usage**. It lists the flows in which the component has been used. Select the list of flows in which you want to update the test data and click **Replace Test Data**. Select the element against which the test data should be updated and provide the existing value and the value that it should be replaced with.



The following figure shows the **Replace Test Data** screen.



Stop Flow Run on Failure

When a specific validation defined in a component step within a test flow fails, or if any other technical exception causes the test flow to fail, you can configure whether the flow run should continue on failure or if the run should stop at the point of failure. You can define a boolean value against the “continueExecutionOnFailure” property defined in the user configuration set or the flow configuration set. Setting this value to “true” will continue the run even in case of a failure, while setting it to “false” will stop the run at the point of failure. The default value is set to “true”.

Delete a Product Feature

You now have the option to delete the older product pack versions in the flow/component tree hierarchy, such as Oracle Utilities Customer Cloud Service 19C or Oracle Utilities Meter Solution Cloud Service 20A.

The product delete feature allows you to manage the tree hierarchy structure in Oracle Utilities Testing Accelerator by helping with the removal of content you no longer need. The older product packs should only be deleted after you migrate all your custom flows to the newer product pack version. It is recommended to take an export of the custom flows in the product version being deleted for safe keeping. Deletion of the product will permanently and irrevocably delete all the flows and components under the product hierarchy.

Only the users who have administrator permissions will be able to delete the product. The product pack can be deleted from the Administration pages; alternatively, you can right-click the product pack in the component or tree hierarchy and select **Delete**.

Stop Flow Run

This feature provides a greater control over a flow whose run is in-progress and is used to stop a test flow run that is in progress. To stop the flow run, click **Stop** on the **Flow Run** screen.

Some of the test automation flows can be long and there could be cases where a test flow run should be stopped without having to wait for the entire flow to be run (to correct the test data or address some environmental issues that may impact the flow run). The feature enables you to interrupt a flow run so that it can be stopped at any point.

Support for Generic Web Service Operation Names

This feature enhances usability. You can provide a generic set of operation names against the web service transaction/operation name, though the actual underlying web service operation names may be different for the Inbound Web Services delivered as part of Oracle Utilities Testing Accelerator packs.

You can now provide any one of the respective operation names ADD, UPD, DEL, CHG, READ against the WS-SETTRANSACTIONTYPE keyword in the component's test data page in a flow, instead of the actual operation name in the Inbound Web Service definition. Oracle Utilities Testing Accelerator can find and replace the generic operation names with the operation names specified in the Inbound Web Service definition. This is designed to work for the Inbound Web Services that are delivered as part of Oracle Utilities Testing Accelerator packs.

Alternately, you can continue to provide the actual operation/transaction name specified in the Inbound Web Service definition against the WS-SETTRANSACTIONTYPE keyword in the component's test data page in a flow.

Conditional Skipping of Components in Flow Run

This feature provides you with finer control of a flow run. You can now specify whether a component will be skipped or run as part of the flow run, based on the custom conditional statements. You can choose to selectively run or skip one or more components based on the outcome of the previous component step or based on the Flow Test Data set that you use, as part of the flow run.

To provide finer control of a flow run Oracle Utilities Testing Accelerator you can define if one or more components may be skipped or run as part of the flow run. You can add conditional statements in a component's **Pre-validations** section that decides if a component run should be skipped. This conditional statement can be based on the output of the previous component step, as part of the flow run.

Alternately, you can use multiple flow test data sets to specify if a given component needs to be skipped or run as part of the flow run using the flow test data set. This gives the ability to change the behavior of the functional flow based on the flow test data set that is used.

Deprecated Features

The Language Based Flow Definition (Behavior Driven Development) feature has been deprecated.

Planned Deprecation

Custom function library support using Groovy language is planned to be deprecated in a future release. An alternative option for custom function library definition and management may be provided.

Known Issues

This section lists the issues that were found but not resolved in Oracle Utilities Testing Accelerator at the time of release.

Generating Component - Attribute Support

When you generate a component from a WSDL, and if WSDL contains an XML element that has an attribute, the generated component does not reflect this information. You should manually edit the XML element that has the attribute and specify the attribute using the @attribute notation.

Custom Content Upgrade

While upgrading flows as part of the custom content upgrade, the **Outdated** icon does not appear in the display of the flow.