Oracle Utilities Testing Accelerator

Installation and Administration Guide

Release 25.4

G35194-01

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Oracle Utilities Testing Accelerator Installation and Administration Guide

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Contents

Preface

Welcome to the Oracle Utilities Testing Accelerator Installation and Administration Guide for release 25.4.

This guide explains how to install Oracle Utilities Testing Accelerator. The preface provides information about the following:

Audience

This guide is intended for System Administrators installing Oracle Utilities Testing Accelerator.

Prerequisite Knowledge

This guide requires the following:

- Experience in installing and configuring application servers and other software
- Administrative privileges on the host where you are installing the software
- Oracle 19C database administration privilege and experience

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

The complete Oracle Utilities Testing Accelerator documentation set is available from Oracle Help Center at https://docs.oracle.com/en/industries/energy-water/index.html.

Visit My Oracle Support for additional and updated information about the product.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle's Accessibility Program website.

Access to Oracle Support

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.

Abbreviations

The following abbreviations are used throughout this and other documents provided with the product:

Term	Expanded Form
MDM	Oracle Utilities Meter Data Management
MWM	Oracle Utilities Mobile Workforce Management
WAM	Oracle Utilities Work and Asset Management
CCB	Oracle Utilities Customer Care and Billing
C2M	Oracle Utilities Customer To Meter
OUTA	Oracle Utilities Testing Accelerator

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.

Media Pack

The media pack comprises the following documentation and installation packages:

- **Documentation Package**
  - Oracle Utilities Testing Accelerator Release Notes

- Oracle Utilities Testing Accelerator Installation and Administration Guide
- Oracle Utilities Testing Accelerator User's Guide
- Oracle Utilities Testing Accelerator Custom Flows Upgrade Guide
- Oracle Utilities Testing Accelerator Security Guide
- Oracle Utilities Testing Accelerator Licensing Information User Manual

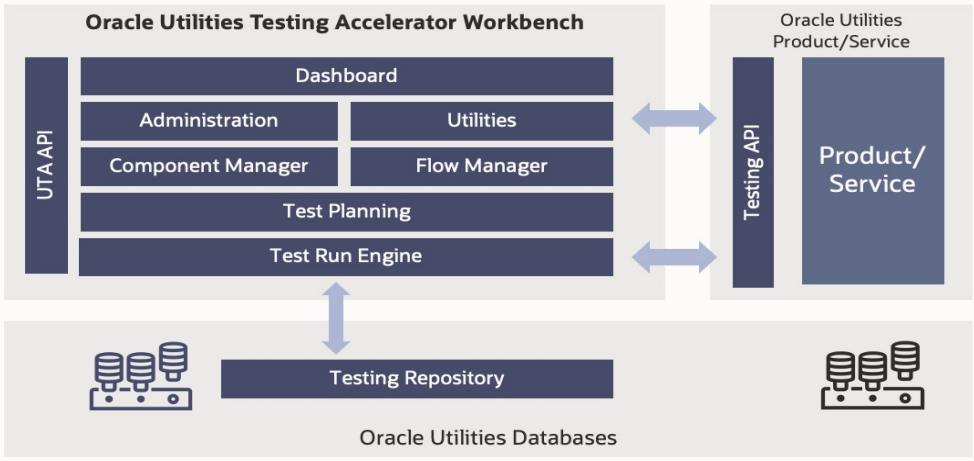
- **Installation Package**
  - Oracle Utilities Testing Accelerator Multiplatform

Chapter 1

Overview

This chapter introduces the Oracle Utilities Testing Accelerator application and provides an overview of the application architecture.

The following diagram shows a high-level architecture for Oracle Utilities Testing Accelerator:



Oracle Utilities Testing Accelerator's workbench can be accessed using a web browser, such as Firefox or Google Chrome. The workbench allows to create and manage components and flows. Additionally, flow runs and their corresponding history can be managed from the workbench. There are various modules within the workbench:

- **Component Manager** supports auto generation creation, update and delete of components.
- **Flow Manager** provides features to create and manage test flows in Oracle Utilities Testing Accelerator.
- **Test Planning** helps to manage flow runs corresponding to testing of specific product upgrades/updates.
- **Utilities** help manage flow upgrades, export-import and custom component creation.
- **Security** module in Oracle Utilities Testing Accelerator workbench ensures that only authorized users have access to the workbench. The module also provides necessary support to add authentication to outbound requests used for testing an

application. Additionally, the module also controls the access to the flow runs using the Oracle Utilities Testing Accelerator REST APIs.

All components and flows are defined using metadata as **Testing Objects**. The metadata and the flow run history is stored in the database for unified, concurrent access by various Oracle Utilities Testing Accelerator users.

Oracle Utilities Testing Accelerator includes predefined components provided by the corresponding product's Quality Assurance teams.

All the web service based test flow runs use Testing APIs on the Oracle Utilities Enterprise products. These APIs are web service end points on the Enterprise applications and are part of Oracle Utilities Testing Accelerator.

Using the components, a flow can be assembled and generated. The generated script can also be run in Eclipse IDE for Java Developers edition that has the Oracle Utilities Testing Accelerator Eclipse plugin installed.

Chapter 2

Supported Platforms

This chapter provides an overview of the tiers on which Oracle Utilities Testing Accelerator is implemented. It also shows each of the operating system/server combinations for which Oracle Utilities Testing Accelerator is certified.

The following topics are included:

Supported Platforms

The installation is tested and certified to operate on the following operating system, application server, and database server combinations.

This section includes the following:

Operating Systems and Application Servers

The following table provides the operating system and application server combinations on which Oracle Utilities Testing Accelerator has been tested and certified.

Web Browser (Client)	Operating System (Server)	Chipset	Application Server	Database
Windows 11 Firefox 128+ESR Microsoft Edge (Chromium-based) 130+ Google Chrome for Enterprise 130+	Oracle Linux 8.x/9.x (64-bit)	x86_64	Embedded	Oracle Database Server Enterprise Edition 19c/23ai

Oracle Database Servers

Oracle Utilities Testing Accelerator is supported with Oracle Database Server 19c on all of the operating systems listed in the Operating Systems and Application Servers section.

Oracle Utilities Testing Accelerator supports Oracle Database Enterprise Edition. Respective Oracle Database client is required to access the database server.

Support for Software Patches and Upgrades

Due to the ongoing nature of software improvement, vendors issue patches and service packs for the operating systems, application servers, and database servers on top of specific versions on which Oracle Utilities Testing Accelerator is tested.

If it is necessary to apply an upgrade, please do so in a backup/standby environment that is running on the same platform as your main environment prior to updating the Oracle Utilities Testing Accelerator main environment.

> **Important!** Make sure you contact the Oracle Utilities Testing Accelerator Support prior to applying vendor updates that do not guarantee backward compatibility.

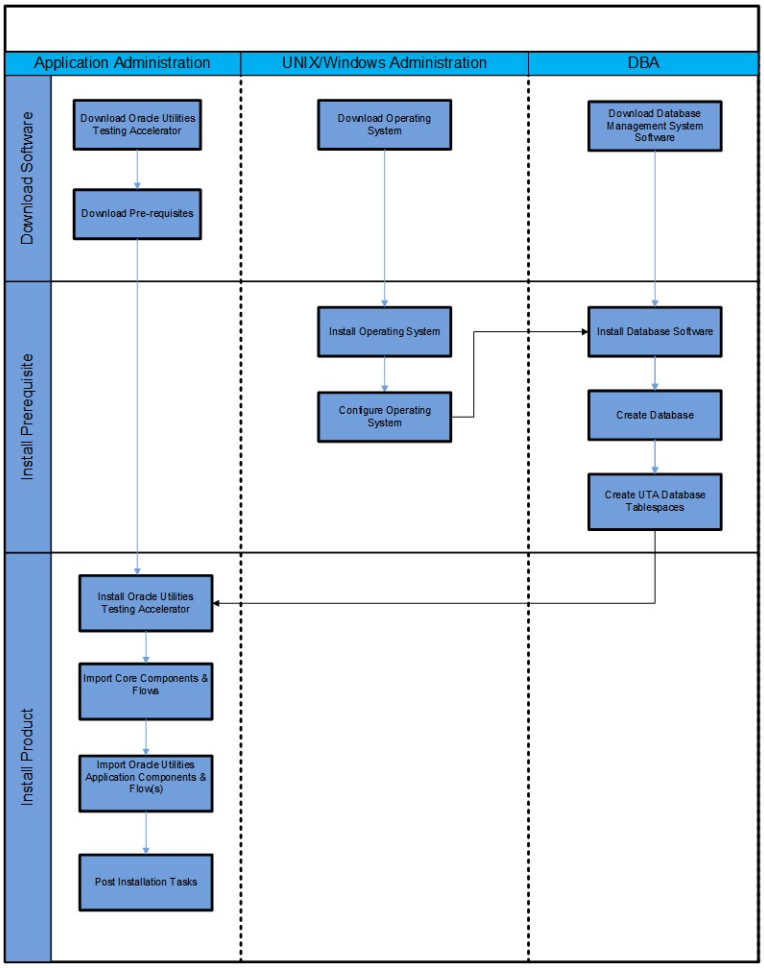
Chapter 3

Oracle Utilities Testing Accelerator Setup

This chapter describes the Oracle Utilities Testing Accelerator setup before proceeding with installation. It includes the following sections:

Installation and Configuration Overview

The following diagram shows the steps to install and configure Oracle Utilities Testing Accelerator.



Prerequisites

The following table provides the prerequisite software details to install Oracle Utilities Testing Accelerator in the respective machine categories:

Machine Category	Requirement
Prerequisite Software (Server)	Oracle JDK 17+ Oracle Database 19c/23ai Enterprise Edition

System Requirements

The following table provides the browser, operating system, and database combination details for which this Oracle Utilities Testing Accelerator release has been certified.

System/Software	Requirement
Browser	Firefox ESR 128+ Google Chrome for Enterprise 130+
Operating System (Client)	Windows 10 (32-bit/64-bit) / Windows 11 (32-bit/64-bit)
Operating System (Server)	Oracle Linux 8.x/9.x (64-bit)
Chipset	x86_64
Database	Oracle Database 19c/23ai Enterprise

Supported Oracle Utilities Products

Oracle Utilities Testing Accelerator 25.4 release supports respective versions that each of the below listed Oracle Utilities product currently supports:

- 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.

Setup Overview and Roles

The following table provides an overview of the Oracle Utilities Testing Accelerator application setup tasks.

Step	Task	Role
1	Verify the system requirements. Refer to Prerequisites.	Administrator
2	Verify the prerequisites have been met. Refer to Prerequisites.	Administrator
3	Install Oracle Utilities Testing Accelerator. Refer to Prerequisites.	Administrator

Step	Task	Role
4	Import Oracle Utilities Testing Accelerator export zip files into Oracle Utilities Testing Accelerator Workbench. Refer to Installing Oracle Utilities Testing Accelerator.	Administrator

Chapter 4

Installing Oracle Utilities Testing Accelerator

This chapter provides the instructions to install Oracle Utilities Testing Accelerator. It includes the following sections:

Extracting the Oracle Utilities Testing Accelerator Packages

Prepare the database for Oracle Utilities Testing Accelerator before extracting the packages. Make sure the necessary tablespaces are created.

This section includes the following:

Preparing Database for Oracle Utilities Testing Accelerator

To ensure that the necessary tablespaces are created as expected:

> **Note**: Run the following commands using an Oracle Database client software, such as SQLPlus or SQL Developer, or similar tools using a Database Administrator account.

1. Create a tablespace for storing Oracle Utilities Testing Accelerator related data.

```
CREATE TABLESPACE UTA_data DATAFILE '<datafile>' SIZE 500M
AUTOEXTEND ON NEXT 200M MAXSIZE 1024M
DEFAULT STORAGE (INITIAL 10M NEXT 1M PCTINCREASE 10)
PERMANENT
ONLINE
LOGGING;
```

   <datafile> is the location in Oracle database to store the Oracle Utilities Testing Accelerator related data.

2. Create the tablespace for storing Oracle Utilities Testing Accelerator related data indexes.

```
CREATE TABLESPACE UTA_idx DATAFILE '<indexfile>' SIZE 250M
AUTOEXTEND ON NEXT 50M MAXSIZE 512M
DEFAULT STORAGE (INITIAL 10M NEXT 1M PCTINCREASE 10)
PERMANENT
ONLINE
LOGGING;
```

   <indexfile> is the location in Oracle database to store the Oracle Utilities Testing Accelerator indexes data.

3. Commit the changes.

```
COMMIT;
```

Extracting the Package

Since it is a graphical user interface installer, it is recommended to run the following steps using a graphical desktop system tool (such as VNC viewer).

To extract the package:

1. Download the Oracle Utilities Testing Accelerator V25.4 Multiplatform part from Oracle Software Delivery Cloud (OSDC).
2. Create the <TEMPDIR> directory.

3. Extract the zip file into the <TEMPDIR> created in step 2.
4. Unzip the UTA_Client.zip file into <TEMPDIR>/Client directory.

Installing Oracle Utilities Testing Accelerator

This section focuses on the Oracle Utilities Testing Accelerator installation for the following:

- New Users
- Existing Users

New Users

Using GUI Based Installer

To install Oracle Utilities Testing Accelerator using GUI based installer:

1. Navigate to <TEMPDIR>.
2. Transfer or copy the UTA_25.4_generic.jar file to temp folder on Linux server where Oracle Utilities Testing Accelerator has to be installed.
3. On Linux server, navigate to the temp folder created in step 1.

   Make sure that the Java version used is Oracle Java 17+.

   Example:

   ```
   export JAVA_HOME=<path of the Oracle JDK 17+>
   export PATH=$JAVA_HOME/bin:$PATH
   ```

4. Execute java -jar <TEMPDIR>\UTA_25.4_generic.jar.
5. On the **Oracle Universal Installer Welcome** screen, click **Next**.

   On the **Installation Location** screen, enter the following details:

   - **Oracle Home**: Directory where Oracle Utilities Testing Accelerator should be installed.

   Note: This directory is referred to in the following sections as <UTA_HOME>.
6. Click **Next**.
7. On the **Java Home and Application Details** screen, enter the following details:
   - **Java Home**: Directory where Oracle JDK 17+ is installed.
   - **Application Server Port**: The network port on which the Oracle Utilities Testing Accelerator application should run.
   - **Application Administrator User Name**: User name of the user account that would be created with Administrator role for the Oracle Utilities Testing Accelerator application.
   - **Application Administrator User Password**: Password for the Application Administrator account with user name as specified above.

- **Confirm Application Administrator User Password**: Re-type the password specified above.

8. Click **Next**.
9. On the **Application Keystore Details** screen, enter the following details:
   - **Common Name**: Fully qualified name of the domain/server
   - **Organization Unit**: Name of the organization unit/department
   - **Organization Name**: Name of the organization
   - **City**: Name of the City
   - **State**: Name of the State
   - **Country Code (2 characters)**: 2-character country code
   - **Keystore Password**: Password to user for accessing the keystore.
   - **Confirm Keystore Password**: Re-type the password specified above.
10. Click **Next**.
11. On the **Target Database Connection Details** screen, enter the following details:
    - **Database Host**: Fully qualified name of the server where the Oracle Utilities Testing Accelerator database is created.
    - **Database Port**: Port on which the database can be accessed.
    - **Database Service Name**: Database service name that can be used to access the Oracle Utilities Testing Accelerator database.
    - **Database Administrator User Name**: User name of the database account that has administration rights on the database mentioned above.
    - **Database Administrator Password**: Password for the database administrator account mentioned above.
    - **Confirm Database Administrator Password**: Re-type the password for database administrator account mentioned above.
    - **Application Database Schema Password**: Password for the Oracle Utilities Testing Accelerator application schema that is created as part of the installation.

      Note: Oracle Utilities Testing Accelerator connects to the Oracle Utilities Testing Accelerator database using this password. It is recommended to ensure that the password does not expire.
    - **Confirm Application Database Schema Password**: Re-type the Oracle Utilities Testing Accelerator schema password mentioned above.
12. Click **Next**.
13. On the **Installation Summary** screen, click **Install**.
14. On the **Installation Progress** screen, click **Next**. The **Installation Complete** screen appears.
15. Click **Finish** to finish the installation.

This completes the Oracle Utilities Testing Accelerator installation process. For details about how to start/stop the server, refer to the Starting/Stopping Oracle Utilities Testing Accelerator section.

Important! After starting the application, add the website certificate to the JDK trusted certificates. This has to be done before using some of the application features. Stop the application and restart it for the changes to take effect.

> **Note**: Context path of the application has changed starting Oracle Utilities Testing Accelerator V7.0.0.0. The URL for accessing Oracle Utilities Testing Accelerator will be:
>
> https://<hostname>:<portNumber>/uta/login.html. (Additional "/uta" is added to the path)
>
> For more information, refer to the Importing Oracle Utilities Testing Accelerator Certificates section.

Using Silent (Non-GUI) Based Installer

To install Oracle Utilities Testing Accelerator using silent (non-GUI) based installer:

1. Navigate to <TEMPDIR>.
2. Transfer or copy the UTA_25.4_generic.jar file to temp folder on Linux server where Oracle Utilities Testing Accelerator has to be installed.
3. On Linux server, navigate to the temp folder created in step 1.

   Make sure that the Java version used is Oracle Java 17+.

   Example:

   ```
   export JAVA_HOME=<path of the Oracle JDK 17+>
   export PATH=$JAVA_HOME/bin:$PATH
   ```

4. Edit silentInstallationUTA.rsp file and fill the template with following data. The silentInstallationUTA.rsp file can be found in the TEMPDIR.
   - **ORACLE_HOME**: Location where Oracle Utilities Testing Accelerator should be installed.
   - **JAVA_HOME**: Directory where Oracle JDK 17+ is installed.
   - **APP_PORT**: The network port on which the Oracle Utilities Testing Accelerator application should run.
   - **APP_USER**: User name of the user account that would be created with Administrator role for the Oracle Utilities Testing Accelerator application.
   - **APP_PASS**: Password for the Application Administrator account with user name as specified above.
   - **APP_PASS_CONFIRM**: <same as APP_PASS>
   - **KEYSTORE_NAME**: Fully qualified name of the domain/server
   - **KEYSTORE_ORG_UNIT**: Name of the organization unit/department
   - **KEYSTORE_ORG_NAME**: Name of the organization
   - **KEYSTORE_CITY**: Name of the City
   - **KEYSTORE_**: Name of the State
   - **KEYSTORE_COUNTRY**: 2-character country code

- **KEYSTORE_PASS**: Password to be used for generating the keystore, should be at least 6 characters. This password will be needed to access the generated keystore.
- **KEYSTORE_PASS_CONFIRM**: <same as KEYSTORE_PASS>
- **UTA_DBSERVER**: Fully qualified name of the server where the Oracle Utilities Testing Accelerator database is created.
- **UTA_DBPORT**: Port on which the database can be accessed.
- **UTA_DBNAME**: Database service name that can be used to access the Oracle Utilities Testing Accelerator database
- **UTA_DBUSER**: User name of the database account that has administration rights on the database mentioned above.
- **UTA_PASS**: Password for the database administrator account mentioned above
- **UTA_PASS_CONFIRM**: <same as UTA_PASS>
- **UTA_SCHEMA_PASS**: Password for the Oracle Utilities Testing Accelerator application schema in DB that was created as part of the installation steps.

  Note: Oracle Utilities Testing Accelerator connects to the Oracle Utilities Testing Accelerator database using this password. It is recommended to ensure that the password does not expire.

  For more information about schema creation, refer to the *Oracle Utilities Testing Accelerator Installation and Administration Guide* included in this release.
- **UTA_SCHEMA_PASS_CONFIRM**: <same as UTA_SCHEMA_PASS>

5. Execute java -jar <TEMPDIR>\UTA_25.4_generic.jar -silent -responseFile <path of the response (.rsp) file>.

   Example:

   ```
   java -jar UTA_25.4_generic.jar   -silent  -responseFile /scratch/
   UTA_Installer/shiphome/silentInstallationUTA.rsp
   ```

The progress of installation (along with respective steps) can be viewed on the screen. Once the installation is complete, the command will terminate on its own. This completes the Oracle Utilities Testing Accelerator installation process. For details about how to start/stop the server, refer to the Starting/Stopping Oracle Utilities Testing Accelerator section.

Important! After starting the application, add the website certificate to the JDK trusted certificates. This has to be done before using some of the application features. Stop the application and restart it for the changes to take effect. For more information, refer to the Importing Oracle Utilities Testing Accelerator Certificates section.

Note: Context path of the application has changed starting Oracle Utilities Testing Accelerator V7.0.0.0. The URL for accessing Oracle Utilities Testing Accelerator will be:

https://<hostname>:<portNumber>/uta/login.html. (Additional "/uta" is added to the path)

Existing Users

Important! Upgrade is applicable only from V6.0.0.1.0 and above to V25.4.

To install Oracle Utilities Testing Accelerator V25.4:

1. Navigate to the Oracle Utilities Testing Accelerator installation directory.
2. Navigate to the "/inventory/distributions/info/" folder.
3. Modify the contents of all XML files present in the folder.

   Example: UTA_6.0.0.X.X.xml
4. Remove the following attribute. Please ignore this step if the attribute is not available.

   ```
   enable-auto-updates="false
   ```
5. Create a backup of the runtimeApplication.properties, application.properties, and uta.properties files present in the current Oracle Utilities Testing Accelerator installation directory.
6. Follow the instructions in the New Users section.
7. Replace the new runtimeApplication.properties, application.properties, and uta.properties files in the Oracle Utilities Testing Accelerator installation directory, with the files for which backup was created in step 5.
8. Make sure to note the following:
   a. Provide the existing Oracle Utilities Testing Accelerator V6.0.0.1.x/V6.0.0.2.x/V7.0.0.1.x installation folder as ORACLE_HOME.
   b. Overwrite the existing jar folder in the Oracle Utilities Testing Accelerator Client folder structure with <TEMPDIR>/Client/runtime/jar created in Extracting the Oracle Utilities Testing Accelerator Packages.

      Note: Context path of the application has changed starting Oracle Utilities Testing Accelerator V7.0.0.1.0. The URL for accessing Oracle Utilities Testing Accelerator will be:

      https://<hostname>:<portNumber>/uta/login.html. (Additional "/uta" is added to the path)

Installing Components and Flows

Make sure to replace the <VERSION> tag with the supported product versions.

This section provides the steps to install components and flows for Core, Mobile Workforce Management, Customer Care and Billing, Customer to Meter, Work and Asset Management, and Meter Data Management. It includes:

- Installing Core Components and Flows
- Installing Components and Flows for Other Oracle Utilities Applications

Installing Core Components and Flows

To install/import core components and flows:

1. Navigate to the <TEMPDIR>/Client folder created. For more information, refer to the Extracting the Oracle Utilities Testing Accelerator Packages section.
2. Navigate to <TEMPDIR>/Client/Core/25.4 directory.
3. Import the CORE254_UIComponents.zip and CORE254_WSComponents.zip followed by CORE254_Flows.zip into the Oracle Utilities Testing Accelerator workbench.

   For steps to import components and flows into Oracle Utilities Testing Accelerator Workbench, refer to Importing Components and Flows in Oracle Utilities Testing Accelerator Workbench.
4. Import the IWS bundle of your Oracle Utilities Application Framework's version into the Oracle Utilities application. For instructions refer to Importing Inbound Web Service Bundles.

   Example: If your Oracle Utilities Application Framework's version is 4.3.0.2.0, import OUAF501_IWS_4302.xml.
5. Deploy the above bundle. For instructions refer to Deploying Inbound Web Services.

Installing Components and Flows for Other Oracle Utilities Applications

The components and flows for supported Oracle Utilities applications are not shipped with the Oracle Utilities Testing Accelerator package. Download them separately from My Oracle Support.

For a list of existing product packs available, refer to Appendix B: Oracle Utilities Application Product Packs. Instructions on how to install components and flows for these product packs are available in the Readme files of the respective patches.

Important! Make sure to follow the steps in Installing Core Components and Flows before importing any other Oracle Utilities application components/flows.

Importing Components and Flows in Oracle Utilities Testing Accelerator Workbench

To import the components and flows into Oracle Utilities Testing Accelerator workbench:

1. In the web browser, navigate to the Oracle Utilities Testing Accelerator Login page.

   URL is provided during the Oracle Utilities Testing Accelerator installation process and is usually in the https://<server>:<port>/ format.

   > **Note**: The port here refers to the Application Server port specified during the Oracle Utilities Testing Accelerator installation process. Refer to **step 8** in the Installing Oracle Utilities Testing Accelerator section.
2. Login as an Administrator using the credentials provided during the Oracle Utilities Testing Accelerator installation.

3. Once the login is successful, the **Dashboard** page is displayed.
4. On the **Tools** tab, click **Import**.
5. On the **Import** page, either drag the component/flow zip file to the area labeled "Drop files here or click to upload".

   Alternatively, click the area and then navigate to the location containing the component/flow zip file. Select it and click **OK**.
6. Click **Save**.
7. After the import process is complete, clear the cache (from the **Clear Cache** option available parallel to the "about" option) and refresh the browser to view the newly created components/flows.

Post-Installation Tasks

Oracle Utilities Testing Accelerator components and flows require Oracle Utilities' application specific metadata to exist in the environment on which the automation test cases are executed. This metadata includes automation specific Business Objects, Business Scripts, Data Areas, and Web Services.

This section includes the tasks to be performed after installing the components and flows:

- Starting/Stopping Oracle Utilities Testing Accelerator Runtime Executor
- Starting/Stopping Oracle Utilities Testing Accelerator
- Importing Oracle Utilities Testing Accelerator Certificates
- Securing the Installation Folder
- Importing Application Specific Metadata Bundles
- Importing Inbound Web Service Bundles
- Deploying Inbound Web Services
- Applying Prerequisite Patches

Starting/Stopping Oracle Utilities Testing Accelerator Runtime Executor

Use the Oracle Utilities Testing Accelerator Runtime Executor service to run the flows through a browser.

To start the Oracle Utilities Testing Accelerator Runtime Executor:

1. Navigate to the installation folder (the Oracle Home folder).
2. Run the following command:

   ```
   ./startUTARuntimeExecutor.sh
   ```

To start the application on a specific port:

1. Provide the port value for the "server.port" property in the runtimeApplication.properties file under the installation folder.
2. Update the "runtime.port" property value in the application.properties file under the installation folder.

Example: To configure the application to run on port 12500, the server.port property is as follows:

```
server.port=12500 (in runtimeApplication.properties)
runtime.port=12500 (in application.properties)
```

To stop Oracle Utilities Testing Accelerator Runtime Executor:

1. Navigate to the installation folder (the Oracle Home folder).
2. Run the following command:

   ```
   ./stopUTARuntimeExecutor.sh
   ```

Starting/Stopping Oracle Utilities Testing Accelerator

To **start** Oracle Utilities Testing Accelerator:

1. Navigate to the installation folder (the **Oracle Home** folder).
2. Run the following command:

   ```
   ./startUTA.sh
   ```

To start the application on a specific port provide the port value for the "**server.port**" property in the application.properties file present under the installation folder.

Example: To configure the application to run on port 12500, the server.port property is:

```
server.port=12500
```

To **stop** Oracle Utilities Testing Accelerator:

1. Navigate to the installation folder (the **Oracle Home** folder).
2. Run the following command:

   ```
   ./stopUTA.sh
   ```

> **Note**: Make sure that the Oracle Utilities Testing Accelerator Runtime Executor is up and running. For instructions refer to the Starting/ Stopping Oracle Utilities Testing Accelerator Runtime Executor section.

Securing the Installation Folder

The Oracle Utilities Testing Accelerator installation folder contains the credentials store and other properties related to the application. Administrators are expected to restrict access to the installation folder to only authorized users.

Importing Oracle Utilities Testing Accelerator Certificates

Run the following steps using a browser either on the server where the application is installed or on a client machine that has a browser installed and can access the application.

To import the security key store into Java key store:

1. Enter the Oracle Utilities Testing Accelerator URL (HTTPS) in the browser.

   Example: Google Chrome

2. Click **Continue to this Website (not recommended)** link on the **Security certificate** page.
3. Click **Certificate error** in the address bar.
4. Click the **View certificates** link on the **Certificate Invalid** pop-up window.
5. On the **Details** tab, click **Copy to File**.
6. Click **Browse** and select the file to export.
7. Click **Next**.
8. Review the settings and click **Finish**.
9. Copy the created certificate file to the server where the application is installed.
10. Set the JAVA_HOME and PATH variables point to the correct JDK version used to install the application.

    Verify this by entering the `java -version` command at the shell prompt. It should return the correct JDK version that was used while installing Oracle Utilities Testing Accelerator.

11. Run the following command as "root user":

    ```
    keytool -import -alias <alias name> -keystore  <certificate store location> -file <certificate location>
    ```

    where:

    - **alias name**: Name for the certificate, typically the name of the server
    - **certificate store location**: Location of cacerts. Example: $JAVA_HOME/jre/lib/security/cacerts
    - **certificate location**: Location of the certificate file (as in step 9)

    When prompted for password, enter "changeit".

12. Restart the application for changes to take effect.

Importing Application Specific Metadata Bundles

To import metadata bundles into an Oracle Utilities application:

1. Login to the Oracle Utilities application.

   Example: Oracle Utilities Customer Care and Billing application

2. Open the application specific IWS bundle located at <TEMPDIR>/Client / <Product>/<ProductVersion> folder and copy the content of the bundle.

   Example: Navigate to the <TEMPDIR>/Client/resourceBundles/CCB/2.6.0.0/, open CCB2600_UTA501_IWS_CHG.xmland copy the content.

   > **Note**: Before importing any product-specific metadata bundles, ensure that the Core metadata bundle is imported.

3. Navigate to **Admin > Implementation Tools > Bundle Import > Add**.
4. Provide the **External Reference** and **Detailed Description**.
5. Paste the XML content from Step 2 into the **Bundle Details** field.
6. Click **Save**.

7. On the **Bundle Import** page, check if the status of the bundle is '**Pending**'.
8. Click **Apply**.

   The metadata bundle is imported successfully. The **Bundle Import** screen displays the status as '**Applied**'.

Importing Inbound Web Service Bundles

To import the Inbound Web Service (IWS) bundles into an Oracle Utilities application:

1. Login to the Oracle Utilities application.

   Example: Oracle Utilities Mobile Workforce Management

2. Open the application specific IWS bundle located at <TEMPDIR>/Client/<Product >/<ProductVersion> and copy the content of the bundle.

   Example: Navigate to <TEMPDIR>/Client/MWM\2.3.0.0\. Open MWM2300_IWS.xml using a text editor and copy the content.

3. Navigate to **Admin > Implementation Tools > Bundle Import > Add**.
4. Provide the **External Reference** and **Detailed Description**.
5. Paste the xml content from Step 2 into the **Bundle Details** field.
6. Click **Save**.
7. On the **Bundle Import** page, check if the status of the bundle is '**Pending**'.
8. Click **Apply**.

   The metadata bundle is imported successfully. The **Bundle Import** screen displays the status as '**Applied**'.

Deploying Inbound Web Services

To deploy the Inbound Web Service bundles:

> **Important!** Make sure that the application specific Inbound Web Services bundle is imported successfully into the Oracle Utilities application.

1. Login to the Oracle Utilities application where the Inbound Web Services have to be deployed.
2. Navigate to **Admin** > **Integration** > **Inbound Web Service Deployment**. The Inbound Web Services imported successfully into the application are displayed with the '**Needs Deploy'** status.
3. Click **Deploy** to deploy the services.

   > **Note**: If the **Deploy** button is not enabled in the application, refer to the *Oracle Utilities Application Framework Administration Guide* for instructions on how the web services can be deployed on the server.

4. Click **Refresh** to view the deployment status.

Note that the Inbound Web Services should be deployed before they can be used for automation.

Applying Prerequisite Patches

There are certain Oracle Utilities application specific patches that should be installed in the respective application before executing any automation flows in it.

For details about patches in this release, refer to Appendix A: Prerequisite Patches.

Initial Setup for Administrators

For setup details, refer to the **Initial Setup for Administrators** section in *Oracle Utilities Testing Accelerator User's Guide* included in this release.

To access the Oracle Utilities Testing Accelerator application, user accounts need to be created in the Oracle Utilities Testing Accelerator application.

For more details about creating/managing users, refer to the **Managing Users** section in *Oracle Utilities Testing Accelerator User's Guide* included in this release.

Appendix A

Prerequisite Patches

Oracle Utilities application specific patches should be installed in the respective application before executing any automation flows in it.

The patches are listed below:

Bug Fix	Description
Oracle Utilities Customer Care and Billing (V2.7.0.3.0)	
24939095	Missing attribute value for recommenddepositamt button in C1-StartStopUpdate
30342689	Additional Data for CCB 27030 Requirement
Oracle Utilities Customer Care and Billing (V2.7.0.1.0)	
29164072	Allow CIS division does not exists on C1-PremiseTypePhysicalBO business objects
27916013	Order-Business Service for Order has missing Person Contact fields
Oracle Utilities Customer Care and Billing (V2.6.0.0.0)	
27916013	Person Contact related fields are missing from the C1OrderAdd, C1OrderRead and C1OrderUpdate business services
24939095	Missing attribute value for recommenddepositamt button in C1-StartStopUpdate
Oracle Utilities Customer to Meter (V2.7.0.3.0)	
24939095	UTA missing attribute value for recommenddepositamt button in C1-StartStopUpdate
30342689	Additional Data for CCB 27030 Requirement
Oracle Utilities Customer to Meter (V2.7.0.1.0)	
29164072	Allow CIS division does not exists on C1-PremiseTypePhysicalBO business objects

Bug Fix	Description
Oracle Utilities Customer to Meter (V2.7.0.0.0)	
29160087	Allow CIS division does not exists on C1-PremiseTypePhysicalBO business objects
Oracle Utilities Customer to Meter (V2.6.0.1.0)	
27573592	SA relationship was added in o/b SA sync schema and this will get populated for sub-SAs. This change is to support settlements. However not all types of SA relationships are synced to MDM.
27916049	Missing attribute value for recommenddepositamt button in C1-StartStopUpdate

Appendix B

Oracle Utilities Application Product Packs

Oracle Utilities application product packs contain components and flows for the respective product versions. Download the product pack for the Oracle Utilities application version used and install the components and flows into Oracle Utilities Testing Accelerator.

Below are some of the patches corresponding to the latest product packs of the respective Oracle Utilities application. For a complete list of available product packs, refer the patch list for Oracle Utilities Testing Accelerator available on My Oracle Support (support.oracle.com).

Product Version	Product Pack Patch Number
Oracle Utilities Customer to Meter	
2.9.0.0	33875392
2.8.0.0	32594861
2.7.0.3	30399349
2.7.0.2	30399347
2.7.0.1	30610202
2.7.0.0	29334035
2.6.0.1	30099758
Oracle Utilities Customer Care and Billing	
2.9.0.0	33875387
2.8.0.0	32594859
2.7.0.3	30399343
2.7.0.2	30399337
2.7.0.1	29334101
2.7.0.0	28827643
2.5.0.2	28827631
2.5.0.1	28941451

Product Version	Product Pack Patch Number
Oracle Utilities Work and Asset Management	
2.2.0.6.1	30877230
2.2.0.6	30921707
2.2.0.5	30876832
2.2.0.4	30876819
2.2.0.3	29334135
Oracle Utilities Meter Data Management/Oracle Utilities Smart Grid Gateway	
2.5.0.0	33879424
2.4.0.0	32529970
2.3.0.2.3	32074697
2.3.0.2	30216999
2.3.0.0	29334064
2.2.0.3	29534420
2.1.0.3	28824033
Oracle Utilities Mobile Workforce Management	
2.3.0.3	29303450