Oracle Utilities Testing Accelerator

Installation and Administration Guide

Release 6.0.0

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Oracle Utilities Testing Accelerator Installation and Administration Guide, Release 6.0.0

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Appendix A

Preface

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

This guide explains how to install Oracle Utilities Testing Accelerator v6.0.0. 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 12c 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 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*
- *Oracle Utilities Testing Accelerator Reference Guide for Oracle Utilities Mobile Workforce Management/ Oracle Real-Time Scheduler v2.3.0.0*
- *Oracle Utilities Testing Accelerator Reference Guide for Oracle Utilities Customer Care and Billing v2.6.0.0*
- *Oracle Utilities Testing Accelerator Reference Guide for Oracle Utilities Customer Care and Billing v2.6.0.1*
- *Oracle Utilities Testing Accelerator Reference Guide for Oracle Utilities Customer To Meter v2.6.0.1*
- *Oracle Utilities Testing Accelerator Reference Guide for Oracle Utilities Work and Asset Management/ Oracle Utilities Operational Device Management v2.2.0.1*
- *Oracle Utilities Testing Accelerator Reference Guide for Oracle Utilities Meter Data Management / Oracle Utilities Smart Grid Gateway v2.2.0.1*
- *Oracle Utilities Testing Accelerator Reference Guide for Oracle Utilities Meter Data Management / Oracle Utilities Smart Grid Gateway v2.2.0.2*

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

Term	Expanded Form
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 Upgrade Guide
  - Oracle Utilities Testing Accelerator Licensing Information User Manual
  - Oracle Utilities Testing Accelerator Reference Guide for Core
  - Oracle Utilities Testing Accelerator Reference Guide for Oracle Utilities Customer Care and Billing v2.6.0.0
  - Oracle Utilities Testing Accelerator Reference Guide for Oracle Utilities Customer Care and Billing v2.6.0.1
  - Oracle Utilities Testing Accelerator Reference Guide for Oracle Utilities Customer To Meter v2.6.0.1
  - Oracle Utilities Testing Accelerator Reference Guide for Oracle Utilities Work and Asset Management/ Oracle Utilities Operational Device Management (v2.2.0.1)
  - Oracle Utilities Testing Accelerator Reference Guide for Oracle Utilities Meter Data Management / Oracle Utilities Smart Grid Gateway (v2.2.0.1)
  - Oracle Utilities Testing Accelerator Reference Guide for Oracle Utilities Meter Data Management / Oracle Utilities Smart Grid Gateway (v2.2.0.2)
  - Oracle Utilities Testing Accelerator Reference Guide for Oracle Utilities Mobile Workforce Management/ Oracle Real-Time Scheduler (v2.3.0.0)

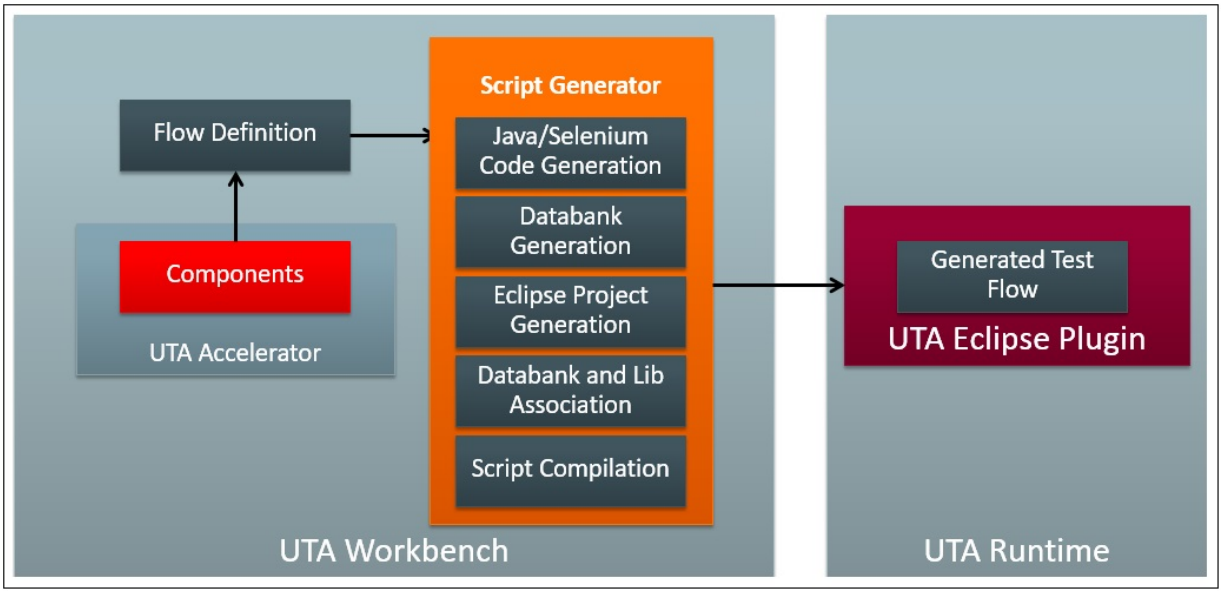
- **Installation Package**
  - Oracle Utilities Testing Accelerator Multiplatform

Chapter 1

Overview

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

The high-level architecture diagram for Oracle Utilities Testing Accelerator is as follows:



High-Level Architectural Diagram

Components and component sets are defined using metadata in Oracle Utilities Testing Accelerator Workbench. Using these components, a flow can be assembled and generated. The generated script can be used and executed 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 chapter includes information about the following:

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 details:

- Operating Systems and Application Servers
- Oracle Database Servers
- Apache Tomcat Information

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.

Operating System and Web Browser (Client)	Operating System (Server)	Chipset	Application Server	Database
Windows 7/Windows 10 Firefox 52.7ESR Chrome 65	Oracle Linux 7 (64-bit)	x86_64	Tomcat 9.0.7 (embedded)	Oracle 12.2.0.1

Oracle Database Servers

Oracle Utilities Testing Accelerator is supported with Oracle Database Server 12.2.0.1 on all of the operating systems listed in the Operating Systems and Application Servers section.

Oracle Utilities Testing Accelerator supports Oracle Database Enterprise Edition.

Oracle 12c client is required for the 12.2.0.1 database server.

Apache Tomcat Information

Apache Tomcat Server (v9.0.7) is embedded within Oracle Utilities Testing Accelerator and so installation is not required.

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 test environment that is running on the same platform as your production environment prior to updating the Oracle Utilities Testing Accelerator production environment.

Ensure you contact the Oracle Utilities Testing Accelerator Support prior to applying vendor updates that do not guarantee backward compatibility.

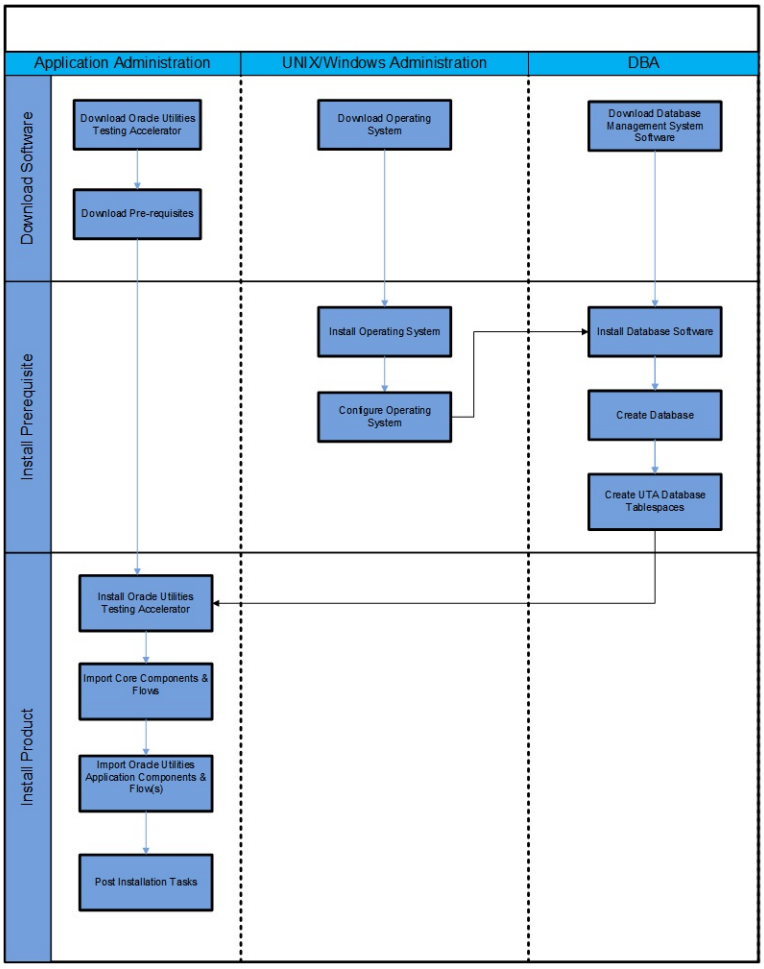
Chapter 3

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 be followed to install and configure Oracle Utilities Testing Accelerator.



Installation Overview

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 1.8.161+ Oracle Database 12.2.0.1 Enterprise Edition
Prerequisite Software (Client)	Oracle JDK 1.8.161+ Eclipse IDE for Java Developers Edition (Oxygen)

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 52.7ESR/Chrome 66
Operating System (Client)	Windows 7, Windows 10 (32-bit/64-bit)
Operating System (Server)	Oracle Linux 7 (64-bit)
Chipset	x86_64
Database	Oracle Database 12.2.0.1 Enterprise

Supported Oracle Utilities Products

Test accelerators for the following Oracle Utilities products are provided by this Oracle Utilities Testing Accelerator release.

Product	Version
Oracle Real-Time Scheduler	2.3.0.0
Oracle Utilities Mobile Workforce Management	2.3.0.0
Oracle Utilities Customer Care and Billing	2.6.0.0 2.6.0.1
Oracle Utilities Customer To Meter	2.6.0.1
Oracle Utilities Work and Asset Management	2.2.0.1
Oracle Utilities Operational Device Management	2.2.0.1
Oracle Utilities Meter Data Management	2.2.0.1 2.2.0.2
Oracle Utilities Smart Grid Gateway	2.2.0.1 2.2.0.2

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 .	Administrator
2	Verify the prerequisites have been met. refer to Prerequisites.	Administrator
3	Install Oracle Utilities Testing Accelerator. Refer to .	Administrator

Step	Task	Role
4	Import Oracle Utilities Testing Accelerator export zip files into Oracle Utilities Testing Accelerator Workbench. Refer to .	Administrator
5	Install Eclipse IDE for Java Developers and Oracle Utilities Testing Accelerator Eclipse Plugin. For more details, refer to the *Oracle Utilities Testing Accelerator User's Guide*.	User (Developer)

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.

Preparing Database for Oracle Utilities Testing Accelerator

To ensure that the necessary tablespaces are created as expected:

> **Note**: Execute 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 execute the following steps using a graphical desktop system tool (such as VNC viewer).

To extract the package:

1. Download the Oracle Utilities Testing Accelerator v6.0.0 Multiplatform part from Oracle Software Delivery Cloud (OSDC) (https://edelivery.oracle.com/).
2. Create the <TEMPDIR> directory.
3. Extract the zip file into the <TEMPDIR> created in the above step.
4. Unzip the UTA_Client.zip file into <TEMPDIR>/Client directory.

Installing Oracle Utilities Testing Accelerator

To install Oracle Utilities Testing Accelerator:

1. Navigate to <TEMPDIR>.
2. Transfer or copy the UTA_6.0.0_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.

   Ensure that the Java version used is Oracle Java 1.8.0_161+.

   For example:

   ```
   export JAVA_HOME=<path of the Oracle JDK 1.8_161+>
   export PATH=$JAVA_HOME/bin:$PATH
   ```

4. Execute java -jar <TEMPDIR>\UTA_6.0.0_generic.jar.
5. On the **Oracle Universal Installer Welcome** screen, click **Next**.
6. On the **Installation Location** screen, enter the following details:

   Oracle Home: Directory where UTA should be installed.

   > **Note**: This directory is referred to in the following sections as <UTA_HOME>.

7. Click **Next**.
8. On the **Java Home and Application Details** screen, enter the following details:
   - **Java Home**: Directory where Oracle JDK 1.8.0_161+ is installed.
   - **Application Server Port**: The network port on which the UTA application should run.
   - **Application Administrator User Name**: User name of the user account that would be created with Administrator role for the UTA 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.
9. Click **Next**.
10. 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.
11. Click **Next**.
12. 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.

13. Click **Next**.
14. On the **Installation Summary** screen, click **Install**.
15. On the **Installation Progress** screen, click **Next**. The **Installation Complete** screen appears.
16. 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.

For more information, refer to the Importing Oracle Utilities Testing Accelerator Certificates section.

Installing Components and Flows

This section provides the steps to install the 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 Mobile Workforce Management v2.3.0.0
- Installing Components and Flows for Customer Care and Billing v2.6.0.0
- Installing Components and Flows for Customer Care and Billing v2.6.0.1
- Installing Components and Flows for Customer To Meter v2.6.0.1
- Installing Components and Flows for Work and Asset Management v2.2.0.1
- Installing Components and Flows for Meter Data Management/ Smart Grid Gateway v2.2.0.1
- Installing Components and Flows for Meter Data Management/ Smart Grid Gateway v2.2.0.2
- Importing Components and Flows into Oracle Utilities Testing Accelerator Workbench

Installing Core Components and Flows

This section provides information about installing the core components and flows. It includes:

- Importing Core Components and Flows

Importing Core Components and Flows

To import core components and flows:

1. Navigate to the <TEMPDIR>/Client folder created in the Extracting the Oracle Utilities Testing Accelerator Packages section.
2. Navigate to <TEMPDIR>/Client/ Core/6.0.0.0 directory.
3. Import the CORE6000_UIComponents.zip and CORE6000_WSComponents.zip followed by CORE6000_Flows.zip into the Oracle Utilities Testing Accelerator Workbench.

   For detailed steps to import components and flows into Oracle Utilities Testing Accelerator Workbench, refer to the Importing Components and Flows into Oracle Utilities Testing Accelerator Workbench section.
4. Import OUAF501_IWS_4305x.xml IWS bundle into the Oracle Utilities application by following instructions in Importing Inbound Web Service Bundles section.
5. Deploy the above bundle by following the instructions in Deploying Inbound Web Services section.

Installing Components and Flows for Mobile Workforce Management v2.3.0.0

Important: Ensure to execute the steps in the Installing Core Components and Flows section before proceeding with the following steps.

To install components and flows for Mobile Workforce Management (v2.3.0.0):

1. Navigate to the <TEMPDIR>/Client folder created in the Extracting the Oracle Utilities Testing Accelerator Packages section above.
2. Navigate to <TEMPDIR>/Client/ MWM/2.3.0.0 directory.
3. Import the MWM2300_Components.zip followed by MWM2300_Flows.zip into the Oracle Utilities Testing Accelerator Workbench.

   See the Importing Components and Flows into Oracle Utilities Testing Accelerator Workbench section for detailed steps to import components and flows into Oracle Utilities Testing Accelerator Workbench.
4. Import MWM2300_IWS.xml IWS bundle into the Oracle Utilities application by following instructions in Importing Inbound Web Service Bundles section.
5. Deploy the above bundle by following the instructions in Deploying Inbound Web Services section.

Installing Components and Flows for Customer Care and Billing v2.6.0.0

Important: Ensure to execute the steps in the Installing Core Components and Flows section before proceeding with the following steps.

1. Navigate to the <TEMPDIR>/Client folder created in the Extracting the Oracle Utilities Testing Accelerator Packages section above.
2. Navigate to <TEMPDIR>/Client/ CCB/2.6.0.0 directory.
3. Import the CCB2600_Components.zip followed by CCB2600_Flows.zip into the Oracle Utilities Testing Accelerator Workbench.

For detailed steps to import components and flows into Oracle Utilities Testing Accelerator Workbench, refer to the Importing Components and Flows into Oracle Utilities Testing Accelerator Workbench section.

4. Import CCB2600_UTA501_IWS_CHG.xml IWS bundle followed by CCB2600_IWS.xml IWS bundle into the Oracle Utilities Application by following instructions in Importing Inbound Web Service Bundles section.
5. Deploy the above bundle by following the instructions in Deploying Inbound Web Services section.

Installing Components and Flows for Customer Care and Billing v2.6.0.1

Important: Ensure to execute the steps in the Installing Core Components and Flows section before proceeding with the following steps.

1. Navigate to the <TEMPDIR>/Client folder created in the Extracting the Oracle Utilities Testing Accelerator Packages section above.
2. Navigate to <TEMPDIR>/Client/ CCB/2.6.0.1 directory.
3. Import the CCB2601_Components.zip followed by CCB2601_Flows.zip into the Oracle Utilities Testing Accelerator Workbench.

   For detailed steps to import components and flows into Oracle Utilities Testing Accelerator Workbench, refer to the Importing Components and Flows into Oracle Utilities Testing Accelerator Workbench section.
4. Import CCB2600_UTA501_IWS_CHG.xml IWS bundle followed by CCB2600_IWS.xml and CCB2601_IWS.xml IWS bundle into the Oracle Utilities Application by following instructions in Importing Inbound Web Service Bundles section.
5. Deploy the above bundle by following the instructions in Deploying Inbound Web Services section.

Installing Components and Flows for Customer To Meter v2.6.0.1

Important: Ensure to execute the steps in the Installing Core Components and Flows section before proceeding with the following steps.

1. Navigate to the <TEMPDIR>/Client folder created in the Extracting the Oracle Utilities Testing Accelerator Packages section above.
2. Navigate to <TEMPDIR>/Client/ C2M/2.6.0.1 directory.
3. Import the C2M2601_Components.zip followed by C2M2601_Flows.zip into the Oracle Utilities Testing Accelerator Workbench.

   For detailed steps to import components and flows into Oracle Utilities Testing Accelerator Workbench, refer to the Importing Components and Flows into Oracle Utilities Testing Accelerator Workbench section.
4. Import C2M26010_IWS.xml IWS bundle into the Oracle Utilities Application by following instructions in Importing Inbound Web Service Bundles section.
5. Deploy the above bundle by following the instructions in Deploying Inbound Web Services section.

Installing Components and Flows for Work and Asset Management v2.2.0.1

Important: Ensure to execute the steps in the Installing Core Components and Flows section before proceeding with the following steps.

1. Navigate to the <TEMPDIR>/Client folder created in the Extracting the Oracle Utilities Testing Accelerator Packages section above.
2. Navigate to <TEMPDIR>/Client/ WAM/2.2.0.1 directory.
3. Import WAM2201_Components.zip followed by WAM2201_Flows.zipinto the Oracle Utilities Testing Accelerator Workbench.

   For detailed steps to import components and flows into Oracle Utilities Testing Accelerator Workbench, refer to the Importing Components and Flows into Oracle Utilities Testing Accelerator Workbench section.
4. Import the WAM2201_Zone_BS_Bundle.xml metadata bundle into the Oracle Utilities application by following the instructions in Importing Application Specific Metadata Bundles section.
5. Import WAM2201_IWS.xml IWS bundle into the Oracle Utilities Application by following instructions in the Importing Inbound Web Service Bundles section.
6. Deploy the above bundle by following the instructions in the Deploying Inbound Web Services section.

Installing Components and Flows for Meter Data Management/ Smart Grid Gateway v2.2.0.1

Important: Execute the steps in the Installing Core Components and Flows section prior to completing these steps.

1. Navigate to the <TEMPDIR>/Client folder created in the Extracting the Oracle Utilities Testing Accelerator Packages section above.
2. Navigate to <TEMPDIR>/Client/ MDM/2.2.0.1 directory.
3. Import the MDM2201_Components.zip followed by MDM2201_Flows.zip into the Oracle Utilities Testing Accelerator Workbench.

   For detailed steps to import components and flows into Oracle Utilities Testing Accelerator Workbench, refer to the Importing Components and Flows into Oracle Utilities Testing Accelerator Workbench section.

   Important: Before the sample flows provided in this release can be executed, the Test Harness needs to be configured. For more details about configuring the Test Harness, refer to the *Oracle Utilities Smart Grid Gateway Configuration Guide*.

   While importing the metadata bundles, ensure that the Meter2201_IWS.xml bundle is imported first. For each adapter installed, import its specific metadata bundle. (For example: If Echelon is installed, import Meter2201_Echelon_IWS.xml).
4. Import MDM/SGG IWS bundles into the Oracle Utilities application in the following order. Follow the instructions in the Importing Inbound Web Service Bundles section.
   - Meter2103_MDM_IWS.xml
   - Meter2103_IWS.xml
   - Meter_2103_Integration_Bundle.xml
   - Meter2103_Landis Gyr_IWS.xml

- Meter2103_Echelon_IWS.xml
- Meter2103_Sensus_IWS.xml
- Meter2103_SSN_IWS.xml
- Meter2103_Itron OpenWay_IWS.xml
- Meter2200_IWS.xml
- Meter2200_PrereqBundle.xml
- Meter2200_Landis Gyr_IWS.xml
- MDM2201.xml
- SGG2201.xml

5. Deploy the bundle. For instructions, refer to the Deploying Inbound Web Services section.

Installing Components and Flows for Meter Data Management/ Smart Grid Gateway v2.2.0.2

Important: Execute the steps in the Installing Core Components and Flows section prior to completing these steps.

1. Navigate to the <TEMPDIR>/Client folder created in the Extracting the Oracle Utilities Testing Accelerator Packages section above.
2. Navigate to <TEMPDIR>/Client/MDM/2.2.0.2 directory.
3. Import the MDM2202_Components.zip followed by MDM2202_Flows.zip into the Oracle Utilities Testing Accelerator Workbench.

   For detailed steps to import components and flows into Oracle Utilities Testing Accelerator Workbench, refer to the Importing Components and Flows into Oracle Utilities Testing Accelerator Workbench section.

   Important: Before the sample flows provided in this release can be executed, the Test Harness needs to be configured. For more details about configuring the Test Harness, refer to the *Oracle Utilities Smart Grid Gateway Configuration Guide*.

   While importing the metadata bundles, ensure that the Meter2202_IWS.xml bundle is imported first. Then, for each adapter installed, import its specific metadata bundle. (For example: If Echelon is installed, import Meter2202_Echelon_IWS.xml).
4. Import MDM/SGG IWS bundles into the Oracle Utilities application in the following order. Follow the instructions in the Importing Inbound Web Service Bundles section.
   - Meter2103_MDM_IWS.xml
   - Meter2103_IWS.xml
   - Meter_2103_Integration_Bundle.xml
   - Meter2103_Landis Gyr_IWS.xml
   - Meter2103_Echelon_IWS.xml
   - Meter2103_Sensus_IWS.xml
   - Meter2103_SSN_IWS.xml
   - Meter2103_Itron OpenWay_IWS.xml
   - Meter2200_IWS.xml

- Meter2200_PrereqBundle.xml
- Meter2200_Landis Gyr_IWS.xml
- MDM2201.xml
- SGG2201.xml

5. Deploy the bundle. For instructions, refer to the Deploying Inbound Web Services section.

Importing Components and Flows into Oracle Utilities Testing Accelerator Workbench

To import the components and flows into Oracle Utilities Testing Accelerator Workbench, follow these steps:

1. Open the Firefox/Chrome browser.
2. Navigate to the Oracle Utilities Testing Accelerator Login page (the URL is provided during the UTA 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. See **step 8** in the Installing Oracle Utilities Testing Accelerator section.
3. Login as an Administrator using the credentials provided during the Oracle Utilities Testing Accelerator installation.
4. Once the login is successful, the **Dashboard** page is displayed.
5. On the **Tools** tab, click **Import**.
6. On the **Import** page, either drag the component/flow zip file to the area labeled "Drop files here or click to upload".

   OR

   Click the area and then navigate to the location containing the component/flow zip file. Select it and click **OK**.
7. Click **Save**.
8. After the import process is complete, 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
- 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

To **start** Oracle Utilities Testing Accelerator:

1. Navigate to the installation folder (the **Oracle Home** folder).
2. Execute 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.

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

```
server.port=12500
```

To **stop** Oracle Utilities Testing Accelerator:

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

```
./stopUTA.sh
```

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

Execute 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. For example: 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. Execute 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. For 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 the changes to take effect.

Importing Application Specific Metadata Bundles

To import metadata bundles into an Oracle Utilities application, follow these steps:

1. Login to the Oracle Utilities Application. (For 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.

   For 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. For more details, refer to the Importing Core Components and Flows section.

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, follow these steps:

1. Login to the Oracle Utilities Application. (For 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.

   For 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, follow these steps:

> **Important**: Ensure 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.

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 the *Oracle Utilities Testing Accelerator User's Guide*.

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 the *Oracle Utilities Testing Accelerator User's Guide*.

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 (v2.6.0.0)	
27247558	{INFO}UNNECESSARY FIELDS MARKED REQUIRED IN C1CASEPHYSICAL BO SCHEMA
27834594	COPY OF 27675076 - IWS ISSUE: DECIMALS NOT ALLOWED FOR PAYMENT AMOUNT USING BS-C1PAYMENTEVENTUPDATE
Oracle Utilities Customer Care and Billing (v2.6.0.1)	
27675076	IWS ISSUE: DECIMALS NOT ALLOWED FOR PAYMENT AMOUNT USING BS-C1PAYMENTEVENTUPDATE
27822163	COPY OF 27247558 - {INFO}UNNECESSARY FIELDS MARKED REQUIRED IN C1CASEPHYSICAL BO
27569058	UTA - BASE OBJECTS FOR TOU BILL FACTOR VALUE
Oracle Utilities Customer To Meter (v2.6.0.1)	
27822163	COPY OF 27247558 - {INFO}UNNECESSARY FIELDS MARKED REQUIRED IN C1CASEPHYSICAL BO
27675076	IWS ISSUE: DECIMALS NOT ALLOWED FOR PAYMENT AMOUNT USING BS-C1PAYMENTEVENTUPDATE
27388921	CANNOT CREATE AND UPDATE SA - EXTERNAL SYSTEM OR OUTBOUND MESSAGE TYPE MISSING
27474579	REMOVE USAGE RESPONSE JMS QUEUE - UT TRANSITIONS TO ISSUE-DETECTED